

ANNUAL STATISTICS IN RELATION TO ELECTRIC POWER DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1962

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.	42	4	10	56	1
2	Installed capacity	kW	1,480,526	320,245	13,828	1,814,599	2
3	Generation	kWh	5,946,466,074	1,452,578,460	259,199	7,399,303,733	3
4	Maximum load	kW				1,554,400	4
5	Retail sales	kWh				6,169,496,994	5
6	Consumers	No.				859,683	6
7	Population	No.				2,477,297	7
8	Capital outlay, generation, transmission, and distribution	£				327,067,646	8
9	Revenue retail sales of electricity	£		34,449,497			9
10	Revenue from other sources	£		733,244			10
11	Total revenue	£				35,182,741	11
12	Working costs	£		11,955,249			12
13	Capital charges	£		18,275,678			13
14	Total costs	£				30,230,927	14
15	Net profit	£				4,951,814	15
16	Working costs per kWh sold retail	d		0.4651			16
17	Capital charges per kWh sold retail	d		0.7109			17
18	Total costs per kWh sold retail	d				1.1760	18
19	Total revenue per kWh sold retail	d				1.3686	19
20	Revenue retail sales of electricity per kWh sold retail	d				1.3401	20
21	Generation per head of total population	kWh				2,987	21
22	Retail sales per consumer	kWh				7,176	22
23	Capital outlay per kW installed capacity	£				180.24	23
24	Ratio of capital charges to capital outlay	%				5.588	24
25	Electrical fires reported during year	No.				164	25
26	Fatal electrical accidents during year	No.				20	26
27	Electric ranges	No.				517,796	27
28	Electric water heaters	No.				583,731	28

TABLE I—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

Summarised Gross Revenue, Net Revenue, and Appropriation Accounts for Year Ended 31 March 1962

	£	Revenue—	£
Working costs	5,641,188	Sales of energy	20,434,441
Capital charges—		Rents and miscellaneous receipts	139,711
Interest	9,430,695		
Depreciation	2,282,977		
Loan capital repayments	1,314,822		
	13,028,494		
Total costs (see table IV)	18,669,682		
Transfer to Reserve Fund	1,904,470		
	20,574,152		20,574,152

TABLE II—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

Summarised Balance Sheet as at 31 March 1962

	£		£
Loan liability	200,673,413	Completed works	189,200,402
Sundry creditors, etc.	1,482,601	Works under construction	41,933,244
Reserves—		Plant, motor vehicles, and tools	1,292,787
Depreciation	25,059,749	Stocks of materials	2,565,845
Loan capital repayments	11,742,271		
Reserve Fund	4,925,402	Capital outlay (see table V)	234,992,278
Stores insurance reserve	33,890	Sundry debtors, etc.	8,925,048
	41,761,312		

TABLE III—OPERATING RESULTS: NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

	1961-62		1961-62
Maximum load (kilowatts)—		Revenue—	
North Island†	1,054,800	Per kW of maximum load	£13·7015
South Island†	436,600	Per unit output	0·685d.
	*1,491,400	Per unit sold	0·753d.
Average load (kilowatts)—		Working costs—(including administration)—	
North Island	584,042	Per kW of maximum load	£3·7825
South Island	232,730	Per unit output	0·189d.
Average load factor—	Per Cent	Per unit sold	0·208d.
North Island	55·37	Capital charges—	
South Island	53·31	Per kW of maximum load	£8·7357
Unit output (generated and purchased)—		Per unit output	0·437d.
North Island	5,116,216,088	Per unit sold	0·480d.
South Island	2,038,718,806	Total costs—	
Total	7,154,934,894	Per kW of maximum load	£12·5182
Units sold—		Per unit output	0·626d.
North Island	4,690,472,713	Per unit sold	0·688d.
South Island	1,820,277,617		
Total	6,510,750,330		
Units unsold (used free of charge)—			
North Island	36,833,838		
South Island	25,920,489		
Total	62,754,327		
Line losses—			
Transmission and distribution—	Units	Per Cent	
North Island	388,909,537	7·60	
South Island	192,520,700	9·44	
Total	581,430,237	8·13	

*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 1962

	(a) Working Costs	(b) Administration Costs	(c) Capital Charges	(d) Total Costs	Total Cost per kWh	
					(e) Output	(f) Sold
Hydro-electric stations	£780,978	£359,402	£7,340,365	£8,480,745	0·3608	.. .. .
Thermal stations	2,277,468	257,564	2,479,234	5,014,266	0·8325	.. .. .
Power purchases	194,780	3,896	.. .. .	198,676	0·7015	.. .. .
Generated and purchased	3,253,226	620,862	9,819,599	13,693,687	0·4593	0·5048
Transmission	338,733	155,883	1,503,855	1,998,471	0·0670	0·0737
Substations	507,260	233,439	1,456,581	2,197,280	0·0737	0·0810
Communications	69,624	32,041	72,969	174,634	0·0059	0·0064
Retail distribution	117,914	113,063	175,490	406,467	0·0136	0·0150
System operation	136,381	62,762	.. .. .	199,143	0·0067	0·0073
Totals	4,423,138	1,218,050	13,028,494	18,669,682	0·6262	0·6882
Administration (see column b)	1,218,050	SUMMARY				
	5,641,188	Working costs	4,423,138	0·1484	0·1630	
		Administration costs	1,218,050	0·0408	0·0449	
		Capital charges	13,028,494	0·4370	0·4803	
		Total costs	18,669,682	0·6262	0·6882	

