

NEW ZEALAND

ANNUAL STATISTICS IN RELATION TO
ELECTRIC POWER DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1966

Condensed Statistics for the Combined Development and Operations of the New Zealand Electricity Department and Distributing Electrical Supply Authorities

No.			Water	Steam	Oil*	Total	No.
1	Generating stations	No.	41	4	7	52	1
2	Installed capacity	kW	2,089,448	421,420	11,248	2,522,116	2
3	Generation	kWh	8,587,586,080	1,989,601,466	438,149	10,577,625,695	3
4	Maximum load	kW	..	..	..	2,261,100	4
5	Retail sales	kWh	..	..	..	9,004,245,405	5
6	Consumers	No.	..	..	..	967,091	6
7	Population†	No.	..	..	..	..	7
8	Capital outlay, generation, transmission, and distribution .. .. .	£	..	..	..	459,397,191	8
9	Revenue retail sales of electricity .. .. .	£	..	..	49,329,588	..	9
10	Revenue from other sources .. .. .	£	..	..	1,070,675	..	10
11	Total revenue .. .. .	£	..	..	..	50,400,263	11
12	Working costs .. .. .	£	..	..	15,810,313	..	12
13	Capital charges .. .. .	£	..	..	25,173,591	..	13
14	Total costs .. .. .	£	..	..	..	40,983,904	14
15	Net profit .. .. .	£	..	..	..	9,416,359	15
16	Working costs per kWh sold retail	d.	..	..	0.4214	..	16
17	Capital charges per kWh sold retail	d.	..	..	0.6710	..	17
18	Total costs per kWh sold retail	d.	..	..	..	1.0924	18
19	Total revenue per kWh sold retail	d.	..	..	..	1.3434	19
20	Revenue retail sales of electricity per kWh sold retail	d.	..	..	..	1.3148	20
21	Generation per head of total population†	kWh	..	..	..	..	21
22	Retail sales per consumer	kWh	..	..	..	9.311	22
23	Capital outlay per kW installed capacity .. .. .	£	..	..	..	182.15	23
24	Ratio of capital charges to capital outlay .. .. .	%	..	..	..	5.480	24
25	Electrical fires reported during year	No.	..	..	..	108	25
26	Fatal electrical accidents during year	No.	..	..	..	13	26
27	Electric ranges (domestic)	No.	..	..	..	624,211	27
28	Electric water heaters (domestic)	No.	..	..	..	660,763	28

Notes—*Includes one gas plant of 6,000 kW capacity. †Population figures not available before February 1967.

TABLE I—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY
Summarised Gross Revenue, Net Revenue, and Appropriation Accounts for Year Ended 31 March 1966

	£	Revenue—	£
Working costs	6,809,037	Sales of energy	31,185,415
Capital charges—		Rent and miscellaneous receipts	201,241
Interest	10,861,751		
Depreciation including interest on depreciation reserve	4,857,645		
Loan capital repayments	1,905,962		
	17,625,358		
Total costs (see table IV)	24,434,395		
Transfer to Reserve Fund	6,952,261		
	31,386,656		31,386,656

TABLE II—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY
Summarised Balance Sheet as at 31 March 1966

	£		£
Loan liability	254,621,573	Completed works	274,165,486
Sundry creditors, etc.	4,227,101	Works under construction	58,183,080
Reserves—		Plant, motor vehicles, and tools	1,248,206
Depreciation	40,483,877	Stocks of materials	3,216,961
Loan capital repayments	18,385,251		
Reserve Fund	25,910,531	Capital outlay (see table V)	336,813,733
	84,779,659	Sundry debtors, etc.	6,814,600
	343,628,333		343,628,333

TABLE III—OPERATING RESULTS: NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

	1965-66		1965-66
Maximum load (kilowatts)—		Revenue—	
New Zealand* 1965-66	2,176,300	Per kW of maximum load	£14 3296
Average load (kilowatts)—		Per unit output	0 729d.
New Zealand	1,171,284	Per unit sold	0 798d.
Average load factor—		Working costs—(including administra-	
New Zealand	53.82	tion)—	
Unit output (generated and purchased)—		Per kW of maximum load	£3 1287
New Zealand	10,260,451,101	Per unit output	0 159d.
Units sold—		Per unit sold	0 174d.
New Zealand	9,384,739,558	Capital charges—	
Units unsold (used free of charge)—		Per kW of maximum load	£8 0988
New Zealand	80,721,313	Per unit output	0 412d.
Line losses—		Per unit sold	0 451d.
Transmission and distribution—	Units	Total costs—	
New Zealand	794,990,230	Per kW of maximum load	£11 2275
	Per Cent	Per unit output	0 571d.
	7.75	Per unit sold	0 625d.

*See footnote, table VII, for maximum load for total public supply.

TABLE IV—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY
Analysis of Operating Costs for Year Ended 31 March 1966

	(a) Working Costs	(b) Administration Costs	(c) Capital Charges	(d) Total Costs	Total Cost per kWh	
					(e) Output	(f) Sold
Hydro-electric stations	£1,031,948	£461,459	£9,555,615	£11,049,022	0.3208	..
Thermal stations	2,552,153	349,964	3,379,037	6,281,154	0.7625	..
Power purchased	35,954	719	..	36,673	..	..
Generated and purchased	3,620,055	812,142	12,934,652	17,366,849	0.4062	0.4441
Transmission	462,610	206,866	2,337,297	3,006,773	0.0703	0.0770
Substations	649,131	290,273	2,096,190	3,035,594	0.0710	0.0776
Communications	103,564	46,311	76,739	226,614	0.0053	0.0058
Retail distribution	182,709	175,464	180,480	538,653	0.0126	0.0138
System operation	179,600	80,312	..	259,912	0.0061	0.0066
Totals	5,197,669	1,611,368	17,625,358	24,434,395	0.5715	0.6249
Administration (see column (b))	1,611,368					
	6,809,037	SUMMARY				
		Working costs	5,197,669	0.1216	0.1329	
		Administration costs	1,611,368	0.0377	0.0412	
		Capital charges	17,625,358	0.4122	0.4508	
		Total costs	24,434,395	0.5715	0.6249	

TABLE V—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY
Analysis of Capital Outlay as at 31 March 1966

	Headworks	Station Buildings and Villages	Generating Plant and Machinery	Total	Grand Total
<i>Completed Works</i>					
Hydro-electric stations—	£	£	£	£	£
Karapiro	2,573,727	604,382	966,037	4,144,146	
Arapuni	1,526,108	556,996	1,137,100	3,220,204	
Waipapa	5,008,771	1,577,147	1,425,813	7,811,731	
Maratai	6,096,011	1,693,351	1,763,496	9,552,858	
Whakamaru	7,075,544	1,494,439	2,436,965	11,006,948	
Atiamuri	6,825,706	1,478,575	2,088,049	10,392,330	
Ohakuri	6,982,427	1,575,811	1,986,268	10,544,506	
Aratiatia	5,250,118	1,449,554	1,378,317	8,077,989	
Lake Taupo Control	205,165	..	..	205,165	
Kaitawa	1,208,910	188,385	314,406	1,711,701	
Tuai	275,344	336,629	481,028	1,093,001	
Piripaua	756,567	107,849	212,709	1,077,125	
Lake Waikaremoana Control	463,377	..	..	463,377	
Mangahao	979,637	197,489	318,884	1,496,010	
Cobb	4,134,025	427,763	397,884	4,959,672	
Arnold	109,996	11,469	26,667	148,132	
Lake Coleridge	553,628	199,818	251,302	1,004,748	
Highbank	333,788	129,216	179,901	642,905	
Lake Tekapo	2,580,325	526,446	442,041	3,548,812	

