

ANNUAL STATISTICS IN RELATION TO
ELECTRIC POWER DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1965

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.	45	4	7	56	1
2	Installed capacity	kW	1,909,013	421,420	5,398	2,335,831	2
3	Generation	kWh	7,753,228,494	1,964,719,130	221,646	9,718,169,270	3
4	Maximum load	kW				2,048,200	4
5	Retail sales	kWh				8,188,708,353	5
6	Consumers	No.				940,185	6
7	Population	No.				2,640,117	7
8	Capital outlay, generation, transmission, and distribution	£				416,995,132	8
9	Revenue retail sales of electricity	£		44,995,263			9
10	Revenue from other sources	£		1,109,237			10
11	Total revenue	£				46,104,500	11
12	Working costs	£		14,506,835			12
13	Capital charges	£		23,274,603			13
14	Total costs	£				37,781,438	14
15	Net profit	£				8,323,062	15
16	Working costs per kWh sold retail	d.		0.4252			16
17	Capital charges per kWh sold retail	d.		0.6821			17
18	Total costs per kWh sold retail	d.				1.1073	18
19	Total revenue per kWh sold retail	d.				1.3512	19
20	Revenue retail sales of electricity per kWh sold retail	d.				1.3187	20
21	Generation per head of total population	kWh				3,681	21
22	Retail sales per consumer	kWh				8,709	22
23	Capital outlay per kW installed capacity	£				178.52	23
24	Ratio of capital charges to capital outlay	%				5.581	24
25	Electrical fires reported during year	No.				110	25
26	Fatal electrical accidents during year	No.				16	26
27	Electric ranges (domestic)	No.				593,211	27
28	Electric water heaters (domestic)	No.				628,330	28

Total retail sales per kWh sold retail

TABLE I—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

Summarised Gross Revenue, Net Revenue, and Appropriation Accounts for Year Ended 31 March 1965

Working costs	£ 6,372,913	Revenue—	£
Capital charges—		Sales of energy	28,087,540
Interest	10,160,777	Rent and miscellaneous receipts	184,925
Depreciation including interest on depreciation reserve	4,347,990		
Loan capital repayments	1,744,573		
	16,253,340		
Total costs (see table IV)	22,626,253		
Transfer to Reserve Fund	5,646,212		
	28,272,465		28,272,465

TABLE II—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

Summarised Balance Sheet as at 31 March 1965

Loan liability	£ 234,866,146	Completed works	£ 243,424,249
Sundry creditors, etc.	5,400,567	Works under construction	56,259,332
Reserves—		Plant, motor vehicles, and tools	1,346,503
Depreciation	35,934,282	Stocks of materials	3,244,354
Loan capital repayments	16,479,289		
Reserve Fund	18,966,582	Capital outlay (see table V)	304,274,438
	71,380,153	Sundry debtors, etc.	7,372,428
	311,646,866		311,646,866

TABLE III—OPERATING RESULTS: NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

	1964-65	1964-65	1964-65
Maximum load (kilowatts)—			
North Island†	1,429,750	Revenue—	
South Island†	546,480	Per kW of maximum load	£14-2127
	*1,976,230	Per unit output	0-713d.
		Per unit sold	0-782d.
Average load (kilowatts)—		Working costs—(including administra-	
North Island	784,467	tion)—	
South Island	294,846	Per kW of maximum load	£3-2245
		Per unit output	0-162d.
Average load factor—	Per Cent	Per unit sold	0-177d.
North Island	54-87		
South Island	53-96	Capital charges—	
		Per kW of maximum load	£8-2244
Unit output (generated and purchased)—		Per unit output	0-412d.
North Island	6,871,931,765	Per unit sold	0-452d.
South Island	2,582,953,715		
Total	9,454,885,480	Total costs—	
		Per kW of maximum load	£11-4492
Units sold—		Per unit output	0-574d.
North Island	6,297,597,254	Per unit sold	0-629d.
South Island	2,323,923,712		
Total	8,621,520,966		
Units unsold (used free of charge)—			
North Island	45,047,032		
South Island	30,960,848		
Total	76,007,880		
Line losses—			
Transmission and distribution—	Units	Per Cent	
North Island	529,287,479	7-70	
South Island	228,069,155	8-82	
Total	757,356,634	8-01	

*Sum of North and South Island maximum loads—not simultaneous maximum demand.
†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 1965