TABLE V—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY
Analysis of Capital Outlay as at 31 March 1962

	Headworks	Station Buildings and Villages	Generating Plant and Machinery	Total	Grand Total
Completed Works					
Hydro-electric stations—					
Karapiro	2,574,402	604,382	954,752	4,133,536	£
Arapuni	1,525,698	555,998	1,095,952	3,177,648	
Waipapa	4,939,239	1,364,536	1,404,533	7,708,308	
Maraetai	6,087,326	1,669,825	1,749,878	9,507,029	
Whakamaru	6,941,861	1,326,890	2,221,156	10,489,907	
Atiamuri	6,746,737	1,419,574	1,558,245	9,724,556	
Ohakuri	6,795,141	1,520,743	1,966,552	10,282,436	
Lake Taupo Control	205,165	.. .. .	.. .. .	205,165	
Kaitawa	1,208,910	188,385	314,406	1,711,701	
Tuairua	275,344	335,502	482,752	1,093,598	
Piripaua	756,567	107,849	212,709	1,077,125	
Lake Waikaremoana Control	463,377	.. .. .	.. .. .	463,377	
Mangahao	979,637	196,478	320,494	1,496,609	
Cobb	4,134,025	427,612	397,267	4,958,904	
Arnold	109,996	11,211	26,667	147,874	
Lake Coleridge	552,479	188,507	250,910	991,896	
Highbank	333,788	129,216	179,901	642,905	
Lake Tekapo	2,560,397	525,649	441,887	3,527,933	
Lake Pukaki Control	2,309,991	.. .. .	.. .. .	2,309,991	
Waitaki	1,877,945	1,539,587	1,288,817	4,706,349	
Roxburgh	15,683,690	3,054,600	3,952,386	22,690,676	
Lake Wakatipu Control	692	2,747	.. .. .	3,439	
Lake Hawea Control	2,403,705	3,450	.. .. .	2,407,155	
Monowai	128,656	81,900	70,289	280,845	
	69,594,768	15,254,641	18,889,553	.. .. .	103,738,962
Thermal stations—					
King's Wharf .. .. .	.. .. .	165,170	259,243	424,413	
Meremere	1,916,483	4,759,994	11,073,975	17,750,452	
Wairakei	5,884,202	2,654,678	807,499	9,346,379	
Evans Bay .. .. .	.. .. .	77,066	233,292	300,358	
Stoke .. .. .	.. .. .	12,341	66,961	79,302	
Dobson .. .. .	.. .. .	43,988	94,648	138,636	
	7,800,685	7,713,237	12,525,618	.. .. .	28,039,540
Transmission system—					
33 kV a.c. lines .. .. .	.. .. .	.. .. .	.. .. .	233,284	
50 kV a.c. lines .. .. .	.. .. .	.. .. .	.. .. .	821,157	
66 kV a.c. lines .. .. .	.. .. .	.. .. .	.. .. .	2,083,371	
110 kV a.c. lines .. .. .	.. .. .	.. .. .	.. .. .	8,396,122	
220 kV a.c. lines .. .. .	.. .. .	.. .. .	.. .. .	9,719,546	
	.. .. .	.. .. .	.. .. .	.. .. .	21,253,480
Substations—					
33 kV .. .. .	.. .. .	.. .. .	.. .. .	108,857	
50 kV .. .. .	.. .. .	.. .. .	.. .. .	1,056,053	
66 kV .. .. .	.. .. .	.. .. .	.. .. .	1,772,941	
110 kV .. .. .	.. .. .	.. .. .	.. .. .	10,581,440	
220 kV .. .. .	.. .. .	.. .. .	.. .. .	7,066,079	
	.. .. .	.. .. .	.. .. .	.. .. .	20,585,370
Communication system .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	1,031,242
Distribution system .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2,480,142
Offices, stores, land, and buildings .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	819,280
Cost of raising loans .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	828,633
Interest during construction on completed works .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	10,423,753
	.. .. .	.. .. .	.. .. .	.. .. .	189,200,402
Works Under Construction					
Hydro-electric stations—					
Maraetai II	3,092,396	954,022	582,232	4,628,650	
Atiamuri .. .. .	.. .. .	.. .. .	493,309	493,309	
Aratiatia	2,646,609	602,282	239,144	3,488,035	
Matahina	2,228,245	.. .. .	35,483	2,263,728	
Benmore	12,138,186	20,429	245,200	12,403,815	
Roxburgh .. .. .	.. .. .	727,978	408,976	1,136,954	
Additions to completed stations	7,835	1,435	42,797	52,067	
	20,113,271	2,306,146	2,047,141	.. .. .
Thermal stations—					
Wairakei	5,770,942	1,656,672	176,269	7,603,883	
Transmission system—					
110 kV a.c. lines .. .. .	.. .. .	.. .. .	.. .. .	119,543	
220 kV a.c. lines .. .. .	.. .. .	.. .. .	.. .. .	3,963,990	
500 kV d.c. lines .. .. .	.. .. .	.. .. .	.. .. .	480,998	
Substations—					
33 kV .. .. .	.. .. .	.. .. .	.. .. .	13,584	
50 kV .. .. .	.. .. .	.. .. .	.. .. .	52,641	
60 kV .. .. .	.. .. .	.. .. .	.. .. .	85,186	
110 kV .. .. .	.. .. .	.. .. .	.. .. .	1,173,908	
220 kV .. .. .	.. .. .	.. .. .	.. .. .	1,185,537	
Communication system .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	8,213
Distribution system .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	19,444
Offices, stores, land, and buildings .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	79,583
	.. .. .	.. .. .	.. .. .	.. .. .	39,253,068
Interest on works under construction .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	16,236
Surveys and investigations of other schemes .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	2,663,940
	.. .. .	.. .. .	.. .. .	.. .. .	41,933,244