TABLE V—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY—continued

	Headworks	Station Buildings and Villages	Generating Plant and Machinery	Total	Grand Total
<i>Analysis of Capital Outlay as at 31 March 1966</i>					
<i>Completed Works—continued</i>					
Hydro-electric stations—continued	£	£	£	£	£
Benmore	24,885,832	495,122	8,524,497	33,905,451	
Waitaki	1,892,323	1,539,529	1,292,579	4,724,431	
Roxburgh	16,413,105	3,053,825	4,363,415	23,830,345	
Lake Wakatipu Control	692	2,747	..	3,439	
Lake Hawea Control	2,446,820	6,180	..	2,453,000	
Monowai	128,656	79,898	70,018	278,572	
	101,016,593	17,532,620	30,057,376	..	148,606,589
Thermal stations—					
King's Wharf .. .. .	..	165,170	259,243	424,413	
Meremere	2,044,884*	4,226,066	11,656,865	17,927,815	
Wairakei	10,686,761†	4,701,646	6,131,901	21,520,308	
Evans Bay .. .. .	..	77,066	223,291	300,357	
Stoke .. .. .	..	12,341	66,961	79,302	
Dobson .. .. .	..	42,428	94,949	137,377	
	12,731,645	9,224,717	18,433,210	..	40,389,572
Transmission system—					
33 kV a.c. .. .. .	..	..	..	233,887	
50 kV a.c. .. .. .	..	..	..	765,752	
66 kV a.c. .. .. .	..	..	..	2,262,508	
110 kV a.c. .. .. .	..	..	..	8,788,394	
220 kV a.c. .. .. .	..	..	..	16,102,283	
500 kV d.c. .. .. .	..	..	..	8,196,244	
				..	36,349,068
Substations—					
33 kV .. .. .	..	..	..	252,841	
50 kV .. .. .	..	..	..	1,072,125	
66 kV .. .. .	..	..	..	2,242,078	
110 kV .. .. .	..	..	..	12,638,036	
220 kV .. .. .	..	..	..	16,394,345	
				..	32,599,425
Communication system .. .. .	..	..	..	1,193,419	
Distribution system .. .. .	..	..	..	2,806,787	
Offices, stores, land and buildings .. .. .	..	..	..	1,070,442	
Cost of raising loans .. .. .	..	..	..	819,146	
Interest during construction on completed work .. .. .	..	..	..	10,331,038	
Total completed works .. .. .	..	..	..	..	274,165,486
<i>Works Under Construction</i>					
Hydro-electric stations—					
Maratai II	3,690,315	602,282	176,811	4,469,408	
Matahina	12,002,679	384,203	1,310,238	13,697,120	
Tongariro	8,620,742	..	..	8,620,742	
Benmore .. .. .	..	3,191	328,480	331,671	
Aviemore	5,874,248	11,663	125,331	6,011,242	
Manapouri	12,820,536	..	..	12,820,536	
Additions to completed stations	2,047	7,630	79,146	88,823	
Other works	49,478	..	..	49,478	
	43,060,045	1,008,969	2,020,006	46,089,020	
Thermal stations—					
Meremere .. .. .	..	61,798	175,748	237,546	
Marsden .. .. .	..	3,090,889	499,890	3,590,779	
Gas turbines .. .. .	..	16,826	922	17,748	
Wairakei	290,633†	3,436	..	294,069	
	290,633	3,172,949	676,560	4,140,142	
Transmission system—					
33 kV a.c. .. .. .	..	..	..	24,290	
50 kV a.c. .. .. .	..	..	..	33,572	
66 kV a.c. .. .. .	..	..	..	20,434	
110 kV a.c. .. .. .	..	..	..	331,012	
220 kV a.c. .. .. .	..	..	..	1,353,983	
				1,763,291	
Substations—					
33 kV .. .. .	..	..	..	9,767	
50 kV .. .. .	..	..	..	47,655	
66 kV .. .. .	..	..	..	261,549	
110 kV .. .. .	..	..	..	1,312,950	
220 kV and higher voltage .. .. .	..	..	..	745,334	
				2,377,255	
Communication system .. .. .	..	..	..	27,360	
Distribution system .. .. .	..	..	..	7,914	
Offices, stores, land and buildings .. .. .	..	..	..	17,410	
				54,422,392	
Surveys and investigations of other schemes .. .. .	..	..	..	3,760,688	
				..	58,183,080
Fixed assets .. .. .	..	..	..	..	332,348,566
Plant, motor vehicles and tools .. .. .	..	..	..	..	1,248,206
Stocks and materials .. .. .	..	..	..	..	3,216,961

TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGES, ROUTE-MILES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1966

No.	Supply Authorities	Year When Supply Commenced	Capacity of Generating Plant				Static Head, in Feet	Voltage			Distribution Substations		Route Miles of Lines
			Water	Steam	Oil	Total Capacity		Transmission	Distribution*	Number	kVA		
1	New Zealand Electricity Department												
2	North Island	1921	157,800	180,000	..	1,429,420	1,620,398	..	11,000; 6,600; 3,300	..	214	122,557	3,859
3	Ararua	..	90,000	100,000	..	..	..	..	..	..	..	..	..
4	Aurora	..	84,000	93,333	..	..	..	..	..	..	..	..	..
5	Bay of Plenty	1928	90,000	100,000	..	..	..	..	..	..	..	..	..
6	Bay of Plenty	1928	10,200	24,000	..	..	..	..	..	..	..	..	..
7	Bay of Plenty	1928	180,000	200,000	..	..	..	..	..	..	..	..	..
8	Central Canterbury	1921	112,000	124,400	..	..	..	..	..	..	..	..	..
9	Central Canterbury	1921	124,000	144,000	..	..	..	..	..	..	..	..	..
10	Central Canterbury	1921	51,000	56,700	..	..	..	..	..	..	..	..	..
11	Central Canterbury	1921	100,000	111,100	..	..	..	..	..	..	..	..	..
12	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
13	Central Canterbury	1921	3,060	3,600	..	..	..	..	..	..	..	..	..
14	Central Canterbury	1921	450,000	524,222	..	..	..	..	..	..	..	..	..
15	Central Canterbury	1921	32,500	30,640	..	..	..	..	..	..	..	..	..
16	Central Canterbury	1921	25,200	28,000	..	..	..	..	..	..	..	..	..
17	Central Canterbury	1921	6,000	7,050	..	..	..	..	..	..	..	..	..
18	Central Canterbury	1921	320,000	355,555	..	..	..	..	..	..	..	..	..
19	Central Canterbury	1921	25,200	28,000	..	..	..	..	..	..	..	..	..
20	Central Canterbury	1921	105,000	116,666	..	..	..	..	..	..	..	..	..
21	Central Canterbury	1921	2,008,960	2,312,766	..	2,430,380	2,799,631	..	..	..	203	391,889	6,523
22	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
23	Central Canterbury	1921	424	530	..	..	..	..	..	..	..	..	..
24	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
25	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
26	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
27	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
28	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
29	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
30	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
31	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
32	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
33	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
34	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
35	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
36	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
37	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
38	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
39	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
40	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..
41	Central Canterbury	1921	..	..	..	..	..	..	..	..	..	..	..

