

NEW ZEALAND

ANNUAL STATISTICS IN RELATION TO

**ELECTRIC POWER DEVELOPMENT AND  
 OPERATION**

YEAR ENDED 31 MARCH 1981

FOR DEFINITIONS OF TERMS USED SEE GLOSSARY OF TERMS—APPENDIX 1

LIST OF CONTENTS

	Page
<b>Section A: New Zealand Electricity Only</b>	
(i) Summary of Operating Results	2
(ii) Summarised Profit and Loss Account and Loan Repayment	2
(iii) Summarised Balance Sheet	2
(iv) Analysis of Operating Costs	2
(v) Analysis of Capital Outlay	3
<b>Section B: Combined Results of the New Zealand Electricity and Electrical Supply Authorities</b>	
Condensed statistics detailed in subsequent tables	5
Table I—Financial Results of Generation, Distribution and Operation— (Part I)—Income—Cost of Generation and Electricity Purchased	6
(Part II)—Cost of Operation and Maintenance (Transmission and Distribution); Other costs; Gross Expenditure; Net Results Surplus	8
Table II—Balance Sheet— (Part I)—Liabilities and Reserves	10
(Part II)—Assets	12
Table III—Analysis of Capital Expenditure during year	14
Figure 1: Map showing Supply Authority Licensed Areas	16
Table IV—Statistics of Generating Plant; System Voltages; Distribution Substations; Length of Overhead Lines and Underground Cables	17
Table V—Generation; Distribution; Consumption and Demand	20
Table VI—Analysis of Consumption of Electricity— (Part I)—Domestic; Commercial; Farming	22
(Part II)—Industrial; Non-Domestic; Total Retail Sales	24
(Part III)—Summary of End Use of Electricity	26
Figure 2: Graph showing historical end use of electricity and consumption per consumer	27
Table VII—Averages Derived From Previous Tables	28
Table VIII—Statistics of Population; Electric Ranges and Waterheaters; Staff	30
Table IX—Statistics Relating to Electrical Registration Board	32
Appendix 1—Glossary of Terms	33
Appendix 2—Errata 1980 Statistics	34
Table VI Replacement Page for 1980 Edition	35

## SECTION A—NEW ZEALAND ELECTRICITY ONLY

(i) SUMMARY OF OPERATING RESULTS  
FOR YEAR ENDED 31 MARCH 1981

Maximum load (kilowatts)	3 809 300	Revenue—	cents
Average load (kilowatts)	2 458 840	Per kWh output	2 4876
Annual load factor (percent)	64 55	Per kWh sold	2 7030
Electricity output (generated and purchased)	21 550 118 794	Working costs (including administration)—	
Electricity sold (in bulk and retail)	19 833 041 976	Per kWh output	0 6529
Electricity unsold (internal use)	83 093 355	Per kWh sold	0 7094
Line losses (transmission and distribution)	kWh 1 633 983 463	percent 7 58	Capital charges—
			Per kWh output
			Per kWh sold
			1 3864
			1 5065
			Total costs—
			Per kWh output
			Per kWh sold
			2 0393
			2 2158

## NEW ZEALAND ELECTRICITY ONLY

(ii) SUMMARISED PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 31 MARCH 1981<sup>1</sup>

	\$	\$	\$	\$
Working costs		147,639,924	Income	
Capital charges—			Sales of energy <sup>3</sup>	536,088,453
Interest <sup>2</sup>	200,507,511		Rents and miscellaneous receipts	11,074,235
Depreciation including interest on Depreciation Account <sup>4</sup>	40,819,443	241,326,954	Net increase in General Reserve Account	547,162,688
Profit and Loss Account total		388,966,878		107,646,702
Loan capital repayments		50,549,108		
Total costs (see table iv)		439,515,986		439,515,986

## NEW ZEALAND ELECTRICITY ONLY

(iii) SUMMARISED BALANCE SHEET AS AT 31 MARCH 1981<sup>1</sup>

	\$	\$	\$	\$
Internal resources—			Completed works	1,905,841,657
Depreciation Account	404,588,411		Works under construction	1,070,417,300
General Reserve Account	426,857,148	831,445,559	Plant, motor vehicles, and tools	16,610,582
External Resources—			Stocks of materials	71,869,232
Loans	2,332,254,836		Capital outlay (see Table v)	88,479,814
Trust Accounts	10,655	2,332,265,491	Sundry debtors, etc. less sundry creditors	3,064,738,771
			Cash	90,657,446
				8,314,833
				3,163,711,050
		3,163,711,050		

## NEW ZEALAND ELECTRICITY ONLY

(iv) ANALYSIS OF OPERATING COSTS FOR YEAR ENDED 31 MARCH 1981<sup>1</sup>

	Working Costs (a)	Administration Costs (b)	Capital Charges (c)	Total Costs (d)	Total Cost per kWh	
					Output (e)	Sold (f)
	\$	\$	\$	\$	cents	cents
Hydro-electric stations	18,232,951	9,922,521	156,153,238	184,308,710	1.0032	...
Thermal stations	55,920,186	13,528,524	78,723,330	148,172,040	4.6781	...
Power purchased	303,405	524	...	303,929	2.8500	...
Generated and purchased	74,456,542	23,451,569	234,876,568	332,784,679	1.5442	1.6779
Transmission lines	8,613,407	4,687,492	35,158,868	48,459,767	0.2249	0.2443
Substations	10,530,222	5,730,633	25,574,801	41,835,656	0.1941	0.2109
Communications	2,278,290	1,239,864	1,453,855	4,972,009	0.0231	0.0251
Retail distribution	1,972,897	1,999,110	1,713,323	5,685,330	0.0264	0.0287
System operation and testing	3,712,107	2,020,253	...	5,732,360	0.0266	0.0289
TOTALS:	101,563,465	39,128,921	298,777,415	439,469,801	2.0393	2.2158
Administration (ref column b)	39,128,921					
	140,692,386			101,563,465	0.4713	0.5121
				39,128,921	0.1816	0.1973
				298,777,415	1.3864	1.5065
				439,469,801	2.0393	2.2158

<sup>1</sup>Information published in this table differs from that published in the Electricity Division's (New Zealand Electricity) section of the Ministry of Energy Annual Report. This is to maintain consistency between New Zealand Electricity and Supply Authority treatment of purchases and sales of electricity by New Zealand Electricity for both quantity (kWh) and value (\$). <sup>2</sup>Does not agree with table iv or table I (Part I and II) as losses on foreign currency realignments are shown in the Profit and Loss Account in accordance with the New Zealand Society of Accountants' requirements. <sup>3</sup>Does not agree with that shown in Annual Report as described in note 1, also includes reversals as a result of adjustments made in the 1980 Statistics. <sup>4</sup>Does not agree with that shown in Annual Report as adjustment relating to previous year has been included here



## NEW ZEALAND ELECTRICITY ONLY

(v) ANALYSIS OF CAPITAL OUTLAY AS AT 31 MARCH 1981—*continued*

	Headworks	Station Buildings and Villages	Generating Plant and Machinery	Total	Grand Total
	<i>Works Under Construction</i>				
	\$	\$	\$	\$	\$
Hydro-electric stations—					
Tongariro scheme including Rangipo	219,183,548	401,873	12,146,123	231,731,544	
Upper Waitaki	90,621,188	22,733,871	46,148,240	159,503,299	
Clyde	29,314,624	18,361,790	...	47,676,414	
Other stations	660,455	444,410	89,342	1,194,207	
	<u>339,779,815</u>	<u>41,941,944</u>	<u>58,383,705</u>	...	<u>440,105,464</u>
Thermal stations—					
Fuel handling					
Equipment	73,629,120	113,583,084	338,893,349	526,105,553	
Huntly	59,752	908,704	1,303,861	2,272,317	
Other stations					
	<u>73,688,872</u>	<u>114,491,788</u>	<u>340,197,210</u>	...	<u>528,377,870</u>
Transmission system—					
Line depot (not associated with Power Stations or Substations)				236,905	
33 kV a.c.				617,512	
50 kV a.c.				1,512,609	
66 kV a.c.				464,088	
110 kV a.c.				1,937,073	
220 kV a.c.				26,649,719	
500 kV d.c. (submarine cables)				30,502	
					<u>31,448,408</u>
Substations				2,646	
11 kV				1,142,635	
33 kV				427,471	
50 kV				3,751,829	
66 kV				6,836,153	
110 kV				12,969,004	
220 kV					
					<u>25,129,738</u>
Communications system					6,722,252
Distribution system					102,628
Offices, stores, land, and buildings					7,311,228
Surveys, and investigations of other schemes					31,219,712
					<u>1,070,417,300</u>
Total works under construction					<u>16,610,582</u>
Plant, motor vehicles, and tools					71,869,232
Stocks of materials					
					<u>3,064,738,771</u>
<b>TOTAL CAPITAL OUTLAY</b>					

**SECTION B: COMBINED RESULTS OF NEW ZEALAND ELECTRICITY AND ELECTRICAL SUPPLY  
AUTHORITIES FOR THE YEAR ENDED 31 MARCH 1981**

**Condensed Statistics Detailed In Subsequent Tables**

No			Hydro	Steam	Oil/Gas	Total	No.
1	Generating stations	No.	69	4	8	81	1
2	Installed capacity	MW	4 061.9	1 242.4	713.9	6 018.2	2
3	Generation	GWh	18 927.9	3 050.0	132.7	22 110.6	3
4	Maximum load	MW				3 879.6	4
5	Retail sales of electricity	GWh				19 540.3	5
6	Consumers	No.				1 363 175	6
7	Population (mean) <sup>1</sup>	No.				3 134 700	7
8	Population (total) <sup>1</sup>	No.				3 167 357	8
9	Capital expenditure less depreciation	\$(m)				3 359.1	9
10	Income from retail sales of electricity	\$(m)			765.1		10
11	Other general income	\$(m)			30.8		11
12	Appliance sales and servicing income	\$(m)			30.2		12
13	Gross income	\$(m)				826.1	13
14	Cost of electricity purchased from non-supply industry sources	\$(m)		0.3			14
15	Generation expenditure	\$(m)		280.2			15
16	Total cost of electricity	\$(m)			280.5		16
17	Other supply expenditure	\$(m)			294.5		17
18	Appliance sales and servicing expenditure	\$(m)			29.1		18
19	Gross expenditure	\$(m)				604.1	19
20	Net results surplus	\$(m)				222.0	20
21	Income from retail sales of electricity per kWh sold retail	c				3.915	21
22	Gross income per kWh sold retail	c				4.228	22
23	Total cost of electricity per kWh sold retail	c				1.435	23
24	Gross expenditure per kWh sold retail	c				3.092	24
25	Generation per head of mean population	kWh				7 054	25
26	Generation per head of total population	kWh				6 981	26
27	Retail sales of electricity per head of mean population	kWh				6 234	27
28	Retail sales of electricity per head of total population	kWh				6 169	28
29	Retail sales per total consumers	kWh				14 334	29
30	Electrical fires reported during year	No.				32	30
31	Electrical accidents during year (fatal)	No.				12	31
32	Electric ranges (domestic)	No.				1 022 183	32
33	Electric water-heaters (domestic)	No.				1 061 967	33

<sup>1</sup>Provisional

TABLE I (PART I)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Income											Cost of Electricity					Total	No.
		General Income					Appliance Sales and Servicing Income	Gross Income	Loan Interest	Depreciation	Operation and Maintenance <sup>1</sup>	Total	Purchased	Total					
		Sales of Electricity		Other Sources	Total General Income	Total													
		Retail	Wholesale																
1	New Zealand Electricity <sup>1</sup>	71,095,238	461,064,066	15,003,384 <sup>2</sup>	547,162,688	...	547,162,688	160,451,110	33,951,561	74,153,135	268,555,806	303,405	268,859,211	1					
1	Government Department	...	...	...	...	...	...	...	...	...	...	...	...	1					
1	Southland <sup>2</sup>	...	...	...	...	...	...	...	...	...	...	...	...	1					
<i>Power Boards and Related Authorities</i>																			
1	Ashterton	6,095,658	...	33,889	6,129,547	1,167,873	7,297,420	...	...	...	...	...	3,715,931	3,715,931	6				
2	Auckland	110,975,677	...	3,385,242	114,360,919	468,435	114,829,354	...	...	...	...	...	82,406,591	82,406,591	2				
3	Bay of Islands	7,754,409	...	376,289	8,130,698	15,162	8,145,860	...	...	...	...	...	4,546,986	4,546,986	3				
4	Bay of Plenty	14,042,529	1,144,428	342,303	15,529,260	916,166	16,445,426	490,326	280,903	167,433	938,662	10,330,717	11,269,379	4					
5	Buller	2,257,624	...	78,855	2,336,479	287,002	2,623,481	...	...	...	...	1,554,779	1,554,779	5					
6	Cambridge	2,907,320	...	70,684	2,978,004	...	2,978,004	...	...	...	...	1,872,629	1,872,629	6					
7	Central Canterbury	14,405,330	12,883	383,321	14,801,534	579,225	15,380,759	...	...	...	...	9,489,357	9,489,357	7					
8	Central Hawke's Bay	2,680,680	43,470	2,724,150	2,724,150	...	2,724,150	...	...	...	...	1,805,644	1,805,644	8					
9	Central Waikato	19,691,372	2,581	205,014	19,898,967	93,075	19,992,042	...	...	...	...	11,728,811	11,728,811	9					
10	Dannevirke	2,563,896	...	19,500	2,583,396	387,108	2,970,504	...	...	...	...	1,588,182	1,588,182	10					
11	Egmont	6,289,083	...	82,310	6,371,393	6,371,393	6,371,393	3,405	14,967	18,372	3,983,594	4,001,966	4,001,966	11					
12	Franklin	7,811,844	16,050	163,966	7,991,860	298,897	8,290,757	...	...	...	...	5,265,210	5,265,210	12					
13	Hawke's Bay	28,181,872	2,012,907	747,754	30,942,533	1,272,103	32,214,636	...	...	...	...	23,254,558	23,254,558	13					
14	Horowhenua	11,693,342	...	297,125	11,990,467	718,739	12,709,206	...	...	...	...	6,925,366	6,925,366	14					
15	Hutt Valley <sup>3</sup>	41,513,104	...	1,458,409	42,971,513	1,356,901	44,328,414	...	...	...	...	28,076,956	28,076,956	15					
16	King Country	5,956,822	486,363	165,566	6,608,751	181,691	6,790,442	60,547	36,267	72,154	168,968	5,020,014	5,188,982	16					
17	Manawatu-Oroua	11,649,148	5,123,770	113,197	16,886,115	359,906	17,246,021	...	...	...	...	12,331,662	12,331,662	17					
18	Marlborough	6,262,510	334,047	6,596,557	6,596,557	77,010	6,673,567	...	10,416	143,584	154,000	3,793,945	3,947,945	18					
19	North Auckland	11,899,343	2,395,152	336,033	14,630,528	14,630,528	14,630,528	...	...	...	...	9,567,448	9,567,448	19					
20	North Canterbury	7,772,529	553,674	83,023	8,409,226	1,157,456	9,566,682	...	...	...	...	5,284,792	5,284,792	20					
21	Otago	6,783,572	17,168	66,603	6,852,175	975,962	7,828,137	...	26,564	289,709	321,569	4,420,398	4,420,398	21					
22	Otago Central	4,728,134	...	66,254	4,811,556	1,435,067	6,246,623	5,296	...	...	...	2,677,165	2,998,734	22					
23	Poverty Bay	9,262,389	...	194,078	9,456,467	299,569	9,756,036	...	...	...	...	5,730,321	5,730,321	23					
24	Rotorua	10,497,925	4,848	324,270	10,827,043	10,827,043	10,827,043	...	...	...	...	7,091,896	7,091,896	24					
25	South Canterbury	9,589,263	2,970,918	416,141	12,976,322	1,628,034	14,604,356	...	...	...	...	8,943,801	8,943,801	25					
26	Taranaki	6,513,648	...	34,505	6,548,153	14,734	6,562,887	6,799	32,855	202,731	242,385	3,845,832	4,088,217	26					
27	Taranaki	2,037,149	...	10,377	2,047,526	89,203	2,136,729	...	...	...	...	1,210,146	1,210,146	27					
28	Tasman	10,844,702	2,693,308	167,429	13,705,439	1,216,746	14,922,185	...	2,608	5,971	8,579	9,293,920	9,302,499	28					
29	Tauranga	12,347,419	733,969	331,052	13,412,440	1,338,226	14,750,666	1,338,226	382,375	306,129	2,026,730	6,300,799	8,327,529	29					
30	Te Awamutu	4,077,117	737	68,757	4,146,611	...	4,146,611	...	...	...	...	2,689,752	2,689,752	30					
31	Thames Valley	33,973,147	865,130	296,324	35,134,601	943,617	36,078,218	...	6,360	71,006	77,366	26,704,670	26,704,670	31					
32	Wairarapa	8,611,621	221,772	8,833,393	8,833,393	9,777,010	9,777,010	...	...	...	...	5,290,543	5,367,909	32					
33	Waikato	1,264,623	588,931	44,831	1,898,385	275,098	2,173,483	...	...	...	...	1,381,576	1,381,576	33					
34	Waikato	5,529,623	...	251,089	5,780,712	1,191,477	6,972,189	...	...	...	...	3,457,930	3,457,930	34					
35	Waitemata	47,615,258	...	1,529,290	49,144,548	615,590	49,760,138	...	15,848	31,252	47,100	30,716,220	30,716,220	35					
36	Waitemata	5,319,410	...	73,070	5,392,480	398,134	5,790,614	31,871	26,676	127,772	186,319	3,148,053	3,334,372	36					
37	Wairarapa	14,253,279	...	253,426	14,506,705	2,377,288	16,883,993	...	1,038	6,981	8,019	9,744,909	9,752,928	37					
38	West Coast	6,491,275	3,009	382,371	6,876,655	1,435,091	8,311,746	977,040	381,924	256,631	1,615,595	1,606,828	3,222,423	38					
		522,143,646	19,625,826	13,453,636	555,223,108	22,232,359	577,455,467	2,910,105	1,207,239	1,696,320	5,813,664	366,797,931	372,611,595						