TABLE VIII—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1962

Table with columns: authorities, Capital Outlay, Revenue, Working Costs, Capital Charges, Net Results, and No. Includes sub-columns for Loan Liability, Sales of Energy, Cost of Power, Management and General, Interest, Sinking Fund, Depreciation, Renewals, Total Annual Costs, Surplus, and Deficit.

Table with columns: authorities, Capital Outlay, Revenue, Working Costs, Capital Charges, Net Results, and No. Includes sub-columns for Loan Liability, Sales of Energy, Cost of Power, Management and General, Interest, Sinking Fund, Depreciation, Renewals, Total Annual Costs, Surplus, and Deficit.

1 Return for year ended 31 December 1961. 2 Actual running costs only, including fuel, wages, stores, repairs, and maintenance. 3 Includes cost of street lighting. 4 Purchased. 5 Now includes all stocks and materials. 6 Purchases from sources other than New Zealand Electricity Department or supply authorities. 7 Miscellaneous. 8 Excludes management, general, and capital charges. 9 Feed-back.

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1962

No.	Supply Authorities	Revenue from Sale of Electricity						Working Costs			Capital Charges			Total Costs						
		Capital Outlay		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 kW. of Maximum Demand		Per kW. of Maximum Demand		Per kW. of Maximum Demand		
		£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	No.
1	NEW ZEALAND ELECTRICITY DEPARTMENT																			
2	Ashburton	57.16	163.97	1.368	1.046	2.611	14.80	42.45	29.77	0.949	0.949	20.65	0.320	6.07	6.06	27.62	1.270	24.02	1	
3	Auckland	34.67	103.02	1.143	0.931	2.097	12.50	37.14	19.98	0.983	0.983	17.15	0.155	6.95	6.83	19.87	1.137	35.84	2	
4	Banks Peninsula	50.70	139.95	2.061	1.414	2.207	20.85	33.77	34.31	1.169	1.169	24.45	0.375	6.55	6.48	34.02	2.044	34.16	3	
5	Bay of Islands	37.03	171.15	1.059	1.099	1.175	15.32	70.80	24.37	0.881	0.881	19.53	0.098	2.16	4.09	21.70	0.979	22.69	4	
6	Buller	37.40	109.34	1.475	1.474	1.431	12.98	37.94	27.70	1.085	1.085	20.63	0.225	4.31	5.40	25.14	1.309	32.52	5	
7	Central Hawke's Bay	30.23	86.32	1.412	1.412	1.077	13.42	38.30	23.94	1.145	1.145	19.41	0.140	3.37	4.40	21.77	1.285	25.57	6	
8	Central Otago	54.18	154.57	1.555	1.555	1.908	19.72	42.00	26.05	1.139	1.139	19.08	0.321	5.39	5.62	24.47	1.460	25.57	7	
9	Central Waikato	36.64	125.23	1.500	1.233	1.984	13.75	41.06	24.93	1.147	1.147	19.07	0.269	4.47	4.41	23.54	1.416	31.56	8	
10	Dannevirke	49.34	143.61	1.631	1.362	2.303	13.70	40.10	27.55	1.251	1.251	21.13	0.258	4.35	4.41	25.48	1.509	25.83	9	
11	Franklin	47.84	144.41	1.445	1.446	1.229	14.17	42.77	27.34	1.081	1.081	19.51	0.295	5.58	6.05	25.09	1.326	27.24	10	
12	Golden Bay	37.16	235.15	0.878	0.878	0.775	29.85	80.62	20.14	0.772	0.772	18.59	0.118	3.02	4.69	21.52	0.840	35.65	11	
13	Hawke's Bay	42.92	235.55	1.523	1.523	1.648	13.72	40.14	30.44	1.167	1.167	18.50	0.159	3.40	3.57	26.90	1.350	28.34	12	
14	Horewakaia	39.26	117.08	1.197	1.197	1.031	12.59	37.56	24.93	1.147	1.147	18.21	0.159	2.90	4.79	21.11	1.156	35.02	13	
15	Horewakaia	41.74	92.23	1.531	1.250	2.170	14.32	31.65	28.49	1.053	1.053	19.61	0.252	4.70	5.66	24.31	1.306	29.27	14	
16	Hutt Valley	23.47	78.60	1.378	1.060	1.965	14.10	47.23	22.30	1.125	1.125	18.20	0.137	2.21	5.06	20.41	1.262	55.00	15	