	(a) Working Costs	(b) Administration Costs	(c) Capital Charges	(d) Total Costs	Total Cost per kWh	
					(e) Output	(f) Sold
Hydro-electric stations	936,421	422,397	9,269,911	10,628,729	0-3437	d.
Thermal stations	2,434,130	333,266	3,336,482	6,103,878	0-7502	
Power purchases	238,568	4,771		243,339	0-7287	
Generated and purchased	3,609,119	760,434	12,606,393	16,975,946	0-4309	0-4725
Transmission	374,460	168,910	1,736,512	2,279,882	0-0579	0-0635
Substations	563,258	254,072	1,653,349	2,470,679	0-0627	0-0688
Communications	77,302	34,869	72,819	184,990	0-0047	0-0051
Retail distribution	150,041	141,431	184,267	475,739	0-0121	0-0132
System operation	164,717	74,300		239,017	0-0061	0-0066
Totals	4,938,897	1,434,016	16,253,340	22,626,253	0-5743	0-6298
Administration (see column (b))	1,434,016	SUMMARY				
	6,372,913	Working costs	4,938,897	0-1254	0-1375	
		Administration costs	1,434,016	0-0364	0-0399	
		Capital charges	16,253,340	0-4125	0-4524	
		Total costs	22,626,253	0-5743	0-6298	

TABLE V—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY
Analysis of Capital Outlay as at 31 March 1965

	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	953,922	4,132,031	
Arapuni	1,526,108	556,996	1,081,928	3,165,032	
Waipapa	4,996,286	1,377,147	1,425,776	7,799,209	
Maractai	6,095,568	1,693,351	1,764,296	9,553,215	
Whakamaru	7,066,199	1,467,652	2,384,948	10,918,799	
Atiamuri	6,810,874	1,478,575	2,057,647	10,347,096	
Ohakuri	6,976,849	1,575,811	1,992,971	10,545,631	
Aratiatia	5,233,678	1,425,936	1,397,283	8,056,897	
Lake Taupo Control	205,165			205,165	
Kaitawa	1,208,910	188,385	314,406	1,711,701	
Tuaiti	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	979,636	197,329	320,788	1,497,753	
Cobb	4,134,025	427,613	397,267	4,958,905	
Arnold	109,996	11,469	26,667	148,132	
Lake Coleridge	552,478	188,103	251,302	991,883	
Highbank	333,788	129,216	179,901	642,905	
Lake Tekapo	2,580,271	526,446	441,987	3,548,704	
Lake Pukaki Control	2,309,991			2,309,991	
Benmore	20,592,147	257,170	2,920,333	23,769,650	
Waitaki	1,892,111	1,539,529	1,292,579	4,724,219	
Roxburgh	16,414,965	3,053,799	4,363,414	23,832,178	
Lake Wakatipu Control	692	2,747		3,439	
Lake Hawea Control	2,446,656	6,180		2,452,836	
Monowai	128,656	79,898	69,524	278,078	
	96,664,064	17,232,212	24,330,676		138,226,952
Thermal stations—					
King's Wharf		165,170	259,242	424,412	
Meremere	2,044,884*	4,137,718	11,656,865	17,839,467	
Wairakei	10,582,693†	4,598,139	4,714,821	19,895,653	
Evans Bay		77,066	223,291	300,357	
Stoke		12,341	66,961	79,302	
Dobson		42,428	95,254	137,682	
	12,627,577	9,032,862	17,016,434		38,676,873
Transmission system—					
33kV a.c.				233,239	
50kV a.c.				787,949	
66kV a.c.				2,210,520	
110kV a.c.				8,569,345	
220kV a.c.				14,092,709	
					25,893,762
Substations—					
33kV				226,744	
50kV				1,125,269	
66kV				2,166,773	
110kV				11,929,394	
220kV				9,205,505	
					24,653,685
Communication system					1,085,834
Distribution system					2,747,678
Offices, stores, land and buildings					962,081
Cost of raising loans					823,764
Interest during construction on completed works					10,353,620
					243,424,249
<i>Works Under Construction</i>					
Hydro-electric stations—					
Maractai II	3,672,789	602,282	176,811	4,451,882	
Matahina	9,616,787	283,721	913,294	10,813,802	
Tongariro	2,008,209			2,008,209	
Benmore	4,000,000	204,603	4,071,431	8,276,034	
Aviemore	2,452,604			2,452,604	
Manapouri	5,069,939			5,069,939	
Additions to completed stations	5,762	45,315	73,214	124,291	
	26,826,090	1,135,921	5,234,750		
Thermal stations—					
Marsden Point		58,160		58,160	
Wairakei	1,784,408†			1,784,408	
	1,784,408	58,160			
Transmission system—					
66kV a.c.				51,156	
110kV a.c.				270,078	
220kV a.c.				2,554,021	
500kV d.c.				7,845,473	
Substations—					
33kV				18,852	
50kV				3,250	
66kV				73,508	
110kV				941,901	
220kV and higher voltage				6,539,650	
Communication system				71,443	
Distribution system				4,235	
Offices, stores, land, and buildings				62,541	
					53,475,437
Interest on works under construction					177
Surveys and investigations of other schemes					2,783,718

TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGES, ROUTE-MILES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1965

Table with columns: No., Supply Authorities, Source of Supply, Year When Supply Commenced, Capacity of Generating Plant (Water, Steam, Oil, Total Capacity), Static Head, Voltage (Transmission, Distribution), Distribution Substations (Number, kVA), Route Miles of Lines, No.

