

NEW ZEALAND

ANNUAL STATISTICS IN RELATION TO  
HYDRO-ELECTRIC DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1956

Condensed Statistics for the Combined Development and Operations of the State Hydro-electric Department and Distributing Electrical Supply Authorities

No.			Water	Steam	Oil	Total	No.
1	Generating stations	No.	42	6	12	60	1
2	Installed capacity	kW.	872,422	53,375	14,364	940,161	2
3	Generation	kWh.	4,530,460,843	209,443,587	3,429,914	4,748,334,344	3
4	Maximum load	kW.	..	..	..	957,171	4
5	Retail sales	kWh	..	..	..	3,876,311,009	5
6	Consumers	No.	..	..	..	699,597	6
7	Population	No.	..	..	..	2,175,373	7
8	Capital outlay, generation, transmission, and distribution	£	..	..	..	..	..
9	Revenue retail sales of electricity	£	18,112,682	..	..	180,950,392	8
10	Revenue from other sources	£	423,405	..	..	..	9
11	Total revenue	£	..	..	..	18,536,087	10
12	Working costs	£	7,875,382	..	..	..	11
13	Capital charges	£	3,339,643	..	..	..	12
14	Total costs	£	..	..	..	..	13
15	Net profit	£	..	..	..	16,215,025	14
16	Generation per head of total population	kWh.	..	..	..	2,321,062	15
17	Retail sales per consumer	kWh.	..	..	..	2,183	16
18	Capital outlay per kW. installed capacity	£	..	..	..	5,541	17
19	Working costs per kWh. sold retail	d.	0.4876	..	..	192.47	18
20	Capital charges per kWh. sold retail	d.	0.5163	..	..	..	19
21	Total costs per kWh. sold retail	d.	..	..	..	1.0039	20
22	Revenue per kWh. sold retail	d.	..	..	..	1.1476	21
23	Ratio of capital charges to capital outlay	%	..	..	..	4.609	22
24	Electrical fires reported during year	No.	..	..	..	134	23
25	Fatal electrical accidents during year	No.	..	..	..	19	24
26	Electric ranges	No.	..	..	..	354,752	25
27	Electric water-heaters	No.	..	..	..	406,088	26
28	Electric milking machines	No.	..	..	..	48,188	27

TABLE I—STATE HYDRO-ELECTRIC DEPARTMENT ONLY  
Summarised Gross Revenue, Net Revenue, and Appropriation Accounts for Year Ended 31 March 1956

Working costs	£	3,865,097	Revenue—	£
Capital charges—			Sales of energy	9,132,572
Interest	£	2,765,982	Rent and miscellaneous receipts	75,496
Depreciation		1,116,198		
Loan capital repayments		633,533		
Taxation		699,223		
		5,214,936		
Total costs (see Table IV)		9,080,033		
Transfer to Reserve Fund		128,035		
		9,208,068		9,208,068

TABLE II—STATE HYDRO-ELECTRIC DEPARTMENT ONLY  
Summarised Balance Sheet as at 31 March 1956

Loan liability	£	111,041,265	Completed works	£	80,097,894
Sundry creditors, etc.		2,004,108	Works under construction		43,258,831
Reserves—			Plant, motor vehicles, and tools		978,704
Depreciation	£	9,923,080	Stocks of materials		1,584,215
Loan capital repayments		7,113,180			
Reserve Fund		137,804	Capital outlay (see Table V)		125,919,644
		17,174,064	Sundry debtors, etc.		4,299,793
		130,219,437			130,219,437

TABLE III—OPERATING RESULTS: STATE HYDRO-ELECTRIC DEPARTMENT ONLY

		1955-56			1955-56
<b>Maximum load (kilowatts)—</b>			<b>Revenue—</b>		
North Island†		647,275	Per kW. of maximum load		£10 0035
South Island†		265,667	Per unit output		0 434d.
			Per unit sold		0 538d.
		*912,942	<b>Working costs—(Including Administration)—</b>		
<b>Average load (kilowatts)—</b>			Per kW. of maximum load		£4 2337
North Island		373,560	Per unit output		0 205d.
South Island		143,051	Per unit sold		0 228d.
<b>Average load factor—</b>		Per Cent	<b>Capital charges—(Including Taxation)—</b>		
North Island		57 71	Per kW. of maximum load		£5 7122
South Island		53 85	Per unit output		0 277d.
			Per unit sold		0 307d.
<b>Unit output (generated and purchased)—</b>			<b>Total costs—(Including taxation)—</b>		
North Island		3,272,388,913	Per kW. of maximum load		£9 9459
South Island		1,253,131,019	Per unit output		0 482d.
Total		4,525,519,932	Per unit sold		0 535d.
<b>Units sold—</b>					
North Island		2,962,916,989			
South Island		1,111,123,411			
Total		4,074,040,400			
<b>Units unsold (used free of charge)—</b>					
North Island		31,208,891			
South Island		13,713,875			
Total		44,922,766			
<b>Line losses—</b>					
Transmission and distribution—	Units	Per Cent			
North Island	278,263,033	8 50			
South Island	128,293,733	10 24			
Total	406,556,766	8 98			

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

† See footnote 1 Table VII for maximum load for total public supply.

TABLE IV—STATE HYDRO-ELECTRIC DEPARTMENT ONLY  
Analysis of Operating Costs for Year Ended 31 March 1956

	(a) Working Costs	(b) Administration Costs	(c) Capital Charges (Including Taxation)	(d) Total Costs	(e) Total Cost Per kWh	
					Output	Sold
Hydro-electric stations	£ 569,563	£ 311,367	£ 2,850,680	£ 3,731,610	Pence 0 2144	Pence ..
Fuel stations	1,103,717	106,828	69,749	1,280,294	1 5494	..
Power purchases and standby provision	421,186	38,343	..	459,529	0 7366	..
Generated and purchased	2,094,466	456,538	2,920,429	5,471,433	0 2902	0 3223
Transmission	293,763	117,753	999,718	1,411,234	0 0748	0 0831
Substations	401,324	138,683	1,122,062	1,662,069	0 0881	0 0979
Communications	41,982	8,981	56,667	107,630	0 0057	0 0064
Retail distribution	168,291	25,886	116,060	310,237	0 0165	0 0183
System operation	107,632	9,798	..	117,430	0 0062	0 0069
Totals	3,107,458	757,639	5,214,936	9,080,033	0 4815	0 5349
Administration (see column (b))	757,639					
	3,865,097	<b>SUMMARY</b>				
				3,107,458	0 1648	0 1831
		Working costs		757,639	0 0402	0 0446
		Administration costs		5,214,936	0 2765	0 3072
		Capital charges				
		Total Costs		9,080,033	0 4815	0 5349

TABLE V—STATE HYDRO-ELECTRIC DEPARTMENT ONLY  
Analysis of Capital Outlay as at 31 March 1956  
Completed Works

	Land, Fencing, and Roading	Headworks	Station Buildings and Village	Generating Plant and Machinery	Total	Grand Total
	£	£	£	£	£	£
<b>Hydro-electric stations—</b>						
Arapuni .. .. .	120,462	1,426,019	521,078	1,092,588	3,160,147	
Karapiro .. .. .	402,762	2,204,216	568,122	956,247	4,131,347	
Maractai .. .. .	630,257	5,528,753	1,510,401	1,796,048	9,465,459	
Lake Taupo Control .. .. .		204,864			204,864	
Tuaiti .. .. .	90,822	253,729	248,465	474,280	1,067,296	
Piripaua .. .. .	54,008	715,668	94,740	212,709	1,077,125	
Kaitawa .. .. .	45,799	1,182,816	162,814	314,450	1,705,879	
Lake Waikaremoana Control .. .. .		468,350			468,350	
Mangahao .. .. .	83,881	949,638	134,317	285,500	1,453,336	
Cobb River .. .. .	62,980	4,060,332	364,697	392,938	4,880,947	
Lake Coleridge .. .. .	35,476	546,175	134,846	252,661	969,158	
Arnold .. .. .	1,830	108,161	10,767	26,917	147,675	
Highbank .. .. .	18,584	333,788	107,600	179,901	639,873	
Waitaki .. .. .	53,811	1,689,315	1,531,845	1,164,004	4,438,975	
Lake Tekapo .. .. .	28,421	2,535,639	498,287	441,887	3,504,234	
Lake Pukaki Control .. .. .		2,309,883			2,309,883	
Monowai .. .. .	46,130	86,660	55,775	60,416	248,981	
	1,675,223	24,604,006	5,943,754	7,650,546		39,873,529
<b>Fuel stations—</b>						
King's Wharf .. .. .					424,413	
Evans Bay .. .. .					298,550	
Stoke .. .. .					79,302	
Dobson .. .. .					173,339	
						975,604
<b>Transmission system—</b>						
33 kV. Lines .. .. .					46,009	
50 kV. Lines .. .. .					857,834	
66 kV. Lines .. .. .					1,212,637	
110 kV. Lines .. .. .					5,952,182	
220 kV. Lines .. .. .					5,914,778	
						13,983,440
<b>Substations—</b>						
33 kV. .. .. .					30,424	
50 kV. .. .. .					1,260,289	
66 kV. .. .. .					1,637,788	
110 kV. .. .. .					6,539,035	
220 kV. .. .. .					6,227,160	
						15,694,696
<b>Communications</b> .. .. .						792,619
<b>Distribution system</b> .. .. .						1,623,376
<b>Offices, stores, land, and buildings</b> .. .. .						615,123
<b>Cost of raising loans</b> .. .. .						854,834
<b>Interest during construction on completed works</b> .. .. .						5,684,673
<b>Completed Works .. .. .</b>						80,097,894
<b>Works Under Construction</b>						
<b>Hydro-electric stations—</b>						
Whakamaru .. .. .	286,590	6,832,025	907,393	1,820,211	9,846,219	
Atiamuri .. .. .	134,563	2,549,699		54,556	2,738,818	
Waipapa .. .. .		672,808			672,808	
Ohakuri .. .. .		483,739			483,739	
Roxburgh .. .. .	152,060	15,330,112	1,193,216	2,458,261	19,133,649	
Lake Hawea Control .. .. .		977,899			977,899	
Additions to completed stations .. .. .			11,046		11,046	
	573,213	26,846,282	2,111,655	4,333,028		
<b>Fuel stations—</b>						
Mercer .. .. .					247,449	
<b>Transmission system—</b>						
33 kV. lines .. .. .					56	
66 kV. lines .. .. .					774,421	
110 kV. lines .. .. .					632,120	
220 kV. lines .. .. .					1,771,621	
<b>Substations—</b>						
50 kV. .. .. .					54,434	
66 kV. .. .. .					61,948	
110 kV. .. .. .					1,213,368	
220 kV. .. .. .					242,543	
<b>Communications</b> .. .. .					31,869	
<b>Distribution system</b> .. .. .					19,414	
<b>Offices, stores, land, and buildings</b> .. .. .					9,483	
						38,922,904
<b>Interest on works under construction</b> .. .. .					2,926,048	
<b>Surveys and investigations of other schemes</b> .. .. .					1,409,879	
						43,258,831
<b>Fixed Assets</b> .. .. .						123,356,725
<b>Plant, motor vehicles, and tools</b> .. .. .						978,704
<b>Stocks of materials</b> .. .. .						1,584,215
<b>Total Capital Outlay .. .. .</b>						125,919,644

TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, ETC., FOR THE YEAR ENDED 31 MARCH 1956

No.	Supply Authorities	Source of Supply <sup>1</sup>	Year When Supply Commenced	Capacity of Generating Plant						Static Head, in Feet	Voltage			Distribution Transformers		Route Miles of Lines	No.
				Water	Steam	Oil	Total Capacity	Generation	Transmission		Distribution	Number	kVA				
STATE HYDRO-ELECTRIC DEPARTMENT																	
1	North Island <sup>1</sup>	G.N.	1921	kW. 157,800	kVA. 180,000												
	Arapuni						620,000	kVA. 709,900	175	{ 11,000	{ 220,000	{ 11,000	{ 400/230 A.C.	171	48,560	2,933	1
	Evans Bay			90,000	100,000												
	Karapiro			19,200	24,000												
	Kings Wharf			180,000	200,000												
	Manahao			124,000	144,600												
	Maratua																
	Waikaremoana																
2	South Island <sup>2</sup>	G.S.	1915	kW. 3,060	kVA. 3,600		239,070	271,315	42	{ 11,000	{ 110,000	{ 11,000	{ 400/230 A.C.	3,085	53,769	4,717	2
	Arnold			32,000	37,222				1,876								
	Cobb			34,500	40,640				490								
	Coleridge			25,200	28,000				330								
	Dobson			6,000	7,050				154								
	Highbank			25,200	28,000				105								
	Monowai			25,200	28,000				70								
	Stoke			105,000	116,666												
	Tekapo																
	Watauki			801,960	909,778		859,070	981,215						3,256	102,329	7,650	
POWER BOARDS																	
1	Ashburton	G.S.	1923											1,515	22,513	1,360	1
2	Auckland	G.N.	1908											1,688	246,392	1,796	2
3	Banks Peninsula	G.S.	1921	72	90		72	90	310		33,000			257	3,247	260	3
4	Bay of Islands	G.N.	1939	65	104		215	291	134					1,545	19,740	1,895	4
5	Bay of Plenty	G.N.	1928											569	16,132	476	5
6	Buller	G.S.	1949	200	250		200	250	430					68	5,272	127	6
7	Cambridge	G.N.	1921											211	7,997	260	7
8	Central Hawke's Bay	G.N.	1925											760	10,614	941	8
9	Central Waikato	G.N.	1921											770	35,768	1,844	9
10	Dannevirke	G.N.	1925											468	9,314	482	10
11	Franklin	G.N.	1925											707	18,769	983	11
12	Golden Bay	G.S.	1929	200	250		200	250	330					223	4,093	223	12
13	Greys	G.S.	1926											302	17,568	403	13
14	Hawke's Bay	G.N.	1927				320	400						823	44,570	1,146	14
15	Horowhenua	G.N.	1924											361	25,952	1,068	15
16	Hutt Valley	G.N.	1924											599	89,275	1,059	16
17	King Country	G.N.	1946											456	4,917	618	17
18	Manawatu	G.S.	1925											351	3,128	302	18
19	Manawatu-Oroua	G.N.	1924											802	25,462	848	19
20	Manhorough	G.S.	1927	1,000	1,250		2,330	2,912	100		33,000			420	11,433	483	20
21	North Auckland	G.N.	1936											1,630	33,912	2,539	21
22	North Canterbury	G.S.	1928											1,037	11,424	1,266	22

(For notes see page 6.)

TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, TRANSFORMERS, ETC., FOR THE YEAR ENDED 31 MARCH 1956—continued

No.	Supply Authorities	Year When Supply Commenced	Capacity of Generating Plant				Static Head, in Feet	Generation	Voltage		Distribution Transformers		Route Miles of Lines	No.
			Water	Steam	Oil	Total Capacity			Transmission	Distribution	Number	kVA		
23	POWER BOARDS—continued													
23	Opunake	1923	kVA, 315	kVA, 450	kW, 315	kVA, 450	50	6,600	..	{ 11,000 6,600 } 400/230 A.C.	268	4,585	276	
24	Ohau	1926	..	..	..	..	{ 1,015; 987; 800; 510; 410; 300 }	{ 6,600 3,300 3,300 } 415/240 A.C.	..	{ 11,000 6,600 } 415/240 A.C.	1,552	19,357	1,670	
25	Ohau Central	1923	6,630	7,876	6,630	7,876	..	{ 6,600 3,300 6,600 } 415/230 A.C.	33,000	{ 11,000 6,600 } 415/230 A.C.	525	7,072	753	
26	Poverty Bay	1912	..	..	980	1,150	..	5,500	..	{ 11,000 6,600 } 400/230 A.C.	856	20,073	822	
27	South Canterbury	1925	..	..	..	..	57	5,500	..	{ 11,000 6,600 } 415/240 A.C.	1,387	21,024	1,472	
28	South Taranaki	1929	556	695	1,042	1,302	..	..	..	{ 11,000 6,600 } 400/230 A.C.	382	12,973	432	
29	Springb Elmstere	1922	..	..	..	..	..	..	..	{ 11,000 6,600 } 415/240 A.C.	772	92,442	574	
30	Taranaki	1927	4,800	5,400	4,800	5,400	300	6,600	33,000	{ 11,000 6,600 } 400/230 A.C.	708	13,356	683	
31	Taranaki	1925	..	..	..	..	..	..	..	{ 11,000 6,600 } 400/230 A.C.	630	7,223	570	
32	Tauranga	1926	..	..	..	..	..	..	..	{ 11,000 6,600 } 400/230 A.C.	704	16,476	1,108	
33	Te Awamutu	1921	..	..	..	..	..	..	..	{ 11,000 6,600 } 400/230 A.C.	473	14,716	504	
34	Tevot	1924	750	1,005	750	1,005	380	3,300	..	{ 11,000 6,600 } 400/240 A.C.	193	1,656	135	
35	Thames Valley	1921	250	270	250	270	960	400	..	{ 11,000 6,600 } 415/230 A.C.	906	44,588	2,312	
36	Wauna	1935	..	..	..	..	290	3,300	..	{ 11,000 6,600 } 400/230 A.C.	520	15,922	724	
37	Wairarapa	1923	837	1,194	837	1,194	65	3,300	..	{ 11,000 6,600 } 400/230 A.C.	699	19,402	631	
38	Waikare	1925	1,400	1,940	1,400	1,940	..	3,300	..	{ 11,000 6,600 } 400/240 A.C.	453	4,510	509	
39	Wauna	1923	..	..	..	..	..	..	..	{ 11,000 6,600 } 415/230 A.C.	220	5,372	302	
40	Waikaki	1926	..	..	..	..	..	..	..	{ 11,000 6,600 } 400/230 A.C.	826	20,300	732	
41	Waunaua	1926	..	..	..	..	..	..	..	{ 11,000 6,600 } 400/230 A.C.	1,137	66,175	2,688	
42	Waunoua	1926	..	..	..	..	..	..	..	{ 11,000 6,600 } 415/240 A.C.	487	11,565	537	
43	Wanganui-Rangitikei	1924	..	..	..	..	..	..	..	{ 11,000 6,600 } 400/230 A.C.	1,261	43,230	1,482	
			17,075	20,374	20,341	24,380	..	..	..	..	30,612	1,068,522	39,563	
1	Christchurch	1903	..	..	3,819	3,819	..	..	..	..	703	130,140	1,484	
2	Dunedin	1907	38,000	48,500	39,875	50,840	700; 165; 166	6,600	110,000	{ 11,000 6,600 } 400/230 A.C.	1,263	90,801	784	
3	Hamilton	1913	..	..	..	..	..	2,400	33,000	{ 11,000 6,600 } 400/250 A.C.	47	10,950	215	
4	Invercargill	1914	..	..	1,000	1,250	..	3,300	..	{ 11,000 6,600 } 400/230 A.C.	105	11,919	136	
5	Napier	1913	..	..	400	500	..	3,300	..	{ 11,000 6,600 } 400/230 A.C.	44	7,980	147	
6	Nelson	1923	..	..	1,350	1,561	240	3,300	..	{ 11,000 6,600 } 415/230 A.C.	42	9,315	70	
7	New Plymouth	1906	3,750	4,500	3,750	4,500	120	6,600	..	{ 11,000 6,600 } 400/230 A.C.	373	20,422	444	
8	Palmerston North	1924	..	..	2,000	2,500	..	3,300	..	{ 11,000 6,600 } 400/230 A.C.	98	18,925	128	
9	Timaru	1908	..	..	..	..	..	3,300	..	{ 11,000 6,600 } 400/230 A.C.	67	18,020	75	
10	Wellington	1888	41,750	55,000	48,375	61,151	..	..	..	{ 11,000 6,600 } 400/230 A.C.	232	131,267	746	
			41,750	55,000	48,375	61,151	..	..	..	..	2,374	449,739	4,229	

(For notes see page 6.)

TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, ETC., FOR THE YEAR ENDED 31 MARCH 1956—continued

No.	Supply Authorities	Source of Supply <sup>1</sup>	Year when Supply commenced	Capacity of Generating Plant				Static Head, in Feet	Generation	Voltage		Distribution Transformers	Route Miles of Lines
				Water	Steam	Oil	Total			Transmission	Distribution		
				kW.	kVA.	kW.	kVA.	kW.	kVA.	kV.	Number	kVA	No.
1	Borohoit Councils	B.	1903								34	1,997	14
2	Bluff	B.	1905								9	870	2
3	Ipohwood	B.	1917								11	1,800	17
4	Kaupo	G.S.	1917								15	2,850	3
5	Lytleton	G.S.	1917								15	2,850	4
6	Ohakune	G.N.	1914	96	120				96	120	56	1,443	73
7	Patea	B.	1901								26	1,150	29
8	Raetihi	G.N.	1917	376	470				376	470	41	886	38
9	Rangiora	B.	1919								9	1,500	16
10	Riccarton	G.S.	1916			52	65		52	65	43	6,750	27
11	Rotorua Electric Supply	G.N.	1901								35	5,453	10
12	Stratford	B.	1898								11	1,200	14
13	Tairāpiti	B.	1913	150	150 D.C.				150	150 D.C.	27	4,240	20
14	Taumarunui	G.N.	1924	425	500				425	500	27	3,617	30
15	Taupo	I.	1952	1,120	1,140				1,120	1,140	28	1,468	14
16	Tauranga	I. & G.N.	1915	3,440	4,300				3,440	4,300	26	3,945	15
17	Te Aroha	B.	1906	133	166				133	166	20	2,285	16
18	Thames	B.	1914	100	122				100	122	18	2,650	17
19	Waikato	B.	1913								22	3,670	30
20	Waikare	B.	1917								14	1,350	18
21	Whakatane	B.	1922								27	4,240	19
22	Whangarei	B.	1915								68	9,860	92
				5,840	6,968	52	65	5,892	7,033		1,122	75,676	1,394
1	TOWN BOARDS												
2	Kaponga	B.	1916								57	1,238	54
3	Mangaweka	B.	1913								8	1,175	11
4	Heathcote	G.S.	1914								65	1,413	65
5	Kaikoura	I.	1922			456	570		456	570	12	3,400	83
6	Murchison	I.	1922	200	246	80	100	200	346	400	14	660	11
7	Amethyst Power Ltd.	I.	1954	200	246	536	670	736	916	1,000	44	600	39
8	Kamari Electric Ltd.	I. & G.S.	1921	192	240						70	4,660	133
9	Wilson's (N.Z.) Port. Cement	I. & G.S.	1916	1,560	1,950	150	187	1,920	2,400	2,900	31	357	25
10	Westland Power Ltd.	I. & G.S.	1928	845	925						8	1,390	29
11	Totals			5,597	6,865	150	187	5,747	7,052	8,400	50	1,155	37
12	GRAND TOTALS			872,422	997,231	59,375	66,638	940,161	1,081,747	1,200,000	101	2,963	120
											178	5,865	211
											38,277	1,708,204	53,245

(<sup>1</sup>) G.N. = Government supply North Island; G.S. = Government supply South Island; B = Bulk supply from another supply authority; I = Independent supply (own generating plants).

(<sup>2</sup>) Returns for year ended 31 December 1955.

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1956

No.	Supply Authorities	Connected Load	Maximum Load	Demand Factor	Annual Load	Generated			Feed Back	Net Generated	Purchased	Net Generated and Purchased	Sold		Per Head of Population	Units Sold (Average)			Average Maximum Demand per Retail Consumer	
						Water	Steam	Oil					In Bulk for Resale	Retail to Consumers		Per Consumer (Excluding Bulk Supply)	Per Cent of Distribution Capital	Route-mile of Line		
																				kWh.
STATE HYDRO-ELECTRIC DEPARTMENT																				
1	Power Houses	40,304	7,571	9.4370-78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	Ashburton	1,089,402	145,311	13.3551-77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	Auckland	23,203	1,560	6.8554-56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	Bay of Islands	81,560	8,983	11.0160-90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	Bay of Plenty	38,181	11,373	10.0189-79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	Buller	20,033	1,900	9.8846-52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	Cambridge	22,241	3,919	17.5957-26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	Central Hawke's Bay	62,673	5,604	8.9156-63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	Central Waikato	109,573	18,610	9.8256-20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	Dannevirke	54,453	4,146	7.6189-32	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	Franklin	72,319	11,458	15.0163-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	Golden Bay	9,500	1,561	16.4257-10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	Grey	70,001	8,215	11.7458-34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	Hawke's Bay	197,353	26,239	10.9157-55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	Horowhenua	115,230	11,364	9.8658-29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	Hutt Valley	547,907	58,969	10.7444-80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	King Country	23,971	2,163	9.0652-27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	Manawatu	13,528	1,021	7.5356-01	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	Manawatu-Oroua	109,844	23,461	8.0451-91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	Marlborough	51,043	5,340	10.4856-49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	North Auckland	97,969	16,230	11.7857-26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	North Canterbury	62,037	8,293	10.0956-81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	Opuake	25,409	2,583	10.1762-61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	Orangi	64,620	7,050	10.9153-12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	Otago Central	22,026	5,036	22.8668-91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	Powder Valley	150,542	9,886	6.5857-30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	South Canterbury	111,294	13,217	7.8856-39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	South Taranaki	47,701	7,690	10.2956-03	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	Springs Eilatere	94,754	9,808	10.3559-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	Taranaki	42,004	10,218	10.5661-30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	Taranaki	48,555	3,698	7.6062-44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32	Tauranga	76,402	10,320	13.0462-44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
33	Te Awarau	54,965	6,179	12.3255-36	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34	Tyrol	4,705	1,800	38.2034-70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35	Thames Valley	251,616	29,939	11.9676-35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36	Waikato	89,742	15,062	9.5158-05	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37	Waikato	111,030	10,440	8.3668-30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38	Waikato	13,384	1,900	14.3020-74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39	Waikato	17,620	3,272	6.8259-24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	Waikato	63,123	6,106	12.5735-36	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41	Waikato	416,419	8,965	8.9654-32	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42	Waikato	50,145	5,714	9.6024-71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43	Waigaiti-Rangitikeri	196,401	29,574	9.8350-16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
44	Waikato	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45	Waikato	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(For notes see page 3.)

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1956—continued

No.	Supply Authorities	Con- ferred Load	Max- imum Load	Demand Factor		Generated			Feed Back	Net Generated	Purchased	Net Generated and Purchased	Sold		Per Head of Population <sup>1</sup>	Per Cent of Consumer Bulk (Excluding Bulk Suppl.)	Per Cent of Distribution of Capital	Per Route-mile of Line <sup>2</sup>	Average Maximum Demand per Consumer kWh
				Annual Factor	%	Water	Steam	Oil					In Bulk for Resale	Retail to Consumers					
				kw	%	kWh	kWh	kWh					kWh	kWh					
1	Ctry. Councils																		
2	Christchurch	663,986	85,691	12.91-46-15	180,851,300	..	2,364,360	180,651,500	346,406,924	345,406,924	345,406,924	316,159,667	76,193	316,159,667	1,864	5,206	98	213,097	1,498
3	Dunedin	300,534	62,140	20.14-58-23	180,851,300	..	2,364,360	180,651,500	346,406,924	345,406,924	316,159,667	76,193	316,159,667	1,864	5,206	98	213,097	1,498	
4	Hamilton	73,116	6,112	11.10-53-76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	Invercargill	68,194	8,199	12.61-39-80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	Napier	33,082	3,780	17.47-52-86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	Nelson	68,569	6,005	9.62-53-58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	New Plymouth	100,732	12,640	12.55-64-68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	Palmston North	155,696	13,728	8.42-51-72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	Tinianu	82,421	8,408	10.20-52-52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	Wellington	470,915	66,730	14.16-45-39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	Horouhu Councils																		
13	Bluff	7,340	803	10.93-43-62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	Inglewood	9,408	526	5.93-57-96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	Kaipara	7,783	873	11.20-51-68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	Lyttelton	14,101	949	6.73-57-44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	Otago	5,203	603	11.67-58-43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	Patea	7,509	798	10.63-56-12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	Racine	4,379	482	11.09-55-43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	Rangiora	12,868	1,039	8.23-61-36	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	Riccarton	32,322	3,312	10.23-56-70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	Rotorua Electric Supply	67,424	7,403	11.10-55-87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	Stratford	27,619	1,500	5.13-62-70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	Tairāne	9,980	739	7.51-53-28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	Tangarua	11,704	1,196	10.22-54-03	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	Tapanui	15,003	1,705	5.29-48-21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	Tauranga	21,998	3,676	16.71-69-26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	Ts. Aroha	10,723	966	9.28-56-12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	Thames	16,332	1,296	7.93-70-79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	Waikato	16,374	1,979	12.08-47-04	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	Waikare	12,612	910	17.20-52-13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32	Whakatane	24,960	1,824	7.31-51-03	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
33	Whangarei	56,970	4,783	6.40-47-60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34	Town Boards																		
35	Kaponga	5,053	750	15.00-59-39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36	Mangawaka	945	181	19.15-43-92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37	Country Councils																		
38	Heathcote	20,243	2,237	11.05-55-21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39	Kaikoura	2,430	230	9.33-43-04	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	Murchison	3,667	229	6.19-62-74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(For notes see page 9.)