17	King Country	78.60	330.91	2.000	2.000	2.411	10.44	48.88	30.30	1.248	1.248	20.04	0.465	5.45	5.52	29.50	1.936	28.07	16	
18	Malvern	52.76	159.26	1.093	1.093	1.403	12.60	40.23	35.71	1.238	1.238	22.11	0.465	5.45	5.52	29.50	1.936	28.07	17	
19	Manawatu-Oroua	46.37	159.26	1.093	1.093	1.403	12.60	40.23	35.71	1.238	1.238	22.11	0.465	5.45	5.52	29.50	1.936	28.07	18	
20	Marlborough	47.03	143.43	1.671	1.206	2.399	15.87	38.18	28.41	1.080	1.080	19.40	0.418	7.51	7.04	30.42	1.071	20.36	19	
21	North Auckland	63.84	185.10	1.211	1.211	1.209	16.39	45.45	26.62	0.899	0.899	19.75	0.240	5.26	5.87	25.01	1.138	27.87	20	
22	North Canterbury	49.80	131.45	1.260	1.260	1.274	13.98	35.79	31.29	1.179	1.179	18.91	0.221	4.40	5.95	27.31	1.173	20.73	21	
23	Opunake	57.93	198.65	1.675	1.209	2.026	16.35	36.75	31.29	1.179	1.179	18.91	0.221	4.40	5.95	27.31	1.173	20.73	22	
24	Otago	61.60	157.37	1.895	1.671	2.323	14.91	38.01	32.62	1.151	1.151	19.82	0.502	8.65	6.41	26.47	1.653	24.33	23	
25	Otago Central	79.62	180.00	1.133	0.900	1.758	14.91	38.01	32.62	1.151	1.151	19.82	0.502	8.65	6.41	26.47	1.653	24.33	24	
26	Powerty Bay	42.34	122.92	1.529	1.188	2.490	11.25	32.63	27.35	1.153	1.153	20.62	0.322	5.75	5.60	26.38	1.475	26.60	25	
27	South Canterbury	51.53	152.06	1.322	1.322	1.823	13.14	37.51	26.43	1.070	1.070	20.18	0.288	4.22	6.01	25.28	1.367	36.66	26	
28	South Taranaki	30.42	90.96	1.255	0.826	1.910	13.15	39.31	25.32	1.094	1.094	18.56	0.326	6.18	9.37	24.66	1.271	36.45	27	
29	Spring Ellersmere	46.91	159.72	1.277	1.277	1.676	13.36	37.51	26.43	1.070	1.070	20.18	0.288	4.22	6.01	25.28	1.367	36.66	28	
30	Taranaki	88.91	201.82	1.359	1.079	1.656	16.26	51.54	24.33	0.924	0.924	19.18	0.277	3.51	5.79	22.07	1.153	39.40	29	
31	Taranaki	61.02	163.74	1.002	1.002	1.494	12.05	38.00	23.51	1.193	1.193	20.69	0.397	4.24	6.87	24.33	1.444	39.49	30	
32	Taranaki	49.78	161.10	1.504	1.165	1.915	14.52	46.98	29.47	1.039	1.039	20.36	0.397	4.24	6.87	24.33	1.444	39.49	31	
33	Tauranga	41.30	117.07	1.407	1.165	1.915	14.52	46.98	29.47	1.039	1.039	20.36	0.397	4.24	6.87	24.33	1.444	39.49	32	
34	Te Awamutu	42.40	131.62	1.535	1.165	1.915	14.52	46.98	29.47	1.039	1.039	20.36	0.397	4.24	6.87	24.33	1.444	39.49	33	
35	Thames Valley	37.32	96.93	1.137	1.137	1.178	13.36	37.51	26.43	1.070	1.070	20.18	0.288	4.22	6.01	25.28	1.367	36.66	34	
36	Waikanae	45.51	143.74	1.088	1.088	1.316	12.05	38.00	23.51	1.193	1.193	20.69	0.397	4.24	6.87	24.33	1.444	39.49	35	
37	Waikanae	39.12	108.03	1.450	1.450	1.417	14.12	39.99	26.51	1.139	1.139	21.05	0.228	4.22	6.01	25.28	1.367	36.66	36	
38	Waikanae	11.58	31.13	1.377	1.377	2.019	13.33	33.41	24.35	0.944	0.944	11.82	0.289	4.22	6.01	25.28	1.367	36.66	37	
39	Waikanae	36.54	144.67	1.325	1.325	1.791	11.26	33.41	24.35	0.944	0.944	11.82	0.289	4.22	6.01	25.28	1.367	36.66	38	
40	Waikanae	40.69	103.41	1.494	1.494	1.600	16.41	41.71	24.48	1.193	1.193	20.69	0.397	4.24	6.87	24.33	1.444	39.49	39	
41	Waikanae	29.33	96.93	1.453	1.453	1.195	11.65	27.60	24.48	1.193	1.193	20.69	0.397	4.24	6.87	24.33	1.444	39.49	40	
42	Waikanae	49.78	161.10	1.504	1.165	1.915	14.52	46.98	29.47	1.039	1.039	20.36	0.397	4.24	6.87	24.33	1.444	39.49	41	
43	Westland	38.96	106.27	1.129	1.129	2.531	12.10	30.84	27.53	0.712	0.712	17.38	0.363	6.05	11.17	26.96	1.308	29.74	42	
44	Westland	40.43	118.12	1.300	1.300	1.673	13.46	39.32	27.53	0.712	0.712	17.38	0.363	6.05	11.17	26.96	1.308	29.74	43	
45	Westland																			