(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 1965—continued

Table with columns: No., Supply Authorities, Source of Supply, Year When Supply Commenced, Capacity of Generating Plant (Water, Steam, Oil, Total Capacity), Static Head, Voltage (Transmission, Distribution), Distribution Substations (Number, kVA), Route Miles of Lines, No.

(For notes see page 6)

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1965—continued

No.	Supply Authorities	Maximum Load	Annual Factor	Generated					Feed Back	Net Generated	Purchased	Net Generated and Purchased	In Bulk for Retail	Sold				Units Sold (Average)				No.		
				Water			Oil							Retail to Consumers		Per Head of Population		Per Consumer		Per Head of Population			Per Consumer	
				kWh	%	kWh	kWh	%						kWh	Non-domestic	kWh	%	kWh	Non-domestic	kWh	%		kWh	Non-domestic	kWh	%
1	Christchurch	169,471	47.29	123,547,500	123,547,500	702,037,500	29,138	458,595,907	185,241,733	2,992	8,653	2,280						
2	Dunedin	99,850	47.68	..	..	..	..	..	412,892,126	..	237,629,207	33,686,362	3,378	9,134	2,281	..	..					
3	Hamilton	13,916	61.76	..	..	..	..	..	71,717,040	..	34,654,400	4,881,170	2,929	6,541	1,651	..	..					
4	Invercargill	2,980	43.22	..	..	..	..	..	82,247,920	..	46,656,391	5,582,458	2,037	6,134	84	..	..					
5	Napier	8,684	92.92	..	51,547	..	51,547	..	40,261,947	..	21,381,777	16,693,294	3,056	7,028	1,597	..	..					
6	Nelson	10,928	59.77	..	..	..	..	..	48,603,760	..	30,353,857	14,550,144	2,591	7,349	1,788	..	..					
7	New Plymouth	25,107	57.49	..	18,898,560	..	..	..	76,101,000	..	38,954,000	11,383,759	2,803	8,214	1,033	..	..					
8	Palmerton North	26,548	48.65	..	125,467	..	125,467	..	19,438,902	..	9,178,782	9,000	2,823	7,939	1,729	..	..					
9	Tairāneka	7,175	47.49	..	24,726,980	..	24,726,980	..	77,746,774	..	26,209,029	9,114	3,350	7,984	59	..	..					
10	Timaru	13,840	52.30	..	..	..	..	..	13,920,027	..	9,848,686	3,246,306	3,641	7,984	59	..	..					
11	Wellington	115,550	44.33	..	..	..	..	..	38,024,080	..	17,701,667	7,665,643	2,641	7,162	1,009	..	..					
12	Whangarei	10,318	48.66	..	..	..	..	..	448,684,700	..	247,822,990	169,411,565	3,520	8,643	84	..	..					
	TOTALS	167,173,050	18,898,560	148,451,504	2,034,806,365	2,183,257,069	2,860,918	1,309,118,750	697,140,503	174,137,698	7.97	3,030	8,257	75						
1	Bluff	1,740	41.59	..	..	..	..	..	6,340,552	..	2,590,616	3,126,236	1,681	5,368	1,684	..	..					
2	Inglwood	1,206	50.36	..	..	..	..	..	6,165,690	..	3,286,590	2,923,570	2,648	7,148	1,558	..	..					
3	Kaipara	1,642	54.40	..	..	..	..	..	9,837,000	..	5,693,760	3,412,218	2,625	7,148	1,558	..	..					
4	Lytelton	1,780	58.26	..	..	..	..	..	9,085,160	..	4,481,207	3,412,218	2,625	7,148	1,558	..	..					
5	Ohakune	1,116	45.84	..	..	..	..	..	4,481,207	..	2,397,430	1,564,456	1,624	4,796	46	..	..					
6	Racetahi	1,073	44.80	..	273	..	273	..	4,211,133	..	2,490,220	1,263,230	1,618	5,052	31	..	..					
7	Rangiora	2,434	49.58	..	..	..	..	..	10,571,440	..	2,022,730	634,338	2,504	8,226	96	..	..					
8	Rangiora	6,648	51.03	..	..	..	..	..	29,720,640	..	11,003,336	2,484,056	3,757	10,290	139	..	..					
9	Stratford	3,340	56.21	..	..	..	..	..	19,911,279	..	5,594,347	933,286	2,792	7,653	109	..	..					
10	Tairāneka	1,606	49.50	..	..	..	..	..	16,447,208	..	4,267,595	2,023,354	2,247	6,737	132	..	..					
11	Tairāneka	3,153	42.92	..	3,778,260	..	3,778,260	..	6,823,300	..	4,440,205	1,264,708	2,994	6,788	64	..	..					
12	Tairāneka	3,068	44.15	..	..	..	..	..	11,853,760	..	6,128,847	4,440,205	2,994	6,788	64	..	..					
13	Tairāneka	3,663	54.16	..	..	..	..	..	13,826,520	..	6,707,000	1,146,486	2,119	5,826	38	..	..					
14	Thames	3,465	54.16	..	..	..	..	..	8,215,795	..	5,145,350	2,484,056	2,991	5,928	106	..	..					
15	Waikanae	2,944	50.57	..	..	..	..	..	16,428,700	..	8,397,845	6,230,564	2,855	7,087	102	..	..					
16	Waikanae	4,992	48.64	..	..	..	..	..	13,041,027	..	8,268,800	3,438,070	2,855	7,087	102	..	..					
17	Whakatane	..	..	..	..	..	..	..	4,546,980	..	3,597,314	614,542	7.37	2,528	143	..	..					
	TOTALS	14,593,661	273	5,717,960	190,924,792	199,800,766	4,660	121,496,411	63,644,855	14,654,820	7.33	2,545	7,071	80						
1	Mangawhai	178	43.43	677,270	..	341,250	101,830						
	TOTALS	677,270	..	341,250	101,830						
1	Healthcote	5,066	50.16	..	..	..	..	..	22,347,840	..	11,195,200	9,192,033	4,169	12,477	179	..	..					
2	Kaikoura	967	59.89	..	..	..	..	..	5,178,800	..	2,734,595	1,670,758	1,701	4,107	26	..	..					
3	MacKenzie	720	56.26	..	..	..	..	..	3,548,700	..	1,981,131	1,934,016	4,420	19,571	22	..	..					
4	Westland	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	TOTALS	..	..	..	..	..	..	..	31,075,420	..	15,310,926	12,796,807	9.55	9,852	65	..	..					