TABLE VIII—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1930

No.	Supply Authorities	Capital Outlay	Loan Liability	Revenue			Working Costs			Capital Charges					Net Results		Appropriation of Capital Works				
				Sales of Energy	Feed-back Charges	Trading Account Profit	Other (Excluding Rates)	Total	Cost of Power	Transmission and Distribution	Management and General	Total	Interest	Sinking Fund	Depreciation	Other		Total	Surplus	Deficit	
		£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)		
1	STATE HYDRO-ELECTRIC DEPARTMENT	125,919,044	111,041,263	771,738	3,360,814	1,012,992	757,639	865,097	2,765,302	653,533	1,116,198	699,223	5,214,856	9,080,033	128,035	182,190	20,562	..	..	..	
2	Power Boards	894,546	551,393	4,132	105	202,732	5,475	208,467	19,748	119,348	19,693	14,558	19,693	19,315	23,833	62,042	23,833	62,042	..		
3	Ashburton	8,022,971	2,672,733	4,135	250	2,619,228	12,674	41,465	346,694	230,301	114,676	230,301	1,930,206	114,676	10,150	165,875	372,955	165,875	372,955	..	
4	Auckland	200,889	142,067	458	342	48,504	4,486	48,504	53,207	17,012	11,110	17,012	11,110	4,083	5,743	5,743	14,655	5,743	14,655	..	
5	Banks Peninsula	1,094,676	787,416	1,279	21,027	240,325	3,924	240,325	53,207	17,012	27,633	17,012	11,311	11,311	11,740	11,740	79,306	11,740	79,306	..	
6	Bay of Plenty	622,069	411,347	1,279	21,027	240,325	4,611	240,325	116,816	32,011	13,072	20,727	169,534	13,072	16,501	11,740	41,313	210,467	29,458	..	
7	Butler	168,416	61,376	105	3,448	35,377	228	35,377	20,768	5,907	3,845	5,907	8,732	3,845	336	4,474	4,474	46,887	18,470	..	
8	Cambridge	188,485	30,545	250	342	96,778	641	96,778	10,471	15,756	1,076	5,865	68,604	1,076	4,506	22,771	16,010	79,704	17,274	..	
9	Central Hawke's Bay	539,432	367,362	631	96	131,113	8,930	131,113	59,544	11,200	10,008	11,200	8,930	10,008	22,771	32,859	118,212	12,901	23,878	..	
10	Central Waikato	1,335,942	780,301	310	96	432,326	2,472	432,326	198,734	48,301	24,608	48,301	24,608	9,635	7,000	10,322	108,903	396,601	35,725	..	
11	Dannevirke	430,225	135,361	1,275	..	131,495	1,930	131,495	44,569	11,942	6,354	11,942	8,304	6,354	10,322	25,040	112,025	18,870	22,966	..	
12	Franklin	912,607	692,200	1,633	273	208,467	1,732	208,467	123,787	28,100	26,786	33,291	185,168	26,786	5,867	44,255	76,908	262,076	26,391	..	
13	Golden Bay	165,447	77,291	989	2,229	41,465	594	41,465	16,953	2,458	3,175	14,667	6,658	3,175	414	5,218	7,138	31,960	9,486	..	
14	Greys	476,611	75,655	632	..	484,411	3,257	484,411	28,638	28,638	3,175	21,000	149,000	3,175	8,193	22,508	164,004	40,040	22,709	..	
15	Hawke's Bay	1,417,127	719,815	2,472	65,335	233,947	5,214	233,947	71,430	44,709	30,576	44,709	30,576	30,576	57,795	91,696	458,032	36,349	17,350	..	
16	Hornby	938,726	508,349	2,072	..	351,335	2,072	351,335	120,680	36,772	11,826	20,636	206,200	11,826	549	40,637	58,325	236,533	24,002	..	
17	Hutt Valley	1,635,571	974,172	1,204	..	976,561	13,633	976,561	573,973	111,233	32,144	75,647	760,853	32,144	6,124	65,486	103,734	864,607	111,954	..	
18	King Country	409,473	84,473	989	..	35,245	9,871	35,245	23,439	4,800	8,922	12,864	11,653	8,922	1,905	11,347	22,104	63,346	31,809	..	
19	Manawatu	143,930	38,694	736	..	135,693	1,896	135,693	11,269	2,834	7,741	14,900	7,741	2,701	3,573	9,234	27,505	7,967	8,098	..	
20	Manawatu-Oroua	1,005,717	566,001	1,224	..	415,301	1,733	415,301	236,880	43,393	10,734	43,393	306,474	10,734	100	12,372	131,245	54,006	26,447	..	
21	Marlborough	707,504	330,631	3,707	..	332,232	4,425	332,232	16,616	16,616	11,826	11,547	94,125	11,826	549	12,372	55,347	131,476	27,736	..	
22	North Auckland	1,341,530	741,626	2,374	..	351,543	11,680	351,543	178,673	30,700	25,587	29,466	298,047	25,587	56,414	81,981	320,828	30,715	26,330	..	
23	North Canterbury	573,032	338,215	1,713	..	183,393	4,268	183,393	68,762	18,000	12,496	13,077	191,544	12,496	5,000	19,643	165,993	17,410	11,919	..	
24	Otago	294,851	91,438	210	..	276,397	719	276,397	59,063	9,002	1,416	13,077	59,063	1,416	9,673	14,247	66,444	66,444	11,953	..	
25	Chago	1,000,748	498,963	2,273	..	233,947	5,269	233,947	76,102	42,300	18,208	11,714	136,176	18,208	2,060	24,784	53,737	183,903	50,404	..	
26	Otago Central	501,206	254,354	3,707	..	300,636	78	300,636	16,210	385	12,739	15,343	44,039	12,739	301	24,817	31,625	79,784	10,232	..	
27	Powert Bay	1,007,031	557,293	1,421	..	259,767	6,808	259,767	99,300	47,792	15,071	26,403	180,117	15,071	7,165	27,798	58,432	238,569	21,180	..	
28	South Canterbury	1,011,116	572,450	1,457	..	314,352	1,342	314,352	164,813	28,316	20,360	26,507	299,316	20,360	14,000	37,705	73,779	294,010	30,337	..	
29	South Taranaki	428,346	30,354	3	..	101,239	3	101,239	85,768	20,330	1,416	16,094	101,239	1,416	10,407	20,330	149,436	31,813	19,105	..	
30	Springes Ellesmere	543,393	342,386	431	..	199,201	1,078	199,201	108,569	21,683	13,006	13,812	143,006	13,006	9,059	32,145	177,211	21,900	5,266	..	
31	Taranaki	938,143	458,286	675	..	259,528	6,045	259,528	114,732	18,369	16,523	15,923	156,253	16,523	48,340	65,675	221,968	37,500	21,001	..	
32	Tararua	361,996	189,617	1,913	..	105,759	2,472	105,759	40,361	13,389	7,214	11,069	64,818	7,214	224	11,893	25,486	14,453	10,007	..	
33	Te Awamutu	625,135	225,746	19	..	162,050	2,128	162,050	115,775	40,832	20,301	19,526	176,553	20,301	7,165	22,627	50,522	146,393	16,178	..	
34	Te Awamutu	96,035	44,294	1,607	..	21,070	869	21,070	7,578	2,578	1,366	4,269	10,367	1,366	6,436	9,648	7,214	17,381	3,489	..	
35	Thames Valley	1,498,950	757,297	1,705	..	631,489	1,705	631,489	323,102	80,051	27,134	43,264	446,497	27,134	13,906	85,174	126,244	572,731	78,738	..	
36	Waikato	867,419	362,046	1,774	..	270,063	3,774	270,063	158,809	19,479	11,441	18,014	196,374	11,441	2,976	22,942	35,743	234,137	36,928	..	
37	Waikato	789,610	361,621	10,465	..	263,542	3,047	263,542	113,114	42,663	11,441	29,656	187,251	11,441	13,654	16,471	43,011	230,262	33,288	..	
38	Waikato	319,453	216,757	1,005	..	45,074	6,091	45,074	3,377	6,693	9,435	3,329	23,229	9,435	10,603	20,571	43,011	43,011	1,174	..	
39	Waikato	170,191	80,357	1,581	..	7,564	1,581	7,564	35,007	6,325	3,017	8,774	50,106	3,017	2,357	5,345	10,638	60,694	6,600	..	
40	Waikato	522,865	259,759	4,533	..	189,958	5,800	189,958	86,180	15,486	8,990	12,459	124,659	8,990	2,500	28,320	50,494	171,753	15,185	..	
41	Waitemata	1,989,833	1,157,311	3,654	..	781,616	3,654	781,616	383,028	144,358	40,416	68,704	536,200	40,416	3,233	69,000	114,070	708,360	73,004	..	
42	Waitemata	526,029	281,412	1,318	..	136,540	5,103	136,540	60,650	14,332	9,642	14,816	89,296	9,642	905	23,499	37,265	127,083	9,507	..	
43	Waikato-Rangitikei	1,259,622	431,161	18,176	..	461,597	10,976	461,597	214,371	55,885	16,172	38,591	309,237	16,172	6,831	69,353	97,305	406,532	35,035	..	
44	Waikato-Rangitikei	39,630,778	18,311,394	80,260	..	748,009	94,409	748,009	26,039	6,177	683,468	1,613,020	1,136,466	683,468	272,479	1,282,362	3,368,351	11,346,627	1,401,381	..	
45	City Councils	5,215,791	427,353	1,444	..	1,362,005	778	1,362,005	671,486	187,509	11,318	92,503	1,521,996	11,318	131,807	25,431	169,481	1,290,456	207,946	75,839	..
46	Christchurch	4,815,945	2,027,959	2,832	..	1,921,688	1,537	1,921,688	826,233	145,227	103,480	77,882	1,433,153	103,480	67,307	10,630	233,667	723,876	92,437	..	
47	Dunedin	200,640	44,880	2,839	..	205,413	2,839	205,413	91,005	24,673	1,660	15,374	113,248	1,660	9,106	11,961	124,209	151,279	23,919	..	
48	Invercargill	368,430	37,007	54	..	127,320	54	127,320	24,673	10,048	144,562	10,048	144,562	14,562	8,297	7,768	154,528	154,528	51,085	..	
49	Namer	177,647	82,12																		