TABLE I (PART I)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Income										Cost of Electricity						No.
		General Income					Gross Income	Loan Interest	Depre- ciation	Generation			Purchased	Total				
		Sales of Electricity		Other Sources	Total General Income	Appliance Sales and Servicing Income				Operation and Maintenance <sup>a</sup>	Total							
		Retail	Bulk for Resale															
\$		\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$				
<i>Terrestrial Authorities</i>																		
1	Bluff	602,211	...	151	602,362	194,176	796,538	...	...	...	...	430,378	430,378	1	430,378	430,378		
2	Christchurch	50,454,481	1,081	468,052	50,923,614	2,932,781	53,856,395	...	...	...	...	37,604,262	37,604,262	2	37,604,262	37,604,262		
3	Dunedin	25,464,244	...	626,935	26,091,179	748,278	26,839,457	...	917,000	4,383,611	5,300,611	12,547,940	12,547,940	3	12,547,940	17,848,551		
4	Hamilton	6,551,548	...	109,171	6,660,719	...	6,660,719	...	...	...	...	3,932,480	3,932,480	4	3,932,480	3,932,480		
5	Heathcote	1,522,734	...	89,779	1,612,513	6,107	1,618,620	...	...	...	...	1,158,704	1,158,704	5	1,158,704	1,158,704		
6	Invercargill	8,023,465	277,185	42,585	8,343,235	...	8,343,235	...	...	...	...	6,146,333	6,146,333	6	6,146,333	6,146,333		
7	Kaipoi	813,424	...	22,618	836,042	233,798	1,069,840	...	...	...	...	557,914	557,914	7	557,914	557,914		
8	Lytelton	689,032	...	6,346	695,378	89,485	784,863	...	...	...	...	427,404	427,404	8	427,404	427,404		
9	Napier	3,514,959	...	69,874	3,584,833	723,104	4,307,937	...	...	...	...	2,012,908	2,012,908	9	2,012,908	2,012,908		
10	Nelson	4,065,196	...	56,511	4,121,707	...	4,121,707	...	...	...	...	2,694,143	2,694,143	10	2,694,143	2,694,143		
11	New Plymouth	9,956,441	...	34,788	9,991,229	1,637,567	11,628,796	...	27,389	142,887	170,276	5,819,876	5,819,876	11	5,819,876	5,819,876		
12	Palmerston North	7,465,899	...	67,820	7,533,719	...	7,533,719	...	1,918	30,552	32,470	5,123,770	5,123,770	12	5,123,770	5,123,770		
13	Riccarton	1,981,612	...	14,808	1,996,420	171,421	2,167,841	...	...	...	...	1,437,104	1,437,104	13	1,437,104	1,437,104		
14	Taumarunui	754,236	58	74,394	828,688	...	828,688	...	...	31,618	31,618	487,523	487,523	14	487,523	487,523		
15	Taupo	4,565,270	...	58,541	4,623,811	...	4,623,811	...	84,593	69,399	181,420	2,683,917	2,683,917	15	2,683,917	2,683,917		
16	Tauranga	1,887,915	...	24,064	1,911,979	...	1,911,979	...	...	122,618	122,618	733,969	733,969	16	733,969	733,969		
17	Thames-Coromandel	1,204,865	...	754	1,205,619	15,993	1,221,612	...	...	...	...	861,252	861,252	17	861,252	861,252		
18	Timaru	4,269,060	...	68,109	4,337,169	254,865	4,592,034	...	...	...	...	2,970,918	2,970,918	18	2,970,918	2,970,918		
19	Wairoa	878,248	...	23,584	901,832	...	901,832	...	...	...	...	588,931	588,931	19	588,931	588,931		
20	Wellington	31,506,322	...	421,499	31,927,821	995,166	32,922,987	...	...	...	...	22,401,072	22,401,072	20	22,401,072	22,401,072		
21	Whakatane	1,609,179	...	43,023	1,652,202	...	1,652,202	...	...	...	...	1,125,219	1,125,219	21	1,125,219	1,125,219		
22	Whangarei	4,078,123	...	7,351	4,085,474	...	4,085,474	...	...	...	...	2,393,672	2,393,672	22	2,393,672	2,393,672		
Totals		171,858,464	278,324	2,330,757	174,467,545	8,002,741	182,470,286	27,428	1,030,900	4,780,685	5,839,013	114,139,689	114,139,689	NET INCOME AND COST		272,809 <sup>s</sup>	280,481,292	
Less bulk for resale		765,097,348	480,968,216	30,787,777 <sup>9</sup>	1,276,853,341	30,235,100	1,307,088,441	163,388,643	36,189,700	80,630,140	280,208,483	481,241,025	481,241,025			480,968,216	480,968,216	
Less bulk for resale		...	480,968,216	...	480,968,216	...	480,968,216	...	...	...	...	...	...			...	...	

(for notes see page 9)

TABLE I (PART II)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Expenditure											Gross Expenditure	Net Results Surplus	No.
		Supply Expenditure and Charges													
		Cost of Electricity	Operation and Maintenance			Administration and General	Loan Interest	Depreciation	Total Supply Expenditure	Appliance Sales and Servicing Expenditure	Total				
			Transmission and Distribution	Properties Plant and Equipment <sup>a</sup>	Consumer-related Costs <sup>b</sup>						Plant and Distribution	Consumer-related Costs <sup>b</sup>			
1	New Zealand Electricity <sup>1</sup>	268,859,211	26,886,986	215,284	4,655	27,106,925	39,128,921	47,003,939	6,867,882	388,966,878	388,966,878	158,195,810	1		
<i>Government Department</i>															
1	Southland <sup>2</sup>	...	...	...	...	...	...	...	...	...	...	...	...	...	
<i>Power Boards and Related Authorities</i>															
1	Ashburton	3,715,931	566,753	69,875	87,912	724,540	467,355	202,023	440,886	5,550,735	1,091,882	6,642,617	654,803		
2	Auckland	82,406,591	7,831,399	1,638,656	1,195,872	10,665,927	5,509,148	2,413,201	4,556,770	105,551,637	429,823	105,981,460	8,847,894		
3	Bay of Islands	4,546,986	759,294	88,398	34,140	881,832	859,759	357,082	583,968	7,229,627	14,738	7,244,365	901,495		
4	Bay of Plenty	11,269,379	909,602	150,195	118,491	1,178,288	1,066,790	334,301	441,154	14,289,912	868,674	15,158,586	1,286,840		
5	Buller	1,554,779	131,105	24,016	24,068	179,189	211,587	53,192	105,454	2,104,201	287,377	2,391,578	231,903		
6	Cambridge	1,872,629	177,363	...	54,601	231,964	174,036	10,255	117,734	2,406,618	...	2,406,618	571,386		
7	Central Canterbury	9,489,357	1,004,672	339,755	122,092	1,466,519	1,184,651	167,114	716,875	13,024,516	553,706	13,578,222	1,802,537		
8	Central Hawke's Bay	1,805,644	221,216	1,992	13,383	236,591	255,354	98,858	172,528	2,569,005	...	2,569,005	155,145		
9	Central Waikato	11,728,811	1,665,187	246,468	221,706	1,333,361	1,633,168	596,957	1,050,823	17,143,120	77,352	17,220,472	2,771,570		
10	Dannevirke	1,588,182	183,135	23,910	58,977	266,022	235,434	61,318	171,114	2,322,070	357,716	2,679,786	290,718		
11	Egmont	4,001,966	759,894	115,292	98,773	973,959	721,395	30,151	297,465	6,024,936	...	6,024,936	346,457		
12	Franklin	5,265,210	834,946	125,359	108,256	1,068,561	671,364	160,007	418,988	7,584,130	312,371	7,896,501	394,256		
13	Hawke's Bay	23,254,558	1,412,812	278,424	1,906,593	1,247,817	1,247,817	533,512	1,300,899	28,243,379	1,233,767	29,477,146	2,737,490		
14	Horowhenua	6,925,366	1,493,259	170,082	212,232	1,875,573	887,027	538,109	729,056	10,955,131	685,962	11,641,093	1,068,113		
15	Hutt Valley <sup>3</sup>	28,076,956	4,616,448	628,621	713,974	5,939,043	3,678,227	1,178,540	1,529,800	40,422,566	1,341,987	41,764,553	2,563,861		
16	King Country	5,188,982	377,168	56,809	112,246	546,223	297,718	44,935	198,352	6,276,210	181,162	6,457,372	333,070		
17	Manawatu-Oroua	12,331,662	1,264,226	32,998	105,326	1,402,550	822,163	177,839	704,721	15,438,935	344,235	15,783,170	1,462,851		
18	Marlborough	3,947,945	1,034,197	47,714	154,115	1,236,026	429,531	295,688	501,920	6,411,110	68,570	6,479,680	193,887		
19	North Auckland	9,367,448	685,542	584,437	57,679	1,327,658	1,173,139	439,613	812,522	13,320,380	...	13,320,380	1,310,148		
20	North Canterbury	5,284,792	857,822	90,784	163,550	1,112,156	726,471	426,274	471,879	8,021,572	1,102,914	9,124,486	442,196		
21	Otago	4,420,398	860,292	65,526	90,865	1,016,683	493,869	194,361	359,686	6,484,997	939,430	7,424,427	403,710		
22	Otago Central	2,998,734	525,898	28,299	37,435	591,632	512,280	227,173	325,409	4,655,228	1,429,474	6,084,702	161,921		
23	Poverty Bay	5,730,321	1,235,968	233,507	108,764	1,568,239	824,270	276,929	476,888	8,876,647	305,637	9,182,284	573,752		
24	Rotorua	7,091,896	1,030,685	155,221	161,125	1,327,031	795,239	193,503	335,055	9,742,724	...	9,742,724	1,084,319		
25	South Canterbury	8,943,801	1,006,306	255,468	28,723	1,290,497	1,010,331	212,333	617,406	12,074,368	1,538,198	13,612,566	991,790		
26	Taranaki	4,088,217	702,523	80,609	47,886	831,018	498,668	28,554	361,447	5,807,904	14,831	5,822,735	740,152		
27	Taranaki	1,210,146	186,170	39,583	36,708	262,461	218,829	85,572	147,145	1,924,153	82,516	2,006,669	130,060		
28	Tasman	9,302,499	707,875	115,128	124,573	947,576	1,029,572	311,454	651,854	12,242,955	1,239,942	13,482,897	1,439,288		
29	Tauranga <sup>3</sup>	8,327,529	990,406	322,559	269,552	1,582,317	836,701	481,329	695,711	11,923,587	...	11,923,587	1,488,853		
30	Te Awamutu	2,689,752	321,254	32,959	100,548	454,761	279,341	2,025	171,885	3,597,764	...	3,597,764	548,847		
31	Thames Valley	26,704,670	2,348,721	459,394	210,210	3,018,325	1,590,122	726,361	978,333	33,017,811	...	33,017,811	2,116,790		
32	Waikarapa	5,367,909	706,087	188,423	226,835	1,121,345	717,108	629,064	658,226	8,493,652	907,355	9,401,005	376,005		
33	Waioata	1,381,576	135,859	30,780	20,023	186,662	158,739	15,099	79,272	1,621,348	243,938	1,865,286	108,197		
34	Waikato	3,457,930	542,760	155,641	123,536	821,937	449,131	40,824	382,557	5,152,379	1,156,837	6,309,216	662,973		
35	Waitemata	30,763,320	3,890,230	1,073,206	474,369	5,437,805	2,924,621	1,732,124	2,075,287	42,933,157	636,032	43,569,189	6,190,949		
36	Waitemata	3,334,372	450,182	59,927	51,771	561,880	419,684	69,579	453,560	4,839,075	385,402	5,224,477	566,137		
37	Wanganui-Rangitikei	9,752,928	1,669,113	200,197	105,155	1,974,465	941,888	227,767	717,193	13,614,241	2,208,357	15,822,598	1,061,395		
38	West Coast	3,222,423	840,485	155,829	188,463	1,184,777	602,439	266,673	373,254	5,649,566	1,431,119	7,080,685	1,231,061		
		372,611,595	44,936,854	8,336,041	6,279,091	59,551,986	36,554,966	13,839,693	25,183,106	507,741,346	21,471,302	529,212,648	48,242,819		