(For notes see page 14.)

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1962—continued

No.	Supply Authorities	Revenue from Sale of Electricity						Working Costs			Capital Charges			Total Costs					
		Capital Outlay		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 kW. of Maximum Demand		Per kW. of Maximum Demand		Per kW. of Maximum Demand	
		£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	No.
1	Christchurch	29.62	85.73	1.310	1.010	2.039	14.06	40.71	19.64	1.085	1.085	16.26	0.175	2.63	6.36	18.89	1.260	45.68	1
2	Dunedin	65.46	178.50	1.310	0.934	1.929	16.11	43.92	20.86	0.659	0.659	10.66	0.373	5.94	7.01	16.41	1.041	29.81	2
3	Hamilton	24.86	56.78	1.317	1.317	2.146	15.20	33.29	20.86	0.895	0.895	19.35	0.059	1.09	2.41	10.43	1.043	42.81	3
4	Invercargill	28.98	69.79	1.070	1.070	2.542	11.27	36.72	23.11	1.315	1.315	17.52	0.079	1.08	2.65	10.43	1.043	42.81	4
5	Napier	27.65	69.79	1.447	1.447	1.955	10.98	26.26	20.71	1.071	1.071	19.76	0.090	1.66	3.62	11.61	1.161	49.51	5
6	Nelson	23.27	65.65	1.943	0.874	2.335	12.89	36.36	25.45	1.026	1.026	19.45	0.071	1.35	2.93	20.80	1.097	47.93	6
7	New Plymouth	19.13	68.65	1.266	1.266	1.671	11.26	33.41	21.20	0.955	0.955	16.08	0.065	1.23	3.17	17.35	1.009	69.64	7
8	Palmerston North	19.68	66.26	1.261	0.915	2.302	11.10	31.41	21.33	0.955	0.955	16.08	0.065	1.23					

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1962—continued

No.	Supply Authorities	Capital Outlay			Revenue from Sale of Electricity				Working Costs			Capital Charges			Total Costs		Per Cent of Distribution Capital*
		Per Head of Population	Per Consumer	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 kW. of Maximum Demand ¹	Per Unit Sold	Per kW. of Maximum Demand	Per Unit Sold	Per kW. of Maximum Demand	Per Unit Sold	Per kW. of Maximum Demand	
1	Amethyst Power Ltd.	£(N.Z.) 36.53	£(N.Z.) 135.99*	d. 2.352	d. 2.352	d. 1.756	d. 4.468	£(N.Z.) 15.23	£(N.Z.) 56.66	£(N.Z.) 33.76	d. 1.544	£(N.Z.) 5.57	d. 0.388	£(N.Z.) 27.73	d. 1.932	66.23	
2	Westland Power Ltd.	26.69	116.51	2.028	2.244	2.158	2.304	12.35	53.92	34.33	1.484	5.00	0.296	29.20	1.730	69.69	
	Average for all supply authorities ²	27.98	119.45	2.072	2.261	2.056	2.439	12.73	54.33	34.33	1.449	5.00	0.308	29.20	1.737	69.46	
	Averages for 1961	132.63	300.45	..	1.340	1.167	1.592	13.97	40.07	..	..	..	..	..	..	35.37
	" 1960	126.00	342.08	..	1.340	1.088	1.704	13.20	38.43	..	..	..	..	..	..	33.95
	" 1959	118.15	342.08	..	1.367	1.088	1.742	12.24	35.43	..	..	..	..	..	..	33.01
	" 1958	108.63	323.75	..	1.384	1.184	..	11.01	35.14	..	..	..	..	..	..	37.43
	" 1957	101.53	305.27	..	1.114	0.964	..	9.56	28.75	..	..	..	..	..	..	37.43
	" 1956	92.18	279.75	..	1.124	0.976	..	8.64	26.22	..	..	..	..	..	..	26.45
	" 1955	83.92	258.65	..	1.121	..	..	8.40	25.89	..	..	..	..	..	..	26.63
	" 1954	76.46	239.79	..	1.120	..	..	7.81	24.79	..	..	..	..	..	..	27.39
	" 1953	69.43	222.33	..	1.107	..	..	7.39	23.13	..	..	..	..	..	..	25.32
	"	62.04	200.27	..	0.894	..	..	5.41	17.00	..	..	..	..	..	..	22.25

NOTES—¹Return for 31 December 1961.