TABLE VIII—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1956—continued

No.	Supply Authorities	Capital Outlay	Revenue			Working Costs			Capital Charges				Net Results						
			Sales of Energy		Feed-back Standby Charges and Refund of Costs	Trading Account Profit	Other Sources (Excluding Rates)	Total	Cost of Power		Transmission and Distribution	Management and General	Total	Sinking Fund	Depreciation	Other	Total Annual Costs	Surplus	Deficit
			Retail	Bulk for Resale (Excluding Feed-back)					Generated*	Purchased									
6	City Councils—continued	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	
7	Nelson	274,025	1,311,692	8,860	5,871	1,663	143,005	69,072	22,664	10,429	115,201	2,567	2,114	10,510	19,667	10,510	19,667	10,510	
8	New Plymouth	599,240	373,201	28,270	5,871	3,896	311,238	140,115	83,783	17,872	249,133	2,037	7,018	21,891	15,869	21,891	15,869	21,891	
9	Palmerston North	327,781	271,935	..	8,711	8,213	280,803	135,865	22,415	17,654	176,686	2,740	9,121	23,809	15,683	23,809	15,683	23,809	
9	Tairāne	18,700	139,304	..	705	1,497	1,097,930	626,337	15,337	102,301	117,539	375	1,820	37,373	1,000	37,373	1,000	37,373	
10	Wellington	2,150,570	1,077,533	72,728	20,089	51,216	4,731,961	47,166	760,748	333,156	3,530,779	130,083	117,072	609,690	135,646	4,140,477	591,484	..	
1	Borough Councils	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	
1	Bluff	98,130	19,376	..	592	..	19,368	9,428	5,760	1,967	17,155	..	..	930	..	18,085	1,885	..	
2	Inglewood	24,771	16,279	..	810	..	16,478	9,118	1,739	1,597	12,454	..	..	300	..	13,751	1,021	..	
3	Kaipoi	..	800	..	..	52	18,339	10,988	2,509	2,447	15,744	43	364	220	..	17,119	1,897	..	
4	Lyttelton	35,420	23,183	..	462	902	24,547	10,101	5,459	2,330	17,890	..	..	1,135	..	20,025	4,216	..	
5	Ohakune	..	15,194	..	1,204	312	17,700	6,504	2,120	3,230	12,137	846	820	1,008	..	14,811	2,889	..	
6	Patea	35,435	19,501	..	..	6	19,507	10,314	1,509	2,039	13,862	261	340	947	..	15,410	4,097	..	
7	Raetihi	13,635	11,875	..	..	316	16,850	11,533	3,074	2,610	11,533	1,011	1,011	580	..	13,931	2,019	..	
8	Kangaroa	49,607	25,386	..	1,034	118	27,338	12,961	5,051	4,205	21,872	453	2,035	1,170	..	23,737	2,781	..	
9	Riccarton	129,075	62,930	..	1,341	223	64,494	36,774	11,512	4,205	52,491	1,922	2,035	3,701	..	57,992	6,592	..	
10	Rotorua Electric Supply	624,373	189,762	..	..	7,783	197,545	81,606	30,363	25,952	183,921	18,380	1,492	38,549	..	176,170	21,375	..	
11	Stratford	104,564	41,688	..	26	338	42,032	20,631	2,646	5,792	29,069	1,152	2,495	7,500	..	36,569	5,483	..	
12	Talpahe	33,952	22,563	..	30	..	22,601	9,005	3,736	3,196	15,937	78	171	1,028	..	17,069	1,321	..	
13	Tauramunui	105,727	35,266	..	238	..	34,416	12,372	3,964	3,438	24,634	725	2,639	1,092	..	26,901	13,406	..	
14	Taupo	196,233	34,268	..	..	132	34,432	1,241	3,542	3,120	7,903	6,966	3,324	1,443	..	23,336	11,084	..	
15	Tauranga	231,653	58,169	..	..	748	62,910	2,159	7,628	8,917	27,205	2,594	5,196	4,069	..	39,696	23,906	..	
16	Te Aroha	38,410	23,620	..	..	364	23,984	11,906	4,758	2,164	18,828	126	141	1,907	..	21,091	2,080	..	
17	Thames	49,796	40,088	..	320	..	41,294	18,186	3,925	3,854	26,065	351	388	1,538	..	28,222	13,925	..	
18	Waeroa	33,456	29,255	..	..	156	32,511	20,484	2,738	1,953	25,175	157	797	4,507	..	30,500	1,975	..	
19	Waikanae	43,741	33,904	..	123	..	34,347	13,205	2,278	1,690	17,173	1,076	1,076	1,177	..	18,500	5,007	..	
20	Whakanae	109,101	52,688	..	53	..	53,693	21,627	6,030	3,719	30,776	1,066	1,843	2,868	..	36,373	17,130	..	
21	Whangarei	236,790	98,466	..	..	77	98,543	53,652	7,757	11,640	73,049	1,654	95	2,729	..	82,454	16,089	..	
	TOTALS	2,235,736	866,808	3,993	6,440	13,109	904,349	5,670	118,098	99,630	608,893	37,353	22,611	124,781	37,426	733,674	170,675	..	
1	Town Boards	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	
1	Kaponga	41,487	11,005	..	98	136	20,597	12,039	2,265	2,193	16,496	284	750	1,553	..	19,008	1,514	..	
2	Mangaweka	6,949	3,856	..	97	156	4,089	2,411	1,106	845	4,362	..	..	..	..	4,362	..	..	
	TOTALS	48,436	12,255	..	195	312	24,686	14,449	3,371	3,038	20,856	284	750	1,553	..	23,415	1,514	..	
1	County Councils	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	
1	Healthcote	49,407	35,977	..	328	282	36,787	23,821	3,630	2,732	30,183	629	436	176	..	31,424	5,363	..	
2	Kaikoura	21,541	15,483	..	1,165	357	17,005	10,041	3,756	1,467	15,264	450	..	1,463	..	17,179	81	..	
3	Murchison	35,560	8,065	..	..	102	8,167	..	2,042	281	4,072	..	..	1,430	..	8,006	..	..	
	TOTALS	106,508	31,491	..	1,693	741	61,958	11,790	9,420	4,480	49,519	1,928	436	3,376	..	56,689	5,444	..	
1	Companies	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	
1	Anethyst Power Ltd.	27,203	4,719	..	303	4,929	4,929	..	1,737	1,737	2,288	565	..	1,232	..	4,266	656	..	
2	Kiamuri Electric Ltd.	120,384	24,344	..	..	..	33,605	12,274	4,330	5,564	22,263	1,334	..	1,182	..	24,779	8,829	..	
3	Wilson's (NZ) Fert. Cement	129,133	34,307	..	..	332	29,249	7,947	3,505	3,150	34,705	780	..	780	..	35,485	6,509	..	
4	Westland Power Ltd.	62,196	27,852	..	..	..	3,703	1,066	3,644	7,000	15,414	3,169	..	3,677	..	22,260	6,983	..	
	TOTALS	359,720	100,891	..	550	444	109,766	24,426	11,579	16,501	74,670	3,068	..	6,871	..	86,700	22,976	..	
	TOTALS	..	..	..	..	..	27,788,797	..	..	..	17,428,092	..	..	..	..	25,467,735	2,321,509	447	
	TOTALS	..	..	..	..	..	9,232,710	..	..	..	9,232,710	..	..	..	..	9,232,710	..	..	
	TOTALS	100,950,302	134,875,900	16,112,682	109,307,314	198,518,087	1,805,007	109,369*	3,329,236*	2,350,930	7,875,302	3,624,166	1,046,951	1,508,759	1,508,759	8,431,616	2,115,025	2,321,062	

NOTES.—<sup>1</sup> Return for year ended 31 December 1955. <sup>2</sup> Purchases from sources other than State Hydro-electric Department or supply authorities. <sup>3</sup> Actual running—costs only, including fuel, wages, stores, repairs and maintenance. <sup>4</sup> Includes cost of street-lighting. <sup>5</sup> Purchased. <sup>6</sup> Generated. <sup>7</sup> charges.

\* Statutory charge for year.

<sup>8</sup> Includes taxation (Social Security and Income).

<sup>9</sup> Feed-back.

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1956

No.	Supply Authorities	Capital Outlay			Revenue from Sale of Electricity				Working Costs			Capital Charges			Total Costs			Per Cent. Distribution of Capital		
		Per Head of Population	Per Consumer	Per £1 of Revenue	Per Unit Sold (Including Bulk Sales)	Per Unit Sold (Retail Sales)	Per Unit Sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per kW. (Maximum Demand)	Per Unit Sold	Per kW. (Maximum Demand)	Per Unit Sold	Per kW. (Maximum Demand)	Per Unit Sold	Per Cent. of Capital Outlay	Per kW. (Maximum Demand)		Per Unit Sold	
		£(N.Z.)	£(N.Z.)	£(N.Z.)	d.	d.	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	d.	%	£(N.Z.)	d.	%	
1	STATE HYDRO-ELECTRIC DEPARTMENT	38.30	117.36	4.27	1.107	1.0873	0.873	8.97	27.47	25.51	141.19	0.684	0.223	15.76	0.360	41.98	0.307	0.535	20.09	32.02
2	Ashburton	28.32	86.40	3.39	1.033	0.890	0.890	8.35	25.48	17.91	149.00	0.780	0.233	13.70	0.148	59.86	0.360	0.941	22.10	26.78
3	Auckland	53.04	120.29	4.61	1.637	1.070	0.870	11.68	26.08	27.40	167.54	1.180	0.358	19.65	0.148	75.98	0.358	0.941	26.78	33.00
4	Banks Peninsula	31.16	132.69	4.22	1.515	1.030	0.870	7.38	31.42	28.86	136.81	1.000	0.463	19.05	0.148	63.02	0.463	0.941	23.00	33.90
5	Bay of Plenty	25.35	124.44	2.65	1.025	1.030	0.870	8.70	42.69	20.61	492.34	0.741	0.181	14.91	0.181	70.55	0.181	0.922	18.51	33.90
6	Buller	15.26	50.78	2.48	2.084	2.375	2.375	6.15	20.46	31.10	484.85	1.259	0.293	18.78	0.293	59.50	0.293	1.552	23.16	32.02
7	Cambridge	40.72	136.05	4.44	1.421	1.218	1.218	11.51	34.36	24.56	369.52	0.935	0.233	16.28	0.233	63.68	0.233	1.170	20.37	42.26
8	Central Hawke's Bay	26.38	91.57	3.11	1.268	1.047	1.047	9.18	30.66	21.69	129.17	0.878	0.338	15.23	0.338	63.10	0.338	1.217	21.00	41.01
9	Central Waikato	32.14	103.59	3.35	1.638	1.417	1.417	8.45	29.44	23.08	232.94	0.850	0.322	15.46	0.322	66.61	0.322	1.171	21.31	29.63
10	Daneworks	32.34	100.31	3.20	1.195	1.043	1.043	10.09	31.31	24.88	290.01	0.776	0.292	16.16	0.292	64.19	0.292	1.090	22.87	38.72
11	Franklin	40.78	129.15	4.31	1.325	1.185	1.185	9.45	29.93	24.56	471.95	0.941	0.269	15.60	0.269	59.84	0.269	1.066	20.19	30.12
12	Golden Bay	23.50	66.14	2.39	1.132	1.219	1.219	9.82	27.63	32.36	484.08	0.808	0.128	17.30	0.128	69.41	0.128	1.033	20.37	34.55
13	Grey	36.14	84.06	2.95	0.955	0.902	0.902	8.46	18.75	18.42	421.54	0.724	0.269	13.96	0.269	68.19	0.269	1.033	27.40	34.55
14	Hawke's Bay	32.41	68.57	3.66	1.185	1.021	1.021	8.86	18.75	22.58	240.27	0.623	0.269	15.68	0.269	68.19	0.269	1.033	27.40	34.55
15	Horowhenua	14.79	49.99	1.70	1.052	0.876	0.876	8.70	29.39	16.34	907.83	0.632	0.114	12.92	0.114	77.91	0.114	0.946	14.69	52.06
16	Hutt Valley	31.35	184.06	4.85	2.242	2.242	2.242	6.46	38.07	39.05	136.52	0.927	0.269	19.03	0.269	43.22	0.269	1.681	29.29	15.39
17	King Country	29.23	115.14	4.36	1.951	1.791	1.791	6.71	26.43	32.36	169.32	0.986	0.338	17.96	0.338	51.39	0.338	1.631	27.05	19.17
18	Malvern	36.14	121.42	2.44	0.824	1.144	1.144	9.93	33.30	17.58	486.08	0.612	0.110	13.04	0.110	75.69	0.110	1.259	15.40	35.92
19	Manawatu-Oroua	32.52	106.23	5.33	1.407	1.159	1.159	6.10	19.94	24.86	273.04	0.903	0.338	15.95	0.338	59.11	0.338	1.259	22.94	21.37
20	Marlborough	41.58	129.63	4.10	1.177	1.103	1.103	8.98	27.99	20.78	132.84	0.770	0.264	14.72	0.264	67.94	0.264	1.631	19.77	23.22
21	North Auckland	31.99	92.72	3.25	1.365	1.306	1.306	8.57	38.07	21.39	140.13	0.797	0.291	14.66	0.291	66.27	0.291	1.088	29.02	29.97
22	North Canterbury	44.91	166.77	4.08	1.393	1.227	1.227	11.01	40.88	27.98	261.59	0.986	0.275	19.80	0.275	66.58	0.275	1.269	25.31	15.24
23	Opunake	36.94	108.10	4.40	2.079	2.130	2.130	8.39	24.56	32.26	136.13	1.190	0.491	18.46	0.491	55.64	0.491	1.681	26.09	18.38
24	Otago	46.20	132.17	5.81	0.950	0.916	0.916	7.95	22.75	17.15	114.54	0.194	0.383	8.91	0.383	49.82	0.383	0.879	15.84	21.48
25	Otago Central	25.05	91.64	4.00	1.347	1.125	1.125	6.26	22.89	25.47	306.32	0.964	0.313	18.22	0.313	69.34	0.313	1.276	24.13	25.12
26	Poverty Bay	30.21	118.47	3.25	1.060	1.642	1.642	8.24	25.54	20.47	211.64	0.749	0.264	14.47	0.264	70.06	0.264	1.088	19.32	29.08
27	South Canterbury	23.75	75.32	2.45	1.066	0.765	0.765	9.13	28.96	22.75	405.41	0.749	0.124	15.98	0.124	71.21	0.124	0.873	18.62	32.61
28	South Taranaki	25.13	91.34	2.75	1.005	1.021	1.021	9.14	33.23	19.79	344.70	0.737	0.163	14.52	0.163	74.82	0.163	0.901	17.74	36.51
29	Springs Eiteneere	63.32	206.91	4.50	1.037	1.169	1.169	10.37	33.89	20.40	305.26	0.747	0.327	14.69	0.327	60.22	0.327	1.073	21.11	30.44
30	Taranaki	37.78	114.95	3.57	1.455	1.300	1.300	10.58	31.63	27.49	177.93	0.931	0.380	17.58	0.380	61.29	0.380	1.311	24.76	25.22
31	Taranaki	34.26	100.81	3.87	1.088	0.946	0.946	8.05	26.04	22.67	211.10	0.821	0.253	17.11	0.253	74.79	0.253	1.088	22.00	25.07
32	Tauranga	34.63	115.53	3.86	1.297	1.121	1.121	8.96	29.00	23.52	137.73	0.987	0.186	17.91	0.186	75.78	0.186	1.173	21.28	23.42
33	Te Awamutu	19.06	76.19	2.31	0.841	0.735	0.735	3.61	27.96	10.35	137.73	0.469	0.526	5.76	0.526	49.20	0.526	0.795	9.77	21.82
34	Teviot	25.18	76.19	2.31	0.836	1.137	1.137	10.31	31.50	21.70	281.04	0.685	0.193	14.91	0.193	68.53	0.193	0.678	19.13	39.21
35	Thames Valley	35.23	111.74	3.26	0.909	1.038	1.038	7.99	25.33	17.64	367.16	0.672	0.126	13.03	0.126	72.71	0.126	0.797	15.47	27.27
36	Waikanae	23.66	80.94	3.21	1.133	0.910	0.910	8.00	25.22	23.30	265.96	0.863	0.260	17.76	0.260	61.05	0.260	1.065	21.88	27.37
37	Waikato	22.06	72.06	3.41	1.030	0.988	0.988	7.79	26.61	19.99	74.60	0.633	0.538	12.28	0.538	51.76	0.538	1.191	17.14	17.14
38	Waipare	21.27	72.06	2.58	1.035	1.528	1.528	9.14	32.78	20.17	218.20	0.786	0.170	15.31	0.170	64.16	0.170	0.936	18.63	35.82
39	Waioa	26.32	121.62	2.91	1.212	0.999	0.999	9.01	24.51	21.94	238.92	0.841	0.338	15.23	0.338	65.63	0.338	1.179	21.35	34.77
40	Waikato	19.33	50.18	2.56	1.191	1.092	1.092	7.64	19.62	20.77	299.47	0.913	0.172	15.92	0.172	76.29	0.172	1.084	18.91	35.60
41	Waikato	25.18	131.15	4.04	1.302	1.039	1.039	6.23	32.45	22.70	233.70	0.868	0.574	15.65	0.574	65.74	0.574	1.271	24.16	24.16
42	Waikato	21.71	71.31	2.91	1.168	0.940	0.940	7.26	23.05	21.22	291.69	0.835	0.263	15.18	0.263	67.00	0.263	1.098	19.95	34.58
43	Wanganui-Rangitikei	20.20	86.99	3.20	1.162	1.026	1.026	9.41	26.32	..	313.44	0.801	0.212	..	0.212	70.43	0.212	1.013	..	29.27