(For notes see page 6)

TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGES, ROUTE-MILES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1966—continued

No.	Supply Authorities	Year When Supply Commenced	Capacity of Generating Plant				Static Head, in Feet	Voltage			Distribution Substations		Route Miles of Lines
			Water	Steam	Oil	Total Capacity		Transmission	Distribution*	Number	kVA		
25	Power Boards—continued												
26	Olgo Central	1923	6,145	7,646	..	6,145	7,646	..	6,600; 3,300; 415; 400	..	852	21,714	1,052
27	Poverty Bay	1912	..	..	..	..	..	..	..	..	..	..	..
28	South Canterbury	1925	..	..	..	..	..	..	..	..	..	..	..
29	Taranaki	1927	4,800	5,400	..	4,800	5,400	..	6,600	..	..	..	..
30	Taranaki	1925	..	..	..	..	..	..	..	..	..	..	..
31	Taranaki	1926	..	..	..	..	..	..	..	..	..	..	..
32	Te Awamutu	1921	..	..	..	..	..	..	..	..	..	..	..
33	Thames Valley	1921	450	520	..	450	520	..	3,300; 2,500; 400	..	..	..	..
34	Waikanae	1923	770	1,100	..	770	1,100	..	3,300	..	..	..	..
35	Waikanae	1923	3,400	3,740	..	3,400	3,740	..	3,300; 11,000; 6,600	..	..	..	..
36	Waikanae	1923	..	..	..	..	..	..	..	..	..	..	..
37	Waikanae	1926	..	..	..	..	..	..	..	..	..	..	..
38	Waikanae	1926	..	..	..	..	..	..	..	..	..	..	..
39	Waikanae	1926	..	..	..	..	..	..	..	..	..	..	..
40	Waikanae	1926	..	..	..	..	..	..	..	..	..	..	..
41	Westland	1959	2,460	2,988	..	2,460	2,988	..	6,600; 2,300; 2,200; 400	..	120	6,617	214
1	Christchurch	..	26,898	31,511	..	26,898	31,511	..	..	..	50,325	2,807,103	54,901
2	Dunedin	..	..	..	..	..	..	..	..	..	..	..	..
3	Hamilton	1903	..	..	..	..	..	..	..	..	..	..	..
4	Invercargill	1914	..	..	..	..	..	..	..	..	..	..	..
5	Nelson	1913	..	..	..	..	..	..	..	..	..	..	..
6	Nelson	1913	..	..	..	..	..	..	..	..	..	..	..
7	New Plymouth	1906	3,750	4,500	..	3,750	4,500	..	6,600	..	..	..	..
8	Palmerston North	1924	..	..	..	..	..	..	..	..	..	..	..
9	Tauranga	1915	3,440	4,300	..	3,440	4,300	..	3,000	..	..	..	..
10	Timaru	1908	..	..	..	..	..	..	..	..	..	..	..
11	Wellington	1888	..	..	..	..	..	..	..	..	..	..	..
12	Whangarei	1915	..	..	..	..	..	..	..	..	..	..	..
1	Bluff	1903	..	..	..	..	..	..	..	..	..	..	..
2	Englewood	1905	..	..	..	..	..	..	..	..	..	..	..
3	Lyttelton	1917	..	..	..	..	..	..	..	..	..	..	..
4	Lyttelton	1917	..	..	..	..	..	..	..	..	..	..	..
5	Lyttelton	1917	..	..	..	..	..	..	..	..	..	..	..
6	Rangiora	1914	..	..	..	..	..	..	..	..	..	..	..
7	Rangiora	1917	..	..	..	..	..	..	..	..	..	..	..
8	Rangiora	1917	..	..	..	..	..	..	..	..	..	..	..
9	Rangiora	1919	..	..	..	..	..	..	..	..	..	..	..
10	Stratford	1916	..	..	..	..	..	..	..	..	..	..	..
11	Tairāhema	1898	..	..	..	..	..	..	..	..	..	..	..
12	Tairāhema	1913	..	..	..	..	..	..	..	..	..	..	..
13	Tairāhema	1924	..	..	..	..	..	..	..	..	..	..	..
14	Tairāhema	1924	..	..	..	..	..	..	..	..	..	..	..
15	Tairāhema	1924	..	..	..	..	..	..	..	..	..	..	..
16	Tairāhema	1924	..	..	..	..	..	..	..	..	..	..	..

(For notes see page 6)

TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGES, ROUTE-MILES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1966—continued

No.	Supply Authorities	Source of Supply ¹	Year When Supply Commenced	Capacity of Generating Plant						Static Head, in Feet	Voltage			Distribution Substations	Route Miles of Lines
				Water	Steam	Oil	Total Capacity	Generation	Transmission		Distribution ²	Number	kVA		
1	COUNTY COUNCILS Heathcote Kaikoura Mackenzie	G B G	1914	KW	KVA	KW	KVA	KW	KVA	..	..	11,000	22	109
2			1927	..	..	..	..	..	..	..	..	11,000; 8,300	19	105
3			1957	..	..	..	..	..	..	..	..	33,000; 22,000	54	177
1	GOVERNMENT DEPARTMENTS Rotorua Electric Supply Southland Electric Power Supply ⁴	G	1901	..	..	..	..	..	..	..	93,000; 11,000	1,096	997	
2			1925	..	..	..	..	..	..	..	66,000; 93,000; 11,000	5,366	104,896	
GRAND TOTALS				2,089,440	2,410,121	421,420	496,865	11,548	13,404	2,522,116	2,910,470	62,318	4,571,690	73,775	

Notes—¹G = Government supply; B = Bulk supply from another supply authority; I & G = Independent supply (own generating plant). ²Low tension is 400/230 volts, 50 cycle a.c. ³Excludes Southland Electric Power Supply (Monowai) distribution substations and route-miles of lines. ⁴Capacity of generating plant of Southland Electric Power Supply (Monowai) is shown in New Zealand Electricity Department section above. ⁵Gas plant.