TABLE I (PART II)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Expenditure												Net Results Surplus	No.		
		Cost of Electricity		Supply Expenditure and Charges						Appliance Sales and Servicing Expenditure						Gross Expenditure	Net Results Surplus
		Transmission and Distribution	Properties Plant and Equipment <sup>6</sup>	Operation and Maintenance	Admin- istration General	Loan Interest	Depre- ciation	Total Supply Expend- iture	Appliance Sales and Servicing Expend- iture	Total	Consumer- relating Costs						
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
<i>Territorial Authorities</i>																	
1	Bluff	430,378	73,439	8,635	82,074	56,633	2,623	571,708	165,000	736,708	59,830	1					
2	Christchurch	37,604,262	2,687,203	736,440	4,151,743	2,974,031	335,162	47,464,832	2,779,733	50,244,565	3,611,830	2					
3	Dunedin	17,848,551	2,174,576	262,716	2,619,731	2,362,801	154,536	24,083,619	737,369	24,820,988	2,018,469	3					
4	Hamilton	3,932,480	706,119	97,247	911,653	862,353	...	5,706,486	...	5,706,486	954,233	4					
5	Heathcote	1,158,704	18,185	722	24,112	217,106	...	1,399,922	6,117	1,406,039	212,581	5					
6	Invercargill	6,146,333	668,886	55,386	123,107	450,039	141,235	7,584,986	...	7,584,986	758,249	6					
7	Kaipoi	557,914	7,472	20,380	61,892	108,184	14,945	773,787	223,385	997,172	72,668	7					
8	Lytelton	427,404	70,611	...	7,980	113,543	...	619,538	83,167	702,705	82,158	8					
9	Napier	2,012,908	291,795	46,729	447,300	405,105	182,424	3,254,901	719,016	3,973,917	334,020	9					
10	Nelson	2,694,143	489,852	50,739	600,585	334,447	17,837	3,768,604	...	3,768,604	353,103	10					
11	New Plymouth	5,990,152	977,784	111,219	1,301,865	677,978	120,378	8,511,526	1,308,969	10,020,495	1,608,301	11					
12	Palmerston North	5,156,240	787,717	55,395	937,182	677,010	17,149	6,952,691	165,110	7,117,801	581,028	12					
13	Riccarton	1,437,104	178,677	6,089	184,766	190,525	...	1,812,395	169,455	1,981,850	185,991	13					
14	Taurarunui	519,141	158,825	...	166,181	36,765	16,496	740,408	...	740,408	88,280	14					
15	Taupo	2,865,337	234,276	20,307	314,293	749,588	240,028	4,414,040	...	4,414,040	209,771	15					
16	Tauranga	856,587	129,408	11,725	167,809	180,558	21,693	1,226,647	...	1,226,647	685,332	16					
17	Thames-Coromandel	861,252	89,369	6,537	128,854	92,226	22,143	1,104,475	13,016	1,117,491	104,121	17					
18	Timaru	2,970,918	176,880	47,342	364,705	328,465	51,533	3,849,521	252,780	4,102,301	489,733	18					
19	Waioa	588,931	101,993	12,997	114,990	84,817	7,674	827,121	30,709	857,830	74,711	19					
20	Wellington	22,401,072	2,525,006	759,478	3,815,702	2,397,980	386,350	29,626,251	946,140	30,572,391	2,350,596	20					
21	Whakatane	1,125,219	101,305	11,014	137,734	198,355	427	1,524,864	...	1,524,864	127,338	21					
22	Whangarei	2,393,672	353,356	8,343	402,566	639,875	...	3,471,451	...	3,471,451	614,023	22					
	Totals	119,978,702	13,002,714	2,329,440	2,557,205	17,889,359	1,710,490	159,289,773	7,604,147	166,893,920	15,576,366						
	Less bulk for resale	761,449,508	84,826,554	10,880,765	8,840,951	104,548,270	62,554,122	1,055,997,997	29,075,449	1,085,073,446	222,014,995						
	GRAND TOTALS	280,481,292	84,826,554	10,880,765	8,840,951	104,548,270	62,554,122	575,029,781	29,075,449	604,105,230	222,014,995						

NOTES: <sup>1</sup>Includes Southland Electric Power Supply. <sup>2</sup>Included with New Zealand Electricity. <sup>3</sup>Purchases from sources other than New Zealand Electricity or supply authority. <sup>4</sup>Actual running costs including transport, wages, stores, and maintenance. Also includes cost of fuel: \$31,875,430. <sup>5</sup>Cost of maintenance of plant, equipment, buildings, and properties. <sup>6</sup>Cost of recoverable street lighting maintenance, and non-recoverable costs of inspecting consumers' premises and appliance testing. <sup>7</sup>Hutt Valley Energy Board, previously known as Hutt Valley Electric Power and Gas Board. <sup>8</sup>An amount of \$3,929,149 is included in "other sources" rather than "bulk for resale" as the amount is additional demand charges, arising from a supply authority generation breakdown, payable, but at the time of publication still unresolved as an issue. This representation of the amount in question is necessary to balance transactions.

TABLE II (PART I)—ANALYSIS OF LIABILITIES AND RESERVES FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Liabilities						Reserves					Total	No.
		Public Debt (excl. Home Installation and Solar Installation Loans)			Sundry Creditors (incl. Home Installation and Solar Installation Loans)	Non-capital Reserves		Accumulated Retained Surplus <sup>a</sup>	Total	No.				
		Loans Raised During Year	Loans Repaid During Year	Gross Loan Liability as at 31 March		Capital Reserves	Sinking Funds and Reserves for Future Loan Repayments				Other Reserves			
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
1	New Zealand Electricity <sup>1</sup>	118,948,700 <sup>3</sup>	50,549,108	2,332,254,836	20,060,233	5,763,842	503,818	193,951	697,769	1,231,260	426,857,148 <sup>8</sup>	2,779,172,217	1	
1	Southland <sup>2</sup>													
	<i>Power Boards and Related Authorities:</i>													
1	Ashburton	939,637	91,465	2,889,588	1,303,529	5,763,842	503,818	193,951	697,769	1,231,260		11,885,988	1	
2	Auckland	1,916,150	2,331,685	25,200,206	16,386,676	82,001,091	2,120,347	10,027,921	12,148,268	4,865,551		140,601,792	2	
3	Bay of Islands		418,645	5,046,478	1,410,268	7,024,832	1,200,000	280,000	1,480,000	465,008		15,006,586	3	
4	Bay of Plenty	8,181,310	328,913	28,454,110	3,461,129	6,251,885	1,270,891	301,099	1,571,990	2,491,683		42,230,797	4	
5	Buller	2,550	25,876	693,529	485,293	1,575,285	191,416	180,421	371,837	459,237		3,585,181	5	
6	Cambridge			108,000	554,032	2,575,700	44,165	99,037	143,202	682,902		4,063,836	6	
7	Central Canterbury		318,147	1,850,820	2,548,251	14,691,198	808,915		808,915	3,285,682		23,184,866	7	
8	Central Hawke's Bay	200,000	40,203	991,647	483,660	2,936,797	69,151	88,449	157,600	411,916		4,981,620	8	
9	Central Waikato	1,173,250	289,741	7,586,209	3,238,316	13,110,734	1,574,492	380,245	1,954,737	2,433,300		28,323,296	9	
10	Dannevirke		10,243	577,942	555,587	3,057,929	64,060	54,153	118,213	112,739		4,422,410	10	
11	Egmont	6,912,900	39,188	8,997,530	2,605,931	5,860,602	144,195	121,512	265,707	592,142		18,321,912	11	
12	Franklin	56,460	72,979	1,900,385	1,254,247	6,135,125	627,761	563,948	1,191,709	1,382,973		11,864,439	12	
13	Hawke's Bay	1,000,000	510,973	5,773,266	4,958,375	17,125,797	1,215,808	2,427,437	3,643,245	1,565,849		33,066,532	13	
14	Horowhenua	766,940	570,030	5,846,924	1,954,857	9,580,355	1,539,290	467,772	2,007,062	670,517		20,059,715	14	
15	Hutt Valley <sup>5</sup>	1,896,900	1,794,036	12,776,972	8,578,323	24,052,509	753,819	4,908,369	5,662,188	6,066,915		57,136,907	15	
16	King Country		55,319	1,440,410	1,214,434	1,872,339	71,580	1,382,793	1,454,373	1,474,373		7,455,929	16	
17	Manawatu-Oroua	26,950	32,299	2,154,979	3,225,518	10,955,107	576,261	1,386,260	1,962,521	1,544,818		19,842,943	17	
18	Mariborough	1,440,730	194,368	3,928,513	1,683,029	6,421,210	565,822	420,443	986,265	297,822		13,316,839	18	
19	North Auckland	500,000	242,159	5,410,428	2,700,358	12,702,316	1,230,385	1,072,214	2,302,599	1,029,221		24,144,922	19	
20	North Canterbury	572,010	126,867	4,775,105	1,981,800	5,568,194	593,549	64,436	657,985	340,472		13,523,556	20	
21	Otago	546,395	103,723	2,663,850	843,298	5,877,147	370,098	622,576	992,674	1,181,154		11,558,123	21	
22	Otago Central	1,757,000	85,420	5,009,297	841,591	4,972,538	344,046	617,220	961,266	1,361,503		13,146,195	22	
23	Poverty Bay	300,050	240,065	3,534,690	1,537,737	7,287,069	109,596	83,237	192,833	316,938		12,869,267	23	
24	Rotorua	4,771,800	108,694	8,979,387	3,197,387	4,486,455	404,707	686,433	1,091,140	2,057,235		19,811,604	24	
25	South Canterbury		136,335	2,678,313	1,805,269	10,141,265	568,666	866,416	1,435,082	2,164,999		18,224,928	25	
26	Taranaki		132,318	463,504	1,120,782	6,962,378	22,135	1,099,854	1,121,989	479,534		10,148,187	26	
27	Taranua	165,000	53,047	876,331	344,381	2,328,269	112,092	5,345	117,437	103,712		3,770,130	27	
28	Tasman	1,294,100	190,012	3,898,849	1,970,277	8,255,584	170,301	471,542	641,843	2,136,582		16,903,135	28	
29	Tauranga <sup>4</sup>	8,538,020	729,805	40,443,305	5,252,014	10,659,048	452,924	543,737	996,661	1,570,430		58,921,458	29	
30	Te Awamutu		20,000	20,000	952,232	3,371,361	16,451	521,294	537,745	271,361		5,152,699	30	
31	Thames Valley...	1,327,400	389,780	9,095,220	7,123,563	9,877,544	2,392,921	1,009,860	3,402,781	3,480,071		32,979,179	31	
32	Waikato	1,100,000	465,242	7,214,042	2,305,506	2,883,270	586,581		586,581	947,145		13,936,544	32	
33	Waipara	221,000	12,195	424,753	448,958	1,360,496		38,802	38,802	363,390		2,536,399	33	
34	Waitemata	1,864,800	99,702	483,473	1,071,416	5,703,238	165,822	887,544	1,053,366	1,073,724		9,385,217	34	
35	Waitomo		1,359,251	19,258,694	8,748,445	24,312,365	4,188,261	2,546,831	6,735,092	7,765,820		66,820,416	35	
36	Waitemata	2,050,000	149,161	4,810,734	996,771	6,800,724	712,596	268,347	980,943	1,022,916		14,612,088	36	
37	Waitemata	239,050	393,530	2,757,541	2,017,865	10,610,513	787,351	736,550	1,523,901	3,342,802		20,252,622	37	
38	West Coast	1,585,350	234,676	13,519,860	1,531,147	4,955,102	1,016,974	423,771	1,440,745	646,645		22,093,499	38	
		51,345,752	236,940	12,396,092	102,692,252	370,107,213	27,587,247	35,849,819	63,437,066	61,170,341		849,941,756		

TABLE II (PART I)—ANALYSIS OF LIABILITIES AND RESERVES FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Liabilities						Reserves						Total	Accumulated Retained Surplus <sup>a</sup>	No.
		Public Debt (excl. Home Insulation and Solar Installation Loans)						Non-capital Reserves								
		Loans Raised During Year		Loans Repaid During Year		Gross Loan Liability as at 31 March	Sundry Creditors (incl. Home Insulation and Solar Installation Loans)	Capital Reserves	Sinking Funds and Reserves for Future Loan Repayments	Other Reserves	Total	Total	Total			
		From Redemption Funds	From Internal Sources and Sinking Funds	From Redemption Funds	From Internal Sources and Sinking Funds											
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
	<i>Territorial Authorities</i>															
1	Bluff ...	20,000	...	2,346	...	17,654	15,784	281,266	...	1,805	1,805	562,948	1,805	1,805	468,402	1
2	Christchurch ...	1,000,000	...	391,642	...	4,437,062	9,784,008	28,152,713	562,948	...	...	4,448,209	4,448,209	4,448,209	50,597,181	2
3	Dunedin ...	...	...	607,977	...	1,785,488	3,277,946	40,586,628	315,800	...	...	48,231	48,231	48,231	52,267,452	3
4	Hamilton ...	...	...	...	...	...	36,314	6,393,614	...	...	...	...	...	...	9,975,939	4
5	Heathcote ...	125,840	2,000	16,727	...	326,654	300,154	986,939	...	8,346	8,346	...	...	...	1,622,093	5
6	Invercargill ...	105,000	...	86,969	...	1,779,257	1,452,288	4,520,865	250,113	57,311	57,311	307,424	307,424	...	8,059,834	6
7	Kaipoi ...	15,161	...	2,426	...	155,765	234,225	517,060	18,780	12,985	12,985	31,765	31,765	9,126	947,941	7
8	Lytelton ...	...	...	...	...	5,000	118,527	395,938	...	49,110	49,110	49,110	49,110	184,241	752,816	8
9	Napier ...	302,200	92,200	62,700	...	2,251,780	772,995	2,261,393	417,802	10,873	10,873	428,675	428,675	57,666	5,772,509	9
10	Nelson ...	150,000	...	...	...	150,000	568,020	2,921,912	1,768	...	...	1,768	1,768	...	3,641,700	10
11	New Plymouth... ..	...	...	79,005	...	1,423,914	125,308	7,783,389	238,987	754,676	754,676	993,663	993,663	1,295,916	11,622,190	11
12	Palmerston North ...	200,000	...	3,552	...	294,381	1,374,041	4,475,733	...	4,354	4,354	119,075	119,075	2,609,525	8,758,034	12
13	Riccarton ...	100,000	...	...	...	312,000	374,429	1,130,863	...	65,435	65,435	184,510	184,510	190,113	2,191,915	13
14	Taumarunui ...	...	...	8,740	...	141,460	150,714	701,678	...	181,076	181,076	181,076	181,076	1,174,928	1,174,928	14
15	Taupo ...	2,960,540	...	385,027	...	6,559,559	842,378	1,696,927	617,573	2,346,835	2,346,835	2,964,408	2,964,408	75,692	12,138,964	15
16	Tauranga ...	...	...	15,171	...	206,204	237,539	2,997,438	23,726	405,494	405,494	429,220	429,220	452,148	4,322,549	16
17	Thames-Coromandel ...	...	...	...	...	...	240,684	421,885	...	54,124	54,124	54,124	54,124	90,294	806,987	17
18	Timaru ...	5,900	...	16,977	...	551,689	507,098	3,371,970	75,176	61,813	61,813	136,989	136,989	483,631	5,051,377	18
19	Wauroa ...	...	...	5,580	...	96,154	148,819	535,132	...	...	...	...	...	3,481	783,586	19
20	Wellington ...	...	...	570,765	...	5,341,459	4,989,706	23,753,670	1,560,739	5,763,935	5,763,935	7,324,674	7,324,674	392,164	41,801,673	20
21	Whakatane ...	...	...	5,358	...	12,486	310,243	1,330,373	...	...	...	...	...	86,676	1,739,778	21
22	Whangarei ...	...	...	...	...	...	646,275	1,629,547	...	40,003	40,003	40,003	40,003	741,590	3,057,415	22
	<b>GRAND-TOTALS</b>	4,984,641	94,200	2,260,962	25,847,966	26,507,495	136,846,933	4,202,487	14,314,615	18,517,102	19,835,767	227,555,263	227,555,263	3,856,669,236		
		175,279,093	331,140	65,206,162	2,610,637,686	149,259,980	506,954,146	31,789,734	50,164,434	81,954,168	507,863,256 <sup>b</sup>	3,856,669,236	3,856,669,236			

(for notes see page 13)