(For notes see page 9.)

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1965—continued

Supply Authorities	Maximum Load	Annual Factor	Generated					Feed Back	Net Generated	Purchased	Net Generated and Purchased	In Bulk for Retail	Sold				Units Sold (Average)				No.		
			Water			Oil							Retail to Consumers		Per Head of Population		Per Consumer		Per Head of Population			Per Consumer	
			kWh	%	kWh	kWh	%						kWh	Non-domestic	kWh	%	kWh	Non-domestic	kWh	%		kWh	Non-domestic	kWh	%
1	Ametyst ¹	390	56.90	..	..	..	..	..	1,821,900	..	1,918,217	556,833	1,659	16.59	..	..	..	..	
2	Westland Power Ltd. ²	1,234	67.77	..	..	..	..	..	6,263,550	..	7,325,860	3,038,056	16.29	..	..	..	..	..
	TOTALS	..	..	..	..	..	..	..	8,085,450	..	9,243,077	1,343,273	14.54	..	..	..	..	..
1	Sundry Private Plants ³	..	..	..	..	..	..	..	12,100,370	..	12,100,370	..	..	..	..	..	..	..
	TOTALS	..	..	..	..	..	..	..	21,100,370	..	21,100,370	1,343,273	14.54	..	..	..	..	..
1	GOVERNMENT DEPARTMENTS	22,720	47.53	..	..	..	..	..	94,591,924	..	55,992,695	28,209,947	10.98	..	..	..	..	..
2	ROTORUA E.S. (TOURIST DEPARTMENT)	63,265	48.93	..	..	..	..	..	271,171,167	..	88,588,472	74,307,238	26.80	..	..	..	..	..
	TOTALS	..	..	..	..	..	..	..	365,763,091	..	137,467,767	102,517,185	37,189,667	10.17	..	..	..	..	
	GRAND TOTALS	..	..	..	..	..	..	..	4,714,702,654	..	3,474,005,699	1,529,460,917	15.74	..	..	..	..	..
		..	..	..	..	..	..	..	..	..	..	9,718,169,270	..	..	..	..	..	..

Units generated per head of total population .. 3.681

Units sold retail per consumer .. 8.710

Maximum load for public supply: North Island, 1,445,000 kW. Annual load factor: North Island, 55.06 per cent.
South Island, 603,200 kW. New Zealand, 2,048,200 kW.

Per 26.02.17
Amethyst. 1785

Notes—¹Includes generation by electrical supply authorities for own use and is the sum of North Island 1,445,000 kW, and South Island 603,200 kW.
²Return for year ended 31 December 1964—Purchased by Westland Electric Power Board.
³Includes adjusted units for Westland Power Ltd. due to different financial periods.
⁴In the case of individual supply authorities includes units lost in transit and distribution, units used free of charge, units supplied to March 1965 auxiliaries, etc., where applicable.
⁵Total units sold (bulk plus retail) divided by population in New Zealand Electricity Department generation.
⁶Percentage of net units generated.
⁷Units sold retail divided by population in area of supply.
⁸Purchased by Tairāneka Electric Power Board 31 October 1964.
⁹Purchased by Amethyst Electric Power Board 1 March 1965.
¹⁰Purchased by Amethyst Electric Power Board 1 February 1965.
¹¹Percentage of net units generated.
¹²Percentage of total units generated.
¹³Amethyst Electric Power Board 1 March 1965.
¹⁴Percentage of net units generated.
¹⁵Percentage of total units generated.
¹⁶Amethyst Electric Power Board 1 February 1965.
¹⁷See notes 13 and 14.