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1966

No.	Supply Authorities	Maximum Load	Annual Load Factor	Units						Generated and Purchased	Sold		Percentage Non-Productive ¹	Per Head of Population ²	Units Sold (Average)		Average Maximum Demand per Retail Consumer	
				Water	Steam	Oil	kWh	Purchased	In Bulk for Resale		Domestic	Non-domestic			Per Consumer (Excluding Bulk Supply)	Per Cap of Outlay		
1	NEW ZEALAND ELECTRICITY DEPARTMENT	2,176,300	53.02	8,266,364	1,113	1,976,983	180	17,103,808	10,260,451	101	8,918,262	778	15,565,203	450,911	577	875,711	543	..
1	AMETHYST POWER BOARDS	509	53.80	2,309,120	..	..	..	271,241	2,780,361	..	397,542	1,470,093	391,984	391,984	6,334	580,742	17	1.731
2	ASHBURN	15,170	62.57	..	..	..	..	83,149,034	93,149,034	..	..	60,709,874	16,833,927	16,833,927	8,807	5,611,333	46	2.529
3	AUCKLAND	368,900	49.91	..	..	..	..	1,612,889,724	1,612,889,724	..	..	786,828,060	790,141,050	790,141,050	10,398	95,920,614	90	2.412
4	BAY OF ISLANDS	16,794	59.11	132,520	..	..	..	86,965,061	87,037,581	..	22,957,200	47,651,256	30,047,940	9,398,365	6,334	9,398,365	36	1.412
5	BAY OF PLENTY	33,743	64.29	..	..	..	..	190,025,374	190,025,374	..	..	51,663,124	105,443,368	105,443,368	18,058	9,961,662	110	3.878
6	BULLER	5,955	57.59	1,939,698	..	..	..	29,752,140	30,005,880	..	..	7,092,713	20,452,117	20,452,117	7,756	1,661,008	62	1.628
7	CAMBRIDGE	7,416	50.33	..	..	..	..	32,696,104	32,696,104	..	..	10,756,892	8,671,399	8,671,399	4,252,063	4,252,063	81	2.177
8	CENTRAL CANTERBURY	33,897	56.36	..	..	..	..	126,701,111	126,701,111	..	..	44,567,064	7,507,949	7,507,949	12,733,508	12,733,508	95	2.031
9	CENTRAL HAWKE'S BAY	40,475	47.71	..	..	..	..	48,730,839	48,730,839	..	49,665	24,580,416	7,507,949	7,507,949	6,435	6,435	45	2.016
10	CENTRAL WAIKATO	48,473	47.71	..	..	..	..	202,603,240	202,603,240	..	..	116,551,433	66,472,015	66,472,015	19,550,125	19,550,125	60	2.000
11	DANNEVIRKE	8,041	52.26	..	..	..	..	40,475,087	40,475,087	..	..	27,589,696	8,895,167	8,895,167	9,991,234	9,991,234	48	1.883
12	EGMONT	20,278	56.11	2,973,140	..	9,217	..	96,693,165	99,675,522	..	..	55,328,183	34,844,671	34,844,671	9,733	9,733	74	2.189
13	FRANKLIN	20,366	56.43	..	..	..	..	100,665,932	100,665,932	..	295,226	56,332,473	35,227,531	35,227,531	8,526	8,526	52	1.896
14	GOLDEN BAY	6,136	55.92	921,544	..	..	..	39,669,143	40,590,687	..	..	6,454,369	32,945,878	32,945,878	1,190,440	1,190,440	111	4.206
15	GREY	10,738	55.71	..	..	..	..	52,401,924	52,401,924	..	..	21,980,067	26,007,501	26,007,501	6,995	6,995	50	1.565
16	HAWKE'S BAY	65,999	49.44	..	..	..	..	289,246,862	289,246,862	..	42,187,900	153,293,968	65,886,228	65,886,228	8,174	21,878,766	77	2.439
17	HOROWHENUA	28,536	53.00	..	..	..	..	132,481,039	132,481,039	..	..	84,022,181	36,774,373	36,774,373	6,512	11,694,485	61	1.538
18	HUTT VALLEY	144,550	43.81	..	..	..	..	554,732,155	554,732,155	..	..	346,952,697	184,236,803	184,236,803	10,671	23,642,655	102	2.904
19	KING COUNTRY	10,977	48.81	30,986,300	..	..	..	15,948,961	46,934,861	..	15,210,900	16,479,690	10,638,370	4,605,901	4,605,901	25	2.632	
20	MANAWATU-ORONGA	52,759	53.80	..	..	..	..	249,005,360	249,005,360	..	122,391,460	66,521,439	54,286,972	5,805,689	5,805,689	116	4.617	
21	MARLBOROUGH	15,528	51.24	..	..	..	..	60,683,707	75,691,808	..	..	46,351,375	21,143,117	21,143,117	7,309	18,787,896	43	1.702
22	NORTH CANTERBURY	42,768	66.22	..	..	..	..	244,723,060	244,723,060	..	47,539,400	71,283,255	110,877,820	19,094,469	19,094,469	12,308	2.300	
23	NORTH CANTERBURY	17,464	57.60	..	..	..	..	93,153,664	93,153,664	..	26,402,680	41,154,038	16,272,868	16,272,868	7,453	7,453	71	2.300
24	OTAGO CENTRAL	14,446	50.37	47,235,989	..	..	..	84,412,151	84,412,151	..	2,027,520	36,480,370	18,672,017	18,672,017	6,601	11,551,988	31	1.543
25	POVERTY BAY	27,486	46.32	..	..	24,980	..	111,995,767	112,020,747	..	..	75,452,938	27,931,489	27,931,489	8,014	8,014	40	2.099
26	SOUTH CANTERBURY	32,059	53.11	..	..	..	..	149,327,638	149,327,638	..	67,684,160	58,472,163	15,911,504	15,911,504	6,518	9,636,320	44	1.735
27	TARANAKI	19,201	62.94	19,309,636	..	..	..	86,350,114	105,859,650	..	24,664,322	39,871,218	30,055,075	11,269,035	11,269,035	76	2.830	
28	TARANAKI	5,983	55.98	..	..	..	..	29,339,708	29,339,708	..	..	19,055,131	6,971,372	6,971,372	9,723	9,723	61	2.670
29	TAURANGA	27,401	52.08	..	..	..	..	125,001,089	125,001,089	..	..	83,689,610	31,419,366	31,419,366	6,955	9,896,113	39	1.599
30	TE AWAMUTU	11,775	58.46	..	..	..	..	60,297,010	60,297,010	..	..	35,350,085	20,795,894	20,795,894	8,953	4,151,091	58	1.878
31	THAMES VALLEY	75,702	61.09	..	..	..	..	409,052,067	409,052,067	..	26,974,759	18,808,442	286,521,399	22,751,127	22,751,127	11,525	2,454	
32	WAIKATO	35,203	51.19	1,715,285	..	..	..	150,124,110	157,839,393	..	52,656,560	71,698,937	25,521,381	25,521,381	9,443	7,862,987	109	3.007
33	WAIKATO	23,727	59.96	..	..	..	..	118,773,250	121,529,326	..	..	79,142,730	50,250,323	50,250,323	7,662	12,006,675	9	3.002
34	WAIKATO	3,355	57.24	16,288,617	..	..	..	4,467,600	4,467,600	..	..	9,309,006	1,837,893	1,837,893	6,982	2,201,837	23	2.096
35	WAIKATO	6,940	59.40	..	..	..	..	29,402,942	29,402,942	..	14,164,359	8,731,930	5,137,290	5,137,290	6,078	1,369,363	83	2.778
36	WAIKATO	23,214	48.08	..	..	..	..	475,694,931	475,694,931	..	..	55,086,325	39,412,297	39,412,297	8,540	7,228,772	72	2.098
37	WAIKATO	112,996	54.88	..	..	175,520	..	101,737,894	101,737,894	..	..	324,234,867	108,435,480	108,435,480	6,097	6,097	68	1.599
38	WAIKATO	13,910	54.88	..	..	..	..	66,873,957	66,873,957	..	..	34,040,290	26,372,110	26,372,110	8,395	8,395	45	1.933
39	WANGANUI-RANGITIKEI	46,045	51.19	..	..	..	..	206,496,123	206,496,123	..	7,438,300	127,245,325	53,171,938	18,540,000	18,540,000	6,826	1,997	
40	WESTLAND	2,910	60.04	148,747,595	..	..	..	747,400	747,400	..	3,900,750	5,469,343	4,962,865	3,010,617	3,010,617	5,096	1,422	
41	WESTLAND	..	..	..	..	..	..	6,654,574,305	6,803,544,627	..	481,450,273	3,432,041,424	2,405,704,704	484,348,226	484,348,226	8,958	..	

(For notes see page 8.)