TABLE II (PART II)—ANALYSIS OF ASSETS FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Assets							Total	No.
		Capital Expenditure less Depreciation <sup>6</sup>	Stocks and Materials (non-loan) <sup>5</sup>	Sundry Debtors	Non-loan Cash and Investments	Loan Cash, Stock and Investments	Accumulated Deficit <sup>4</sup>	Total		
1	New Zealand Electricity <sup>1</sup> ...	\$ 2,588,281,128 <sup>7</sup>	\$ 71,869,232	\$ 110,707,024	\$ 8,314,833	\$ ...	\$ ...	\$ ...	\$ 2,779,172,217	1
1	<i>Government Department</i>	...	...	...	...	...	...	...	...	1
	<i>Power Boards and Related Authorities:</i>									
1	Ashburton ...	8,653,428	1,403,201	1,131,052	194,489	503,818	...	...	11,885,988	1
2	Auckland ...	99,761,035	4,194,674	7,914,763	28,050,910	680,410	...	...	140,601,792	2
3	Bay of Islands ...	11,094,933	26,934	807,514	2,054,822	1,022,383	...	...	15,006,586	3
4	Bay of Plenty ...	36,033,342	806,241	2,863,334	2,198,232	329,648	...	...	42,230,797	4
5	Buller ...	2,174,623	301,748	437,100	623,499	48,211	...	...	3,585,181	5
6	Cambridge ...	2,692,865	...	239,282	846,933	284,756	...	...	4,063,836	6
7	Central Canterbury ...	16,274,254	...	2,584,495	2,756,698	1,569,419	...	...	23,184,866	7
8	Central Hawke's Bay ...	3,864,704	365,832	300,649	427,500	22,935	...	...	4,981,620	8
9	Central Waikato ...	20,374,140	2,292,936	3,290,149	1,965,268	400,803	...	...	28,323,296	9
10	Dannevirke ...	3,635,872	382,805	285,231	118,502	...	...	...	4,422,410	10
11	Egmont ...	17,076,426	422,563	400,931	421,992	...	...	...	18,321,912	11
12	Franklin ...	8,077,675	764,130	1,045,913	1,903,383	73,338	...	...	11,864,439	12
13	Hawke's Bay ...	22,867,382	2,307,375	3,510,579	3,165,288	1,215,908	...	...	33,066,532	13
14	Horowhenua ...	14,365,854	1,069,865	1,034,884	988,397	2,600,715	...	...	20,059,715	14
15	Hutt Valley <sup>5</sup> ...	38,569,843	3,110,839	4,540,714	10,915,511	...	...	...	57,136,907	15
16	King Country ...	2,729,488	403,036	1,115,433	2,657,972	550,000	...	...	7,455,929	16
17	Manawatu-Oroua ...	13,079,499	978,217	3,117,664	2,667,563	...	...	...	19,842,943	17
18	Marlborough ...	10,064,600	928,521	826,125	1,360,130	137,463	...	...	13,316,839	18
19	North Auckland ...	17,657,714	716,727	2,078,817	3,227,072	464,592	...	...	24,144,922	19
20	North Canterbury ...	10,291,999	940,905	1,380,987	658,365	51,500	...	...	13,323,556	20
21	Otago ...	8,219,445	1,165,286	963,171	1,010,221	200,000	...	...	11,558,123	21
22	Otago Central ...	9,478,734	993,788	1,072,181	1,223,492	378,000	...	...	13,146,195	22
23	Poverty Bay ...	10,637,502	1,100,298	639,337	288,752	203,378	...	...	12,869,267	23
24	Rotorua ...	14,446,734	707,554	1,086,938	3,570,358	...	...	...	19,811,604	24
25	South Canterbury ...	12,693,157	1,804,745	2,248,949	1,251,656	226,421	...	...	18,224,928	25
26	Taranaki ...	7,637,078	733,777	535,830	1,155,934	85,568	...	...	10,148,187	26
27	Tarama ...	3,204,597	249,022	198,904	117,607	...	...	...	3,770,130	27
28	Tasman ...	11,249,720	1,864,608	2,235,214	933,593	620,000	...	...	16,903,135	28
29	Tauranga <sup>4</sup> ...	51,699,921	1,110,389	3,456,928	1,955,539	698,681	...	...	58,921,458	29
30	Te Awamutu ...	3,391,361	126,307	347,026	1,288,005	...	...	...	5,152,699	30
31	Thames Valley ...	18,726,421	2,711,740	5,970,882	5,323,736	246,400	...	...	32,979,179	31
32	Wairarapa ...	10,097,311	1,541,758	1,436,304	861,171	...	...	...	13,936,544	32
33	Waeroa ...	1,794,367	228,821	449,441	53,770	10,000	...	...	2,536,399	33
34	Waikato ...	6,186,711	703,746	1,166,083	1,162,855	165,822	...	...	9,385,217	34
35	Waitemata ...	43,571,059	2,730,300	4,969,138	15,549,919	...	...	...	66,820,416	35
36	Waitomo ...	11,778,195	441,967	967,607	1,207,971	216,348	...	...	14,612,088	36
37	Wanganui-Rangitikei ...	13,346,460	2,177,811	2,205,931	1,377,090	1,145,330	...	...	20,252,622	37
38	West Coast ...	17,937,038	910,298	621,271	2,086,968	537,924	...	...	22,093,499	38
		615,435,507	42,718,764	69,476,751	107,621,163	14,689,571	...	...	849,941,756	

TABLE II (PART II)—ANALYSIS OF ASSETS FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Assets										Total	No.
		Capital Expenditure less Depreciation <sup>6</sup>	Stocks and Materials (non-loan) <sup>6</sup>	Sundry Debtors	Non-loan Cash and Investments	Loan Cash, Stock and Investments	Accumulated Deficit <sup>4</sup>						
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
<i>Territorial Authorities</i>													
1	Bluff ...	298,920	72,903	88,542	5,643	2,394	...	...	...	...	468,402	1	
2	Christchurch ...	32,589,775	2,064,615	4,538,566	10,841,277	562,948	...	...	...	...	50,597,181	2	
3	Dunedin ...	34,881,009	2,343,872	2,923,777	12,118,793	1	...	...	...	...	52,267,452	3	
4	Hamilton ...	6,393,614	...	380,633	3,201,692	...	...	...	...	...	9,975,939	4	
5	Heathcote ...	1,230,046	123,913	166,672	...	50,000	...	...	...	51,462	1,622,093	5	
6	Invercargill ...	6,264,992	492,660	506,173	339,124	49,304	...	...	...	407,581	8,059,834	6	
7	Kaipoi ...	672,825	101,767	141,584	31,765	...	...	...	...	...	947,941	7	
8	Lytelton ...	400,938	78,141	122,381	151,356	...	...	...	...	...	752,816	8	
9	Napier ...	4,513,173	472,862	357,800	417,802	10,872	...	...	...	...	5,772,509	9	
10	Nelson ...	3,071,913	58,295	373,998	53,587	...	...	...	...	83,907	3,641,700	10	
11	New Plymouth ...	8,104,984	1,063,635	1,046,887	1,406,684	...	...	...	...	...	11,622,190	11	
12	Palmerston North ...	4,770,116	420,736	945,289	2,621,893	...	...	...	...	...	8,758,034	12	
13	Riccarton ...	1,442,863	72,303	304,626	253,048	119,075	...	...	...	...	2,191,915	13	
14	Taumarunui ...	1,023,245	39,730	74,939	17,043	969	...	...	...	...	1,174,928	14	
15	Taupo ...	9,607,177	388,360	576,618	674,437	892,372	...	...	...	...	12,138,964	15	
16	Tauranga ...	3,196,769	254,270	218,916	644,094	8,500	...	...	...	...	4,322,549	16	
17	Thames-Coromandel ...	421,885	80,935	158,713	145,454	...	...	...	...	...	806,987	17	
18	Timaru ...	3,898,168	312,250	477,971	337,497	25,491	...	...	...	...	5,051,377	18	
19	Waioa ...	631,286	16,511	16,841	118,948	...	...	...	...	...	783,586	19	
20	Wellington ...	29,095,128	1,787,066	2,843,152	8,076,327	...	...	...	...	...	41,801,673	20	
21	Whakatane ...	1,342,860	145,420	125,679	125,819	...	...	...	...	...	1,739,778	21	
22	Whangarei ...	1,560,890	66,682	545,721	884,122	...	...	...	...	...	3,057,415	22	
<b>GRAND-TOTALS</b>		155,412,576	10,456,926	16,935,478	42,466,405	1,721,926	561,952	227,555,263	561,952	3,856,669,236			

NOTES: <sup>1</sup>Includes Southland Electric Power Supply. <sup>2</sup>Included with New Zealand Electricity. <sup>3</sup>Includes realignment of currencies \$6,947,538. <sup>4</sup>As for note 6, Table V, and as a result the operations of the T.I.G.C. have been included with the Tauranga E.P.B. <sup>5</sup>Hutt Valley Energy Board, previously known as Hutt Valley Electric Power and Gas Board. <sup>6</sup>Subject to auditing after table published. <sup>7</sup>New Zealand Electricity is now shown at depreciated value, due to change in accounting policy. <sup>8</sup>Shown as General Reserve in Section A Table ii, but in this table has been included under this heading as it is more closely related to the Supply Authorities' "Accumulated Retained Surplus".

TABLE III—ANALYSIS OF CAPITAL EXPENDITURE FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Capital Expenditure During Year					Source of Capital Expenditure Funds					Total	No.
		Generation System	Transmission and Distribution	Other	Total	from Consumers Contributions (non-loan)	from Loans	from Income Current Year	from Depreciation Provision for Current Year	from Reserves	Total		
1	New Zealand Electricity <sup>1</sup>	\$ 200,151,955	\$ 30,548,086	\$ 14,960,140	\$ 245,660,181	\$ ...	\$ 112,001,162	\$ 92,839,576	\$ 40,819,443	\$ ...	\$ 245,660,181	1	
1	<i>Government Department</i>	...	...	...	...	...	...	...	...	...	...	1	
1	<i>Southland<sup>2</sup></i>	...	...	...	...	...	...	...	...	...	...	1	
	<i>Power Boards and Related Authorities:</i>												
1	Ashburton	489,637	1,106,081	103,038	1,698,756	158,331	939,637	251,367	349,421	...	1,698,756	1	
2	Auckland	...	6,467,879	974,565	7,442,444	356,334	1,802,120	1,000,000	511,447	3,772,543	7,442,444	2	
3	Bay of Islands	...	1,109,438	151,046	1,260,484	123,288	307,173	664,700	165,323	78,000	1,260,484	3	
4	Bay of Plenty	6,828,929	1,056,068	2,847,219	10,732,216	49,113	9,800,932	265,787	538,384	...	10,732,216	4	
5	Buller	...	307,635	32,320	339,955	57,086	58,190	145,101	79,578	...	339,955	5	
6	Cambridge	...	543,521	73,882	617,403	5,866	...	476,219	117,734	17,584	617,403	6	
7	Central Canterbury	...	1,604,211	607,053	2,211,264	...	...	1,170,545	716,875	323,844	2,211,264	7	
8	Central Hawke's Bay	...	492,311	18,281	510,592	64,760	181,880	131,597	132,355	...	510,592	8	
9	Central Waikato	...	3,411,583	543,133	3,954,716	74,298	927,871	1,823,724	1,050,823	78,000	3,954,716	9	
10	Dannevirke	...	448,082	93,801	541,883	69,908	...	284,102	160,871	27,002	541,883	10	
11	Egmont	8,667,129	337,189	132,067	9,136,385	...	8,665,329	206,368	264,688	32,747	9,136,385	11	
12	Franklin	...	537,796	240,760	778,556	70,715	197,995	203,285	73,814	...	778,556	12	
13	Hawke's Bay	...	3,395,916	720,641	4,116,557	83,062	1,050,435	2,187,227	795,833	...	4,116,557	13	
14	Horowhenua	...	1,048,190	208,616	1,256,806	160,821	250,000	636,959	209,026	...	1,256,806	14	
15	Hutt Valley <sup>4</sup>	...	2,702,527	1,204,930	3,907,457	8,801	1,898,656	2,000,000	...	...	3,907,457	15	
16	King Country	...	143,355	221,758	365,113	58,629	...	135,489	170,995	...	365,113	16	
17	Manawatu-Oroua	...	1,504,630	261,768	1,766,398	146,742	39,315	867,435	704,721	8,185	1,766,398	17	
18	Marlborough	382,016	1,306,858	329,637	2,018,511	45,873	1,338,388	304,802	317,968	11,480	2,018,511	18	
19	North Auckland	...	1,833,214	260,762	2,093,976	377,187	332,878	813,548	570,363	...	2,093,976	19	
20	North Canterbury	...	1,486,566	108,387	1,594,953	269,458	500,000	375,324	450,171	...	1,594,953	20	
21	Otago	4,414	440,844	271,390	716,648	65,094	432,799	...	218,755	...	716,648	21	
22	Poverty Bay	...	480,054	1,657,839	2,137,893	125,993	1,607,000	124,317	280,583	...	2,137,893	22	
23	Rotorua	5,490,592	877,316	454,978	1,332,294	40,907	286,326	751,022	236,823	17,216	1,332,294	23	
24	South Canterbury	...	816,389	859,636	1,666,025	114,628	5,744,774	500,663	226,361	580,191	7,166,617	24	
25	Taranaki	...	729,295	230,219	959,514	46,926	100,000	84,712	481,071	246,805	959,514	25	
26	Taranaki	55,026	941,351	413,624	1,410,001	19,954	211,196	784,549	394,302	...	1,410,001	26	
27	Tararua	...	417,525	78,093	495,618	17,911	165,000	165,562	147,145	...	495,618	27	
28	Tasman	...	1,195,741	727,534	1,923,275	42,925	909,000	316,888	654,462	...	1,923,275	28	
29	Tauranga <sup>3</sup>	6,480,208	2,464,262	966,677	9,911,147	69,684	8,338,012	1,080,170	348,281	75,000	9,911,147	29	
30	Te Awamutu	...	299,275	205,780	505,055	51,269	...	258,996	171,885	22,905	505,055	30	
31	Thames Valley	...	2,680,113	1,124,482	3,804,595	210,451	1,111,000	1,560,492	922,652	...	3,804,595	31	
32	Wairarapa	28,178	1,573,436	582,598	2,184,212	76,814	1,450,000	458,054	199,344	...	2,184,212	32	
33	Waikato	239,444	68,215	275,101	582,760	954	249,444	19,045	67,431	245,886	582,760	33	
34	Waikato	...	631,129	216,572	847,701	24,337	184,300	209,007	382,557	47,500	847,701	34	
35	Waitemata	...	4,594,266	1,646,201	6,240,467	194,139	1,870,520	2,172,434	1,070,182	933,192	6,240,467	35	
36	Waitemata	2,213,243	673,715	256,159	3,143,117	161,970	2,050,000	302,030	331,075	298,042	3,143,117	36	
37	Wanganui-Rangitikei	555,382	1,374,550	357,918	2,287,850	18,018	312,258	345,870	358,133	...	2,287,850	37	
38	West Coast	...	...	...	...	137,743	1,249,678	279,346	621,083	...	2,287,850	38	
	<b>Total</b>	<b>31,434,198</b>	<b>51,693,634</b>	<b>19,899,636</b>	<b>103,027,468</b>	<b>3,599,989</b>	<b>54,562,106</b>	<b>23,356,736</b>	<b>14,692,515</b>	<b>6,816,122</b>	<b>103,027,468</b>		

TABLE III—ANALYSIS OF CAPITAL EXPENDITURE FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Capital Expenditure During Year					Source of Capital Expenditure Funds					Total	No.
		Generation System	Transmission and Distribution	Other	Total	From Consumers Capital Contributions (non-loan)	From Loans	from Income for Current Year	from Depreciation Provision for Current Year	from Reserves			
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
<i>Territorial Authorities</i>													
1	Bluff	...	39,618	9,875	49,493	...	20,000	29,493	...	...	...	49,493	1
2	Chmschurch	...	3,852,344	783,304	4,635,648	33,962	1,000,000	1,202,052	2,399,634	...	...	4,635,648	2
3	Dunedin	...	1,548,708	954,807	5,121,723	...	...	1,305,000	...	3,816,723	...	5,121,723	3
4	Hamilton	...	577,822	90,700	668,522	23,513	...	645,009	...	...	...	668,522	4
5	Heathcote	...	294,569	9,361	303,930	...	79,210	224,720	...	...	...	303,930	5
6	Invercargill	...	328,823	86,761	415,584	...	197,751	217,833	...	...	...	415,584	6
7	Kaipoi	...	51,825	14,483	66,308	...	15,160	51,148	...	...	...	66,308	7
8	Lytelton	...	1,570	19,329	20,899	...	...	20,899	...	...	...	20,899	8
9	Napier	...	493,762	124,784	618,546	...	210,000	201,382	207,164	...	...	618,546	9
10	Nelson	...	547,728	61,222	608,950	...	150,000	337,158	121,792	...	...	608,950	10
11	New Plymouth	...	702,193	518,020	1,220,213	4,270	...	767,401	448,542	...	...	1,220,213	11
12	Palmerston North	...	341,766	163,356	505,122	15,575	74,489	248,030	167,028	...	...	505,122	12
13	Riccarton	...	214,904	36	214,940	...	81,000	133,940	...	...	...	214,940	13
14	Taumarunui	...	35,618	29,033	64,651	...	...	62,826	1,825	...	...	64,651	14
15	Taupo	...	2,470,448	230,231	3,136,442	...	2,960,540	175,902	...	...	...	3,136,442	15
16	Tauranga	...	164,226	99,752	264,183	...	...	264,183	...	...	...	264,183	16
17	Thames-Coromandel	...	33,289	3,149	36,438	...	...	14,295	22,143	...	...	36,438	17
18	Timaru	...	282,707	158,068	440,775	...	45,341	348,232	...	47,202	...	440,775	18
19	Wairoa	...	65,828	3,148	68,976	...	...	58,267	30,709	...	...	68,976	19
20	Wellington	...	2,888,431	542,254	3,430,685	32,204	...	2,614,646	...	783,835	...	3,430,685	20
21	Whakatane	...	70,504	8,819	79,323	...	...	21,552	57,771	...	...	79,323	21
22	Whangarei	...	37,942	3,831	41,773	...	...	41,773	...	...	...	41,773	22
<b>GRAND-TOTALS</b>		...	5,124,479	12,797,823	22,013,124	109,524	4,833,491	8,965,741	3,456,608	4,647,760	11,463,882	370,700,773	
		...	236,710,632	95,039,543	38,950,598	3,709,513	171,396,759	125,162,053	58,968,566	...	...	370,700,773	

NOTES: <sup>1</sup>Includes Southland Electric Power Supply.