²Excludes sundry private plants (table VII) who do not furnish returns.

³Retail sales.

⁴Excludes cost of generating feed-back.

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, AND WATER-HEATERS FOR THE YEAR ENDED 31 MARCH 1962

No.	Supply Authorities	Population in Area of Supply	Ratio of Consumers to Population	Consumers			Ranges		Water-heaters		Consumers Per Route-mile of Line	No.
				Domestic	Commercial	Total	Number	Ratio, Number of Ranges to Domestic Consumers	Number	Ratio, Number of Water-heaters to Total Number of Consumers		
1	NEW ZEALAND ELECTRICITY DEPARTMENT	..	..	..	..	..	..	..	..	..	..	..
2	North Island	60,580	34.54	Number 924	Number 2,635	Number 933	Number 938	Per Cent 101.51	Number 995	Per Cent 106.64	Number 0.27	1
	South Island	60,580	..	18,290	20,925	20,925	10,226	55.91	9,296	44.42	3.57	2
	Average	..	..	19,214	21,858	21,858	11,164	58.10	10,291	47.08	2.36	..
1	Ashburton	23,680	34.86	7,272	983	8,255	5,603	77.05	8,102	98.15	5.63	1
2	Auckland	362,330	33.65	105,117	16,817	121,934	77,619	73.84	86,345	70.81	56.02	2
3	Banks Peninsula	3,480	61.75	2,040	109	2,149	1,355	66.42	1,299	60.45	6.99	3
4	Bay of Islands	35,350	30.40	9,246	1,499	10,745	6,356	68.74	7,432	69.17	4.84	4
5	Bay of Plenty	32,920	21.64	6,126	997	7,123	4,790	78.19	5,646	79.26	11.32	5
6	Buller	9,400	34.20	2,639	576	3,215	508	19.25	497	15.46	12.13	6
7	Cambridge	9,250	35.03	2,897	343	3,240	2,150	74.21	2,670	82.41	9.82	7
8	Central Hawke's Bay	13,840	35.05	4,199	652	4,851	3,835	91.33	3,571	73.61	4.30	8
9	Central Waikato	66,360	29.26	17,617	1,800	19,417	12,329	69.98	14,716	75.79	8.97	9
10	Dannevirke	13,380	34.36	3,952	645	4,597	2,926	74.04	3,109	67.63	8.12	10
11	Franklin	30,900	33.13	9,132	1,105	10,237	7,138	78.16	8,787	85.84	9.70	11
12	Golden Bay	3,650	37.07	1,201	152	1,353	743	61.87	881	65.11	4.34	12
13	Grey	19,580	34.19	5,616	3,078	6,694	3,390	60.36	2,656	39.68	14.72	13
14	Hawke's Bay	67,840	33.53	19,715	3,034	22,749	17,200	87.24	16,904	74.31	11.39	14
15	Horowhenua	35,340	45.26	13,923	2,162	16,085	10,390	74.62	11,097	68.99	13.06	15
16	Hutt Valley	141,960	29.86	38,986	3,399	42,385	31,756	81.45	33,872	79.92	33.05	16
17	King Country	14,230	23.83	3,140	251	3,391	1,238	39.43	1,236	36.45	3.97	17
18	Manawatu	4,820	31.33	1,347	163	1,510	734	54.49	692	45.83	3.89	18
19	Manawatu-Oroua	31,820	31.68	9,162	918	10,080	7,177	78.33	8,072	80.08	10.99	19
20	Marlborough	24,730	32.81	6,863	1,250	8,113	3,886	56.62	4,094	50.46	12.04	20
21	North Auckland	37,640	34.49	11,684	1,297	12,981	8,698	74.44	11,215	86.40	4.38	21
22	North Canterbury	19,050	27.94	6,634	711	7,345	4,455	67.15	4,659	67.22	4.39	22
23	Omanake	6,450	33.89	1,711	170	1,881	1,193	69.53	1,692	89.95	6.10	23
24	Otago	27,450	39.19	9,482	1,277	10,759	3,704	39.06	3,932	36.55	4.70	24
25	Otago Central	13,380	44.22	4,940	976	5,916	2,832	57.33	3,243	54.82	6.08	25
26	Powerty Bay	42,150	34.45	11,628	2,891	14,519	8,206	70.57	8,275	56.99	12.02	26
27	South Canterbury	31,240	33.89	9,876	711	10,587	5,222	52.88	4,789	45.23	5.62	27
28	South Taranaki	21,260	33.44	5,967	1,143	7,110	4,431	79.26	5,685	79.96	14.66	28
29	Springs Eelsmere	25,510	29.37	6,968	524	7,492	5,803	83.28	6,646	88.71	9.99	29
30	Taranaki	14,600	31.55	4,193	413	4,606	2,984	71.17	4,036	87.62	5.78	30
31	Tararua	9,630	37.27	3,059	530	3,589	2,834	92.64	2,809	78.27	5.22	31
32	Tauranga	96,850	35.04	11,513	1,398	12,911	10,174	88.37	10,966	84.94	9.34	32
33	Te Awamutu	20,050	32.27	5,224	1,247	6,471	5,073	98.03	5,073	78.40	11.74	33
34	Thames Valley	68,710	38.51	24,334	2,124	26,458	15,345	63.06	18,875	71.34	9.10	34
35	Waimea	29,960	31.66	8,638	847	9,485	7,114	82.36	7,665	80.81	10.12	35

(For notes see page 17.)