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1966—continued

No.	Supply Authorities	Maxim. Load	Annual Load Factor	Generated			Purchased	Units Sold		Units Sold (Average)		Average Maximum Demand per Retail consumer
				Water	Steam	Oil		In Bulk for Resale	Retail to Consumers	Non-productive	Per Cent of Population		Per Cent of Capital Outlay
1	Christchurch	197,464	43.99	117,698,800	760,858,135	510,036,162	202,176,631	48,620,142	9,299	2,578
2	Dunedin	102,700	49.27	..	..	..	325,877,032	259,763,228	150,339,339	9,776	2,447
3	Hamilton	18,994	46.25	..	..	..	76,905,840	44,375,832	34,968,020	6,460	1,835
4	Invercargill	10,290	48.57	..	..	..	52,587,360	22,719,106	33,522,443	6,801	(-716)
5	Napier	10,290	46.89	..	..	..	42,271,170	22,646,831	17,009,263	7,460	(-897)
6	Nelson	11,840	50.77	..	..	..	52,656,560	32,929,001	16,043,979	7,931	(-917)
7	New Plymouth	27,137	57.27	17,778,960	..	..	118,371,882	84,752,000	42,184,042	9,718	1,909
8	Palmerston North	30,242	46.25	..	131,834	..	84,838,718	29,145,718	29,145,718	7,766	2,060	
9	Tauranga	8,089	42.56	..	..	..	7,601,615	14,243,980	10,777,377	9,368	2,869
10	Timaru	14,882	52.09	..	..	..	67,684,160	40,925,248	20,647,313	7,784	1,875
11	Wellington	132,750	42.09	..	..	..	489,424,100	275,999,440	188,979,056	9,389	2,698
12	Whangarei	121,158	44.64	..	..	..	47,539,400	28,584,646	16,289,908	7,838	2,124
				137,849,702	215,104	..	2,204,085,444	1,441,379,570	760,384,057	156,370,397	8,881	..
1	Blenheim	1,740	44.32	..	..	..	6,755,156	3,022,618	3,044,859	687,679	1,628
2	Bluff	1,398	54.58	..	..	..	6,683,884	3,059,510	2,521,240	573,134	1,944
3	Greymouth	1,850	53.85	..	..	..	8,727,000	6,427,760	1,863,900	7,874	1,757
4	Lyttelton	1,880	58.92	..	..	..	9,703,480	5,509,059	3,045,430	6,927	1,522
5	Ohakune	1,200	50.34	..	..	..	5,291,810	2,702,029	1,591,804	5,284	(-480)
6	Rangiora	1,207	41.97	1,913,400	..	..	4,437,260	2,709,091	1,925,960	3,367	1,605
7	Rangiora	2,682	49.55	..	..	..	11,694,968	8,523,376	4,775,606	6,857,786	2,709
8	Rangiora	7,296	50.34	..	..	..	32,174,400	18,682,260	12,174,842	10,674	2,406
9	Stratford	5,732	43.70	..	..	..	7,960,438	4,022,974	1,874,306	6,502	1,872
10	Tairāne	1,883	43.70	..	..	..	7,586,300	4,759,234	2,134,756	7,200	1,993
11	Taurarunui	3,740	52.87	3,830,040	..	..	13,489,830	6,916,404	5,439,301	7,704	2,330
12	Taupo	6,784	44.17	8,881,230	..	..	17,734,043	8,306,872	2,309,315	6,504	1,558
13	Te Anau	2,097	48.27	..	..	..	8,666,385	2,551,411	638,426	6,540	1,758
14	Thames	4,000	51.55	..	..	..	18,064,200	10,153,053	7,080,927	8,318	1,930
15	Wairoa	3,210	50.37	..	..	..	14,164,359	8,057,710	3,565,640	6,967	1,797
16	Whakarewa	5,340	49.08	..	..	..	22,957,200	15,097,340	6,335,171	8,079	2,013
				14,624,670	318	..	203,974,082	131,436,479	69,310,893	13,821,538	7,669	..
1	Heathcote	5,606	48.50	..	..	..	23,856,400	11,565,100	9,905,660	12,660	3,305
2	Kaikoura	1,121	61.01	..	..	..	5,991,000	3,285,655	1,866,145	4,851	1,056
3	Mackenzie	730	60.78	..	..	..	1,530,558	2,701,126	2,085,964	10,338	3,706
	Sundry private plants	..	..	..	..	..	..	..	..	..	..
	Government Departments	25,576	46.79	..	..	..	104,838,329	62,425,170	32,955,080	9,458,079	6,609
	Southland Electric Power Supply	65,990	51.76	..	..	..	1,068,800	92,322,431	79,369,735	7,566	2,908
	GRAND TOTALS	1,587,586,080	1,989,601,466	438,149	10,577,625,695	5,191,551,580	3,812,693,815	1,573,380,290	9,311	19.60

Units generated per head of total population 9.311
 Units sold retail per consumer 9.311
 Maximum load for public supply: New Zealand, 2,261,100 kW. Annual load factor: New Zealand, 53.40 per cent.
 Notes.—Includes units used free of charge, losses on transmission and distribution, also losses on bulk supply to other electrical supply authorities. Population figures not available before February 1967.

TABLE VIII—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1966

Supply Authorities	Capital Outlay	Loan Liability	Revenue			Working Costs			Capital Charges			Net Results		Appropriation of Capital Works		
			Sales of Energy	Trading Account Profit	Other Sources	Cost of Power Generated	Transmission and Distribution	Management and General	Total	Interest	Sinking Fund and Principal Repayments	Depreciation	Renewals out of Revenue		Total Annual Costs	Surplus	Deficit
NEW ZEALAND ELECTRICITY DEPARTMENT	£(N.Z.) 336,813,733	£(N.Z.) 2,489,806	£(N.Z.) 2,685,529	£(N.Z.) 201,421,386	£(N.Z.) 20,124,911	£(N.Z.) 3,368,101	£(N.Z.) 1,511,368	£(N.Z.) 1,577,614	£(N.Z.) 1,611,368	£(N.Z.) 1,061,037	£(N.Z.) 1,905,952	£(N.Z.) 4,857,645	£(N.Z.) 17,623,358	£(N.Z.) 24,434,395	£(N.Z.) 6,952,261	£(N.Z.) ..
POWER BOARDS	129,826	131,203	527	2,754	2,438	844	1,745	848	6,076	5,437	6,573	..	12,648	22,086	60,370	927
Christchurch	1,667,548	468,670	4,640	37,588	3,477	..	234,994	39,072	304,072	21,849	53,776	..	12,243	256,468	172,573	..
Dunedin	16,894,264	4,723,776	..	7,453,205	5,438,074	..	5,438,074	766,589	6,204,663	60,359	680,359	136,122	1,036,469	7,528,791	14,652	..
Hamilton	2,135,992	1,034,219	..	1,248,415	1,061,061	..	806,972	86,700	893,672	46,780	85,918	..	144,630	768,971	..	..
Invercargill	1,642,293	1,042,023	..	1,141,420	1,120,521	..	539,972	73,087	613,059	25,450	48,481	..	88,863	768,541	..	..
Napier	459,011	185,320	..	2,438	2,438	..	84,922	19,999	104,921	8,971	10,722	..	24,576	145,624	..	..
Nelson	2,329,522	7,977	..	161,470	161,470	..	113,366	13,985	125,351	15,803	17,422	..	10,466	153,820	..	..
New Plymouth	1,881,522	1,037,900	..	3,244	3,244	..	118,141	89,176	127,317	48,864	82,256	..	150,791	808,095	..	..
Palmerston North	1,891,074	1,033,179	..	5,647	5,647	..	155,237	27,414	182,651	26,045	25,370	..	47,973	256,669	..	..
Tauranga	1,691,966	1,004,164	..	1,127,852	1,120,521	..	723,748	27,800	751,548	51,194	107,563	..	41,459	1,100,111	..	..
Timaru	755,867	7,977	..	4,734	4,734	..	130,199	25,189	155,388	308	3,407	..	26,214	208,543	..	..
Wellington	1,213,805	363,000	..	1,154	1,154	..	306,610	47,479	354,089	1,094	3,012	..	108,072	461,494	..	..
Whangarei	1,779,275	1,037,900	..	3,477	3,477	..	306,610	47,479	354,089	1,094	3,012	..	108,072	461,494	..	..
Whakarewa	967,212	16,623	..	2,672	2,672	..	172,477	35,507	207,984	4,889	5,424	..	19,554	289,413	..	..
Whakarewa	3,410,946	1,237,035	..	10,844	10,844	..	995,422	124,480	1,119,902	60,087	3,407	..	26,214	208,543	..	..
Whakarewa	1,970,477	724,382	..	3,244	3,244	..	431,914	74,537	506,451	28,071	58,333	..	17,405	608,846	..	..
Whakarewa	5,202,855	1,881,522	..	3,025,066	3,025,066	..	2,053,011	287,063	2,340,074	86,371	180,031	..	34,232	2,682,305	..	..
Whakarewa	1,093,179	183,341	..	2,294	2,294	..	45,814	22,524	68,338	46,034	50,443	..	5,033	119,730	..	..
Whakarewa	476,565	476,565	..	9,127	9,127	..	768,716	118,509	887,225	22,575	31,230	..	42,047	925,262	..	..
Whakarewa	1,578,738	430,494	..	4,503	4,503	..	439,345	77,591	516,936	20,077	48,383	..	42,349	603,175	..	..
Whakarewa	2,073,324	1,472,947	..	1,134,539	1,134,539	..	276,868	38,791	315,659	68,306	130,654	..	650	403,375	..	..
Whakarewa	1,438,804	467,500	..	1,814	1,814	..	549,354	29,147	578,501	23,225	93,852	..	15,376	693,214	..	..
Whakarewa	2,357,359	1,300,541	..	32,855	32,855	..	421,176	144,498	565,674	18,982	22,605	..	26,211	624,406	..	..
Whakarewa	1,076,253	623,050	..	10,007	10,007	..	85,641	12,828	98,469	60,970	85,177	..	6,402	153,689	..	..
Whakarewa	1,559,206	162,275	..	443,799	443,799	..	252,609	37,504	290,113	30,241	61,238	..	41,167	332,646	..	..
Whakarewa	1,923,558	889,809	..	3,689	3,689	..	89,158	24,581	113,739	10,834	26,649	..	25,463	139,808	..	..
Whakarewa	976,329	246,504	..	5,559	5,559	..	400,336	122,823	523,159	40,735	98,237	..	2,056	624,406	..	..
Whakarewa	3,300,988	1,151,448	..	333,322	333,322	..	1,183,144	32,571	1,215,715	12,110	29,201	..	26,025	1,242,736	..	..
Whakarewa	1,870,431	371,310	..	1,770,824	1,770,824	..	483,936	59,868	543,804	25,502	42,706	..	1,180	657,515	..	..
Whakarewa	632,463	352,971	..	661,568	661,568	..	371,425	68,376	440,801	32,797	19,511	..	68,561	509,316	..	..
Whakarewa	336,896	129,676	..	1,208	1,208	..	85,894	12,821	98,715	4,485	7,060	..	9,139	143,435	..	..
Whakarewa	1,317,360	641,701	..	5,083	5,083	..	1,339,254	31,359	1,370,613	28,156	55,524	..				

