

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 <sup>1</sup> .. .. .	193 (146)	3,047 (2,854)	2,674
3. Provisional licences <sup>2</sup> .. .. .	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—<sup>1</sup> Includes refrigeration servicemen, 37; assembly and repair of portable domestic appliances, 26; servicing calculating machines and like office appliances, 26; 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 Neece Ltd, 1; assembly and repair of electric welding equipment, 1. <sup>2</sup> 134 (149) were issued to apprentices.

ANNUAL STATISTICS IN RELATION TO  
**ELECTRIC POWER DEVELOPMENT AND OPERATION**  
YEAR ENDED 31 MARCH 1967

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.	4	6	51	1
2	Installed capacity .. .. .	kW	2,217,210	421,420	2,649,826	2
3	Generation .. .. .	kWh	9,345,221,189	1,970,725,420	11,316,454,532	3
4	Maximum load .. .. .	kW			2,447,900	4
5	Retail sales .. .. .	kWh			9,601,851,433	5
6	Consumers .. .. .	No.			992,418	6
7	Population .. .. .	No.			2,727,148	7
8	Capital outlay, generation, transmission, and distribution .. .. .	£			515,346,707	8
9	Revenue retail sales of electricity .. .. .	£		53,570,348		9
10	Revenue from other sources .. .. .	£		1,142,183		10
11	Total revenue .. .. .	£			54,712,531	11
12	Working costs .. .. .	£		16,601,633		12
13	Capital charges .. .. .	£		27,538,559		13
14	Total costs .. .. .	£			44,140,192	14
15	Net profit .. .. .	£			10,572,339	15
16	Working costs per kWh sold retail .. .. .	d.		0.4150		16
17	Capital charges per kWh sold retail .. .. .	d.		0.6883		17
18	Total costs per kWh sold retail .. .. .	d.			1.1033	18
19	Total revenue per kWh sold retail .. .. .	d.			1.3675	19
20	Revenue retail sales of electricity per kWh sold retail .. .. .	d.			1.3390	20
21	Generation per head of total population .. .. .	kWh			4,150	21
22	Retail sales per consumer .. .. .	kWh			9,675	22
23	Capital outlay per kW installed capacity .. .. .	£			194.48	23
24	Ratio of capital charges to capital outlay .. .. .	%			5.344	24
25	Electrical fires reported during year .. .. .	No.			86	25
26	Fatal electrical accidents during year .. .. .	No.			16	26
27	Electric ranges (domestic) .. .. .	No.			654,192	27
28	Electric water heaters (domestic) .. .. .	No.			693,236	28

Notes—\*Includes one gas plant of 6,000 kW capacity.

TABLE I—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY  
Summarised Gross Revenue, Net Revenue, and Appropriation Accounts for Year Ended 31 March 1967

Working costs .. .. .	£ 7,047,846	Revenue—	£
Capital charges—		Sales of energy .. .. .	32,911,310
Interest .. .. .	12,034,751	Rent and miscellaneous receipts .. .. .	192,182
Depreciation including interest on Depreciation reserve .. .. .	5,193,033		
Loan capital repayments .. .. .	2,430,184		
	19,657,968		
Total costs (see table IV) .. .. .	26,705,814		
Transfer to Reserve Fund .. .. .	6,397,678		
	33,103,492		33,103,492

TABLE II—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY  
Summarised Balance Sheet as at 31 March 1967

Loan liability .. .. .	£ 285,821,112	Completed works .. .. .	£ 290,236,270
Reserves—		Works under construction .. .. .	84,486,015
Depreciation .. .. .	45,489,779	Plant, motor vehicles and tools .. .. .	1,363,745
Loan capital repayments .. .. .	20,815,435	Stocks of materials .. .. .	4,567,268
Reserve Fund .. .. .	32,308,209		
	98,613,423	Capital outlay (see table V) .. .. .	380,653,298
		Sundry debtors etc. .. .. .	7,152,310
		Less sundry creditors, etc. .. .. .	3,371,073
			3,781,237
	384,434,535		384,434,535

TABLE III—OPERATING RESULTS: NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

	1966-67		1966-67
<b>Maximum load (kilowatts)—</b>		<b>Revenue—</b>	
New Zealand 1966-67*	2,415,400	Per kW of maximum load	£13.6256
<b>Average load (kilowatts)—</b>		Per unit output	0.718d.
New Zealand	1,254,904	Per unit sold	0.788d.
<b>Average load factor—</b>		<b>Working costs—(including administra-</b>	
New Zealand	Percent 51.95	<b>tion)—</b>	
<b>Unit output (generated and purchased)—</b>		Per kW of maximum load	£2.9179
New Zealand	10,992,961,140	Per unit output	0.154d.
<b>Units sold—</b>		Per unit sold	0.169d.
New Zealand	10,029,178,193	<b>Capital charges—</b>	
<b>Units unsold (used free of charge)—</b>		Per kW of maximum load	£8.1386
New Zealand	76,864,356	Per unit output	0.429d.
<b>Line losses—</b>		Per unit sold	0.469d.
Transmission and distribution—	Units	<b>Total costs—</b>	
New Zealand	886,918,591	Percent 8.07	Per kW of maximum load
			Per unit output
			Per unit sold
			£11.0565
			0.583d.
			0.637d.

\*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 1967

	Working Costs	Administration Costs	Capital Charges	Total Costs	Total Cost per kWh		
					Output (e)	Sold (f)	
	(a)	(b)	(c)	(d)	d.	d.	
Hydro-electric stations	1,170,397	566,517	10,957,116	12,694,030	0.3377	d.	
Thermal stations	2,336,422	408,569	3,646,743	6,391,734	0.7840	..	
Power purchased	33,857	677	..	34,534	0.5932	..	
Generated and purchased	3,540,676	975,763	14,603,859	19,120,298	0.4174	0.4562	
Transmission	478,108	231,722	2,537,137	3,246,967	0.0709	0.0775	
Substations	717,864	347,974	2,237,954	3,303,792	0.0721	0.0788	
Communications	106,940	51,863	82,722	241,525	0.0053	0.0058	
Retail distribution	164,469	165,150	196,296	525,915	0.0115	0.0125	
System operation	180,108	87,209	..	267,317	0.0058	0.0064	
Totals	5,188,165	1,859,681	19,657,968	26,705,814	0.5830	0.6371	
Administration (see column (b))	1,859,681	<b>SUMMARY</b>					
	7,047,846	Working costs	..	5,188,165	0.1132	0.1238	
		Administration costs	..	1,859,681	0.0406	0.0444	
		Capital charges	..	19,657,968	0.4292	0.4690	
		Total costs	..	26,705,814	0.5830	0.6371	

TABLE V—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY  
Analysis of Capital Outlay as at 31 March 1967

	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	966,999	4,145,108	
Arapuni	1,526,108	562,418	1,169,861	3,258,387	
Waipapa	5,008,771	1,378,857	1,423,837	7,811,465	
Maratai	6,096,011	1,693,351	1,775,640	9,565,002	
Whakamaru	7,075,544	1,494,439	2,440,276	11,010,259	
Atiamuri	6,825,706	1,485,267	2,088,049	10,399,022	
Ohakuri	6,979,723	1,575,811	1,986,268	10,541,802	
Aratatia	5,250,118	1,453,725	1,381,544	8,085,387	
Matahina	11,988,996	1,649,621	1,094,041	14,732,658	
Lake Taupo Control	205,165	..	..	205,165	
Kaitawa	1,208,910	188,385	314,406	1,711,701	
Tuaiti	275,344	339,333	481,028	1,095,705	
Piripaua	756,567	108,198	212,709	1,077,474	
Lake Waikaremoana Control	463,377	..	..	463,377	
Mangahao	979,637	197,489	354,764	1,531,890	
Cobb	4,134,025	427,763	399,278	4,961,066	
Arnold	109,996	11,469	26,667	148,132	
Lake Coleridge	554,125	201,652	251,302	1,007,079	
Highbank	333,788	129,216	179,901	642,905	
	2,580,633	526,446	442,042	3,549,121	

TABLE V—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY—continued  
Analysis of Capital Outlay as at 31 March 1967