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, AND WATER-HEATERS FOR THE YEAR ENDED 31 MARCH 1962—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Ranges		Water-heaters			Consumers Per Route-mile of Line	No.
				Domestic	Commercial	Total	Number	Per Cent	Number	Per Cent	Number			Per Cent
36	Power Boards—continued	34,200	36.21	1,820	12,384	8,583	81.25	9,044	73.03	10,533	36	36	
37	Wairarapa	4,180	35.86	1,202	1,499	9,932	71.86	1,123	74.92	2,577	37	37	
38	Waikato	7,670	25.25	1,112	1,937	1,038	56.88	1,083	55.91	4,669	38	38	
39	Waikato	24,950	39.35	1,529	9,817	6,083	73.40	6,025	61.37	10,772	39	39	
40	Waitemata	141,740	42.23	6,328	59,853	38,971	72.81	40,093	66.99	17,077	40	40	
41	Waikato	21,000	30.90	940	6,489	3,654	65.85	4,209	64.86	6,766	41	41	
42	Wanganui-Rangitikei	62,690	33.45	2,821	20,968	12,387	68.26	13,426	64.03	11,883	42	42	
43	Westland	3,140	37.04	237	1,163	533	57.56	497	42.73	2,150	43	43	
		1,648,560	34.22	68,064	564,226	361,420	72.84	396,938	70.35	11,447			
	CITY COUNCILS												
1	Christchurch	200,070	34.55	7,723	69,126	50,909	82.91	54,380	78.67	38,255	1	1	
2	Dunedin	108,910	36.67	4,771	39,937	19,259	54.77	26,140	65.45	45,333	2	2	
3	Hamilton	22,170	43.29	2,436	9,598	3,563	49.75	4,778	65.45	38,538	3	3	
4	Invercargill	35,030	33.83	1,516	11,852	3,837	37.12	3,901	32.91	67,191	4	4	
5	Napier	12,580	43.76	1,144	5,505	2,376	54.48	3,117	56.62	63,335	5	5	
6	Nelson	16,430	35.45	1,070	5,824	2,173	45.71	3,827	65.71	76,333	6	6	
7	New Plymouth	39,060	33.69	1,690	13,159	8,734	76.15	10,769	81.84	26,884	7	7	
8	Palmerston North	38,830	35.34	2,084	13,730	7,931	68.27	9,571	69.71	39,772	8	8	
9	Timaru	20,690	35.05	6,274	9,778	4,267	68.01	4,673	64.44	63,556	9	9	
10	Wellington	117,420	39.49	8,628	46,373	12,792	33.89	24,644	53.14	62,889	10	10	
		611,210	36.38	32,040	222,356	115,861	60.88	145,800	65.57	44,880			
	BOROUGH COUNCILS												
1	Bluff	3,100	34.26	220	1,062	329	39.07	232	21.85	61,774	1	1	
2	Inglewood	2,000	34.55	128	691	437	77.62	494	62.81	31,770	2	2	
3	Kaipoi	2,740	37.74	124	1,034	659	72.42	680	65.76	59,777	3	3	
4	Lyttelton	3,140	38.60	198	1,212	576	56.80	685	56.52	60,000	4	4	
5	Ohakune	2,470	38.87	240	960	236	32.78	319	33.23	8,255	5	5	
6	Racitihi	2,320	30.95	167	718	182	33.03	242	33.70	6,000	6	6	
7	Rangiora	3,620	39.28	231	1,422	856	71.87	1,047	73.63	72,992	7	7	
8	Riccarton	7,320	36.02	225	2,637	1,800	74.63	2,153	81.65	43,223	8	8	
9	Rotorua Electric Supply	36,340	35.36	2,155	12,850	7,302	68.27	7,428	57.81	13,988	9	9	
10	Stratford	5,370	37.34	408	2,005	1,200	59.14	1,194	59.55	58,288	10	10	
11	Taihape	2,730	33.70	217	920	421	59.89	420	45.65	44,888	11	11	
12	Taurarunui	3,470	43.92	326	1,524	561	46.83	528	34.65	41,533	12	12	
13	Taupo	9,500	32.21	348	2,712	1,556	45.92	1,405	45.92	12,773	13	13	
14	Tauranga	6,150	45.38	799	2,791	1,811	90.91	1,946	69.72	29,338	14	14	
15	Tc Aroha	3,090	40.55	312	1,233	685	72.79	706	56.34	26,110	15	15	

(For notes see page 17.)