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1966—continued

No.	Supply Authorities	Capital Outlay			Revenue from Sale of Electricity				Working Costs			Capital Charges			Total Costs		
		Per Head of Population	Per Consumer	Per Unit Sold	Per Unit Sold (Including Bulk Sales)	Per Unit Sold (Retail Sales)	Per Unit Sold (Domestic Supply)	Per Unit Sold (Non-domestic Supply)	Per Head of Population	Per Retail Consumer	Per Maximum Demand	Per Unit Sold	Per Maximum Demand	Per Cent of Capital Outlay	Per Unit Sold	Per Maximum Demand	Per Cent of Capital Outlay
6	Nelson	£(N.Z.) 79.79	£(N.Z.) 1.442	d. 1.442	£(N.Z.) 1.442	d. 1.442	£(N.Z.) 2.371	£(N.Z.) 45.27	£(N.Z.) 27.81	£(N.Z.) 0.083	£(N.Z.) 2.142	£(N.Z.) 0.144	£(N.Z.) 2.100	£(N.Z.) 3.42	£(N.Z.) 20.95	£(N.Z.) 1.216	50.34
7	New Plymouth	86.75	1.385	1.385	1.385	1.385	2.355	49.06	25.23	0.093	2.142	0.144	2.100	4.75	20.85	1.086	67.21
8	Palmerston North	161.66	1.397	1.397	1.397	1.397	2.032	45.82	26.33	0.063	2.142	0.144	2.100	2.76	17.18	0.994	47.68
9	Tairānua	75.57	1.564	1.564	1.564	1.564	2.175	41.68	15.56	0.612	2.142	0.144	2.100	2.92	10.32	0.738	17.14
10	Timaru	111.10	1.408	1.408	1.408	1.408	2.109	55.09	20.41	0.255	2.142	0.144	2.100	6.26	22.03	1.274	54.67
11	Wellington	63.36	1.579	1.579	1.579	1.579	2.565	51.58	24.29	0.157	2.142	0.144	2.100	4.10	19.89	1.371	48.30
12	Whangarei	118.18	1.392	1.392	1.392	1.392	2.109	51.54	20.56	0.157	2.142	0.144	2.100	8.10	22.98	1.493	77.01
1	Bluff	84.28	1.914	1.914	1.914	1.914	2.199	45.27	27.81	0.144	2.142	0.144	2.100	6.26	23.76	1.301	40.78
2	Inglwood	56.02	1.385	1.385	1.385	1.385	2.199	49.06	25.23	0.093	2.142	0.144	2.100	4.05	23.59	1.585	45.88
3	Kaipoi	67.34	1.397	1.397	1.397	1.397	2.032	45.82	26.33	0.063	2.142	0.144	2.100	4.01	22.54	1.201	68.84
4	Lyttelton	74.47	1.558	1.558	1.558	1.558	2.452	44.24	29.30	0.350	2.142	0.144	2.100	4.91	22.44	1.373	58.54
5	Ohakune	107.13	2.006	2.006	2.006	2.006	2.522	44.24	29.30	0.350	2.142	0.144	2.100	6.60	26.03	1.910	53.20
6	Raetihi	174.35	1.681	1.681	1.681	1.681	2.293	37.58	23.42	0.422	2.142	0.144	2.100	5.41	23.42	1.615	28.48
7	Rangora	66.55	1.525	1.525	1.525	1.525	2.720	44.24	29.30	0.154	2.142	0.144	2.100	5.10	25.54	1.500	50.34
8	Riccarton	70.55	1.290	1.290	1.290	1.290	1.626	59.40	22.84	0.064	2.142	0.144	2.100	4.19	21.29	1.202	78.47
9	Stratford	95.44	1.314	1.314	1.314	1.314	1.891	46.56	24.88	0.105	2.142	0.144	2.100	3.89	21.55	1.139	42.27
10	Tahape	35.96	1.624	1.624	1.624	1.624	2.811	49.33	24.75	0.131	2.142	0.144	2.100	7.12	22.40	1.469	79.74
11	Taumarunui	107.59	1.466	1.466	1.466	1.466	2.610	56.89	26.45	0.095	2.142	0.144	2.100	3.71	22.17	1.229	48.03
12	Taupo	184.64	1.454	1.454	1.454	1.454	2.033	40.89	23.26	0.405	2.142	0.144	2.100	6.16	20.30	1.334	20.30
13	Te Arua	56.29	1.370	1.370	1.370	1.370	1.626	49.06	25.23	0.073	2.142	0.144	2.100	3.50	22.58	1.381	66.50
14	Thames	45.04	1.439	1.439	1.439	1.439	1.788	49.06	25.23	0.063	2.142	0.144	2.100	4.06	19.97	1.113	29.97
15	Wairua	49.93	1.487	1.487	1.487	1.487	1.969	43.16	24.01	0.076	2.142	0.144	2.100	4.43	20.93	1.296	75.36
16	Whakatane	111.40	1.563	1.563	1.563	1.563	2.404	52.63	26.15	0.112	2.142	0.144	2.100	3.39	21.97	1.314	39.69
1	Heathcote	96.31	1.467	1.467	1.467	1.467	2.138	47.47	26.15	0.146	2.142	0.144	2.100	4.94	21.97	1.307	44.18
2	Kaikoura	78.72	1.169	1.169	1.169	1.169	1.257	61.66	18.65	0.080	2.142	0.144	2.100	5.74	19.25	1.206	86.32
3	Mackenzie	165.70	1.761	1.761	1.761	1.761	1.810	35.61	33.73	0.542	2.142	0.144	2.100	6.62	42.44	2.216	27.04
	Sundry private plants	154.62	1.345	1.345	1.345	1.345	1.409	57.36	37.13	0.254	2.142	0.144	2.100	7.00	40.12	1.944	18.78
	Government Departments	115.00	1.604	1.604	1.604	1.604	2.384	44.69	24.92	0.290	2.142	0.144	2.100	7.03	24.95	1.605	38.91
	Rotorua E.S. (Tourist Department)	..	1.425	1.425	1.425	1.425	1.759	54.24	24.56	..	2.142	0.144	2.100	..	..	..	..
	Southland E.P.S. (New Zealand Electricity Dept.)	..	1.471	1.471	1.471	1.471	1.970	50.56	..	..	2.142	0.144	2.100	..	..	..	..
	Averages for all supply authorities ¹	475.03	1.315	1.315	1.315	1.315	1.601	51.01	..	..	2.142	0.144	2.100	5.48	..	..	15.54*
	GRAND TOTALS	158.23	1.418	1.418	1.418	1.418	1.695	47.86	16.23	0.082	2.142	0.144	2.100	5.58	..	..	15.68
	"	148.24	1.418	1.418	1.418	1.418	1.695	47.86	16.23	0.082	2.142	0.144	2.100	5.58	..	..	15.68
	"	397.62	1.116	1.116	1.116	1.116	1.672	42.30	..	..	2.142	0.144	2.100	5.64	..	..	35.33
	"	126.00	1.340	1.340	1.340	1.340	1.592	40.07	..	..	2.142	0.144	2.100	5.54	..	..	34.31
	"	118.15	1.340	1.340	1.340	1.340	1.704	38.13	..	..	2.142	0.144	2.100	5.54	..	..	35.37
	"	346.80	1.367	1.367	1.367	1.367	1.742	37.40	..	..	2.142	0.144	2.100	5.55	..	..	33.95
	"	108.83	1.114	1.114	1.114	1.114	1.964	35.14	..	..	2.142	0.144	2.100	5.53	..	..	33.61
	"	305.27	1.124	1.124	1.124	1.124	0.976	28.75	..	..	2.142	0.144	2.100	5.53	..	..	37.48
	"	92.18	1.124	1.124	1.124	1.124	0.976	28.75	..	..	2.142	0.144	2.100	5.53	..	..	37.48
	"	258.65	1.121	1.121	1.121	1.121	0.976	26.69	..	..	2.142	0.144	2.100	4.61	..	..	26.63