	Headworks	Station Buildings and Villages	Generating Plant and Machinery	Total	Grand Total
<i>Completed Works—continued</i>					
Lake Pukaki Control	£ 2,309,683	£ 468,483	£ 9,484,163	£ 2,309,683	£
Benmore	23,375,459	..	..	33,328,105	
Waitaki	1,890,526	1,539,529	1,292,579	4,722,634	
Roxburgh	16,413,778	3,379,028	4,041,331	23,834,137	
Lake Wakatipu Control	692	2,747	..	3,439	
Lake Hawea Control	2,446,820	6,180	..	2,453,000	
Monowai	128,656	79,898	70,545	279,099	
Thermal stations—	111,491,885	19,503,687	31,877,230	..	162,872,802
King's Wharf	..	165,170	259,242	424,412	
Meremere	2,044,884*	4,255,007	11,656,865	17,956,756	
Wairakei	10,686,761†	4,725,880	5,769,324	21,181,965	
Evans Bay	..	77,066	223,291	300,357	
Stoke	..	12,341	66,961	79,302	
Transmission system—	12,731,645	9,235,464	17,975,683	..	39,942,792
33kV a.c.	..	..	..	233,923	
50kV a.c.	..	..	..	795,284	
66kV a.c.	..	..	..	2,269,248	
110kV a.c.	..	..	..	9,181,826	
220kV a.c.	..	..	..	17,051,333	
500kV d.c.	..	..	..	8,183,454	
Substations—	..	..	..	..	37,715,068
33kV	..	..	..	250,927	
50kV	..	..	..	1,085,956	
66kV	..	..	..	2,587,073	
110kV	..	..	..	13,484,389	
220kV and higher voltage	..	..	..	15,858,634	
Communication system	..	..	..	..	33,266,979
Distribution system	..	..	..	..	1,229,688
Offices, stores, land and buildings	..	..	..	..	2,917,984
Cost of raising loans	..	..	..	..	1,160,630
Interest during construction on completed works	..	..	..	..	814,939
Total completed works	..	..	..	..	10,315,388
	..	..	..	..	290,236,270
<i>Works Under Construction</i>					
Hydro-electric stations—					
Maratai II	5,143,606	..	186,334	5,329,940	
Tongariro	13,867,688	1,166,549	..	15,034,237	
Matahina	..	..	274,365	274,365	
Aviemore	11,818,862	75,623	1,372,568	13,267,053	
Manapouri	23,182,218	..	42,793	23,225,011	
Additions to completed stations	..	..	..	..	
Other works	49,478	2,569	31,825	83,872	
Thermal stations—	54,061,852	1,244,741	1,907,885	57,214,478	
Marsden	248,000†	6,415,735	4,631,909	11,295,644	
Otahuhu	..	233,929	1,105,044	1,338,973	
Meremere	..	217,712	598,113	815,825	
Wairakei	..	364,453	..	364,453	
Transmission system—	240,000	7,231,829	6,335,066	13,814,895	
33kV a.c.	..	..	..	164,280	
50kV a.c.	..	..	..	923	
66kV a.c.	..	..	..	523,777	
110kV a.c.	..	..	..	1,052,983	
220kV a.c.	..	..	..	2,403,171	
500kV d.c.	..	..	..	27,530	
Substations—	..	..	..	..	4,172,664
11kV	..	..	..	..	11,363
33kV	..	..	..	..	205,735
50kV	..	..	..	..	42,140
66kV	..	..	..	..	107,365
110kV	..	..	..	..	1,607,913
220kV and higher voltage	..	..	..	..	2,363,810
Communication system	..	..	..	..	4,338,326
Distribution system	..	..	..	..	133,153
Offices, stores, land, and buildings	..	..	..	..	19,979
	..	..	..	..	97,642
	..	..	..	..	250,774
Surveys and investigations of other schemes	..	..	..	..	4,694,878
Plant, motor vehicles and tools	..	..	..	..	1,363,745
Stocks of materials	..	..	..	..	4,567,268
	..	..	..	..	84,486,015
	..	..	..	..	5,931,013



TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGES, ROUTE-MILES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1967—continued

No.	Supply Authorities	Source of Supply <sup>1</sup>	Year When Supply Commenced	Capacity of Generating Plant					Static Head, in Feet	Voltage		Distribution <sup>2</sup>	Route Miles of Lines	No.		
				Water	Steam	Oil	Total Capacity	in Feet		Transmission	Number				kVA	
1	Country Councils	G. B. G.	1914 1922 1957	kW	kVA	kW	kVA	kW	kVA	..	..	22 127 50	9,060 2,072 1,603	109 107 177	1 2 3	
2	Government Departments	G. C.	1901 1925	..	..	..	..	..	..	..	..	204	14,437	380	1	
3	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
4	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
5	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
6	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
7	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
8	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
9	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
10	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
11	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
12	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
13	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
14	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
15	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
16	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
17	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
18	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
19	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
20	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
21	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
22	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
23	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
24	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
25	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
26	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
27	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
28	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
29	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
30	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
31	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
32	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
33	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
34	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
35	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
36	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
37	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
38	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
39	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
40	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
41	Country Councils	G. B. G.	..	..	..	..	..	..	..	..	..	..	..	..	..	
GRAND TOTALS				2,217,210	2,564,683	421,420	486,865	11,196	13,419	2,649,826	3,064,969	..	65,624	4,948,029	75,015	..

Note.—1. G. = Government supply; B. = Bulk supply from another supply authority; I. & G. = Independent supply (own generating plant).  
 2. Excludes Southland Electric Power Supply (Monowai) distribution substations and route-miles of lines.  
 3. Excludes Southland Electric Power Supply (Monowai) distribution substations and route-miles of lines.  
 4. Capacity of generating plant of Southland Electric Power Supply (Monowai) is shown in New Zealand Electricity Department information as for 1966.