(For notes see page 14.)

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1956—continued

No.	Supply Authorities	Capital Outlay			Revenue from Sale of Electricity						Working Costs			Capital Changes			Total Costs			
		Per Head of Population	Per Consumer	Per £1 of Revenue	Per Unit Sold (Including Bulk Sales)	Per Unit Sold (Retail Sales)	Per Unit Sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per kW of Maximum Demand	Per Unit Sold	Per kW of Maximum Demand	Per Unit Sold	Per kW of Maximum Demand	Per Unit Sold	Per kW of Maximum Demand	Per Unit Sold	Per Cent of Distribution Capital		
1	Christchurch	£(N.Z.) 19.06	£(N.Z.) 56.21	£(N.Z.) 2.43	0.983	0.982	0.799	£(N.Z.) 7.63	£(N.Z.) 22.62	£(N.Z.) 15.11	£(N.Z.) 872.22	0.851	13.09	86.12	0.128	1.97	5.24	0.979	£(N.Z.) 15.06	40.13
2	Dunedin	47.07	136.51	0.96	0.672	0.734	0.610	6.76	19.87	15.11	1013.17	0.357	13.09	47.24	0.240	4.36	3.69	0.597	15.36	28.72
3	Hamilton	13.18	37.62	1.53	1.298	0.915	0.915	6.52	22.61	23.40	889.35	0.774	13.96	58.77	0.082	1.47	4.12	0.856	15.43	43.08
4	Invercargill	13.66	37.75	1.94	1.711	1.508	1.508	6.52	19.44	22.06	1397.22	1.134	14.63	70.38	0.098	2.77	2.65	1.252	15.76	41.77
5	Napier	10.92	33.69	1.43	1.203	0.935	0.935	7.34	23.49	21.43	842.62	0.884	15.75	71.51	0.156	3.44	9.03	1.040	18.53	67.65
6	Nelson	17.64	50.46	2.00	1.164	0.807	0.807	8.48	24.25	19.95	1874.61	0.903	15.48	81.12	0.093	1.60	3.85	0.996	17.08	51.50
7	New Plymouth	17.60	53.80	2.19	1.012	0.792	0.792	8.07	25.47	21.61	615.32	0.886	19.13	60.65	0.081	1.72	3.64	0.977	20.85	76.62
8	Palmerston North	15.05	44.97	1.82	1.179	0.825	0.825	7.83	23.39	19.81	2122.83	0.766	12.87	63.92	0.109	1.84	4.83	0.876	14.71	43.02
9	Timaru	10.99	34.05	1.68	0.972	0.694	0.694	6.11	20.22	16.58	1856.18	0.820	13.98	63.45	0.076	1.29	4.63	0.896	15.27	54.70
10	Wellington	19.39	49.52	2.00	1.020	0.679	0.679	9.22	24.81	16.14	1444.41	0.910	14.40	87.62	0.049	0.77	2.39	0.938	15.17	47.08
		22.43	65.35	2.76	0.982	0.753	0.753	7.95	23.17	1084.87	0.743	..	74.62	0.130	..	..	..	0.874	..	41.39
1	Bluff	10.44	33.84	1.45	1.744	1.959	1.959	7.19	23.32	24.13	1426.17	1.544	17.37	85.91	0.084	1.16	3.31	1.638	22.52	64.51
2	Inglewood	13.36	33.60	1.36	1.602	1.314	1.314	9.68	24.48	29.17	868.21	0.225	22.32	75.50	0.091	1.65	4.10	1.317	23.97	59.51
3	Kaupoi	9.81	26.43	1.37	1.255	1.197	1.197	7.15	20.87	20.71	1080.84	1.067	18.03	63.13	0.093	1.57	3.32	1.160	19.61	69.02
4	Lyttelton	16.69	51.43	2.99	1.515	0.983	0.983	7.07	20.78	24.95	1281.57	1.175	19.35	73.34	0.136	2.37	6.83	1.332	21.92	58.14
5	Ohakune	16.10	55.07	2.99	1.630	1.398	1.398	5.41	18.42	24.99	206.72	1.272	19.50	68.57	0.287	3.40	5.89	1.558	25.89	36.81
6	Patea	15.71	46.32	1.82	1.324	1.289	1.289	8.65	25.49	24.44	603.05	0.941	17.37	71.06	0.105	1.94	4.37	1.017	19.31	43.49
7	Raetihi	16.63	75.72	3.81	1.547	1.332	1.332	5.15	19.86	24.62	312.50	1.410	26.34	68.56	0.310	4.93	5.25	1.720	27.37	44.78
8	Rangiora	16.60	52.30	1.50	1.186	0.944	0.944	8.38	21.47	24.92	1633.55	0.963	20.63	79.32	0.083	1.78	4.75	1.083	22.43	59.85
9	Riccarton	16.31	52.66	2.05	1.020	0.792	0.792	7.95	25.60	19.00	2341.48	0.851	15.85	81.39	0.098	1.63	4.19	0.939	17.48	44.86
10	Rotorua Electric Supply	22.60	71.53	3.29	1.408	1.219	1.219	6.87	21.74	25.36	279.54	1.024	18.45	69.82	0.284	5.11	6.15	1.307	23.54	28.22
11	Stratford	21.73	62.09	2.51	1.339	0.964	0.964	8.67	24.76	27.79	1429.63	0.953	19.30	69.13	0.241	5.00	7.17	1.174	24.30	34.97
12	Taihape	14.78	41.52	1.51	1.735	1.104	1.104	9.16	27.52	30.11	1611.64	1.226	21.27	70.51	0.118	2.04	4.51	1.343	23.31	62.26
13	Taurarunui	27.54	78.19	2.96	1.741	1.144	1.144	10.65	26.41	29.79	1178.70	0.876	16.70	55.46	0.219	3.74	4.24	1.195	20.44	40.61
14	Taupo	37.17	143.44	3.78	3.014	3.112	3.112	8.16	24.80	43.67	472.18	0.695	19.07	22.95	1.357	19.66	7.79	2.032	29.73	22.14
15	Tauranga	34.51	90.32	4.04	0.815	0.607	0.607	8.55	23.87	16.96	1121.31	0.356	7.50	45.24	0.154	3.21	4.69	0.510	10.61	33.54
16	Te Aroha	13.40	34.24	1.63	1.240	1.099	1.099	8.24	21.05	21.71	507.96	0.888	18.90	78.50	0.114	2.18	5.66	1.102	21.09	58.82
17	Thames	0.66	29.54	1.22	1.325	1.134	1.134	8.16	23.43	31.53	1603.49	0.845	20.11	63.12	0.072	1.71	4.45	0.917	15.82	65.21
18	Wairoa	8.82	27.37	1.04	1.106	0.973	0.973	8.52	26.43	16.33	1078.50	0.865	12.72	77.44	0.197	2.76	16.30	1.047	15.48	91.46
19	Waikanae	17.78	37.64	1.83	1.516	1.378	1.378	6.34	20.57	28.37	1327.68	1.000	18.07	70.35	0.075	1.29	2.69	1.164	20.16	41.05
20	Whakatane	20.05	62.14	2.07	1.724	1.367	1.367	9.68	29.99	28.89	1333.10	1.007	19.87	57.32	0.190	3.18	5.31	1.196	29.05	33.50
21	Whangarei	17.72	54.27	2.50	1.291	0.947	0.947	7.37	22.57	20.58	1067.47	0.950	13.27	74.15	0.125	1.97	3.97	1.031	17.24	34.82
		19.85	60.03	2.57	1.327	1.001	1.001	7.70	23.27	..	624.60	0.919	..	67.33	0.190	..	..	1.109	..	38.14
1	Kanonga	22.98	75.16	2.04	1.441	1.177	1.177	11.27	36.85	26.84	373.97	1.163	21.76	60.09	0.185	3.41	6.24	1.351	25.18	46.00
2	Mangaweka	20.32	42.12	1.81	1.523	1.506	1.506	11.22	23.95	21.20	333.57	1.732	24.11	106.88	..	..	..	1.732	24.11	66.36
		22.56	67.55	2.60	1.453	1.235	1.235	11.26	33.65	..	371.98	1.353	..	84.49	0.155	..	..	1.409	..	49.78

(For notes see page 14.)