12.30
17.7
52.1
8.218

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1965—continued

No.	Supply Authorities	Capital Outlay			Revenue from Sale of Electricity						Working Costs			Capital Charges			Total Costs		
		Per Head of Population	Per Consumer	£(N.Z.)	Per Unit (Including Bulk Sales)	Per Unit (Retail Sales)	Per Unit (Domestic Supply)	Per Unit (Non-domestic Supply)	Per Head of Population ¹	Per Retail Consumer	Per kW of Maximum Demand	Per Unit Sold ²	Per kW of Maximum Demand	Per Unit Sold	Per kW of Maximum Demand	Per Unit Sold	Per kW of Maximum Demand	Per Unit Sold	
1	Amethyst ³	46.13	139.71	£(N.Z.)	2.264	1.775	1.001	18.32	£(N.Z.)	30.30	£(N.Z.)	0.771	£(N.Z.)	5.96	£(N.Z.)	1.007	£(N.Z.)	19.31	
2	Westland Power Ltd.	28.64	129.65	131.53	1.871	1.812	2.406	14.02	59.51	37.12	1.680	5.69	1.603	7.13	1.680	35.92	44.98		
1	GOVERNMENT DEPARTMENTS	39.61	106.30	106.30	1.648	1.187	2.564	14.43	39.76	25.45	1.323	4.90	1.640	7.19	1.640	25.33	37.19		
2	Rotorua E.P.S.	..	..	..	1.426	1.643	1.788	17.09	50.36	17.56	..	..	..	..	..	..	..
1	Southland E.P.S.	..	..	..	1.483	1.457	2.001	16.08	46.15	..	..	..	..	..	..	..	..
1	Averages for all supply authorities ⁴	158.73	443.90	443.90	1.319	1.081	1.695	16.23	47.86	..	..	..	..	..	..	..	..
1	Averages for 1964	148.24	418.89	418.89	1.324	1.103	1.632	16.21	45.32	..	..	..	..	..	..	..	..
2	"	139.47	397.62	397.62	1.346	1.116	1.562	14.97	46.37	..	..	..	..	..	..	..	..
3	"	132.65	380.46	380.46	1.340	1.088	1.704	13.30	38.13	..	..	..	..	..	..	..	..
4	"	116.15	342.80	342.80	1.357	1.108	1.742	12.74	37.40	..	..	..	..	..	..	..	..
5	"	108.63	323.75	323.75	1.394	1.134	1.814	11.81	35.14	..	..	..	..	..	..	..	..
6	"	101.53	305.27	305.27	1.114	0.964	1.114	9.56	28.75	..	..	..	..	..	..	..	..
7	"	92.18	279.75	279.75	1.124	0.976	1.124	8.64	26.22	..	..	..	..	..	..	..	..
8	"	83.92	258.65	258.65	1.121	0.976	1.121	8.40	25.89	..	..	..	..	..	..	..	..
9	"	74.46	239.79	239.79	1.128	0.976	1.128	7.91	24.79	..	..	..	..	..	..	..	..

Notes:—Returns for year ended 31 December 1964. Purchased by Westland Electric Power Board 4 March 1965. Excludes sundry private plants (Table VII) who do not furnish returns. Excludes cost of generating feed-back. Purchased by Taranaki Electric Power Board 31 October 1964. Purchased by Waikato-Rangitikei Electric Power Board 1 March 1965. Purchased by Amethyst Electric Power Board 1 February 1965. Figures incomplete. ¹See notes 7 and 8 above. ²Previous years' figures calculated on Distribution Capital only.