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1967

No.	Supply Authorities	Maximum Demand	Annual Load Factor	Generated			Purchased	Generated and Purchased	In Bulk for Retail	Sold		Non-productive	Percentage Non-productive <sup>1</sup>	Per Head of Population <sup>2</sup>	Per Consumer (Excluding Bulk Supply)	Per £1 of Capital Outlay	Average Maximum Demand per Retail consumer	No.
				Water	Steam	Oil				Domestic	Non-domestic							
1	New Zealand Electricity De- partment	2,415,400	51.95	9,022,390,063	1,956,500,730	..	13,972,347	10,992,961,140	9,429,005,133	254,379	1,726,385	421,269	27.59	1,909	6,243	2,025	1	
2	Power Boards	695	52.90	2,597,400	..	..	623,114	3,220,514	254,379	1,726,385	421,269	27.59	1,909	6,243	2,025	1		
3	Auckland	16,248	61.48	..	..	..	87,508,354	87,508,354	..	64,344,105	17,526,274	5.637,975	3.331	9,140	16	2,014	2	
4	Bay of Islands	401,328	48.97	..	..	..	1,721,509,266	1,721,509,266	..	829,626,906	764,524,857	108,335,423	3.863	10,661	86	2,652	3	
5	Bay of Plenty	17,062	61.16	..	..	..	59,704,411	95,704,411	24,444,210	52,016,797	33,901,776	9,705,698	2.514	7,110	38	1,477	4	
6	Cambridge	36,991	60.64	..	..	..	207,118,008	207,118,008	..	54,582,570	117,424,653	10,666,575	5.166	19,467	104	4,413	5	
7	Central Canterbury	6,410	56.07	715,672	..	..	31,691,191	32,606,863	..	0,473,415	22,345,496	1,597,952	4.87	8,454	66	1,747	6	
8	Central Hawke's Bay	8,100	49.80	..	..	..	33,336,206	35,336,206	..	21,069,609	9,413,323	4,693,273	13.73	8,082	82	3,650	7	
9	Central Otago	36,255	57.29	..	..	..	181,946,733	181,946,733	..	86,009,566	81,025,087	4,833,523	7.06	13,567	66	2,938	8	
10	Central Westland	10,535	35.26	..	..	..	31,094,033	31,094,033	61,430	36,479,086	8,801,033	7,783,594	11.22	8,534	47	1,966	9	
11	Dunedin	50,679	49.74	..	..	..	220,837,680	220,837,680	..	127,111,959	72,627,680	20,936,951	9.48	8,246	61	2,091	10	
12	Edmonton	9,584	52.65	2,684,433	..	..	44,206,149	44,206,149	..	99,929,559	10,068,048	4,298,542	9.52	8,451	51	2,025	11	
13	Feilding	21,811	49.77	..	..	6,804	101,562,559	104,253,796	277,214	56,070,728	35,693,296	10,489,722	10.18	8,451	73	2,349	12	
14	Golden Bay	24,355	71.96	952,591	..	..	106,179,849	106,179,849	..	59,242,654	35,878,673	10,781,508	10.67	8,451	73	2,349	13	
15	Havelock	6,379	57.07	..	..	..	39,259,646	40,212,237	..	6,863,971	31,616,250	1,792,016	8.28	10,779	150	4,256	14	
16	Hawke's Bay	10,725	57.07	..	..	..	53,623,998	53,623,998	..	22,828,004	26,357,198	4,438,796	8.28	7,070	50	2,456	15	
17	Hutt Valley	69,927	51.80	2,684,433	..	..	312,742,346	312,742,346	45,861,100	170,008,580	75,793,011	20,339,655	7.62	8,097	80	2,490	16	
18	King Country	31,416	45.01	31,380,200	..	..	148,127,784	148,127,784	..	93,763,712	39,408,281	14,595,791	10.10	8,097	80	2,490	17	
19	Manawatu-Oroua	154,721	47.88	..	..	..	610,110,273	610,110,273	16,002,606	378,158,055	200,965,499	30,966,719	5.08	3,411	100	2,958	18	
20	Marlborough	19,930	51.07	5,542,846	..	..	269,926,660	269,926,660	130,637,770	22,113,020	15,395,130	4,834,215	11.42	1,990	3,995	3,114	19	
21	Northern Canterbury	19,090	53.70	..	..	12,340	79,257,575	84,812,761	..	52,034,843	23,508,433	9,369,485	10.93	2,770	44	1,910	21	
22	Northern Otago	47,039	53.53	..	..	..	261,871,820	261,871,820	50,508,400	76,729,728	11,401,986	16,833,210	8.93	4,539	62	3,004	22	
23	Otago Central	24,355	52.39	..	..	..	100,642,264	100,642,264	29,039,660	43,679,898	17,593,603	9,932,921	13.04	4,539	62	2,479	23	
24	Otago Central	19,058	52.60	43,972,249	..	..	99,387,579	99,387,579	715,500	39,563,612	20,672,297	11,013,183	11.99	7,008	40	1,631	24	
25	Porirua	39,899	47.71	..	..	10,830	124,962,062	124,962,062	..	82,696,594	30,290,013	11,975,445	9.56	2,605	41	1,044	25	
26	South Canterbury	29,883	56.62	19,946,232	..	..	169,905,335	169,905,335	70,283,120	64,229,594	17,885,830	8,407,154	6.11	3,128	53	2,174	26	
27	Tairāhaki	6,202	57.15	..	..	..	31,047,618	31,047,618	26,323,556	42,746,133	8,444,485	3,141,315	10.67	3,671	40	1,654	27	
28	Tairāhaki	29,560	52.95	..	..	..	137,123,423	137,123,423	..	90,015,120	48,489,083	13,693,096	14.51	3,092	48	1,654	28	
29	Tairāhaki	29,560	52.95	..	..	..	137,123,423	137,123,423	..	90,015,120	48,489,083	13,693,096	14.51	3,092	48	1,654	29	
30																		



TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1967—continued

No.	Supply Authorities	Mach- inum Load	Annual Load Factor	Units						Units Sold (Average)		Per % of Capital Outlay	Average Maximum Demand per Retail consumer					
				Water	Steam	Oil	Purchased	Generated and Purchased	In Bulk for Resale	Retail to Consumers	Non- productive			Per Head of Population	Per Consumer (Excluding Bulk Supply)			
1	Christchurch	202,529	45.69	124,196,000	..	..	814,443,443	614,443,443	31,290	542,468,586	213,206,680	58,728,605	7.21	3,392	9,594	76	1,792	
2	Dunedin	112,040	47.17	47,475	..	..	462,921,744	462,921,744	..	268,696,504	156,540,621	37,720,593	8.15	3,766	10,028	44	2,642	
3	Hamilton	24,486	47.49	..	..	..	80,561,780	80,561,780	..	39,291,600	36,853,550	4,846,630	2.89	3,429	7,238	76	2,106	
4	Bay of Plenty	9,655	54.52	..	..	..	49,546,180	49,546,180	..	27,940,998	35,939,631	5,567,531	2.39	2,477	4,238	82	1,096	
5	Nelson	11,504	55.78	..	..	..	56,217,600	56,217,600	..	34,976,915	19,651,464	1,965,471	4.32	3,653	7,918	84	1,739	
6	New Plymouth	29,750	54.46	..	..	..	141,938,189	141,938,189	..	86,889,936	44,339,048	4,334,244	7.71	3,081	8,540	98	1,894	
7	Puncheon North	34,144	43.73	..	..	..	130,783,959	130,783,959	..	47,942,480	11,209,266	11,209,266	7.90	3,195	8,024	99	2,060	
8	Taranaki	7,656	47.60	..	..	..	31,926,825	31,926,825	..	2,251,727	1,940,146	10,058,656	7.69	2,989	8,072	104	2,203	
9	Tairāwhiti	15,280	52.51	..	..	..	70,283,120	70,283,120	..	42,938,938	22,038,938	3,804,472	10.40	3,056	8,076	91	2,325	
10	Wellington	144,300	41.50	..	..	..	524,570,950	524,570,950	..	292,147,030	198,681,700	33,742,220	8.26	3,056	8,076	91	1,911	
11	Whangarei	12,135	47.89	..	..	..	50,908,400	50,908,400	..	30,458,732	17,446,069	3,002,799	6.43	4,018	9,791	77	2,078	
12	Whangarei	12,135	47.89	..	..	..	50,908,400	50,908,400	..	30,458,732	17,446,069	3,002,799	6.43	4,018	9,791	77	2,078	
Borough Councils				162,597,984	..	..	2,347,589,788	2,347,589,788	2,510,369,041	2,203,017	1,522,966,497	805,043,673	180,095,854	7.17	3,455	9,259	71	..
1	Bluff	1,916	43.34	..	..	..	7,105,760	7,105,760	7,105,760	3,329,655	3,180,624	538,481	9.38	1,973	6,090	68	1,792	
2	Leighwood	1,692	56.24	..	..	..	7,202,202	7,202,202	7,202,202	3,809,610	2,763,770	398,482	8.38	3,332	9,133	138	2,008	
3	Kaitiaki	1,897	56.13	..	..	..	6,927,000	6,927,000	6,927,000	6,899,585	2,014,452	413,963	4.44	2,822	9,200	110	1,745	
4	Lyttelton	1,996	59.33	..	..	..	10,374,120	10,374,120	10,374,120	6,000,274	3,108,653	1,115,193	10.75	2,822	9,200	110	1,745	
5	Christchurch	1,296	51.20	..	..	..	5,812,311	5,812,311	5,812,311	3,078,124	1,839,164	896,023	15.42	2,175	7,472	56	1,611	
6	Rangiora	1,960	42.19	..	..	..	3,100,572	3,100,572	5,002,972	3,127,998	1,474,777	400,267	8.00	2,171	6,005	34	1,775	
7	Rangiora	2,810	52.19	..	..	..	12,846,650	12,846,650	12,846,650	9,589,272	5,849,682	592,020	9.69	2,923	7,466	100	2,577	
8	Stratford	8,080	50.13	..	..	..	35,484,080	35,484,080	35,484,080	19,579,272	12,740,715	2,728,719	7.25	3,561	7,004	34	1,923	
9	Taharua	3,080	56.26	..	..	..	19,121,354	19,121,354	19,121,354	10,742,707	2,644,279	1,205,391	7.65	2,822	6,620	116	1,880	
10	Taharua	3,080	56.26	..	..	..	19,121,354	19,121,354	19,121,354	10,742,707	2,644,279	1,205,391	7.65	2,822	6,620	116	1,880	
11	Tairāwhiti	4,178	49.88	..	..	..	14,427,120	14,427,120	14,427,120	8,377,450	2,280,584	826,027	9.86	2,622	7,842	123	2,184	
12	Te Aroha	2,320	49.38	..	..	..	9,263,240	9,263,240	9,263,240	5,849,682	3,589,682	529,020	9.69	3,533	8,569	100	2,577	
13	Te Aroha	2,320	49.38	..	..	..	9,263,240	9,263,240	9,263,240	5,849,682	3,589,682	529,020	9.69	3,533	8,569	100	2,577	
14	Waikanae	3,385	53.38	..	..	..	19,583,000	19,583,000	19,583,000	10,742,707	2,644,279	1,205,391	7.65	2,822	6,620	116	1,880	
15	Whakatane	5,460	51.11	..	..	..	24,444,210	24,444,210	24,444,210	16,042,165	6,647,045	1,755,000	7.18	2,803	7,892	133	1,997	
County Councils				19,108,638	..	..	220,225,900	220,225,900	239,334,528	4,223,100	142,297,493	77,380,782	15,433,163	6.45	3,093	8,162	78	..
1	Kaitiaki	6,184	48.12	..	..	..	26,069,390	26,069,390	26,069,390	12,646,961	10,916,190	2,606,938	10.00	4,227	13,594	149	3,583	
2	Mackenzie	1,374	57.54	..	..	..	6,926,000	6,926,000	6,926,000	3,808,533	2,708,135	5,491	9.43	4,491	14,067	26	4,580	
3	Mackenzie	1,374	57.54	..	..	..	6,926,000	6,926,000	6,926,000	3,808,533	2,708,135	5,491	9.43	4,491	14,067	26	4,580	
Sundry Private Plants				..	..	..	37,580,413	37,580,413	14,126,690	18,397,339	15,301,209	3,941,845	10.49	3,771	11,131	69	..	
GOVERNMENT DEPARTMENTS				28,017	47.61	..	116,844,342	116,844,342	14,126,690	57,767	68,967,913	36,004,410	11,814,232	10.12	2,408	7,103	60	1,896
Rotorua Electric Supply				50,20	..	..	288,266,425	288,266,425	116,844,342	57,767	60,967,913	82,927,681	29,314,612	13.85	2,088	7,816	60	3,106
Southland Electric Power Supply				47.61	..	..	116,844,342	116,844,342	14,126,690	57,767	60,967,913	82,927,681	29,314,612	13.85	2,088	7,816	60	3,106
GRAND TOTALS				..	..	..	9,346,221,189	9,346,221,189	1,970,725,420	507,923	5,559,625,607	4,042,225,028	11,714,603,039	10.11	2,408	7,103	60	3,106
				..	..	..	11,316,454,532	11,316,454,532	..	..	..	..	..	11.15	3,592	9,675	19	..