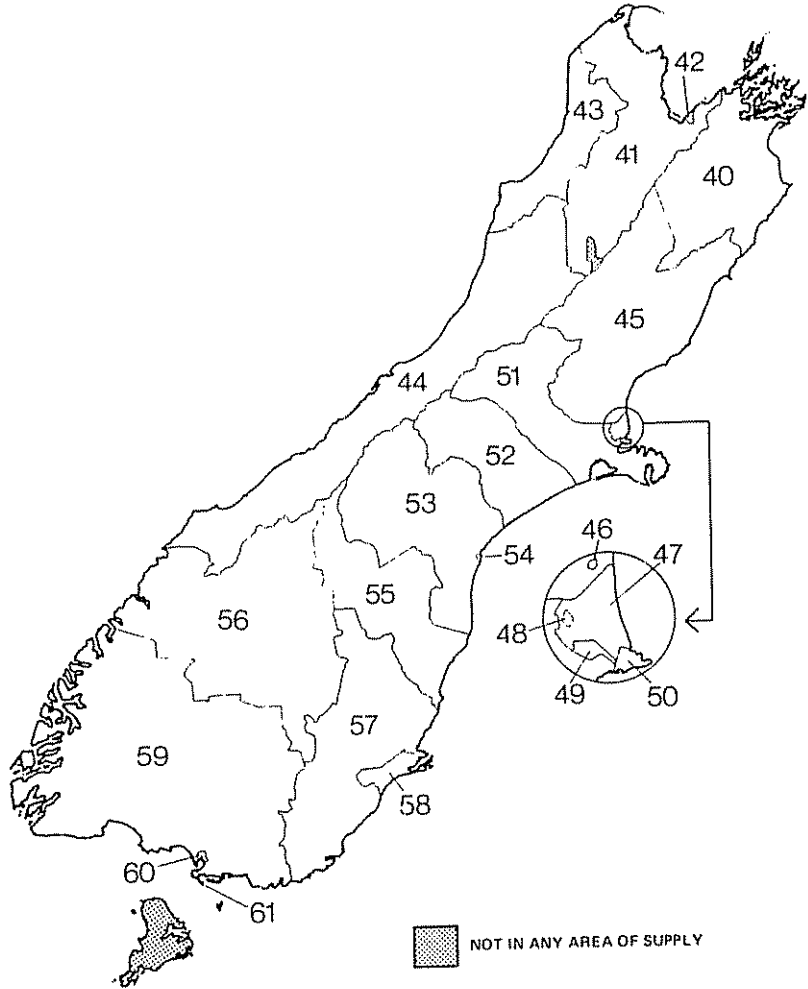
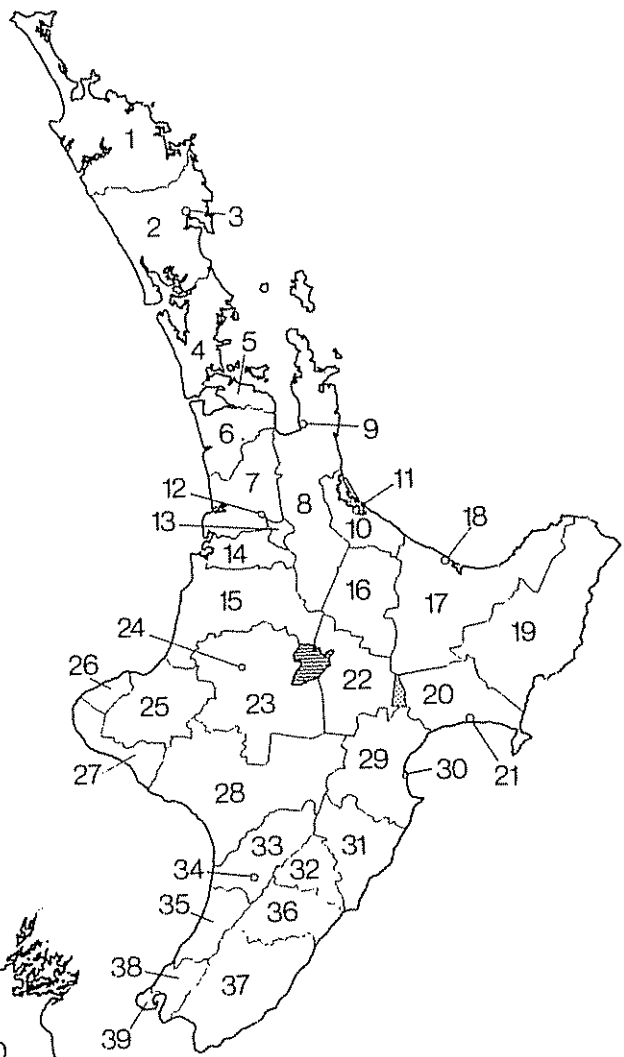
<sup>2</sup>Included with New Zealand Electricity.

<sup>3</sup>Hutt Valley Energy Board, previously known as Hutt Valley Electric Power and Gas Board.

<sup>4</sup>As for note 6, Table V, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga

FIGURE 1: SUPPLY AUTHORITY LICENSED AREAS AS AT 31 MARCH 1981

NORTH ISLAND		
	No.	km <sup>2</sup>
Auckland EPB ...	5	935
Bay of Islands EPB	1	6 830
Bay of Plenty EPB	17	8 389
Cambridge EPB	13	440
Central Hawke's Bay EPB	31	3 367
Central Waikato EPB	7	3 074
Dannevirke EPB	32	2 103
Egmont EPB	27	1 553
Franklin EPB	6	2 220
Hamilton City Council	12	14
Hawke's Bay EPB	29	4 967
Horowhenua EPB	35	1 628
Hutt Valley Energy Board	38	1 204
King Country EPB	23	7 384
Manawatu-Oroua EPB	33	3 383
Napier City Council	30	8
New Plymouth City Council	26	591
North Auckland EPB	2	5 725
Palmerston North City Council	34	19
Poverty Bay EPB	19	8 284
Rotorua AEA	16	3 870
Taranaki EPB	25	4 359
Taranaki EPB	36	2 850
Taumarunui Borough Council	24	20
Taupo Borough Council	22	3 455
Tauranga City Council	11	5
Tauranga EPB	10	1 728
Te Awamutu EPB	14	1 424
Thames-Coromandel District Council	9	11
Thames Valley EPB	8	7 158
Wairarapa EPB	37	5 753
Wairoa Borough Council	21	6
Wairoa EPB	20	3 506
Waitemata EPB	4	2 890
Waitemata EPB	15	6 221
Wanganui-Rangitikei EPB	28	9 472
Wellington MED	39	200
Whakatane District Council	18	6
Whangarei City Council	3	13
North Island Area of Supply:		115 065



SOUTH ISLAND		
	No.	km <sup>2</sup>
Ashburton EPB	52	6 664
Bluff Borough Council	61	6
Buller EPB	43	4 645
Central Canterbury EPB	51	7 993
Christchurch MED	47	256
Dunedin City Council	58	1 101
Heathcote County Council	49	16
Invercargill City Council	60	27
Kaipoi Borough Council	46	4
Lyttelton Borough Council	50	10
Marlborough EPB	40	10 645
Neison City Council	42	21
North Canterbury EPB	45	13 001
Otago EPB	57	12 349
Otago Central EPB	56	18 750
Riccarton Borough Council	48	3
South Canterbury EPB	53	10 585
Southland EPS	59	28 740
Tasman EPB	41	10 799
Timaru City Council	54	11
Waitaki EPB	55	7 741
West Coast EPB	44	18 017
South Island Area of Supply:		151 354
New Zealand Area of Supply:		266 419

NOT IN ANY AREA OF SUPPLY



TABLE IV—STATISTICS OF GENERATING PLANT, SYSTEM VOLTAGES, CIRCUIT-KILOMETRES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Source of Supply <sup>1</sup>	Capacity of Generating Plant				Static Head, in Metres	Voltages			Distribution Substations		Circuit-Kilometres of Lines	No.		
			Hydro	Steam	Oil/Gas	Total Capacity		Generation	Transmission	Distribution <sup>2</sup>	Number	kVA				
New Zealand Electricity <sup>3</sup>																
			kW													
			kW													
1	North Island.	G.	...	...	...	3 406 420	...	...	...	500 000 D.C.	...	...	189	8 641 850	9 516	1
	Arapuni	...	157 800	...	...	...	53	...	...	...	...	...	...	...	...	...
	Aratiatia	...	90 000	...	...	...	34	...	...	...	...	...	...	...	...	...
	Ahiamuri	...	84 000	...	...	...	25	...	...	...	...	...	...	...	...	...
	Karapiro	...	90 000	...	...	...	30	...	...	...	...	...	...	...	...	...
	Mangahao	...	19 200	...	...	...	273	...	...	...	...	...	...	...	...	...
	Maratai	...	360 000	...	...	...	61	...	...	...	...	...	...	...	...	...
	Marsden	...	...	240 000	...	...	...	...	...	...	...	...	...	...	...	...
	Matahina	...	72 000	...	...	...	61	...	...	...	...	...	...	...	...	...
	Meremere	...	...	210 000	...	...	...	...	...	...	...	...	...	...	...	...
	New Plymouth	...	...	600 000	...	...	...	...	...	...	...	...	...	...	...	...
	Ohakuri	...	112 000	...	...	...	35	...	...	...	...	...	...	...	...	...
	Otauhu	...	...	...	280 000	...	...	...	...	...	...	...	...	...	...	...
	Stratford	...	...	...	208 000	...	...	...	...	...	...	...	...	...	...	...
	Tokaanu	...	200 000	...	...	...	208	...	...	...	...	...	...	...	...	...
	Waikarenoana	...	124 000	...	...	...	206; 135; 113	...	...	...	...	...	...	...	...	...
	Waipapa	...	51 000	...	...	...	16	...	...	...	...	...	...	...	...	...
	Wairakei	...	...	192 420	...	...	...	...	...	...	...	...	...	...	...	...
	Whakamaru	...	100 000	...	...	...	38	...	...	...	...	...	...	...	...	...
	Whirunaki	...	...	...	216 000	...	...	...	...	...	...	...	...	...	...	...
2	South Island	G.	...	...	...	2 434 960	...	...	...	500 000 D.C.	...	...	7 589	4 036 954	14 836 <sup>7</sup>	2
	Arnold ...	...	3 060	...	...	...	13	...	...	...	...	...	...	...	...	...
	Aviemore	...	220 000	...	...	...	37	...	...	...	...	...	...	...	...	...
	Benmore	...	540 000	...	...	...	92	...	...	...	...	...	...	...	...	...
	Cobb ...	...	32 000	...	...	...	594	...	...	...	...	...	...	...	...	...
	Coleridge	...	34 500	...	...	...	149	...	...	...	...	...	...	...	...	...
	Highbank	...	25 200	...	...	...	101	...	...	...	...	...	...	...	...	...
	Manapouri	...	700 000	...	...	...	177	...	...	...	...	...	...	...	...	...
	Monowai	...	6 000	...	...	...	47	...	...	...	...	...	...	...	...	...
	Ohau "A"	...	264 000	...	...	...	54	...	...	...	...	...	...	...	...	...
	Roxburgh	...	320 000	...	...	...	46	...	...	...	...	...	...	...	...	...
	Tekapo "A"	...	25 200	...	...	...	30	...	...	...	...	...	...	...	...	...
	Tekapo "B"	...	160 000	...	...	...	146	...	...	...	...	...	...	...	...	...
	Wataki...	...	105 000	...	...	...	21	...	...	...	...	...	...	...	...	...
			...	3 894 960	1 242 420	704 000	5 841 380	...	...	...	...	...	7 778	12 678 804	24 352 <sup>7</sup>	...