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES AND WATER-HEATERS, FOR THE YEAR ENDED 31 MARCH 1965

No.	Supply Authority	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	Ratio, Number of Ranges to Number of Domestic Consumers	Per Cent	Domestic	Total	Ratio, Number of Water-heaters to Number of Domestic Consumers	
1	NEW ZEALAND ELECTRICITY DEPARTMENT
2	North Island ⁵
3	South Island ⁵
1	POWER BOARDS
2	Amethyst ⁷	24,600	35.28	1,018	8,679	6,173	80.58	8,384	9,256	109.44	5.70	5.70	
3	Ashburton	391,940	35.80	22,818	140,310	91,624	77.98	101,058	101,058	86.01	57.50	57.50	
4	Auckland	35,850	32.16	1,627	11,528	7,100	71.71	6,374	8,359	64.38	4.90	4.90	
5	Bay of Plenty	35,120	23.93	1,220	8,405	5,423	75.48	5,681	6,804	79.07	11.59	11.59	
6	Buller	9,430	38.71	666	3,650	746	25.00	693	896	23.22	9.95	9.95	
7	Cambridge	9,730	36.24	402	3,526	2,376	76.06	2,770	3,175	88.67	10.02	10.02	
8	Central Canterbury	30,370	33.27	484	10,104	7,913	82.25	7,790	8,740	80.98	8.37	8.37	
9	Central Hawke's Bay	13,970	36.48	683	5,097	4,176	94.61	3,937	3,994	89.19	4.32	4.32	
10	Central Waikato	72,530	30.75	2,164	22,303	15,108	75.02	15,183	17,897	75.39	9.47	9.47	
11	Dannevirke	13,410	34.60	639	4,640	3,100	77.48	2,971	3,428	74.26	7.99	7.99	
12	Egmont	28,060	32.84	1,349	9,216	6,280	79.83	6,185	8,189	88.62	11.27	11.27	
13	Franklin	31,840	33.34	1,139	10,616	7,912	83.48	7,457	9,308	78.68	10.07	10.07	
14	Golden Bay	3,660	39.37	163	1,441	812	63.54	940	965	73.55	4.47	4.47	
15	Grey	19,660	34.89	1,110	6,860	3,749	65.20	2,753	2,973	47.88	13.72	13.72	
16	Hawke's Bay	74,850	34.31	3,448	25,683	19,408	87.28	18,599	19,449	83.65	12.32	12.32	
17	Horowhenua	38,130	46.89	2,408	17,881	11,847	76.57	11,951	13,186	77.24	13.75	13.75	
18	Hutt Valley	160,850	29.82	4,215	47,963	37,402	85.49	39,318	40,277	89.87	32.92	32.92	
19	King Country	14,590	25.48	307	3,718	1,607	47.11	1,540	1,689	45.15	3.49	3.49	
20	Malvern	6,470	24.64	185	1,594	870	61.75	819	821	58.13	3.87	3.87	
21	Manawatu-Oroua	34,290	32.26	978	11,062	8,343	82.73	8,103	9,393	80.35	11.74	11.74	
22	Marlborough	26,200	33.73	1,382	8,837	4,759	63.84	4,869	5,143	65.31	11.72	11.72	
23	North Auckland	39,540	37.85	1,859	14,967	10,898	83.14	9,455	13,057	72.13	4.74	4.74	
24	North Canterbury	19,530	38.84	635	7,586	4,935	70.99	4,966	5,577	71.44	4.68	4.68	
25	Otago	28,020	39.12	1,322	10,961	4,280	44.40	4,470	4,699	46.37	4.59	4.59	
26	Otago Central	14,150	46.89	1,380	6,636	3,273	62.27	3,177	3,538	60.45	6.55	6.55	
27	Poverty Bay	43,140	36.13	3,182	15,588	9,016	72.67	8,765	9,426	70.65	11.14	11.14	
28	South Canterbury	32,090	34.81	1,170	7,633	6,160	59.19	5,539	5,933	53.22	5.84	5.84	
29	Taranaki	21,080	34.05	1,106	7,178	4,589	75.57	4,259	6,003	70.14	7.45	7.45	
30	Tararua	9,700	38.22	546	3,707	3,049	96.46	2,465	3,061	77.98	5.21	5.21	
31	Tairāngia	41,190	36.56	1,648	15,058	12,105	90.27	11,570	13,097	86.28	10.00	10.00	
32	Te Awamutu	20,390	30.04	756	6,126	5,305	98.79	4,257	5,472	79.27	10.92	10.92	
33	Thames Valley	71,910	41.16	2,543	29,599	17,850	65.97	16,186	21,985	59.82	9.35	9.35	
34	Waimea	33,750	32.66	997	11,025	8,649	86.25	8,955	9,495	89.30	9.93	9.93	
35	Waikato	35,630	39.23	2,841	13,979	9,753	87.56	10,214	10,260	91.70	11.44	11.44	

(For notes see page 17.)