Notes—Includes units used free of charge, losses on transmission and distribution, also losses on bulk supply to other electrical supply authorities. Units generated per head of total population .. 4,150 kWh  
 Maximum load for public supply: New Zealand, 2,447,900 kW. Annual load factor: New Zealand, 52.77 percent  
 Percentage of units generated and purchased .. 9.67%  
 Percentage of total units generated .. 11.15%  
 Units sold retail divided by population in area of supply. Included in New Zealand Electricity Department.

TABLE VIII—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1967

No.	Supply Authorities	Capital Outlay*	Loan Liability	Revenue			Working Costs			Capital Charges			Net Results			Appropriation of Surplus for Capital Works		
				Sales of Energy	Trading Account Profit	Other Sources	Cost of Power	Trans- mission and Distri- bution	Man- agement and General	Interest	Sinking Fund and Reserve Provi- dents	Depreci- ation	Renewals out of Revenue	Total	Total Annual Costs		Surplus	Deficit
1	New Zealand Electricity Department	£(N.Z.) 380,653,289	£(N.Z.) 263,821,112	£(N.Z.) 2,433,436	£(N.Z.) 80,477,854	£(N.Z.) 192,182,833	£(N.Z.) 103,492	£(N.Z.) 3,506,819	£(N.Z.) 33,057,164	£(N.Z.) 1,659,681	£(N.Z.) 12,034,751	£(N.Z.) 2,430,184	£(N.Z.) 1,993,033	£(N.Z.) 16,657,686	£(N.Z.) 26,705,814	£(N.Z.) 6,397,678	£(N.Z.) ..	£(N.Z.) ..
2	Power Boards	150,163	136,222	21,761	397	4,189	26,347	1,436	1,947	248,542	30,013	6,174	7,116	31,927	20,881	56,316	..	..
3	Ashburton	427,724	427,724	..	..	6,025	4,272,978	..	2,485,542	30,013	31,927	319,486	20,881	56,316	56,316	42,724	..	..
4	Auckland	18,727,681	8,116,482	..	..	11,711	8,156,666	..	5,500,735	735,428	474,230	62,827	829,152	8,675	8,675	108,434	..	..
5	Bay of Islands	2,257,746	1,033,677	..	..	4,250	3,502,522	..	2,035,736	97,278	35,426	97,559	24,148	172,986	68,271	4,502	..	..
6	Bay of Plenty	1,885,146	593,541	816,946	91,910	14,269	380,584	..	379,987	89,910	72,214	26,280	37,718	68,271	810,382	110,202	..	..
7	Butler	472,020	106,820	179,495	..	3,290	183,702	2,132	97,298	99,701	15,622	9,232	9,877	23,786	168,470	15,232	..	..
8	Cambridge	370,958	176,740	176,740	..	1,768	178,580	..	170,928	54,502	15,622	15,622	4,677	23,786	18,007	23,546	..	..
9	Central Canterbury	2,546,196	1,036,687	964,518	..	3,593	3,593,720	..	559,612	95,202	54,752	53,380	20,694	150,665	867,234	139,486	..	..
10	Central Hawke's Bay	967,332	231,604	207,090	..	3,576	1,280,666	..	157,220	25,296	25,166	28,760	10,703	30,169	37,817	32,817	..	..
11	Central Otago	3,299,409	1,077,713	1,241,043	..	9,373	3,253,738	..	751,404	83,751	108,634	51,668	43,682	180,340	1,124,129	129,609	..	..
12	Dannevirke	785,983	5,313	230,003	..	4,661	256,997	..	143,256	25,932	27,583	204	2,664	4,677	219,639	38,658	..	..
13	Edmonton	1,289,581	383,500	504,906	..	3,145	512,136	9,118	27,583	48,468	450,775	9,211	3,995	18,126	159,773	18,007	..	..
14	Embsay	1,007,831	383,500	142,432	..	2,660	130,270	..	170,274	40,800	10,728	121,540	4,348	33,273	92,132	67,250	..	..
15	Golden Bay	985,194	11,116	312,812	..	2,660	130,270	..	170,274	40,800	10,728	121,540	4,348	33,273	92,132	67,250	..	..
16	Hawke's Bay	3,662,638	1,228,639	1,366,339	149,665	7,616	1,592,726	..	997,606	137,295	125,510	1,260,411	62,637					