TABLE IV—STATISTICS OF GENERATING PLANT, SYSTEM VOLTAGES, CIRCUIT-KILOMETRES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Source of Supply <sup>1</sup>	Capacity of Generating Plant			Static Head, in Metres	Voltages			Distribution Substations		Circuit-Kilo-metres of Lines	No.
			Hydro	Steam	Oil/Gas		Total Capacity	Generation	Transmission	Distribution <sup>2</sup>	Number		
			kW	kW	kW	kW							
<b>Government Department</b>													
1	Southland <sup>4</sup>	G.	6 000	...	...	6 000	47	66 000	33 000; 11 000; 6 600; 6 350	...	7 478	406 054	7 766
<b>Power Boards and Related Authorities</b>													
1	Ashburton	G.	...	...	...	...	...	...	33 000; 11 000	...	3 133	170 097	2 963
2	Auckland	G.	...	...	...	...	...	110 000	33 000; 22 000; 11 000; 6 600	...	6 494	3 725 793	7 068
3	Bay of Islands	G.	...	...	...	...	...	...	33 000; 11 000; 6 350	...	3 177	195 695	4 055
4	Bay of Plenty	I. & G.	25 200	...	...	25 200	38	110 000	33 000; 11 000	...	1 939	219 654	1 995
5	Buller	I. & G.	...	...	297	297	...	3 300	33 000; 11 000	...	367	32 207	681
6	Cambridge	G.	...	...	...	...	...	...	11 000	...	771	43 365	998
7	Central Canterbury	G.	...	...	...	...	...	...	33 000; 11 000	...	4 029	404 920	3 248
8	Central Hawke's Bay	G.	...	...	...	...	...	...	33 000; 11 000	...	1 444	67 076	2 119
9	Central Waikato	G.	...	...	...	...	...	...	33 000; 11 000	...	2 724	393 303	4 690
10	Dannevirke	G.	...	...	...	...	...	...	11 000; 6 600	...	1 113	42 786	1 013
11	Egmont	I. & G.	315	...	...	315	15	6 600	33 000; 11 000	...	1 407	73 090	1 734
12	Franklin	G.	...	...	...	...	...	...	33 000; 11 000	...	1 680	180 028	2 733
13	Hawke's Bay	G.	...	...	...	...	...	...	33 000; 11 000	...	3 216	554 469	4 339
14	Horowhenua	G.	...	...	...	...	...	...	33 000; 11 000; 3 300	...	1 655	325 041	1 631
15	Hutt Valley <sup>5</sup>	G.	...	...	...	...	...	...	33 000; 11 000	...	2 591	894 006	2 110
16	King Country	I. & G.	6 000	...	...	6 000	67	6 600	33 000; 11 000; 6 600	...	1 394	97 732	2 311
17	Manawatu-Oroua	I. & G.	...	...	...	...	...	...	33 000; 11 000	...	1 991	264 086	2 513
18	Marlborough	I. & G.	1 000	1 330	...	2 330	30	6 600	33 000; 11 000; 6 600	...	1 896	175 168	2 473
19	North Auckland	G.	...	...	...	...	...	...	33 000; 11 000	...	3 779	382 944	4 458
20	North Canterbury	G.	...	...	...	...	...	...	33 000; 11 000	...	3 753	157 182	4 157
21	Otago	G.	...	...	...	...	...	...	33 000; 22 000; 11 000; 6 600; 6 350	...	3 139	175 116	4 424
22	Otago Central	I. & G.	8 335	...	...	8 335	309; 301; 244; 125; 117; 88; 65	6 600; 3 300 415; 400	33 000; 11 000; 6 600	...	1 657	81 898	2 215
23	Poverty Bay	G.	...	...	...	...	...	...	50 000; 11 000	...	2 204	175 202	2 728
24	Rotorua	G.	...	...	...	...	...	...	33 000; 11 000	...	1 478	103 445	1 682
25	South Canterbury	G.	...	...	...	...	...	...	33 000; 22 000; 11 000; 6 350	...	3 650	208 069	3 247
26	Taranaki	I. & G.	4 800	...	...	4 800	100	6 600	33 000; 11 000; 6 600	...	1 697	148 767	2 422
27	Tararua	G.	...	...	...	...	...	...	33 000; 11 000	...	1 141	42 364	1 374
28	Tasman	I. & G.	530	...	...	530	115; 293; 32	400; 3 300	33 000; 11 000; 6 600; 3 300	...	2 434	261 613	3 076
29	Tauranga	I. & G.	21 000 <sup>5</sup>	...	...	21 000 <sup>5</sup>	34; 151	11 000	33 000; 11 000; 6 300	...	2 746	284 400	3 385 <sup>6</sup>
30	Te Awamutu	G.	...	...	...	...	...	...	11 000	...	1 200	63 830	1 218
31	Thames Valley	G.	...	...	...	...	...	...	66 000; 50 000; 33 000; 11 000	...	4 340	502 815	6 776
32	Wairarapa	I. & G.	770	...	...	770	88; 131	3 300	33 000; 11 000; 3 300	...	2 793	216 041	2 907
33	Waeroa	G.	...	...	...	...	...	...	11 000	...	643	20 153	1 007
34	Waitaki	G.	...	...	...	...	...	...	33 000; 11 000	...	1 730	154 762	1 786
35	Waitemata	I. & G.	...	6 000	...	6 000	...	110 000	33 000; 11 000	...	6 653	1 215 669	8 447
36	Waitomo	I. & G.	3 479	...	...	3 479	20; 41	3 300; 500; 400	33 000; 22 000; 11 000; 6 600	...	2 372	126 384	2 814
37	Wanganui-Rangitikei	I. & G.	346	...	...	346	116	6 600; 3 300	33 000; 22 000; 11 000; 6 600	...	3 035	230 013	4 085
38	West Coast	I. & G.	13 316	266	...	13 582	13; 33; 44; 46; 53; 55; 76; 78; 198	400; 415; 420; 2 200; 2 300; 3 300; 11 000	33 000; 22 000; 11 000	...	1 158	66 606	1 715
			85 091	7 893	92 984	92 623	12 475 791	112 598					

TABLE IV—STATISTICS OF GENERATING PLANT, SYSTEM VOLTAGES, CIRCUIT-KILOMETRES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Source of Supply <sup>1</sup>	Capacity of Generating Plant			Static Head, in Metres	Voltages			Distribution Substations		Circuit-Kilometres of Lines	No.						
			Hydro	Steam	Oil/Gas		Total Capacity	Generation	Transmission	Distribution <sup>4</sup>	Number			kVA					
													kw	kw	kw	kw			
<b>Territorial Authorities</b>																			
1	Bluff	B.	...	...	...	...	...	...	...	...	...	...	...						
2	Christchurch	G.	...	...	...	...	...	...	...	...	...	...	...						
3	Dunedin	I. & G.	71 177	...	...	71 177	...	...	...	...	...	...	...						
4	Hamilton	G.	...	...	...	...	...	...	...	...	...	...	...						
5	Heathcote	G.	...	...	...	...	...	...	...	...	...	...	...						
6	Invercargill	B.	...	...	...	...	...	...	...	...	...	...	...						
7	Kaipoi	B.	...	...	...	...	...	...	...	...	...	...	...						
8	Lytelton	G.	...	...	...	...	...	...	...	...	...	...	...						
9	Napier	B.	...	...	...	...	...	...	...	...	...	...	...						
10	Nelson	B.	...	...	...	...	...	...	...	...	...	...	...						
11	New Plymouth	I. & G.	3 500	...	...	3 500	...	...	...	...	...	...	...						
12	Palmerston North	I. & B.	...	...	2 000	2 000	...	...	...	...	...	...	...						
13	Riccarton	I. & G.	...	...	...	...	...	...	...	...	...	...	...						
14	Taumarunui	I. & B.	1 345	...	...	1 345	...	...	...	...	...	...	...						
15	Taupo	I. & G.	2 400	...	...	2 400	...	...	...	...	...	...	...						
16	Tauranga	I. & B.	3 440	...	...	3 440	...	...	...	...	...	...	...						
17	Thames-Coromandel	B.	...	...	...	...	...	...	...	...	...	...	...						
18	Timaru	B.	...	...	...	...	...	...	...	...	...	...	...						
19	Wauroa	B.	...	...	...	...	...	...	...	...	...	...	...						
20	Wellington	G.	...	...	...	...	...	...	...	...	...	...	...						
21	Whakatane	B.	...	...	...	...	...	...	...	...	...	...	...						
22	Whangarei	B.	...	...	...	...	...	...	...	...	...	...	...						
<b>GRAND TOTALS...</b>													81 862	2 000	83 862	8 180	3 829 293	10 496	
<b>GRAND TOTALS...</b>													4 061 913	1 242 420	713 893	6 018 226	108 581	28 983 888	147 446 <sup>7</sup>

NOTES—<sup>1</sup>G. = Government supply, B. = Bulk supply from another authority, I. = Independent supply (own generation)  
<sup>2</sup>Low tension predominantly 400/230 volts, 50 Hertz.  
<sup>3</sup>Includes Southland Electric Power Supply.  
<sup>4</sup>Operated by Tauranga Joint Generation Committee, jointly owned by Tauranga Electric Power Board and Tauranga City Council.  
<sup>5</sup>Hutt Valley Energy Board, previously known as Hutt Valley Electric Power and Gas Board.  
<sup>6</sup>Includes 41 circuit-kilometres of lines owned by Tauranga Joint Generation Committee.  
<sup>7</sup>Includes 40 kilometres of submarine cable (inter-island H.V.D.C.).

TABLE V—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION, FOR YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Maximum Load kW	Annual Load Factor %	Electricity										kWh Sold (Average) Per Head of Population <sup>1</sup>																							
				Generated			Purchased	Generated and Purchased		Sold		Non-productive <sup>1</sup>	Percentage Non-Productive <sup>2</sup>																								
				Hydro	Steam	Oil/Gas		kWh	kWh	In Bulk for Resale	Domestic				Retail to Consumers	kWh																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
1	New Zealand Electricity <sup>1</sup>	3 809 300	64.58	18 372 097 600	3 035 018 200	132 338 800	10 664 194	21 550 118 794	15 795 931 874	202 621 202	3 854 468 900	1 717 076 818	7.97	4 957																							
1	Government Department	131 997	51.28	40 110 800	...	...	9 456 040	592 914 712	210 456 992	185 527 346	159 567 343	37 363 031	9.77	4 957																							
1	Southland <sup>1</sup>	...	...	...	...	...	...	...	...	...	...	...	...																								
1	Power Boards and Related Authorities:	...	...	...	...	...	...	...	...	...	...	...	...																								
1	Ashburton	23 935	64.95	...	...	...	136 179 439	136 179 439	...	75 117 703	57 071 902	8 989 834	6.60																								
2	Auckland	578 312	35.02	...	...	...	2 787 421 560	2 787 421 560	...	1 180 689 087	1 606 732 473	68 245 193	2.45																								
3	Bay of Islands	27 248	71.39	...	...	...	170 400 582	170 400 582	...	83 389 440	87 011 142	14 311 886	8.40																								
4	Bay of Plenty	65 966	85.80	...	...	...	376 727 022	376 727 022	...	79 256 188	300 514 659	13 248 063	3.37																								
5	Buller	8 301	...	...	...	...	62 394 757	62 394 757	...	43 621 355	18 773 402	3 665 371	5.87																								
6	Cambridge	12 402	60.47	...	...	...	65 691 410	65 691 410	...	32 355 470	33 335 940	7 094 019	10.80																								
7	Central Canterbury	62 314	60.32	...	...	...	330 372 052	330 372 052	...	115 103 607	105 730 171	19 127 274	5.80																								
8	Central Hawke's Bay	12 133	39.12	...	...	...	62 835 203	62 835 203	...	43 575 160	19 260 043	6 063 650	9.65																								
9	Central Waikato	80 407	56.86	...	...	...	400 518 015	400 518 015	...	213 203 273	187 314 742	28 934 344	7.23																								
10	Dannevirke	10 044	64.72	...	...	...	56 945 796	56 945 796	...	34 737 822	18 154 224	4 053 750	7.12																								
11	Egmont	26 250	64.89	...	...	...	147 349 074	147 349 074	...	64 964 270	76 384 804	7 866 664	5.27																								
12	Franklin	34 017	63.07	...	...	...	187 955 318	187 955 318	...	102 038 607	85 916 711	19 113 686	10.19																								
13	Hawke's Bay	146 465	66.13	...	...	...	848 774 743	848 774 743	...	258 429 931	590 344 812	29 370 616	3.75																								
14	Horowhenua	47 754	53.01	...	...	...	230 101 743	230 101 743	...	139 627 366	190 474 377	19 300 530	8.39																								
15	Hutt Valley <sup>1</sup>	208 248	49.06	...	...	...	895 025 922	895 025 922	...	523 814 786	371 211 135	35 917 574	4.01																								
16	King Country	46 800	55.72	...	...	...	198 959 016	198 959 016	...	45 314 231	165 460 096	4 834 229	2.24																								
17	Manawatu-Oroua	85 353	56.84	...	...	...	422 380 452	422 380 452	...	119 068 633	127 056 058	12 044 741	4.75																								
18	Marlborough	25 279	64.81	...	...	...	143 510 233	143 510 233	...	82 637 411	149 200 935	11 671 877	8.13																								
19	North Auckland	56 708	73.72	...	...	...	366 206 200	366 206 200	...	73 754 812	152 972 391	19 906 778	6.81																								
20	North Canterbury	35 371	60.12	...	...	...	186 265 392	186 265 392	...	17 656 000	72 101 791	12 102 171	7.18																								
21	Otago	30 245	56.22	...	...	...	148 960 572	148 960 572	...	84 470 223	51 557 573	12 932 776	8.68																								
22	Otago Central	27 259	58.72	...	...	...	140 220 982	140 220 982	...	78 948 463	48 828 027	13 416 492	9.64																								
23	Poverty Bay	39 157	56.35	...	...	...	193 273 449	193 273 449	...	108 977 002	69 225 983	15 050 464	7.79																								
24	Rotorua	49 121	53.21	...	...	...	237 571 728	237 571 728	...	124 560 000	93 784 638	19 105 881	8.05																								
25	South Canterbury	58 652	60.71	...	...	...	311 931 675	311 931 675	...	100 812 800	78 322 686	9 264 433	4.39																								
26	Taranaki	28 384	65.49	...	...	...	140 896 538	140 896 538	...	72 932 646	75 547 447	14 100 845	5.335																								
27	Taranaki	7 978	61.07	...	...	...	42 682 587	42 682 587	...	23 474 094	14 853 421	4 355 072	10.20																								
28	Tasman	61 283	61.26	...	...	...	328 777 732	328 777 732	...	127 379 140	97 857 256	11 186 831	4.73																								
29	Tairāngia	62 343	53.57	...	...	...	217 730 439	217 730 439	...	25 416 865	84 513 667	15 107 342	5.41																								
30	Te Awamutu	17 159	65.00	...	...	...	97 704 047	97 704 047	...	16 760	38 484 189	6 463 238	6.62																								
31	Thames Valley	161 640	71.78	...	...	...	1 016 357 937	1 016 357 937	...	26 029 850	744 014 776	39 555 586	3.99																								
32	Waikato	36 439	57.36	...	...	...	178 836 893	178 836 893	...	107 946 120	63 246 528	11 792 248	6.44																								
33	Waikato	9 443	37.26	...	...	...	47 361 932	47 361 932	...	13 686 748	13 224 559	2 276 455	8.08																								
34	Waikato	22 761	60.80	...	...	...	120 822 109	120 822 109	...	64 717 403	48 156 784	6 937 952	5.74																								
35	Waitemata	224 562	50.88	...	...	...	1 000 878 643	1 000 878 643	...	653 226 602	280 578 135	67 174 346	6.71																								
36	Waitemata	24 967	55.75	...	...	...	121 941 019	121 941 019	...	54 057 654	56 901 102	10 982 263	9.01																								
37	Waitemata	64 684	64.17	...	...	...	339 408 462	339 408 462	...	167 846 775	149 830 460	23 243 827	6.82																								
38	West Coast	22 450	57.32	...	...	...	52 544 957	52 544 957	...	42 453 162	58 266 941	11 833 668	10.51																								
				358 007 155		371 550	12 733 194 308	13 071 572 993	639 327 026	5 688 217 821	6 103 286 187	640 741 959	5.15	5 074																							