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES AND WATER-HEATERS, FOR THE YEAR ENDED 31 MARCH 1965—continued

No.	Supply Authority	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	Number	Per Cent	Domestic	Total	Ratio, Number of Water-heaters to Number of Domestic Consumers		
36	POWER BOARDS—continued											
37	Waikare	4,170	40.02	219	1,669	996	68.69	1,185	1,209	81.72	2.82	36
38	Waikato	7,510	29.64	138	2,226	1,230	58.91	1,178	1,242	56.42	4.69	37
39	Waikaiti	28,140	38.59	1,707	10,861	6,656	72.71	6,468	6,870	70.65	11.41	38
40	Waitemata	163,500	41.18	7,004	67,336	47,050	77.98	49,480	49,480	82.01	17.24	39
41	Waitemata	19,770	35.77	1,043	7,073	3,942	65.37	3,748	4,571	82.16	6.75	40
42	Wanganui-Rangitikei	66,540	34.08	3,063	22,679	14,082	71.79	14,311	15,483	72.95	11.94	41
42	Westland	3,220	36.52	237	1,176	581	61.87	559	587	59.53	21.00	42
		1,778,540	35.41	81,394	629,713	421,127	76.80	428,582	466,045	78.16	11.79	
1	CITY COUNCILS											
2	Christchurch	215,150	34.54	8,307	74,319	55,328	83.82	58,318	61,116	88.34	37.18	1
3	Dunedin	112,250	36.98	5,040	41,514	21,473	58.87	27,313	28,662	74.88	43.06	2
4	Hamilton	22,820	44.78	2,733	10,218	4,036	53.92	5,130	5,540	68.54	38.56	3
5	Invercargill	37,630	33.22	1,795	12,499	4,665	43.58	4,699	5,046	43.90	65.44	4
6	Napier	12,500	44.37	1,119	5,436	2,572	59.58	2,968	3,036	68.75	57.83	5
7	Nelson	17,330	35.26	1,167	6,110	2,465	49.87	4,208	4,702	85.13	69.43	6
8	New Plymouth	41,040	34.13	1,737	14,006	8,924	72.74	10,875	11,941	88.67	27.68	7
9	Palmerston North	41,200	34.86	2,049	14,361	8,750	71.07	10,492	10,793	85.22	39.89	8
10	Tauranga	6,680	44.56	952	2,977	1,797	88.74	1,900	2,057	93.83	30.69	9
11	Timaru	21,100	36.88	1,311	7,781	4,441	68.64	4,847	5,100	74.91	63.26	10
12	Wellington	118,260	40.82	8,926	48,272	14,998	38.12	27,310	27,310	69.41	62.45	11
12	Whangarei	16,040	34.24	1,206	5,492	3,927	91.62	3,745	3,887	87.37	46.54	12
		662,000	36.70	36,342	242,985	133,376	64.54	161,805	169,140	78.30	43.73	
1	BOROUGH COUNCILS											
2	Bluff	3,400	31.32	189	1,065	371	42.35	242	262	27.62	59.17	1
3	Ingleswood	2,120	33.63	113	713	485	80.83	475	490	81.66	29.71	2
4	Kaipara	2,870	36.72	145	1,054	796	79.87	750	769	82.51	58.55	3
5	Lytelton	3,140	38.79	196	1,218	609	59.59	750	779	73.38	58.00	4
6	Ohakune	2,440	33.85	94	826	255	34.84	325	353	44.40	6.45	5
7	Raetihi	2,320	32.03	171	743	236	41.26	296	296	51.75	6.04	6
8	Rangiora	3,830	39.87	238	1,527	991	76.88	1,166	1,201	90.46	72.71	7
9	Riccarton	7,350	36.72	236	2,699	1,881	76.77	2,081	2,119	84.49	42.84	8
10	Stratford	5,550	35.64	367	1,978	1,269	78.77	1,276	1,340	53.46	53.46	9
10	Tanape	2,800	33.36	213	934	459	63.66	456	467	62.41	42.45	10

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES AND WATER-HEATERS, FOR THE YEAR ENDED 31 MARCH 1965—continued

No.	Supply Authority	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	Number	Per Cent	Domestic	Total	Ratio, Number of Water-heaters to Number of Domestic Consumers		
11	BOROUGH COUNCILS—contd.											
12	Taumarunui	3,530	44.11	249	1,557	689	52.68	655	720	50.08	38.92	11
13	Taupo	10,170	36.37	450	3,699	2,190	67.40	2,148	2,254	66.11	13.07	12
14	Tc Aroha	3,190	40.34	317	1,287	702	72.37	750	779	77.32	26.81	13
15	Thames	5,480	36.20	344	1,984	1,388	84.63	1,344	1,355	81.95	40.49	14
16	Waikato	4,630	37.73	390	1,747	1,207	88.95	1,148	1,207	84.60	42.61	15
17	Waitara	8,270	30.91	496	2,556	1,946	94.46	2,072	2,022	98.15	39.32	16
17	Whakatane	71,090	35.99	4,208	25,587	15,414	72.10	15,934	16,415	74.53	25.56	17
1	TOWN BOARDS											
1	Mangaweka											1
1	COUNTY COUNCILS											
2	Heathcote	4,890	33.42	54	1,634	1,580	100.00	1,284	1,307	81.27	17.2	1
3	Kaitiaki	2,590	40.62	187	1,052	409	47.28	382	448	44.16	10.21	2
4	Westland	750	22.13	27	166	115	82.73	155	167	111.51	0.94	3
		8,230		268	2,852	2,104		1,821	1,922		7.61	4
1	COMPANIES											
2	Amethyst Power Ltd. ⁴	960	25.62	32	278	97	39.43	163	163	66.26	4.15	1
2	Westland Power Ltd. ¹	3,440	22.09	100	760	207	31.36	140	257	21.21	4.81	2
1	GOVERNMENT DEPARTMENTS											
2	Rotorua E.S. (Tourist Department)	40,080	36.29	2,517	14,547	8,627	71.71	8,425	9,238	70.03	14.75	1
2	Southland E.P.S. (New Zealand Electricity Department)	65,020	33.94	2,872	22,069	10,881	56.68	10,011	10,659	52.15	5.41	2
		105,100	34.84	5,389	36,616	19,508	62.47	18,496	19,897	59.04	7.23	
	GRAND TOTALS	2,629,360	35.75	127,752	940,185	593,211	73.02	628,330	675,362	77.34	13.09	