TABLE VIII—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1967—continued

No.	Supply Authorities	Capital Outlay*	Loan Liability	Revenue			Working Costs			Capital Charges			Net Results			Appropriation of Surplus for Capital Works	No.					
				Sale of Energy	Trading Account Profit	Other Sources	Trans- and Distribution <sup>1</sup>	Management and General	Interest	Sinking Fund and Principal Repay-ments	Depreciation	Renewals out of Revenue	Total	Total Annual Costs	Surplus			Deficit				
1	Donorour Councils	£(N.Z.) 32,983,376	7,985,913	£(N.Z.) 13,604,826	4,227	£(N.Z.) 47,103	180,452	13,036,608	109,145	£(N.Z.) 0,034,713	1,484,055	959,645	10,587,558	353,306	£(N.Z.) 451,568	944,978	153,482	1,902,014	12,490,372	1,346,236	712,856	2,058
2	Buller	36,343	3,288	50,714	58,930	1,107	379	29,337	7,133	29,930	4,572	41,062	140	299	2,088	1,603	1,414	3,941	45,003	7,197	2,058	
3	Te Anau	42,136	3,719	50,834	50,834	99	649	29,930	1,225	3,297	5,330	33,995	208	393	1,603	1,530	1,690	1,690	37,679	1,315	2,720	
4	Whakatane	80,922	5,031	85,953	85,953	653	653	31,920	5,680	4,721	44,231	1,508	7,543	690	2,990	3,120	1,170	1,170	44,451	7,122	2,720	
5	Ohakune	87,057	5,031	92,088	92,088	172	172	19,726	4,303	4,721	26,923	1,508	8,300	630	2,990	3,120	1,170	1,170	52,650	7,122	2,720	
6	Raetihi	156,089	36,617	192,706	192,706	400	400	12,867	3,888	4,721	29,272	1,648	2,478	380	1,335	1,135	7,641	30,913	1,522	1,047		
7	Rangiora	154,640	43,210	197,850	197,850	400	400	45,275	13,715	5,195	64,485	1,875	2,600	300	2,392	2,392	7,168	71,683	9,634	1,092		
8	Stratford	217,475	22,200	239,675	239,675	400	400	117,878	20,006	19,880	157,774	1,447	1,729	512	4,348	4,348	7,735	165,510	26,942	14,466		
9	Tairāne	203,659	34,640	238,299	238,299	182	182	66,244	10,359	10,359	77,603	1,306	3,755	807	2,70	2,70	3,046	86,270	12,915	5,241		
10	Tairāne	61,488	34,640	96,128	96,128	86	86	33,264	4,178	4,702	42,144	42,144	807	807	807	807	2,517	44,661	7,057	6,377		
11	Tairāne	177,646	6,238	183,884	183,884	6,646	6,646	63,412	7,560	7,906	80,364	333	620	3,934	2,090	1,401	6,977	87,841	25,633	5,122		
12	Te Anau	882,159	431,665	1,313,824	1,313,824	6,081	6,081	57,701	4,921	4,921	111,501	20,417	31,980	106	746	746	3,925	165,699	15,456	48,113		
13	Whakatane	73,450	1,767	75,217	75,217	540	540	34,771	6,653	3,856	48,628	1,066	447	212	3,325	3,325	3,984	47,132	6,066	8,117		
14	Whakatane	93,828	7,069	100,897	100,897	199	199	68,661	6,174	6,358	74,019	67,429	212	447	447	4,162	4,162	71,591	14,315	4,629		
15	Whakatane	309,792	41,755	351,547	351,547	125	125	91,910	7,857	17,135	116,802	2,230	4,096	2,285	2,285	2,289	11,000	127,902	20,332	9,430		
16	Whakatane	2,819,551	667,399	3,486,950	3,486,950	8,254	8,254	787,575	111,214	150,881	1,067,301	31,381	51,722	14,276	42,801	140,260	1,207,561	185,307	1,392,354	132,354		
1	Country Councils	165,406	29,587	194,993	194,993	535	535	99,929	5,680	9,244	108,653	1,142	7,543	66,353	1,446	1,446	7,288	116,141	9,052	18,713		
2	Healthcare	164,129	90,360	254,489	254,489	535	535	26,246	4,500	2,544	37,193	4,599	8,300	..	..	..	12,133	49,329	2,252	13,111		
3	Mackenzie	156,788	95,500	252,288	252,288	535	535	12,417	4,303	1,105	16,052	4,599	8,300	..	..	..	13,199	31,251	6,236	13,111		
4	Sturges	486,323	215,447	701,770	701,770	535	535	132,592	18,613	12,893	164,098	10,631	15,843	..	..	..	32,620	196,718	15,540	31,824		
5	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
6	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
7	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
8	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
9	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
10	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
11	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
12	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
13	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
14	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
15	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
16	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
17	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
18	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
19	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
20	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
21	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
22	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
23	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
24	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
25	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
26	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
27	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
28	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
29	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
30	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
31	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	53,582	66,353	393	120,320	685,627	32,499	32,499	32,499	32,499		
32	Government Departments	1,745,922	1,642,334	3,388,256	3,388,256	241	241	421,126	81,617	62,554	565,299	5										