TABLE VI (PART I)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Domestic						Commercial						Farming							
		Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer	Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer	Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer	Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer
1	New Zealand Electricity <sup>1</sup>	202 621 202	7,710,266	3,805	24 806	8 168	65 169 542	4,054,328	6,191	3 841	16 967	9 040 454	464,824	5,142	3 372	2 681	9 040 454	464,824	5,142	3 372	2 681
Governments Department																					
1	Southland <sup>2</sup>	185 527 346	7,539,637	4,064	23 105	8 030	56 458 995	3,667,315	6,496	3 745	15 076	9 040 454	464,824	5,142	3 372	2 681	9 040 454	464,824	5,142	3 372	2 681
Power Boards and Related Authorities:																					
1	Ashburton	75 117 703	3,130,914	4,168	9 518	7 892	19 205 255	1,345,198	7,004	1 540	12 471	18 780 240	768,936	4,094	1 940	9 681	18 780 240	768,936	4,094	1 940	9 681
2	Auckland	1 180 689 087	41,432,417	3,509	175 736	6 719	862 372 630	44,223,885	5,128	24 136	35 730	5 229 190	330,591	6,322	1 774	6 756	5 229 190	330,591	6,322	1 774	6 756
3	Bay of Islands	83 389 148	3,385,792	4,060	12 810	6 510	28 392 200	2,061,477	7,261	2 037	13 938	9 892 600	439,138	6,461	2 275	5 682	9 892 600	439,138	6,461	2 275	5 682
4	Bay of Plenty	79 258 188	3,670,634	4,631	11 071	7 159	30 745 289	1,462,163	7,048	1 355	15 310	14 627 688	1,052,922	7,198	1 196	6 430	14 627 688	1,052,922	7,198	1 196	6 430
5	Buller	15 108 031	602,643	3,989	3 040	4 970	6 243 907	471,294	7,548	496	12 589	1 143 490	67,869	5,935	1 143 490	67,869	5,935	1 143 490	67,869	5,935	1 143 490
6	Cambridge	32 355 470	1,293,756	3,999	4 399	7 355	7 245 338	547,671	7,559	678	10 686	5 345 166	360,288	6,740	781	6 844	5 345 166	360,288	6,740	781	6 844
7	Central Canterbury	112 592 607	4,506,556	3,915	16 036	7 178	56 342 834	2,680,520	4,758	1 855	30 373	33 050 303	1,515,930	9,911	962	2 587	33 050 303	1,515,930	9,911	962	2 587
8	Central Hawke's Bay	43 219 160	1,707,399	3,918	4 984	8 743	7 077 370	505,681	6,561	650	11 857	2 488 580	1,647,972	6,421	3 585	7 159	2 488 580	1,647,972	6,421	3 585	7 159
9	Central Waikato	219 293 273	10,319,387	4,840	34 000	6 271	63 393 880	4,061,155	6,406	2 495	25 408	25 666 977	1,647,972	7,227	942	4 848	25 666 977	1,647,972	7,227	942	4 848
10	Dannevirke	34 737 822	1,350,667	3,888	4 357	7 973	7 340 511	497,649	6,779	663	11 072	4 566 443	330,031	7,227	942	4 848	4 566 443	330,031	7,227	942	4 848
11	Egmont	64 964 270	2,292,811	3,529	8 363	7 768	11 714 309	845,191	7,215	1 296	9 039	20 621 929	1,134,992	5,504	1 964	10 500	20 621 929	1,134,992	5,504	1 964	10 500
12	Franklin	102 093 607	4,018,338	3,938	14 564	7 006	16 295 255	5,911	1 309	16 093	24 230 540	1,419,074	6,466	2 221	3 759	24 230 540	1,419,074	6,466	2 221	3 759	
13	Hawke's Bay	258 039 951	9,067,913	3,509	33 708	7 667	68 219 647	4,527,264	6,569	3 483	19 787	8 348 990	642,386	7,694	2 241	8 044	8 348 990	642,386	7,694	2 241	8 044
14	Horowhenua	119 827 566	6,438,207	5,827	33 963	5 827	39 650 513	3,129,664	7,896	2 186	18 132	9 962 653	657,447	7,714	1 184	5 925	9 962 653	657,447	7,714	1 184	5 925
15	Hutt Valley	323 814 786	18,879,913	3,604	67 498	7 760	152 663 915	11,120,871	7,285	6 066	25 167	1 050 255	84,999	7,714	1 184	5 925	1 050 255	84,999	7,714	1 184	5 925
16	King Country	45 314 231	1,299,045	2,867	6 301	7 192	19 558 948	910,366	4,634	981	19 938	1 669 734	107,960	6,466	819	2 039	1 669 734	107,960	6,466	819	2 039
17	Manawatu-Oroua	119 690 853	4,264,597	3,563	16 178	7 398	41 394 799	2,631,499	6,357	1 446	18 583	10 677 429	719,717	6,741	2 953	3 616	10 677 429	719,717	6,741	2 953	3 616
18	Marlborough	82 637 310	3,164,813	3,830	11 640	7 099	27 995 252	2,070,470	6,620	1 683	18 583	5 057 998	390,147	5,721	1 200	4 215	5 057 998	390,147	5,721	1 200	4 215
19	North Auckland	119 827 566	5,017,443	4,194	19 163	6 242	39 650 513	1,993,170	7,006	2 015	12 703	23 146 343	1,324,199	5,721	3 179	7 281	23 146 343	1,324,199	5,721	3 179	7 281
20	North Canterbury	84 403 430	3,781,483	4,480	12 011	7 027	22 280 179	1,513,999	6,795	1 694	13 152	12 215 583	880,235	7,206	2 086	5 856	12 215 583	880,235	7,206	2 086	5 856
21	Otago	84 470 223	3,700,402	4,381	10 562	7 998	23 018 476	1,362,135	5,918	1 648	13 968	5 198 274	257,527	4,954	2 045	2 542	5 198 274	257,527	4,954	2 045	2 542
22	Poverty Bay	76 948 465	2,514,580	3,268	9 156	8 404	38 498 941	1,756,940	4,564	1 346	28 602	6 125 678	254,511	4,155	797	7 686	6 125 678	254,511	4,155	797	7 686
23	Rotorua	108 977 002	4,574,326	4,197	15 518	7 024	27 995 252	2,275,501	8,128	2 308	12 130	2 640 943	300,814	11,392	2 401	1 100	2 640 943	300,814	11,392	2 401	1 100
24	South Canterbury	124 360 900	4,684,519	3,761	18 524	6 724	54 761 804	3,650,402	6,666	2 513	17 753	8 715 816	586,841	6,733	1 269	6 868	8 715 816	586,841	6,733	1 269	6 868
25	Tairāwhiti	123 531 806	4,865,799	3,939	15 482	7 979	13 810 630	1,699,504	8,038	1 191	15 379	6 060 780	384,318	6,341	945	6 414	6 060 780	384,318	6,341	945	6 414
26	Tairāwhiti	72 927 646	2,458,319	3,370	9 291	7 852	12 134 100	767,714	6,327	1 245	9 746	17 990 559	1,019,762	5,668	2 328	7 728	17 990 559	1,019,762	5,668	2 328	7 728
27	Tairāwhiti	22 254 094	939,394	4,002	3 105	7 560	3 590 850	255,701	7,304	630	7 545	3 696 117	251,671	6,809	982	3 764	3 696 117	251,671	6,809	982	3 764
28	Tairāwhiti	127 379 140	4,723,144	3,708	17 357	7 339	34 552 815	2,648,903	6,830	2 463	15 379	13 922 267	872,632	6,269	3 061	4 548	13 922 267	872,632	6,269	3 061	4 548
29	Tairāwhiti	169 309 285	6,846,516	4,042	25 667	6 600	38 765 631	2,648,903	6,830	2 463	15 379	15 183 469	830,645	5,471	2 180	6 965	15 183 469	830,645	5,471	2 180	6 965
30	Tairāwhiti	52 729 860	1,960,975	3,719	6 820	7 732	13 810 630	818,616	5,927	898	11 435	52 887 934	3,087,361	5,838	5 382	9 827	52 887 934	3,087,361	5,838	5 382	9 827
31	Tairāwhiti	206 927 725	8,662,178	4,190	34 064	6 070	52 703 845	3,505,096	6,651	4 609	11 435	52 887 934	3,087,361	5,838	5 382	9 827	52 887 934	3,087,361	5,838	5 382	9 827
32	Tairāwhiti	100 926 120	4,730,598	4,401	13 393	8 060	27 678 184	1,772,285	6,403	9 192	15 646	9 203 390	617,209	6,652	1 553	5 250	9 203 390	617,209	6,652	1 553	5 250
33	Tairāwhiti	131 686 746	5,869,977	4,289	2 164	6 325	18 817 348	1,330,848	7,200	2 94	6 181	9 937 796	86,202	6,534	925	4 411	9 937 796	86,202	6,534	925	4 411
34	Tairāwhiti	131 686 746	5,869,977	4,289	2 164	6 325	18 817 348	1,330,848	7,200	2 94	6 181	9 937 796	86,202	6,534	925	4 411	9 937 796	86,202	6,534	925	4 411
35	Tairāwhiti	653 226 602	27,882,984	4,269	104 920	6 226	132 732 957	10,242,647	7,716	9 632	13 782	12 040 764	1,047,719	8,701	2 894	4 161	12 040 764	1,047,719	8,701	2 894	4 161
36	Tairāwhiti	54 067 654	2,101,251	6,922	6 922	7 810	13 041 580	988,400	7,579	1 115	11 696	9 278 602	608,081	6,554	2 328	3 986	9 278 602	608,081	6,554	2 328	3 986
37	Tairāwhiti	167 846 775	6,593,921	3,929	24 378	6 885	15 774 230	3,658,936	5,829	3 368	18 638	6 332 800	490,195	5,902	518	8 908	6 332 800	490,195	5,902	518	8 908
38	Tairāwhiti	42 455 162	2,093,139	4,930	8 307	5 111	26 850 517	2,120,502	7,350	1 579	18 271	4 614 094	272,339	5,902	518	8 908	4 614 094	272,339	5,902	518	8 908
West Coast		5 688 217 821	222,050,463	3,904	823 460	6 908	2 110 526 224	128,790,381	6,102	97 733	21 595	427 231 378	26,194,406	6,131	71 354	5 987	427 231 378	26,194,406	6,131	71 354	5 987

TABLE VI (PART I)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Domestic										Commercial										Farming									
		Electricity Consumed		Income		Consumers		Average kWh per Consumer		Electricity Consumed		Income		Consumers		Average kWh per Consumer		Electricity Consumed		Income		Consumers		Average kWh per Consumer							
		kWh	\$	c	Number	kWh	kWh	Number	kWh	per Consumer	kWh	\$	c	Number	kWh	per Consumer	kWh	\$	c	Number	kWh	per Consumer	kWh	\$	c	Number	kWh	per Consumer			
1	Bluff	5 913 483	247 265	4.181	918	6.442	4 917 763	293 502	5.968	198	24 857	4 137	149 119	6.179	132	18 281	2 413	150 922	6.365	530	4 474	...	...	...	...	...	...				
2	Christchurch	713 631 823	24 552 068	3.440	90 464	7.886	232 304 450	17 104 022	7.363	8 829	20 312	2 371 183	150 922	6.365	530	4 474	...	...	...	...	...	...	...	...	...	...	...				
3	Dunedin	359 214 021	12 263 512	3.414	40 906	8.781	131 866 094	7 953 241	6.031	5 250	23 117	18 641	46 036	3.589	38	33 752	...	...	...	...	...	...	...	...	...	...					
4	Hamilton	44 690 467	2 113 375	4.729	9 276	4.818	47 327 681	3 581 967	7.568	2 844	63 700	1 282 580	46 036	3.589	38	33 752	...	...	...	...	...	...	...	...	...	...					
5	Heathcote	20 427 417	729 999	3.574	2 146	9.519	6 044 433	394 677	6.530	92	63 700	1 282 580	46 036	3.589	38	33 752	...	...	...	...	...	...	...	...	...	...					
6	Invercargill	111 592 835	4 079 623	3.656	13 685	8.154	53 495 355	3 178 692	5.942	1 748	30 684	10 330	670	6.486	5	2 066	...	...	...	...	...	...	...	...	...	...					
7	Kaipoi	11 639 860	476 544	4.094	1 356	7.181	2 652 420	179 015	6.749	131	20 297	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
8	Lytelton	7 761 570	296 551	3.821	1 145	6.779	3 780 441	265 984	7.036	198	19 062	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
9	Napier	27 854 160	1 125 863	4.042	4 370	6.374	23 961 832	1 778 748	7.423	1 105	21 685	343 425	18 536	5.397	35	9 812	...	...	...	...	...	...	...	...	...	...					
10	Nelson	45 414 583	1 372 882	3.023	5 727	7.930	22 762 881	1 639 313	7.202	1 126	20 216	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
11	New Plymouth	118 016 795	4 076 703	3.454	17 782	6.637	34 850 338	2 536 471	7.278	2 068	16 852	12 513 846	831 744	6.647	1 144	10 939	...	...	...	...	...	...	...	...	...	...					
12	Palmerston North	100 099 579	3 394 665	3.391	14 757	6.783	48 713 205	3 427 871	7.037	2 457	19 826	120 750	8 832	7.314	9	13 417	...	...	...	...	...	...	...	...	...	...					
13	Riccarton	20 848 557	670 097	3.214	2 832	7.142	13 028 461	987 336	7.578	362	26 645	27 514	2 664	9.682	19	1 448	...	...	...	...	...	...	...	...	...	...					
14	Taumarunui	9 945 045	306 430	3.081	1 279	7.176	6 160 885	382 132	6.203	987	22 086	1 215 201	103 878	8.548	340	3 574	...	...	...	...	...	...	...	...	...	...					
15	Taupo	43 579 132	1 612 418	3.700	6 548	6.655	21 779 277	1 419 746	6.519	987	22 086	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
16	Tauranga	15 379 600	397 344	2.584	2 385	6.448	20 310 318	1 122 591	5.527	1 248	16 274	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
17	Thames-Coromandel	13 649 180	550 442	4.033	2 303	6.927	5 430 015	395 629	7.286	460	11 804	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
18	Timaru	54 129 501	1 896 693	3.504	7 153	7.867	28 355 631	1 720 271	6.067	1 307	21 695	42 120	3 986	9.463	18	2 340	...	...	...	...	...	...	...	...	...	...					
19	Wairoa	12 108 280	480 043	3.965	1 677	7.220	4 747 040	347 701	7.525	253	18 763	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
20	Wellington	350 658 990	10 642 433	3.035	47 557	7.377	270 262 500	17 979 573	6.653	8 056	33 548	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
21	Whakatane	21 130 068	817 701	3.870	2 989	7.069	9 364 011	665 933	7.112	984	16 034	24 129	2 234	9.259	6	4 022	...	...	...	...	...	...	...	...	...	...					
22	Whangarei	36 431 441	1 509 816	4.144	6 039	6.033	24 948 925	2 006 497	8.042	1 277	19 537	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
GRAND-TOTALS		2 144 116 387	73 612 467	3.433	283 474	7.564	1 017 063 956	69 360 912	6.820	41 069	24 765	20 364 215	1 318 621	6.475	2 276	8 947	456 636 047	27 977 851	6.127	77 002	7 002	5 930	...	...	...	...					

(for notes see page 25)