Notes—¹Return for year ended 31 December 1964, purchased by Westland Electric Power Board 4 March 1965. ²Purchased by Amethyst Electric Power Board 1 March 1965. ³Figures included in Board statistics. ⁴Purchased by Amethyst Electric Power Board 31 October 1964. ⁵Figures included in Board statistics. ⁶Figures included in Amethyst Power Ltd. statistics. ⁷Figures included in Amethyst Power Ltd. statistics. ⁸Figures included in Amethyst Power Ltd. statistics. ⁹Figures included in Amethyst Power Ltd. statistics. ¹⁰Figures included in Amethyst Power Ltd. statistics. ¹¹Figures included in Amethyst Power Ltd. statistics. ¹²Figures included in Amethyst Power Ltd. statistics. ¹³Figures included in Amethyst Power Ltd. statistics. ¹⁴Figures included in Amethyst Power Ltd. statistics. ¹⁵Figures included in Amethyst Power Ltd. statistics. ¹⁶Figures included in Amethyst Power Ltd. statistics. ¹⁷Figures included in Amethyst Power Ltd. statistics.

TABLE XI—STATISTICS RELATING TO ELECTRICIANS REGISTRATION BOARD, YEAR ENDED 31 MARCH 1965

(The figures in parentheses are for the previous year)

1. Number of board meetings: 11 (12)

2. Registrations—

	During Year	Total	Current
Inspectors	42 (52)	961 (919)	617 (619)
Electricians	395 (406)	9,809 (9,414)	9,594 (9,260)
Electrical servicemen	12 (19)	477 (465)	424 (416)
Electrical (radio) servicemen	130 (125)	1,793 (1,663)	1,754 (1,626)
Limited registration ¹	146 (126)	2,854 (2,708)	2,494 (2,447)
3. Provisional licences ²	500 (446)	4,168 (3,668)	.. .. .
4. Permits to assist	83 (159)	1,521 (1,438)	.. .. .
5. Applications for ruling on experience	170 (245)	.. .. .	.. .. .

6. Examinations (two)—

	Candidates	Passed, Percentage	Highest Marks
Electricians written, theory paper	659 (653)	61 (64)	97 (98)
Electricians written, regulations paper	526 (678)	72 (96)	99 (100)
Electricians practical (two examinations)	724 (610)	61 (68)	93 (97)
Electrical servicemen and limited registration, written	467 (380)	80 (70)	91 (94)
Electrical servicemen and limited registration, practical (two examinations)	409 (296)	81 (70)	94 (98)

7. Defective work reports, 7 (5); endorsements made, 1 (2); endorsements removed, 1 (nil).

8. Breach of Act reports, 18 (9); Prosecutions authorised, 11 (12).

9. Appeals, 2 (nil).

NOTES—¹Includes refrigeration servicemen, 17; assembly and repair of portable domestic appliances, 9; servicing calculating machines and like office appliances, 20; replacement of fuse links, connection and replacement flexible cords, earthing of appliances, 7; supply authority work, 32; radio experimenter, 2; New Zealand Broadcasting Corporation, 8; Department of Civil Aviation, extended limits, 8; radio servicemen's limits restricted to Department of Civil Aviation, 18; Post Office radio technician, 8; Post Office telephone exchange technician, 1; Post Office telephone exchange technician, extended limits, 3; Post Office telegraph technician, 2; automatic telephone and impulse signalling equipment, 3; servicing of electrical instruments and process control equipment, 1; assembly and repair of portable appliances, 1; electrical wiring for radio sets, 1; assembly and repair of apparatus manufactured for sale, 1; servicing Black and Decker products, 1; plant maintenance at factory of Arthur Ellis and Co. Ltd., Hornby, 1; assembly and repair of teletypewriter machines and associated equipment, 1; cinematograph operator, 1; luminous discharge tubes, 1. ²149 (114) were issued to apprentices.