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, AND WATER-HEATERS FOR THE YEAR ENDED 31 MARCH 1962—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Ranges		Water-heaters			Consumers Per Route-mile of Line	No.
				Domestic	Commercial	Total	Number	Per Cent	Number	Per Cent	Number			Per Cent
16	Borough Councils—continued	5,380	35.61	336	1,916	1,226	77.59	1,164	60.75	39,110	16	16	
17	Thames	4,410	36.98	378	1,631	1,103	88.03	1,068	65.48	43,449	17	17	
18	Waikato	4,560	32.61	213	881	581	59.38	62,222	59.38	38,855	18	18	
19	Whakatane	7,360	30.72	441	2,261	1,692	92.97	1,765	78.06	38,855	19	19	
20	Whangarei	14,800	34.39	1,109	5,089	3,429	86.16	3,286	64.57	46,999	20	20	
		29,870	35.82	8,575	46,523	26,942	71.00	27,585	59.29	22,555			
1	Town Boards	1,770	33.90	94	600	351	69.37	535	89.17	5,488	1	1	
2	Kaponga	330	50.30	57	166	80	73.39	81	48.80	14,443	2	2	
		2,100	36.48	151	766	431	70.08	616	80.42	6,333			
	COUNTY COUNCILS												
1	Heathcote	4,730	33.09	40	1,565	1,209	79.28	1,525	97.44	17,664	1	1	
2	Kaikoura	2,530	38.30	189	969	280	35.90	229	23.63	10,004	2	2	
3	Murchison	1,350	26.22	70	354	149	52.46	204	57.63	5,211	3	3	
4	Mackenzie	730	9.45	8	69	76	124.59	103	149.28	0.41	4	4	
5	Westland	410	21.46	13	88	37	49.33	48	54.55	2,955	5	5	
		9,750	31.23	320	3,045	1,751	64.26	2,109	69.26	6,774			
1	Companies	510	26.86	19	137	43	36.44	83	60.58	4,577	1	1	
2	Amethyst Power Ltd.	3,370	22.91	92	772	184	27.06	309	40.03	4,911	2	2	
		3,880	23.43	111	909	227	28.45	392	43.12	4,866			
	GRAND TOTALS	2,465,950	34.86	111,905	859,683	517,796	69.24	583,731	67.90	12,977			

Total population of Dominion as at 1 April 1962 was 2,477,297. Ratio of population in area of supply to total population of Dominion = 99.54 per cent.

Notes—1 Return for year ended 31 December 1961.

TABLE XI—STATISTICS RELATING TO ELECTRICIANS REGISTRATION BOARD, YEAR ENDED 31 MARCH 1962

(The figures in parentheses are for the previous year)

1. Number of board meetings: 12 (11)

2. Registrations—

	During Year		Total		Current	
Inspectors	46	(55)	826	(780)	601	(592)
Electricians	362	(390)	8,565	(8,203)	8,447	(8,097)
Electrical servicemen	15	(23)	432	(417)	391	(381)
Electrical (Radio) servicemen	107	(113)	1,415	(1,308)	1,380	(1,276)
Limited registration ¹	261	(458)	2,439	(2,178)	2,225	(1,990)
3. Provisional licences ²	316	(273)	2,831	(2,515)		
4. Permits to assist	115	(138)	1,163	(1,048)		
5. Applications for ruling on experience	211	(248)				

6. Examinations (two examinations)—

	Candidates		Passed, Percentage		Highest Marks	
Electricians written	600	(681)	64	(59)	94	(98)
Electricians practical	516	(593)	78	(76)	100	(95)
Electrical servicemen and limited registration (written)	361	(700)	82	(82)	98	(100)
Electrical servicemen and limited registration (practical)	284	(633)	76	(82)	98	(98)

7. Defective work reports, 11 (11); endorsements made, 4 (nil); endorsements removed, nil (nil).

8. Breach of Act reports, 20 (33); prosecutions authorised 13 (24).

9. Appeals, nil (nil).

NOTES—¹Includes refrigeration servicemen, 15; assembly and repair of portable domestic appliances, 34; assembly and testing of electrical apparatus on premises of manufacture, 1; servicing calculating machines and like office appliances, 34; all classes of electrical wiring work carried out for and whilst employed by T. Springfield and Co. Ltd., Winton, 1; Civil Aviation Administration (extended limits), 10; radio servicemen's limits restricted to Civil Aviation Administration, 10; supply authority work, 14; assembly and repair of Electrolux products up to and including the plug top whilst employed by Electrolux Ltd., 1; replacement of fuse links, connection and replacement of flexible cords, earthing of appliances, 15; Post Office (radio technician), 8; radio interference suppression, 3; Post Office (telegraph technician), 5; Post Office (telephone exchange technician), 6; Post Office (telephone exchange technician, extended limits) 76; New Zealand Broadcasting Corporation, 13; automatic telephone and impulse signalling equipment, 4; radio experimenter, 3; electrical wiring for radio sets only, 2; assembly and repair of heating and cooking appliances at H. E. Shacklock Ltd., Dunedin, and servicing (not connecting or disconnecting) heating and cooking appliances on any premises, 1; operation of motion and sound pictures, 1; the servicing of Frigidaire electric ranges on any premises (not including the connection or disconnection), 1; work in powerhouses and substations, 1. ²Eighty were issued to apprentices.