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1956—continued

No.	Supply Authorities	Capital Outlay			Revenue from Sale of Electricity						Working Costs			Capital Charges			Total Costs		
		Per Head of Population	Per Consumer	Per £1 of Revenue	Per Unit Sold (Including Bulk Sales)	Per Unit Sold (Retail Sales)	Per Unit Sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per kW. of Maximum Demand	Per kW. of Maximum Demand	Per Unit Sold	Per kW. of Maximum Demand	Per Unit Sold	Per kW. of Maximum Demand	Per Unit Sold	Per kW. of Maximum Demand	Per Cent. of Distribution Capital <sup>1</sup>	
1	County Councils	£(N.Z.)	£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	£(N.Z.)	%		
2	Henahoe	12.26	37.49	1.37	0.879	27.30	16.09	430.86	0.738	13.49	0.030	0.55	0.33	0.768	14.05	67.60			
3	Kaikoura	12.19	49.32	1.42	3.014	30.01	67.32	1346.35	4.943	66.37	0.620	8.33	5.564	5.564	74.69	21.82			
4	Murchison	20.00	124.34	4.41	1.928	28.20	35.22	206.79	0.974	17.78	0.960	17.53	1.933	1.933	55.31	42.24			
		15.06	50.43	1.80	1.236	28.08	..	447.56	1.028	..	0.149	..	1.177	..	..	60.30			
1	Amethyst Power Limited	58.38	316.31	5.76	3.268	3.268	2.405	187.63	1.584	13.00	1.370	11.24	2.954	24.24	22.89	..			
2	Kimera Electric Ltd. <sup>1</sup>	38.51	106.35	3.60	0.849	7.75	19.91	1152.65	0.565	13.25	0.064	1.50	0.028	14.75	38.60	..			
3	Wilsons (N.Z.) Portland Cement	85.98	4968.73	3.10	0.322	18.69	8.17	1110.88	0.268	6.80	0.006	0.15	0.271	87.76	..	..			
4	Westland Power Ltd. <sup>1</sup>	21.93	109.36	2.87	1.917	34.19	33.68	241.23	0.817	17.92	0.363	7.96	1.180	25.88	44.32	..			
		40.52	175.82	3.31	0.576	9.51	..	515.60	0.395	..	0.064	..	0.459	..	65.07	..			
	Averages for all Supply Authorities <sup>2</sup>	83.92	258.65	6.66	1.121	25.69	..	510.55	..	..	..	..	..	..	..	26.63	..		
	Averages for 1955	76.46	289.79	6.41	1.128	24.79	..	495.80	..	..	..	..	..	..	..	27.39	1955		
	" 1954	69.43	222.93	6.33	1.107	23.13	..	469.75	..	..	..	..	..	..	..	23.52	1954		
	" 1953	62.04	190.47	6.20	0.894	17.00	..	332.18	..	..	..	..	..	..	..	22.23	1953		
	" 1952	54.74	163.61	7.57	0.869	16.51	..	328.28	..	..	..	..	..	..	..	22.63	1952		
	" 1951	49.07	140.88	7.35	0.858	15.18	..	304.59	..	..	..	..	..	..	..	22.68	1951		
	" 1950	44.07	140.88	6.78	0.842	15.20	..	306.51	..	..	..	..	..	..	..	23.39	1950		
	" 1949	40.44	139.57	6.35	0.830	14.76	..	296.59	..	..	..	..	..	..	..	23.60	1949		
	" 1948	37.17	130.67	6.02	0.829	13.74	..	297.29	..	..	..	..	..	..	..	22.71	1948		
	" 1947	34.11	121.97	6.16	0.819	13.83	..	310.80	..	..	..	..	..	..	..	22.21	1947		

NOTES.—<sup>1</sup>Returns for year ended 31 December 1955. <sup>2</sup>Excludes sundry private plants (Table VII) who do not furnish returns. <sup>3</sup>Retail sales. <sup>4</sup>Revenue from total units sold (bulk sales plus retail sales). <sup>5</sup>Excludes costs of generating feed-back. <sup>6</sup>Excludes costs of generating feed-back.



TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1956

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population in Area of Supply	Consumers			Ranges			Water-heaters			Milk-machines		Consumers Per Route-mile of Line <sup>1</sup>
				Domestic	Commercial	Total	Number <sup>1</sup>	Total Kilowatts	Ratio, Number of Ranges to Domestic Consumers	Number	Total Kilowatts	Ratio, Number of Water-heaters to Total Consumers	Number	Horse-power	
STATE HYDRO-ELECTRIC DEPARTMENT															
1	North Island ..	56,450	30.95	660	3	663	606	3,716	91.82	735	786	110.86	255	219	0.23
2	South Island ..	56,450	..	15,210	2,263	17,473	6,740	44,334	44.31	5,958	7,511	34.10	2,232	2,983	3.70
				15,870	2,266	18,136	7,346	48,050	46.29	6,693	8,297	36.90	2,487	3,202	2.37
POWER BOARDS															
1	Ashburton ..	21,530	39.66	6,226	806	7,032	4,253	17,617	68.31	5,485	11,047	78.00	360	251	5.14
2	Auckland ..	311,999	32.77	88,361	13,754	102,115	56,848	407,000	64.34	63,846	48,500	62.52	1,150	1,150	56.86
3	Banks Peninsula ..	3,731	44.76	1,597	73	1,670	909	5,946	56.92	899	1,429	53.83	223	182	6.42
4	Bay of Plenty ..	35,130	23.48	7,217	1,033	8,250	4,313	28,194	59.76	5,248	4,177	63.61	1,783	2,742	4.35
5	Bay of Plenty ..	24,542	20.37	4,325	674	4,999	2,859	17,707	66.10	3,711	3,129	74.23	972	1,591	10.50
6	Buller ..	10,013	30.05	2,495	514	3,009	107	801	4.29	196	166	6.51	90	85	23.69
7	Cambridge ..	8,303	33.49	2,475	308	2,781	1,591	10,675	64.33	2,145	2,217	77.13	509	613	10.69
8	Central Hawke's Bay ..	13,248	29.93	3,384	581	3,965	2,750	18,597	82.45	2,444	2,773	61.64	330	316	4.21
9	Central Waikato ..	50,836	28.70	13,225	1,364	14,589	7,357	48,961	55.63	9,721	7,937	66.63	3,005	3,895	7.91
10	Dannevirke ..	13,386	31.02	3,535	618	4,153	2,171	14,719	61.41	2,281	2,229	54.92	582	707	8.62
11	Franklin ..	28,218	32.24	8,122	976	9,098	5,280	32,050	65.01	7,477	6,183	82.18	2,784	3,380	9.25
12	Golden Bay ..	4,057	31.57	1,137	144	1,281	567	3,187	49.87	720	620	56.21	251	269	5.74
13	Grey ..	20,279	35.53	6,180	1,026	7,206	2,645	17,597	42.80	2,136	2,190	29.64	128	147	17.88
14	Hawke's Bay ..	49,415	34.12	14,574	2,284	16,858	11,719	83,657	80.41	10,854	10,851	64.38	538	161	14.70
15	Horowhenua ..	28,956	47.26	11,350	2,335	13,685	6,807	45,109	59.97	7,352	5,543	53.72	894	1,191	12.81
16	Hutt Valley ..	110,597	29.58	29,998	2,722	32,720	21,250	146,938	70.84	22,685	17,379	69.33	147	187	30.89
17	King Country ..	19,072	16.98	2,072	147	2,219	669	4,536	32.29	746	1,082	33.62	280	376	3.59
18	Malvern ..	4,924	25.39	1,112	138	1,250	435	2,550	39.12	365	545	29.20	65	38	4.14
19	Manawatu-Oroua ..	27,830	29.76	7,496	787	8,283	4,990	34,651	66.57	5,758	4,272	69.52	2,121	2,678	9.76
20	Marlborough ..	21,758	30.60	5,633	1,026	6,659	2,205	16,085	39.14	2,036	1,785	30.58	276	374	13.80
21	North Auckland ..	33,237	32.07	9,644	1,012	10,656	5,838	34,683	60.53	8,079	6,424	75.82	3,086	4,273	4.20
22	North Canterbury ..	17,914	34.50	5,632	548	6,180	3,073	20,299	54.56	3,177	4,545	51.41	574	394	4.88
23	Opunake ..	6,565	26.93	1,607	161	1,768	1,140	7,300	70.94	1,580	1,451	89.37	468	1,175	6.40
24	Otago ..	27,092	34.17	7,952	1,306	9,258	2,359	17,497	29.67	2,458	3,410	26.55	349	461	5.54
25	Otago Central ..	10,849	34.95	3,177	615	3,792	1,201	7,050	37.80	1,497	1,575	39.48	59	60	5.04
26	Poverty Bay ..	40,233	27.34	8,949	2,049	10,998	5,523	47,328	61.72	5,620	6,092	51.10	505	457	13.38
27	South Canterbury ..	26,461	32.25	7,625	910	8,535	3,124	21,747	40.97	2,961	5,042	34.69	510	366	5.80
28	South Taranaki ..	18,034	31.53	4,700	987	5,687	2,787	19,469	59.30	4,053	2,982	71.27	1,103	1,827	13.16
29	Spring-Ellesmere ..	21,622	27.51	5,521	428	5,949	3,922	25,447	71.04	4,187	4,706	70.38	577	448	10.37
30	Taranaki ..	14,815	30.60	4,205	329	4,534	2,023	14,409	48.11	3,285	2,770	72.45	1,837	3,100	6.64

(For notes see page 17.)