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1967—continued

No.	Supply Authorities	Capital Outlay		Revenue from Sale of Electricity						Working Costs		Capital Charges		Total Costs		No.		
		Per Head of Population	Per Cent Consumer	Per Unit Sold (Wholesale)	Per Unit Sold (Retail)	Per Unit Sold (Domestic Supply)	Per Unit Sold (Non-domestic Supply)	Per Head of Population	Per Retail Consumer	Per kW Maximum Demand	Per kW Maximum Demand	Per Unit Sold	Per kW Maximum Demand	Per Unit Sold	Per kW Maximum Demand		Per kW Maximum Demand	Per Cent of Capital Outlay
6	Nelson	£(N.Z.) 51.24	£(N.Z.) 87.43	d. 1.519	d. 1.519	d. 0.948	d. 2.700	£(N.Z.) 19.50	£(N.Z.) 54.06	£(N.Z.) 28.55	d. 1.140	£(N.Z.) 21.43	d. 0.086	£(N.Z.) 1.61	£(N.Z.) 3.48	d. 1.226	£(N.Z.) 23.04	% 49.30
7	New Plymouth	.. 32.19	.. 91.24	.. 1.174	.. 1.174	.. 0.912	.. 1.684	.. 15.63	.. 44.29	.. 21.50	.. 1.009	.. 18.31	.. 0.069	.. 1.26	.. 2.05	.. 1.069	.. 23.36	% 47.21
8	Palmerston North	.. 26.68	.. 77.68	.. 1.366	.. 1.366	.. 0.992	.. 2.424	.. 16.97	.. 43.95	.. 20.12	.. 1.045	.. 15.41	.. 0.041	.. 1.67	.. 1.78	.. 1.407	.. 16.00	% 47.16
9	Tairātea	.. 83.27	.. 184.01	.. 1.142	.. 1.142	.. 0.604	.. 0.604	.. 19.74	.. 52.10	.. 17.92	.. 1.128	.. 9.63	.. 0.128	.. 2.82	.. 2.82	.. 1.289	.. 22.66	% 49.02
10	Timaru	.. 33.47	.. 88.34	.. 1.550	.. 1.550	.. 1.250	.. 2.129	.. 19.74	.. 52.10	.. 27.26	.. 1.128	.. 19.84	.. 0.160	.. 1.81	.. 6.10	.. 1.369	.. 43.92	% 49.02
11	Wellington	.. 52.17	.. 127.12	.. 1.414	.. 1.414	.. 0.934	.. 2.120	.. 23.68	.. 57.69	.. 20.04	.. 1.241	.. 17.59	.. 0.135	.. 1.81	.. 4.10	.. 1.369	.. 43.92	% 49.02
12	Whangarei	.. 21.37	.. 65.61	.. 1.593	.. 1.593	.. 1.052	.. 2.538	.. 17.42	.. 33.40	.. 26.20	.. 1.350	.. 22.01	.. 0.135	.. 2.22	.. 6.91	.. 1.473	.. 24.23	% 49.02
13	Borough Councils	.. 48.95	.. 131.18	.. 1.402	.. 1.402	.. 1.023	.. 2.120	.. 20.19	.. 54.11	.. ..	.. 1.080	.. ..	.. 0.196	.. ..	.. 5.77	.. 1.286	.. 37.87	% ..
14	Bluff	.. 29.19	.. 90.12	.. 1.870	.. 1.870	.. 1.607	.. 2.060	.. 15.47	.. 47.44	.. 26.47	.. 1.514	.. 21.43	.. 0.145	.. 2.06	.. 4.09	.. 1.659	.. 23.49	% 46.71
15	Inglwood	.. 21.07	.. 57.88	.. 1.403	.. 1.403	.. 1.403	.. 1.773	.. 19.46	.. 53.50	.. 26.64	.. 1.296	.. 24.61	.. 0.061	.. 1.16	.. 3.01	.. 1.357	.. 89.41	% 46.71
16	Kaitiaki	.. 30.77	.. 74.33	.. 1.369	.. 1.369	.. 1.101	.. 1.977	.. 16.33	.. 46.76	.. 26.80	.. 1.112	.. 21.76	.. 0.085	.. 1.67	.. 4.02	.. 1.197	.. 23.43	% 46.71
17	Lyttelton	.. 31.91	.. 80.00	.. 1.582	.. 1.582	.. 1.050	.. 2.473	.. 18.59	.. 48.01	.. 29.49	.. 1.237	.. 23.92	.. 0.210	.. 4.06	.. 7.05	.. 1.448	.. 27.90	% 46.71
18	Ohakune	.. 38.54	.. 105.44	.. 1.758	.. 1.758	.. 1.368	.. 2.411	.. 15.93	.. 43.60	.. 27.79	.. 1.412	.. 22.32	.. 0.446	.. 7.05	.. 10.49	.. 1.858	.. 29.37	% 46.71
19	Raeata	.. 64.19	.. 177.66	.. 1.614	.. 1.614	.. 1.320	.. 2.238	.. 14.60	.. 40.42	.. 22.76	.. 1.213	.. 17.11	.. 0.388	.. 5.82	.. 5.61	.. 1.612	.. 22.73	% 46.71
20	Rangiora	.. 93.61	.. 256.64	.. 1.490	.. 1.490	.. 1.155	.. 2.574	.. 18.15	.. 45.33	.. 27.25	.. 1.255	.. 22.95	.. 0.139	.. 6.79	.. 6.10	.. 1.199	.. 49.45	% 46.71
21	Recreation	.. 29.91	.. 75.88	.. 1.326	.. 1.326	.. 0.800	.. 1.669	.. 13.46	.. 30.24	.. 21.35	.. 1.109	.. 19.53	.. 0.054	.. 2.16	.. 3.36	.. 1.394	.. 23.40	% 46.71
22	Stratford	.. 37.23	.. 100.22	.. 1.313	.. 1.313	.. 1.093	.. 1.991	.. 15.32	.. 46.80	.. 25.40	.. 1.039	.. 20.09	.. 0.112	.. 2.16	.. 4.10	.. 1.163	.. 20.32	% 46.71
23	Taharua	.. 21.35	.. 63.05	.. 1.614	.. 1.614	.. 1.056	.. 2.099	.. 17.63	.. 52.74	.. 24.15	.. 1.339	.. 20.04	.. 0.080	.. 1.20	.. 1.20	.. 1.419	.. 21.24	% 46.71
24	Tanarumu	.. 45.43	.. 109.59	.. 1.420	.. 1.420	.. 1.029	.. 2.574	.. 24.06	.. 59.98	.. 23.98	.. 1.005	.. 19.35	.. 0.094	.. 1.67	.. 3.93	.. 1.199	.. 21.02	% 46.71
25	Tararua	.. 27.45	.. 214.22	.. 1.437	.. 1.437	.. 1.169	.. 2.027	.. 13.46	.. 42.93	.. 22.38	.. 1.008	.. 16.95	.. 0.024	.. 6.79	.. 6.10	.. 1.345	.. 49.45	% 46.71
26	Tauranga	.. 22.81	.. 56.98	.. 1.388	.. 1.388	.. 1.063	.. 1.660	.. 13.32	.. 30.24	.. 21.77	.. 1.302	.. 19.01	.. 0.053	.. 0.91	.. 3.04	.. 1.326	.. 20.32	% 46.71
27	Thames	.. 18.32	.. 49.18	.. 1.433	.. 1.433	.. 1.157	.. 1.778	.. 16.45	.. 47.19	.. 24.60	.. 1.129	.. 19.34	.. 0.070	.. 1.19	.. 4.44	.. 1.198	.. 20.54	% 46.71
28	Waikato	.. 30.29	.. 113.31	.. 1.558	.. 1.558	.. 1.177	.. 2.479	.. 18.21	.. 53.98	.. 26.98	.. 1.256	.. 21.41	.. 0.116	.. 2.01	.. 3.55	.. 1.353	.. 23.42	% 46.71
29	Whakarewa	.. 30.54	.. 104.76	.. 1.451	.. 1.451	.. 1.122	.. 2.110	.. 18.40	.. 50.00	.. ..	.. 1.144	.. ..	.. 0.150	.. ..	.. 4.97	.. 1.294	.. 42.83	% 46.71
30	Headcote	.. 29.80	.. 95.83	.. 1.229	.. 1.229	.. 1.149	.. 1.323	.. 21.65	.. 69.61	.. 19.43	.. 1.113	.. 17.60	.. 0.074	.. 1.18	.. 4.41	.. 1.189	.. 18.78	% 46.71
31	Kaitiaki	.. 203.62	.. 149.62	.. 1.701	.. 1.701	.. 1.593	.. 1.891	.. 16.42	.. 53.26	.. 23.03	.. 1.402	.. 27.07	.. 0.483	.. 8.83	.. 6.39	.. 1.962	.. 70.25	% 46.71
32	Makereke	.. 54.52	.. 160.93	.. 1.379	.. 1.379	.. 1.296	.. 1.478	.. 21.69	.. 63.96	.. ..	.. 1.171	.. ..	.. 0.233	.. ..	.. 6.71	.. 1.404	.. 40.45	% 46.71
33	Sundry Private Plants	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	% ..
34	Government Departments	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	% ..
35	Rotorua Electric Supply	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	% ..
36	Southland Electric Power Supply	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	% ..
37	Averages for all supply authorities	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	% ..
38	GRAND TOTALS	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	% ..

Notes—Excludes sundry private plants (Table VII) who do not furnish returns. Retail rates. Prior to 1965 figures were calculated on distribution capital only. Based on estimated figures (Tables VI and X).

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Total	Domestic Ranges			Water-heaters			Consumers Per Route-mile of Line	No.
				Domestic	Commercial	Total		Domestic	Ratio, Number of Domestic Ranges to Number of Consumers	Domestic	Total	Ratio, Number of Water-heaters to Number of Consumers			
1	New Zealand Electricity Department	..	..	1,101	16	1,117	1,138	..	..	1,184	1,212	422	1,634	..	1
2	North Island <sup>1</sup>	..	..	1,328	2	1,330	341	..	..	386	422	..	1,570	..	2
3	Power Boards	..	..	1,429	18	1,447	1,479	..	..	1,570	1,634	..	1,634	..	3
4	Amblyst	1,080	31.85	300	44	344	123	41.00	134	209	209	44.67	3.02	1	
5	Ashburton	24,580	36.44	7,920	1,037	8,957	6,526	82.40	9,046	9,965	114.22	114.22	5.68	2	
6	Auckland	417,590	35.24	127,755	23,559	151,314	101,931	79.79	112,690	112,690	88.21	88.21	56.36	3	
7	Bay of Islands	33,810	35.78	10,384	1,712	12,096	7,695	74.10	7,003	9,072	67.44	67.44	4.85	4	
8	Bay of Plenty	33,170	26.64	7,498	1,338	8,836	5,914	78.87	5,927	7,127	79.05	79.05	4.85	5	
9	Buller	8,800	41.69	3,000	669	3,669	886	29.53	753	984	984	25.10	9.81	6	
10	Cambridge	9,840	34.88	2,985	447	3,432	2,636	88.31	2,999	3,433	100.47	100.47	6.90	7	
11	Central Canterbury	36,120	34.16	11,625	713	12,338	9,590	82.49	9,384	10,438	80.72	80.72	7.45	8	
12	Central Hawke's Bay	13,950	38.10	4,613	702	5,315	4,351	94.32	4,175	4,241	90.50	90.50	4.38	9	
13	Central Waikato	77,700	31.19	21,710	2,526	24,236	17,006	78.33	17,206	20,098	79.25	79.25	9.70	10	
14	Dannevirke	13,180	35.91	4,049	684	4,733	3,252	80.32	3,184	3,695	78.64	78.64	8.15	11	
15	Egmont	26,910	34.63	7,936	1,383	9,319	6,716	84.63	6,655	8,743	83.86	83.86	11.13	12	
16	Franklin	31,690	34.69	9,842	1,150	10,992	8,557	86.94	7,932	9,657	80.57	80.57	10.06	13	
17	Golden Bay	3,570	41.99	1,332	167	1,499	888	66.67	1,002	1,051	75.22	75.22	4.52	14	
18	Grey	18,310	37.99	5,730	1,227	6,957	3,935	68.67	2,905	3,140	50.70	50.70	13.61	15	
19	Hawke's Bay	78,010	35.48	23,962	3,717	27,679	20,983	87.57	20,581	21,610	85.89	85.89	12.93	16	
20	Horowhenua	41,570	46.50	16,720	2,611	19,331	13,147	78.63	13,388	14,648	80.07	80.07	14.35	17	
21	Hutt Valley	169,790	30.41	47,167	4,463	51,630	41,519	88.02	43,522	44,732	92.27	92.27	32.49	18	
22	King Country	19,430	22.99	4,108	360	4,468	2,593	63.12	2,350	2,549	57.20	57.20	3.79	19	
23	Manawatu-Oroua	36,150	32.43	10,686	1,039	11,725	9,113	85.28	9,133	10,098	85.47	85.47	12.25	20	
24	Marlborough	27,270	34.62	7,916	1,526	9,442	5,385	68.03	5,768	6,061	72.86	72.86	11.64	21	
25	North Auckland	42,140	36.21	13,671	1,589	15,260	12,492	91.38	11,128	11,998	81.40	81.40	4.57	22	
26	North Canterbury	20,190	38.73	7,169	1,651	8,820	5,299	73.92	5,299	5,912	73				



TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES AND WATER-HEATERS, FOR THE YEAR ENDED 31 MARCH 1967—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Domestic Ranges			Water-heaters			Consumers per Mile of Line	No.
				Domestic	Commercial	Total	Number	Ratio of Domestic Ranges to Number of Consumers	Domestic	Total	Ratio of Domestic Water-heaters to Number of Consumers			
36	Power Boards—contd.	6,480	36.32	2,213	144	2,357	1,364	61.64	1,325	1,401	59.87	4.57	36	
37	Waikato	26,260	42.46	9,380	1,890	11,150	7,019	75.23	6,797	7,298	72.21	10.93	37	
38	Waitemata	183,960	40.43	66,682	7,719	74,381	53,039	79.56	56,279	56,279	84.42	18.14	38	
39	Waikato	19,530	37.36	6,220	1,076	7,296	4,357	70.05	4,175	5,075	67.12	6.64	39	
40	Wanganui-Rangitikei	65,070	36.09	20,302	3,183	23,485	15,174	74.74	13,507	16,766	76.38	11.52	40	
41	Westland	6,030	34.41	1,627	448	2,075	855	52.55	796	956	48.92	13.13	41	
		1,851,570	36.27	586,054	85,512	671,566	465,820	79.48	476,076	517,056	81.23	11.99		
CITY COUNCILS														
1	Christchurch	222,810	35.35	69,734	9,030	78,764	59,874	51.48	4,412	4,938	87.94	64.63	6	
2	Dunedin	112,330	37.75	37,222	5,181	42,403	23,201	73.95	11,300	12,428	89.24	27.55	7	
3	Hamilton	22,200	41.62	7,162	2,078	9,240	4,325	60.39	5,400	5,868	77.43	41.78	2	
4	Invercargill	37,900	34.06	11,059	1,850	12,909	3,328	48.18	3,370	5,827	48.56	33.72	3	
5	Napier	12,100	45.88	4,330	1,222	5,552	2,681	61.92	3,075	3,168	71.02	56.08	5	
6	Nelson	16,840	36.07	5,017	1,058	6,075	2,583	51.48	4,412	4,938	87.94	64.63	6	
7	New Plymouth	40,920	35.28	12,663	1,775	14,438	9,364	73.95	11,300	11,428	89.24	27.55	7	
8	Palmerton North	40,500	36.92	12,844	2,109	14,953	9,444	73.53	11,258	11,624	87.65	40.52	8	
9	Tauranga	6,700	45.25	2,037	995	3,032	1,848	90.72	1,942	2,139	95.34	36.53	9	
10	Timaru	21,100	37.89	6,613	1,381	7,994	4,669	70.60	5,084	5,350	76.88	60.56	10	
11	Wellington	122,150	41.04	40,968	9,164	50,132	17,462	42.62	30,301	30,301	73.96	62.43	11	
12	Whangarei	18,230	32.58	4,661	1,284	5,945	4,370	93.76	4,247	4,385	91.12	46.08	12	
		673,800	37.32	214,310	37,127	251,437	145,149	67.73	174,689	182,687	81.51	43.11		
BOROUGH COUNCILS														
1	Bluff	3,300	32.39	875	194	1,069	393	44.91	246	293	28.11	59.39	1	
2	Idgewood	2,000	36.40	614	114	728	508	82.74	537	557	87.46	29.12	2	
3	Kaipoi	3,020	35.99	971	116	1,087	800	82.39	840	866	86.51	51.76	3	
4	Lyttelton	3,200	38.72	1,040	199	1,239	655	62.98	810	848	77.88	59.00	4	
5	Ohakune	2,260	36.55	724	102	826	298	41.16	331	359	45.72	6.45	5	
6	Raehiri	2,120	36.13	594	172	766	261	43.94	314	320	52.86	5.80	6	
7	Rangiora	4,220	39.15	1,402	250	1,652	1,134	80.88	1,315	1,356	93.79	66.08	7	
8	Riccarton	7,270	39.42	2,577	289	2,866	2,081	80.75	2,385	2,337	88.67	44.09	8	
9	Stratford	5,470	37.15	1,660	372	2,032	1,327	79.94	1,347	1,414	81.14	53.47	9	
10	Taharape	2,980	33.44	744	219	963	490	65.86	490	511	65.86	43.77	10	

(For notes see page 15)

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES AND WATER-HEATERS, FOR THE YEAR ENDED 31 MARCH 1967—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Domestic Ranges			Water-heaters			Consumers per Mile of Line	No.
				Domestic	Commercial	Total	Number	Ratio of Domestic Ranges to Number of Consumers	Domestic	Total	Ratio of Domestic Water-heaters to Number of Consumers			
11	Borough Councils—contd.	3,910	41.46	1,345	276	1,621	784	58.29	751	841	55.84	39.54	11	
12	Tairānui	11,390	36.15	3,629	489	4,118	2,745	75.64	2,740	2,893	75.50	12.83	12	
13	Taupo	3,220	40.03	1,028	261	1,289	74.42	817	79.47	858	79.47	26.31	13	
14	Thames	5,650	37.31	1,718	390	2,108	1,512	88.01	1,562	1,573	90.92	43.02	14	
15	Wauroa	5,150	35.28	1,414	403	1,817	1,278	90.38	1,221	1,291	86.35	43.26	15	
16	Whakatake	8,090	33.79	2,213	521	2,734	2,107	95.21	2,112	2,174	95.44	39.06	16	
		79,150	36.79	22,548	4,367	26,915	17,138	76.01	17,718	18,491	78.58	25.22		
COUNTY COUNCILS														
1	Heathcote	5,550	31.10	1,670	56	1,726	1,670	100.00	1,374	1,397	82.28	15.83	1	
2	Kaitiaki	2,600	42.19	899	198	1,097	505	56.17	1,505	1,575	56.17	10.55	2	
3	Mackenzie	8,920	25.84	162	37	199	140	86.42	181	198	111.73	1.12	3	
		8,920	33.88	2,731	291	3,022	2,315	84.77	2,060	2,170	75.43	7.75		
GOVERNMENT DEPARTMENTS														
1	Rotorua Electric Supply	49,570	38.92	12,892	1,947	14,779	10,148	79.08	9,718	10,703	75.73	14.60	1	
2	Southland Electric Power Supply	67,350	34.52	20,211	3,041	23,252	12,143	60.08	11,405	12,155	56.43	5.56	2	
		110,920	34.29	33,043	4,988	38,031	22,291	67.46	21,123	22,858	63.92	7.92		
	GRAND TOTALS	2,718,360	36.51	860,115	132,303	992,418	654,192	76.06	693,236	744,896	80.60	13.23		

Total population of Dominion as at 1 April 1967 was 2,727,148. Ratio of population in area of supply to total population of Dominion = 99.678 percent.

Notes—Retail consumers supplied direct.

Estimated figures.