Notes—¹Excludes sundry private plants (table VII) who do not furnish returns. *Retail sales. ²Prior to 1965 figures were calculated on distribution capital only.

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES AND WATER-HEATERS, FOR THE YEAR ENDED 31 MARCH 1966

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Domestic Ranges			Water-heaters			Consumers Per Route-mile of Line
				Domestic	Commercial	Total	Number	Per Cent	Ratio of Domestic Ranges to Number of Domestic Consumers	Domestic	Total	Ratio of Domestic Water-heaters to Number of Domestic Consumers	
1	NEW ZEALAND ELECTRICITY DEPARTMENT	Number	Per Cent	Number	Number	Number	Number	Per Cent	Number	Number	Per Cent	Number	Number
2	North Island ¹	..	..	1,030	14	1,044	1,095	..	1,119	1,414	..	..	..
	South Island ¹	..	..	320	2	322	327	..	371	414	..	..	..
	Totals	..	..	1,350	16	1,366	1,422	..	1,490	1,561	..	..	..
1	POWER BOARDS	..	..	..	..	..	..	..	..	..	..	..	..
2	Amethyst	..	..	267	27	294	99	37.08	119	189	44.57	3.67	..
3	Ashburton	..	..	7,778	1,026	8,804	6,326	81.33	8,693	9,591	111.76	5.72	..
4	Auckland	..	..	122,776	23,109	145,885	97,014	79.02	107,042	107,042	87.18	56.70	..
5	Bay of Islands	..	..	10,183	1,708	11,891	7,416	72.83	6,678	8,718	65.58	4.89	..
6	Bay of Plenty	..	..	7,435	1,265	8,700	5,865	78.88	5,831	6,976	78.43	11.50	..
7	Buller	..	..	2,997	668	3,665	817	27.26	719	935	23.99	9.96	..
8	Cambridge	..	..	2,961	445	3,406	2,468	83.35	2,890	3,305	97.60	6.88	..
9	Central Canterbury	..	..	11,310	683	11,993	9,137	80.79	8,984	9,937	79.43	7.38	..
10	Central Hawke's Bay	..	..	4,495	689	5,184	4,251	94.57	4,047	4,108	90.03	4.36	..
11	Central Waikato	..	..	20,951	2,353	23,304	16,071	76.71	16,188	18,985	77.27	9.60	..
12	Dannevirke	..	..	4,025	671	4,696	3,176	78.91	3,078	3,555	76.47	8.01	..
13	Egmont	..	..	7,896	1,369	9,265	6,481	82.08	6,394	8,441	80.98	11.16	..
14	Franklin	..	..	9,618	1,121	10,739	8,223	85.49	7,708	9,443	80.14	10.00	..
15	Golden Bay	..	..	1,296	163	1,459	837	64.58	961	994	74.15	4.48	..
16	Grey	..	..	5,739	1,121	6,860	3,874	67.50	2,828	230	49.28	13.53	..
17	Hawke's Bay	..	..	23,162	3,651	26,813	20,239	87.38	19,618	20,541	84.70	12.67	..
18	Horowhenua	..	..	16,050	2,499	18,549	12,513	77.96	12,690	13,944	79.06	14.01	..
19	Hutt Valley	..	..	45,424	4,345	49,769	39,461	86.87	41,416	42,485	91.18	32.74	..
20	King Country	..	..	3,836	334	4,170	2,023	52.74	1,929	2,098	50.29	3.68	..
21	Manawatu-Oroua	..	..	10,418	1,010	11,428	8,750	83.99	8,547	9,848	82.04	12.02	..
22	Marlborough	..	..	7,656	1,467	9,123	5,029	65.69</					