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1956—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population in Area of Supply	Consumers			Ranges			Water-heaters			Milk-machines		Consumers Per Route-mile of Line <sup>1</sup>
				Domestic	Commercial	Total	Number	Total Kilowatts	Ratio, Number of Ranges to Domestic Consumers	Number	Total Kilowatts	Per Cent	Ratio, Number of Heaters to Total Number of Consumers	Number	
	Power Boards—continued														
31	Taranaki	9,582	33.45	2,720	485	3,205	2,302	13,887	84.63	2,198	1,923	68.58	674	749	5.63
32	Tairānanga	26,439	33.98	9,068	916	8,984	6,556	43,261	81.26	7,219	6,909	80.35	1,169	1,536	8.11
33	Te Awamutu	18,051	29.98	4,328	1,083	3,900	3,761	19,088	90.11	3,761	3,761	69.51	1,121	1,879	10.74
34	Tevot	5,144	12.93	535	130	665	411	2,798	76.82	446	457	67.07	6	3	4.93
35	Thames Valley	59,527	33.05	18,390	1,285	19,675	10,262	73,433	55.80	13,523	11,240	68.73	4,795	7,714	8.51
36	Waioata	24,622	31.53	6,598	1,165	7,763	4,616	26,207	69.96	4,989	4,978	64.27	720	802	10.73
37	Waikarapa	30,427	31.70	8,141	1,503	9,644	5,877	37,366	72.19	5,974	6,288	61.95	1,346	1,827	11.33
38	Waikare	4,433	27.18	1,042	163	1,205	677	4,788	64.97	846	680	70.21	344	402	2.37
39	Waioa	8,001	17.35	1,272	116	1,388	580	3,941	45.60	694	601	50.00	183	156	4.59
40	Waikāi	19,941	36.74	6,154	1,173	7,327	4,036	26,634	65.58	3,961	4,340	54.06	217	141	9.75
41	Waitemata	101,878	38.92	35,201	4,454	39,655	24,110	159,032	68.49	24,307	22,393	61.30	4,372	2,888	14.75
42	Waitemoa	20,892	19.20	3,398	613	4,011	2,379	16,045	70.01	2,656	2,523	66.22	719	1,000	7.20
43	Wanganui-Rangitikei	58,031	30.43	15,180	2,476	17,656	8,326	56,729	54.85	9,275	8,270	52.25	1,674	1,307	11.91
		1,405,204	31.72	390,551	55,217	445,768	244,787	1,655,065	62.68	272,801	247,414	61.20	42,897	53,293	11.27
	City Councils														
1	Christchurch	169,622	33.73	50,213	7,000	57,213	36,886	274,964	73.46	38,125	32,807	66.64	204	159	38.55
2	Dunedin	102,315	34.03	30,871	3,949	34,820	13,458	86,360	43.59	19,553	25,167	56.17	317	424	44.40
3	Hamilton	22,051	38.00	6,407	1,989	8,396	2,475	17,268	38.63	3,440	2,279	40.97	..	..	39.07
4	Invercargill	29,094	33.55	8,511	1,249	9,760	1,812	10,479	21.29	1,725	1,956	17.67	..	..	71.88
5	Napier	16,883	31.23	4,228	1,045	5,273	1,851	14,689	43.78	2,547	2,146	48.30	..	..	35.87
6	Nelson	15,537	34.95	4,474	957	5,431	1,537	13,120	34.35	3,055	3,110	56.25	..	..	77.32
7	New Plymouth	33,853	31.68	9,408	1,318	10,726	6,769	48,050	71.95	7,960	6,649	74.21	1,061	1,801	24.16
8	Palmerston North	34,729	33.47	10,007	1,617	11,624	5,769	36,731	57.65	7,013	4,702	60.33	..	..	90.74
9	Timaru	22,817	30.21	5,668	1,226	6,894	3,159	22,141	55.73	3,387	5,594	49.13	..	..	92.29
10	Wellington	116,929	37.14	34,926	8,501	43,427	9,475	66,325	27.13	19,321	24,230	44.49	16	11	58.21
		563,830	34.33	164,713	28,851	193,564	83,191	590,127	50.51	106,131	108,640	54.83	1,598	2,395	45.77
	Borough Councils														
1	Bluff	2,695	30.86	688	143	831	299	1,448	43.46	162	195	19.49	..	..	61.17
2	Inglewood	1,682	39.54	494	171	665	296	1,844	59.92	280	297	42.11	..	..	35.47
3	Kaipara	2,528	34.26	751	115	866	451	3,157	60.10	397	451	45.84	..	..	51.78
4	Lyttelton	3,344	34.03	949	186	1,135	417	2,887	43.90	489	625	42.97	6	6	61.70
5	Ohakune	2,808	29.38	624	201	825	144	974	23.07	193	180	23.40	41	47	11.22
6	Patea	2,255	33.92	620	145	765	440	2,926	70.97	434	446	56.73	39	44	26.79
7	Raetihi	2,307	25.92	471	127	598	83	1,762	17.62	138	135	25.92	68	68	15.74
8	Rangiora	3,150	39.02	1,049	180	1,229	585	4,084	55.77	735	766	59.80	..	..	75.62
9	Riccarton	7,914	30.97	2,295	156	2,451	1,539	10,405	67.06	1,823	1,504	74.38	..	..	91.20
10	Rotorua Electric Supply	27,621	31.60	7,226	1,503	8,729	3,447	24,196	47.70	3,852	3,439	44.13	498	913	12.86

(For notes see page 17.)



TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1956—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population in Area of Supply	Consumers		Ranges		Water-heaters		Milk-machines		Consumers Per Route-mile of Line <sup>1</sup>			
				Domestic	Commercial	Total	Number	kW	Per Cent	Ratio, Number to Domestic Consumers	Number		H.P.	Number	Per Cent
<b>Borough Councils—continued</b>															
11	Stratford	4,811	35.00	1,312	372	1,684	855	6,484	65.17	829	801	49.23	22	15	57.75
12	Tairāpapa	2,464	33.28	614	206	820	1,865	1,865	42.51	245	258	29.88	2	2	58.57
13	Taumarunui	3,344	40.34	1,070	279	1,349	346	2,533	32.34	331	242	24.54	6	3	44.64
14	Taupo	4,203	32.83	1,207	175	1,382	302	2,213	25.02	223	205	16.14	..	..	19.04
15	Tauranga	7,292	34.89	1,902	642	2,544	1,631	10,644	85.75	1,762	1,053	69.26	..	..	45.76
16	Te Aroha	2,868	39.12	832	290	1,122	500	3,570	60.10	532	404	47.42	15	27	24.13
17	Thames	5,001	34.89	1,417	328	1,745	897	5,453	63.30	804	719	46.07	2	2	68.43
18	Wauroa	3,796	32.24	925	299	1,224	794	5,429	85.84	759	506	62.01	..	..	40.80
19	Waitara	3,712	31.30	959	193	1,152	520	3,463	53.66	528	405	45.44	..	..	64.51
20	Whakatane	5,445	32.27	1,369	388	1,757	1,016	6,576	74.21	1,032	645	58.74	1	3	34.45
21	Whangarei	13,363	32.65	3,456	907	4,363	2,481	15,504	71.79	2,267	1,672	51.96	..	..	47.30
		112,601	33.08	30,240	7,006	37,246	17,304	116,299	57.22	17,832	14,951	47.88	727	1,152	26.72
<b>Town Boards</b>															
1	Kaponga	1,005	30.58	462	90	552	263	1,804	56.93	444	390	80.43	202	335	10.13
2	Mangaweka	342	48.25	107	58	165	70	402	65.42	73	54	44.24	11	6	14.35
		2,147	33.40	569	148	717	333	2,206	58.52	517	444	72.11	213	341	11.03
<b>County Councils</b>															
1	Heathcote	4,029	32.71	1,304	14	1,318	993	6,037	76.15	1,278	1,285	96.96	9	14	15.78
2	Kaikoura	1,800	28.67	398	118	516	107	430	26.88	18	36	3.49	7	9	44.87
3	Murchison	1,270	22.52	226	60	286	70	469	30.97	111	94	38.81	43	48	7.33
		7,099	29.86	1,928	192	2,120	1,170	6,936	60.68	1,407	1,415	66.37	59	71	15.94
<b>COMPANIES</b>															
1	Amethyst Power Ltd.	466	18.45	70	16	86	16	89	22.86	41	70	47.67	34	82	3.42
2	Kanieri Electric Ltd. <sup>2</sup>	3,126	36.13	896	235	1,131	417	2,896	46.54	375	309	33.16	..	..	38.97
3	Wilson's (N.Z.) Portland Cement	1,502	1.62	24	2	26	38	249	158.33	80	61	307.69	15	26	0.69
4	Westland Power Ltd. <sup>2</sup>	3,784	21.22	727	75	803	150	997	20.63	211	223	26.28	158	197	6.69
		8,978	23.05	1,717	329	2,046	621	4,231	36.17	707	743	34.56	207	305	9.70
<b>GRAND TOTALS</b>		2,156,209	32.45	695,588	94,009	699,597	354,752	2,422,914	58.58	406,088	381,904	58.05	48,180	60,764	13.14

Total population of Dominion as at 1 August 1956 was 2,175,373. Ratio of population in area of supply to total population of Dominion, 99.12 per cent.

Notes.—<sup>1</sup>Only ranges requiring permits for connection to electric supply, therefore not comparable with statistics published prior to 1948. <sup>2</sup>Returns for year ended 31 December 1955. <sup>3</sup>Route-miles of lines now include service lines, therefore not comparable with statistics published prior to 1948.

Handwritten notes and signatures in the right margin, including a signature that appears to be "J. H. H." and some illegible scribbles.

1. Number of Board meetings: 13 (20).

2. Registrations<sup>2</sup>—

- Inspectors
- Electricians
- Electrical servicemen
- Electrical (radio) servicemen
- Limited registrations<sup>1</sup>
- 3. Provisional Licences<sup>2</sup>
- 4. Permits to Assist
- 5. Applications for Ruling on Experience

During Year		Total		Current	
45	(38)	551	(506)	502	(492)
399	(220)	6,235	(5,750)	6,199	(5,737)
25	(25)	305	(274)	294	(269)
138	(105)	765	(624)	754	(621)
102	(59)	922	(812)	855	(798)
361	(307)	922	(561)		
98	(235)	389	(291)		
119	(201)				
Candidates		Passed, Percentage		Highest Marks	
723	(609)	52	(46)	100	(98)
533	(417)	74	(70)	99	(94)
292	(337)	70	(78)	100	(97)
252	(349)	73	(72)	91	(97)

- 7. Defective work reports, 8 (10); endorsements made, 1 (nil); endorsements removed, 1 (3).
- 8. Breach of Act reports, 26 (45); prosecutions authorised, 23 (38).
- 9. Appeals, nil (3).

NOTES.—<sup>1</sup>Includes 19 New Zealand Broadcasting Service; 58 refrigeration servicemen; 5 radio experimenters; 8 automatic telephone and impulse signalling equipment; 2 luminous discharge tubes; 1 work on any Government railway station, workshop, or railway line; 3 electrical wiring for radio sets; 1 assembly and repair of portable domestic appliances; 1 assembly and testing of apparatus manufactured for sale; 2 the operation of motion and sound pictures; 1 maintenance and repair of temperature control equipment and electrical instruments; 1 assembly and repair of Goblin vacuum cleaners. <sup>2</sup>Thirty-four were issued to apprentices. <sup>3</sup>The figures quoted refer to new registrations and do not include registrations under section 12 (1) (a) and (2) of the Electricians Act.