TABLE XI—STATISTICS RELATING TO ELECTRICIANS REGISTRATION BOARD, YEAR ENDED 31 MARCH 1967  
(The figures in parentheses are for the previous year)

1. Number of board meetings: 11 (11)

2. Registrations—

Inspectors .. .. .	53	(48)	1,062	(1,009)	608	(604)
Electricians .. .. .	542	(483)	10,834	(10,292)	10,497	(10,025)
Electrical servicemen .. .. .	12	(11)	500	(488)	442	(435)
Electrical (radio) servicemen .. .. .	160	(167)	2,120	(1,960)	2,076	(1,920)
Limited registration <sup>1</sup> .. .. .	180	(193)	3,227	(3,047)	2,803	(2,674)
3. Provisional licences <sup>2</sup> .. .. .	665	(553)	5,386	(4,721)		
4. Permits to assist .. .. .	118	(209)	1,848	(1,730)		
5. Applications for ruling on experience .. .. .	161	(202)				

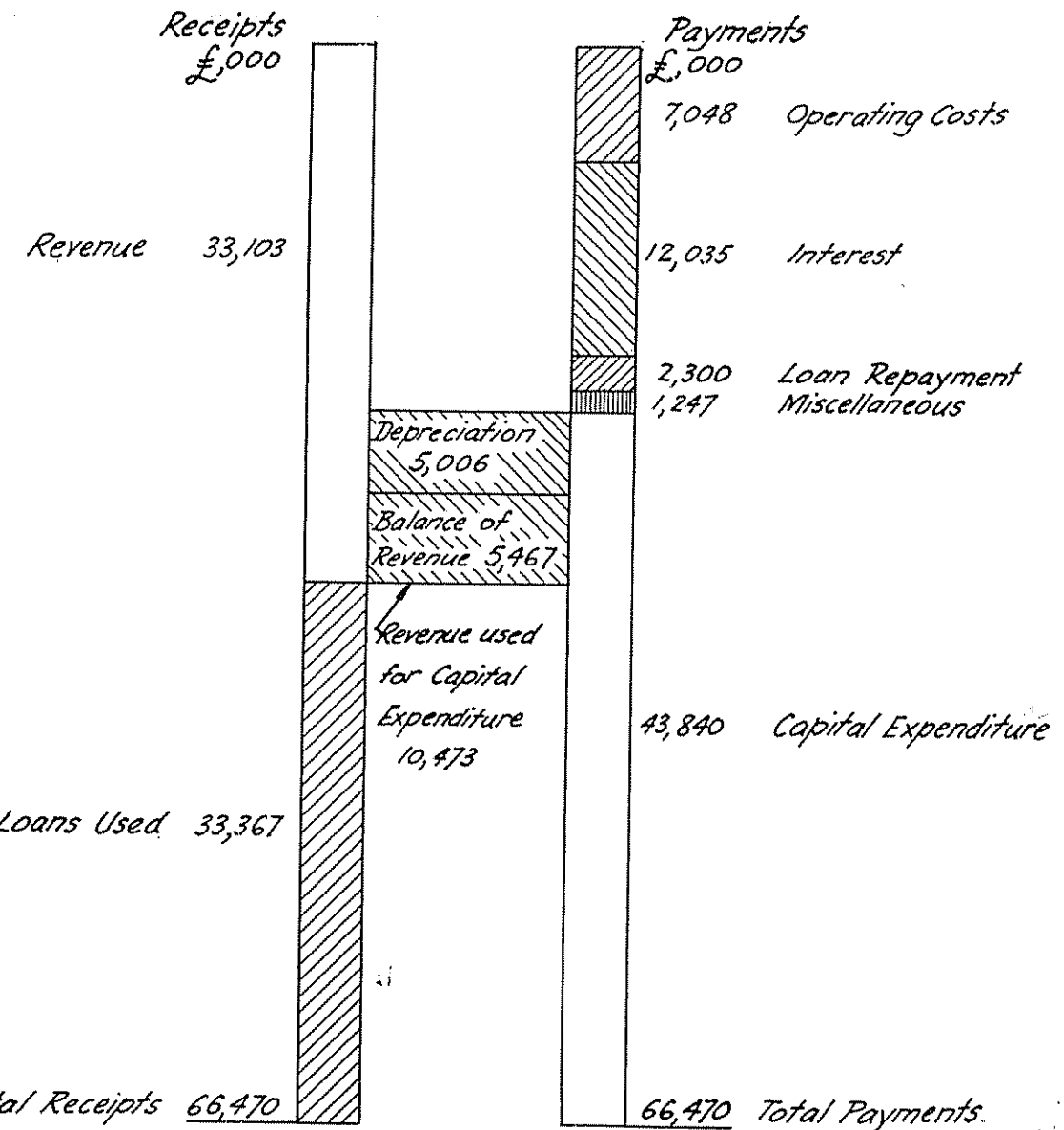
	During Year	Total	Current	
Candidates		Passed, Percentage	Highest Marks	
6. Examinations—				
Electricians and electrical servicemens written, theory paper .. .. .	870	(747)	65 (65)	97 (96)
Electricians and electrical servicemens regulations paper .. .. .	838	(702)	82 (74)	100 (100)
Electricians and electrical servicemens practical (two examinations) .. .. .	985	(914)	73 (63)	96 (96)
Radio servicemen and limited registration, written .. .. .	638	(605)	87 (73)	98 (95)
Electrical servicemen and limited registration, practical (two examinations) .. .. .	524	(489)	81 (76)	96 (91)

7. Defective work reports, 6 (1); Endorsements made, nil (nil); Endorsements removed, nil (nil).  
8. Breach of Act reports, 20 (7); Prosecutions authorised 11 (1).  
9. Appeals, nil (nil).

Notes—<sup>1</sup>Includes refrigeration servicemen, 33; assembly and repair of portable domestic appliances, 14; servicing calculating machines and like office appliances, 14; replacement of fuse links, connection and replacement flexible cords, earthing of appliances, 5; Supply authority work, 33; radio experimenter, 2; New Zealand Broadcasting Corporation, 15; Department of Civil Aviation, extended limits, 4; radio servicemen's limits restricted to Department of Civil Aviation, 4; Post Office radio technician, 16; Post Office telephone exchange technician, extended limits, 2; automatic telephone and impulse signalling equipment, 2; servicing of electrical instruments and process control equipment, 3; luminous discharge tubes, 1; Radio interference suppression, 9; Post Office telegraph technicians, 2; Post Office telephone exchange technicians, 13; Operation of motion and sound pictures, 2; Assembly and repair of portable appliances, 3; Secondary side of radio sets, 1; Operation of stage lighting, 2. <sup>2</sup>211 (194) were issued to apprentices.

N.Z. ELECTRICITY DEPT. ONLY

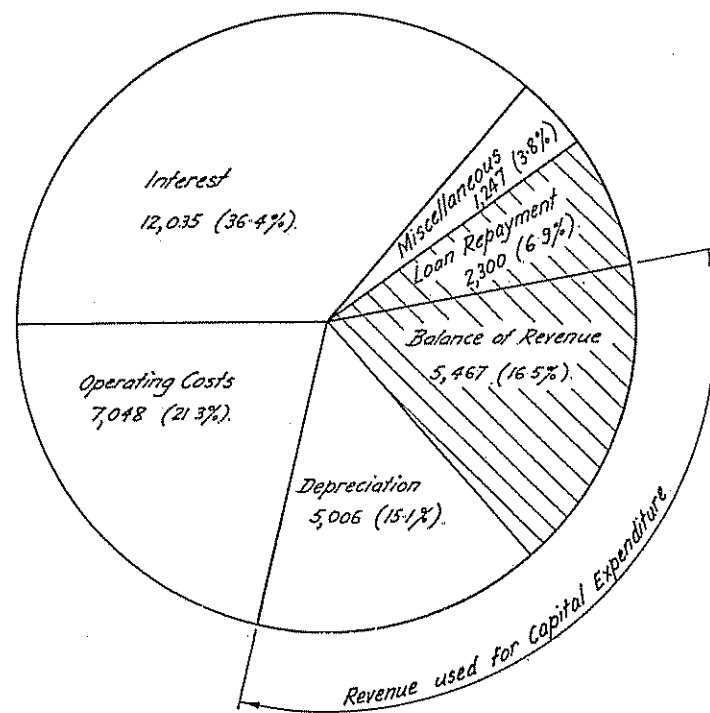
DISBURSEMENT OF TOTAL RECEIPTS 1966/67



N.Z. ELECTRICITY DEPT. ONLY

TOTAL REVENUE 1966/67

£,000



NOTE—Section 3A, State Supply of Electrical Energy Act 1917, requires price calculated to produce 25 percent more than total of operating costs, interest, and depreciation over the five yearly contractual period as calculated prior to its commencement. The surplus resulting (cross hatched areas) to be used for loan repayment and the balance transferred to Reserve Fund.