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES AND WATER-HEATERS, FOR THE YEAR ENDED 31 MARCH 1966—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Domestic Ranges		Water-heaters			Consumers Per Route-mile of Line	No.
				Domestic	Commercial	Total	Number	Per Cent	Number	Per Cent	Ratio, Number of Water-heaters to Number of Domestic Consumers		
36	POWER BOARDS—continued												
37	Wairoa	Number	Per Cent	Number	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Number	36
38	Waitaki	2,140	142	2,282	1,318	61.59	1,255	58.64	1,323	58.64	4.58	37	
39	Waitemata	9,265	1,781	11,066	6,847	73.74	6,569	70.75	7,113	70.75	11.14	38	
40	Waitemata	63,745	7,222	70,967	50,332	78.96	53,086	83.28	53,086	83.28	17.74	39	
41	Wanganui-Rangitikei	6,132	1,064	7,196	4,092	66.73	3,911	63.78	4,780	63.78	6.71	40	
	Westland	19,933	3,122	23,055	14,623	73.96	14,899	74.74	16,127	74.74	11.69	41	
		1,602	445	2,047	818	51.06	739	46.13	894	46.13	9.57		
		568,178	83,509	651,687	444,391	78.21	452,555	79.65	489,221	79.65	11.85		
1	CITY COUNCILS												
2	Christchurch	Number	Per Cent	Number	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Number	1
3	Dunedin	67,742	8,849	76,591	57,514	84.90	60,823	89.79	63,848	89.79	36.93	2	
4	Hamilton	36,873	5,129	42,002	22,338	60.58	28,139	76.31	29,145	76.31	42.56	3	
5	Invercargill	2,784	2,784	10,344	4,212	53.71	5,323	70.41	5,771	70.41	39.03	4	
6	Napier	10,874	1,807	12,681	4,991	45.90	4,994	45.90	5,386	45.90	64.05	5	
7	Nelson	4,343	1,080	5,423	2,632	60.60	3,005	69.19	3,083	69.19	53.34	6	
8	New Plymouth	4,987	1,188	6,175	2,457	49.27	4,296	86.14	4,798	86.14	67.12	7	
9	Palmerston North	12,462	1,754	14,216	9,148	73.41	11,100	89.07	12,197	89.07	27.74	8	
10	Tauranga	12,635	2,042	14,677	9,135	73.30	10,895	86.23	11,235	86.23	40.43	9	
11	Timaru	2,022	968	2,990	1,825	90.26	1,918	94.86	2,120	94.86	30.98	10	
12	Wellington	6,540	1,370	7,910	4,562	69.75	4,978	76.12	5,239	76.12	61.80	11	
	Whangarei	40,165	9,031	49,196	16,003	39.84	28,721	71.51	28,721	71.51	62.51	12	
		4,486	1,239	5,725	4,132	92.55	4,017	89.54	4,136	89.54	46.17		
		210,689	37,241	247,930	138,969	65.96	168,209	79.84	175,679	79.84	43.31		
1	BOROUGH COUNCILS												
2	Bluff	878	191	1,069	379	43.17	239	27.22	286	27.22	59.39	1	
3	Ingetwood	607	112	719	493	81.22	525	86.49	540	86.49	28.76	2	
4	Kaipoi	939	114	1,053	764	81.36	785	83.60	809	83.60	58.50	3	
5	Lytelton	1,038	197	1,235	636	61.27	784	75.53	817	75.53	58.81	4	
6	Ohakune	715	96	811	263	36.78	331	46.29	359	46.29	6.34	5	
7	Raetihi	580	172	752	245	42.24	305	52.59	310	52.59	5.87	6	
8	Rangiora	1,336	242	1,578	1,056	79.04	1,233	92.29	1,268	92.29	71.73	7	
9	Riccarton	2,521	284	2,805	2,012	79.81	2,207	87.54	2,256	87.54	43.15	8	
10	Stratford	1,623	371	1,994	1,297	65.04	1,316	81.08	1,381	81.08	52.47	9	
	Tahape	725	220	945	474	65.38	474	65.38	490	65.38	45.00	10	

(For notes see page 15.)

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES AND WATER-HEATERS, FOR THE YEAR ENDED 31 MARCH 1966—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Domestic Ranges		Water-heaters			Consumers Per Route-mile of Line	No.
				Domestic	Commercial	Total	Number	Per Cent	Number	Per Cent	Ratio, Number of Water-heaters to Number of Domestic Consumers		
11	BOROUGH COUNCILS—contd.												
12	Taumarunui	Number	Per Cent	Number	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Number	11
13	Taupo	1,339	266	1,605	746	55.71	717	53.55	792	53.55	39.15	12	
14	Te Aroha	3,417	442	3,859	2,426	71.00	2,399	70.21	2,524	70.21	12.95	13	
15	Wairoa	1,005	260	1,265	740	78.71	791	82.6	826	82.6	25.81	14	
16	Whakatane	1,691	381	2,072	1,450	85.75	1,403	82.97	1,414	82.97	42.29	15	
		1,389	397	1,786	1,246	89.70	1,180	84.95	1,245	84.95	42.52	16	
		2,143	510	2,653	2,039	95.15	2,039	95.15	2,104	95.15	39.30		
		21,946	4,255	26,201	16,266	74.12	16,728	76.22	17,421	76.22	25.44		
1	COUNTY COUNCILS												
2	Heathcote	Number	Per Cent	Number	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Number	1
3	Kaikoura	1,640	56	1,696	1,640	100.00	1,344	81.95	1,367	81.95	15.56	2	
	Mackenzie	875	187	1,062	449	51.31	439	50.17	505	50.17	10.31	3	
		162	35	197	138	85.18	178	109.88	194	109.88	1.11		
		2,677	278	2,955	2,227	83.19	1,961	73.25	2,066	73.25	7.60		
1	GOVERNMENT DEPARTMENTS												
2	Rotorua Electric Supply	Number	Per Cent	Number	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Number	1
	Southland Electric Power Supply	12,395	1,865	14,260	9,412	75.93	9,099	73.41	10,004	73.41	14.30	2	
		19,729	2,963	22,692	11,524	58.41	10,721	54.34	11,424	54.34	5.49		
	GRAND TOTALS..	32,124	4,828	36,952	20,936	65.17	19,820	61.70	21,428	61.70	7.21		
		836,964	130,127	967,091	624,211	74.58	660,763	78.95	707,376	78.95	13.11		

Total population of Dominion as at 1 April 1966 was *

Ratio of population in area of supply to total population of Dominion =

Notes—Retail consumers supplied direct.

*Population figures will not be available before February 1967.

*per cent.

TABLE XI—STATISTICS RELATING TO ELECTRICIANS REGISTRATION BOARD, YEAR ENDED 31 MARCH 1966
(The figures in parentheses are for the previous year)

	During Year		Total		Current	
1. Number of board meetings: 11 (11)						
2. Registrations—						
Inspectors	48	(42)	1,009	(961)	604	(617)
Electricians	483	(395)	10,292	(9,809)	10,025	(9,594)
Electrical servicemen	11	(12)	488	(477)	435	(424)
Electrical (radio) servicemen	167	(130)	1,960	(1,793)	1,920	(1,754)
Limited registration ¹	193	(146)	3,047	(2,854)	2,674	
3. Provisional licences ²	553	(500)	4,721	(4,168)		
4. Permits to assist	209	(83)	1,730	(1,521)		
5. Applications for ruling on experience	202	(170)				
	Candidates		Passed, Percentage		Highest Marks	
6. Examinations—						
Electricians written, theory paper	747	(659)	65	(61)	96	(97)
Electricians written, regulations paper	702	(526)	74	(72)	100	(99)
Electricians practical (two examinations)	914	(724)	63	(61)	96	(93)
Electrical servicemen and limited registration, written	605	(467)	73	(80)	95	(91)
Electrical servicemen and limited registration, practical (two examinations)	489	(409)	76	(81)	91	(94)
7. Defective work reports, 1 (7); Endorsements made, nil (1); Endorsements removed, nil (1).						
8. Breach of Act reports, 7 (18); Prosecutions authorised, 1 (11).						
9. Appeals, nil (2).						

Notes—¹ Includes refrigeration servicemen, 37; assembly and repair of portable domestic appliances, 26; servicing calculating machines and like office appliances, 25; replacement of fuse links, connection and replacement flexible cords, earthing of appliances, 2; supply authority work, 28; radio experimenter, 2; New Zealand Broadcasting Corporation, 18; Department of Civil Aviation, extended limits, 7; radio servicemen's limits restricted to Department of Civil Aviation, 4; Post Office radio technician, 21; Post Office telephone exchange technician, extended limits, 2; automatic telephone and impulse signalling equipment, 3; servicing of electrical instruments and process control equipment, 3; luminous discharge tubes, 2; radio interference suppression, 8; cable jointing, 1; assembly and repair of heating and cooking appliances (H. E. Shacklock Ltd., Dunedin), 1; maintenance work on premises of Necco Ltd., 1; assembly and repair of electric welding equipment, 1.
² 134 (149) were issued to apprentices.