TABLE VI (PART II)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Industrial					Non-domestic					Total Retail Sales					Average kWh per Consumer	No.
		kWh	Income \$	Con- sumers	Average kWh per Consumer	Electricity Consumed	Income \$	Income per kWh Sold	Con- sumers	Average kWh per Consumer	Electricity Consumed	Income \$	Income per kWh Sold	Con- sumers	Average kWh per Consumer			
1	New Zealand Electricity	3 743 701 894	57,993,806	1,549	18 351 480	3 834 488 900	63,384,972	1,653	569 161	4 037 110 102	71,095,238	1,761	32 337	124 845	1			
1	Government Department	92 622 544	5,049,938	197	470 165	159 567 343	9,259,978	5,803	21 488	345 094 689	16,799,615	4,868	30 531	11 303	1			
1	Southland	12 820 860	747,224	5,628	674 782	52 071 902	2,964,744	5,694	14 873	127 189 605	6,095,658	4,793	13 019	9 770	1			
2	Ashburton	638 329 520	23,728,593	1 321	483 595	1 538 387 280	69,543,260	4,521	36 251	2 719 076 367	110,975,670	4,081	201 987	13 462	2			
3	Auckland	33 456 466	1,634,377	4,885	796 583	72 699 256	4,366,617	6,009	3 843	156 088 696	7,747,600	4,984	16 651	9 373	3			
4	Bay of Islands	264 575 873	7,835,126	2,861	3 779 655	300 514 659	10,371,895	3,451	3 720	579 770 847	19,543,529	3,688	14 791	25 676	4			
5	Bay of Plenty	35 965 772	1,107,164	3,078	599 430	43 621 355	1,654,981	3,794	57 853	58 729 386	2,257,624	3,844	3 794	15 480	5			
6	Buller	13 283 392	692,356	5,212	295 186	26 241 921	1,615,564	6,149	17 402	58 597 391	2,907,320	4,962	5 907	9 920	6			
7	Cambridge	104 955 160	5,660,782	5,394	274 034	195 730 171	9,898,774	5,057	5 020	310 533 778	14,405,530	4,634	21 056	14 762	7			
8	Central Canterbury	2 560 443	193,697	7,565	52 254	13 196 393	7,375	1 663	56 771 533	2,680,680	4,721	46 647	8 541	8				
9	Central Hawke's Bay	67 597 621	3,601,324	5,328	317 360	158 321 748	9,371,985	5,920	6 304	371 525 021	19,691,572	5,320	40 304	9 218	9			
10	Central Waikato	5 957 355	372,358	6,250	152 753	18 154 224	1,213,229	6,683	1 650	52 892 046	2,563,896	4,847	6 007	8 605	10			
11	Dannevirke	43 392 166	1,993,008	4,593	602 669	76 393 980	3,996,272	5,231	3 338	141 358 250	6,289,083	4,449	11 701	12 081	11			
12	Egmont	20 183 770	1,085,720	5,379	106 230	66 450 480	3,793,486	5,709	11 555	168 489 090	7,811,844	4,636	30 315	8 294	12			
13	Franklin	414 395 671	13,779,225	3,325	1 748 505	495 980 176	19,113,959	3,854	5 955	754 410 127	28,181,872	3,726	30 463	19 012	13			
14	Hawke's Bay	19 298 967	1,347,952	6,985	128 578	71 173 627	5,255,135	7,384	3 568	210 881 193	11,693,542	5,577	27 531	7 657	14			
15	Havelock Bay	174 604 523	11,217,934	5,425	330 690	335 295 612	22,634,091	6,751	4 685	859 108 398	41,513,104	4,832	74 385	11 549	15			
16	Hutt Valley	143 894 220	3,627,504	2,521	3 597 355	165 460 096	4,657,777	2,815	1 863	210 774 327	5,955,622	2,826	8 164	25 818	16			
17	King Country	69 077 388	3,941,202	5,705	300 356	122 056 058	7,384,551	6,050	4 714	241 746 911	11,654,148	4,819	20 892	11 571	17			
18	Manawatu-Oroua	11 977 863	702,760	5,892	119 279	49 200 935	3,097,697	6,296	2 989	131 638 356	6,286,310	4,765	14 626	9 012	18			
19	Marlborough	103 156 872	3,723,222	3,609	897 016	152 922 391	6,881,900	4,500	5 383	272 544 610	11,859,245	4,266	24 546	11 103	19			
20	North Auckland	36 410 010	1,505,183	4,134	596 885	72 101 791	3,991,046	5,535	3 857	156 507 221	7,775,529	4,966	15 868	9 863	20			
21	North Canterbury	22 493 425	1,411,441	6,275	1 022 428	51 557 573	3,083,169	5,980	3 736	136 027 796	6,783,572	4,987	14 298	9 514	21			
22	Otago	5 256 468	163,438	5,019	112 292	48 828 027	2,213,554	4,533	2 799	125 776 490	4,728,744	3,759	11 354	11 078	22			
23	Otago Central	38 116 093	2,045,406	5,366	409 850	69 225 983	4,688,063	6,772	4 823	178 222 985	9,282,389	5,107	20 341	8 762	23			
24	Powder Bay	28 152 056	1,491,510	5,298	227 033	93 784 638	5,813,406	6,199	3 913	218 344 638	10,497,925	4,808	22 437	9 731	24			
25	Rotorua	49 726 145	2,577,512	5,183	1 714 695	78 322 636	4,723,464	6,031	2 176	301 834 442	9,589,265	4,751	17 658	11 431	25			
26	South Canterbury	44 381 640	2,225,098	5,014	306 080	75 547 447	4,055,329	5,368	3 725	148 500 093	6,513,648	4,386	13 016	11 409	26			
27	Taranaki	7 397 648	576,618	7,795	224 171	14 853 421	1,097,755	7,391	1 482	38 327 315	2,037,749	5,311	4 587	8 356	27			
28	Tasman	61 557 546	3,280,233	5,329	93 269	97 857 296	6,121,558	6,256	5 039	225 236 436	10,937,402	4,815	22 386	10 057	28			
29	Tauranga	40 420 519	1,925,950	4,765	342 547	94 513 667	5,500,903	5,820	3 669	363 912 952	12,347,419	4,679	31 377	8 424	29			
30	Te Awamutu	8 921 590	446,200	5,001	217 600	38 494 189	2,116,142	5,497	3 131	91 224 049	4,077,117	4,469	9 951	9 167	30			
31	Thames Valley	636 136 127	18,486,201	2,906	2 330 169	744 014 776	25,310,969	3,402	10 279	950 772 501	33,973,157	3,573	44 343	21 441	31			
32	Waikato	25 433 007	1,429,414	5,620	135 282	63 346 525	3,861,023	6,095	3 748	171 392 645	8,911,621	3,077	17 141	9 993	32			
33	Waikato	9 379 450	454,722	4,848	20 468 973	12 224 559	677,646	5,543	966	25 921 365	1,284,625	4,981	3 130	8 278	33			
34	Waikato	24 219 363	1,219,274	5,373	278 383	49 166 754	3,042,031	6,187	3 070	113 884 157	5,329,259	5,655	10 560	10 784	34			
35	Waikato	129 072 142	8,163,668	6,325	1 174 445	280 578 135	19,732,274	7,033	13 770	933 804 737	47,615,258	5,059	118 690	7 868	35			
36	Waitemata	33 747 530	1,595,511	4,728	581 854	56 901 102	3,218,159	5,656	3 516	110 958 756	5,319,410	4,794	30 586	10 630	36			
37	Waitemata-Rangitikei	77 754 819	3,396,031	4,368	551 453	149 830 460	7,659,358	5,112	6 208	317 677 235	14,233,279	4,467	30 866	10 386	37			
38	West Coast	23 537 650	1,896,526	8,061	152 777	58 266 941	4,398,136	7,548	2 265	100 722 103	6,491,275	6,445	10 572	9 527	38			
		3 480 037 130	141,363,461	4,062	479 608	6 103 286 187	300,093,183	4,917	177 224	11 791 504 008	522,143,646	4,428	1 000 684	11 785				





TABLE VI (PART III)—SUMMARY OF END USE OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1981

	Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer
	kWh	\$	c	Number	kWh
Domestic	8 034 955 410	303,373,196	3.776	1 131 740	7 100
Commercial	3 192 759 722 <sup>1</sup>	202,185,621	6.333	142 643	22 383
Public Lighting	122 970 900	5,256,916	4.275	1 416	86 844
Farming	456 636 047	27,977,851	6.127	77 002	5 930
Railway Traction	24 559 683	1,333,244	5.429	6	4 093 280
Urban Traction	5 190 113	237,933	4.584	3	1 730 038
Coal Mining	25 352 576	1,460,024	5.759	73	347 296
Other mining industries	118 936 174	5,775 717	4.856	401	296 599
Iron and steel basic; Non-ferrous metals	2 931 612 701	35,283,686	1.204	122	24 029 612
Manufacture of mechanical and electrical equipment	325 093 978	19,077 972	5.868	1 936	167 920
Manufacture of chemicals and chemical products	195 298 475	8,960,710	4.588	342	571 048
Manufacture of glass, pottery, china and earthenware, and building materials	238 457 483	9,174,145	3.847	538	443 230
Food, beverage, and tobacco industries	1 154 435 802	56,391,362	4.885	2 231	517 452
Manufacture of textiles, leather and rubber products, and wearing apparel	234 941 722	12,901,721	5.491	1 083	216 936
Wood, paper, and pulp products	2 274 002 852	65,389,229	2.876	1 533	1 483 368
Other manufacturing industries not elsewhere classified	125 103 505	7,322,953	5.854	996	125 606
Construction works	79 968 989	2,995,068	3.745	1 110	72 044
<b>TOTAL RETAIL SALES</b>	<b>19 540 276 132<sup>1</sup></b>	<b>765,097,348</b>	<b>3.915</b>	<b>1 363 175</b>	<b>14 334</b>

<sup>1</sup>See note 3 page 25.

FIGURE 2: HISTORICAL END USE OF ELECTRICITY AND CONSUMPTION PER CONSUMER

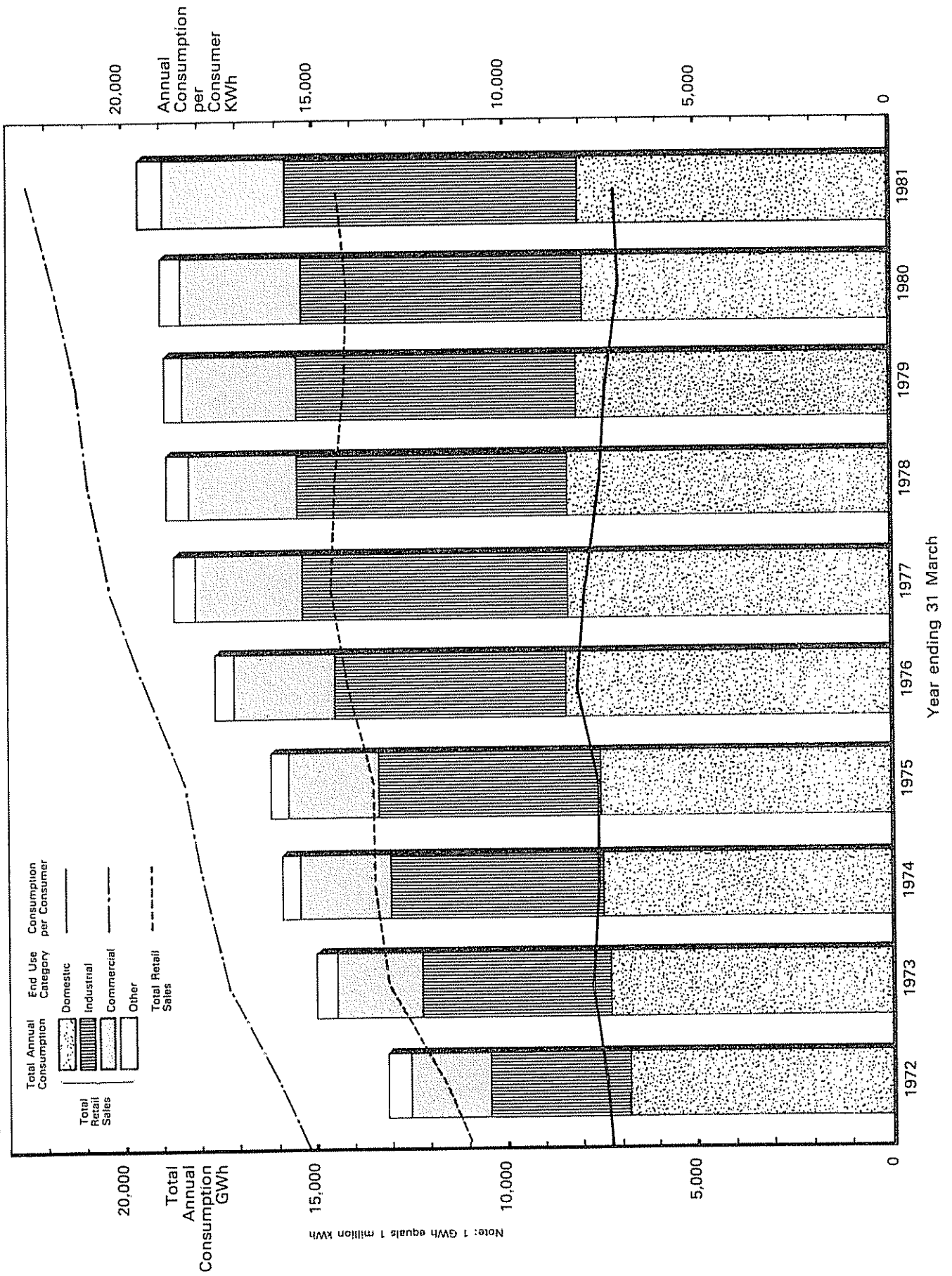


TABLE VII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Income from Sales of Electricity					Cost of Electricity			Cost of Operation and Maintenance		Other Supply Expenditure			Total Expenditure per kWh Sold	Loan Liability Percent of Depreciated Capital Expenditure	Surplus Percent of Gross Income	Loan Liability per Consumer	No.
		Per kWh Sold (Retail Sales)	Per kWh Sold (Domestic Supply) <sup>6</sup>	Per kWh Sold (Non-domestic Supply) <sup>6</sup>	Per Head of Population <sup>7</sup>	Per Retail Consumer	Per kWh Generated	Per kWh Purchased	Per kWh Sold (Total)	Per kWh Sold (Transmission and Distribution)	Per kWh Sold (Administration and General)	Per kWh Sold (Interest on Loans)	Per kWh Sold (Depreciation)	%					
1	New Zealand Electricity <sup>1</sup>	4,208	1,761	3,805	1,653	2,198.57	1,247	2,845	1,356	0.137	0.197	0.237	0.035	1,961	90.11	28.91	...	1	
	Government Department	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Southland <sup>2</sup>	4,208	4,868	4,064	5,803	550.25	...	...	...	...	...	...	...	...	...	...	...	...	
	Power Boards and Related Authorities:	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
1	Ashburton	4,793	4,793	4,168	5,694	468.21	...	2,729	2,922	0.446	0.367	0.159	0.347	4,364	33.39	8.97	221.95	1	
2	Auckland	4,081	4,081	3,509	4,521	549.42	...	2,936	3,031	0.288	0.392	0.203	0.168	3,882	25.26	7.71	124.76	2	
3	Bay of Islands	4,968	4,968	4,060	6,009	465.65	1,814	2,668	3,013	0.486	0.551	0.229	0.374	4,632	45.48	11.07	303.04	3	
4	Bay of Plenty	3,658	3,658	4,631	3,451	949.40	...	2,742	2,714	0.284	0.257	0.081	0.106	3,442	78.97	7.82	1,923.74	4	
5	Buller	3,844	3,844	3,989	3,794	595.05	...	2,492	2,647	0.305	0.360	0.091	0.180	3,583	31.89	8.84	182.80	5	
6	Cambridge	4,962	4,962	3,999	6,149	492.18	...	2,851	3,196	0.303	0.297	0.018	0.201	4,107	4.01	19.19	18.78	6	
7	Central Canterbury	4,632	4,632	4,634	5,057	684.14	...	2,672	3,040	0.471	0.381	0.054	0.230	4,185	11.37	11.72	87.60	7	
8	Central Hawke's Bay	5,300	5,300	3,918	7,375	205.86	...	2,874	3,181	0.300	0.417	0.174	0.304	4,525	25.66	5.70	189.22	8	
9	Central Waikato	5,300	5,300	4,840	5,920	488.57	...	2,928	3,156	0.448	0.574	0.440	0.283	4,614	37.23	13.86	188.22	9	
10	Dannevirke	4,847	4,847	3,858	6,683	426.82	...	2,789	3,065	0.346	0.503	0.116	0.324	4,390	15.90	9.79	96.21	10	
11	Egmont	4,449	4,449	3,529	5,231	537.48	0.979	2,704	3,831	0.538	0.689	0.021	0.210	4,262	52.69	5.44	768.95	11	
12	Franklin	4,636	4,636	3,938	5,709	190.62	...	2,801	3,118	0.495	0.633	0.352	0.248	4,492	23.53	4.76	145.56	12	
13	Hawke's Bay	3,685	3,685	3,509	3,854	710.53	...	2,740	2,874	0.172	0.233	0.065	0.139	3,447	25.25	8.50	212.38	13	
14	Horowhenua	5,547	5,547	4,611	7,384	424.73	...	3,010	3,285	0.708	0.890	0.255	0.346	5,197	40.70	8.40	308.42	14	
15	Hutt Valley	4,832	4,832	3,604	6,751	558.08	...	3,137	3,268	0.537	0.694	0.137	0.178	4,705	33.13	5.78	171.77	15	
16	King Country	2,882	2,882	2,867	2,815	338.26	0.574	2,523	2,321	0.169	0.244	0.020	0.089	2,807	52.77	4.90	176.43	16	
17	Manawatu-Oroua	4,088	4,088	3,563	6,050	245.77	...	2,520	3,005	0.308	0.442	0.200	0.172	3,763	16.48	8.48	103.15	17	
18	Marlborough	4,750	4,750	3,830	6,296	183.17	2.241	2,777	2,995	0.784	0.938	0.224	0.381	4,863	39.03	2.91	268.54	18	
19	North Auckland	4,128	4,128	4,194	4,500	484.78	...	2,615	2,763	0.198	0.383	0.339	0.127	3,846	30.64	8.95	308.42	19	
20	North Canterbury	4,781	4,781	4,480	5,535	489.82	...	2,857	3,094	0.493	0.639	0.417	0.271	4,606	46.40	4.62	300.93	20	
21	Otago	4,987	4,987	4,381	5,980	265.62	...	2,967	3,250	0.632	0.747	0.143	0.264	4,767	32.41	5.16	186.31	21	
22	Otago Central	3,742	3,742	3,259	4,533	416.43	0.571	3,191	3,165	0.415	0.467	0.179	0.257	3,671	52.85	2.39	481.10	22	
23	Poverty Bay	5,197	5,197	4,197	6,772	202.44	...	2,965	3,215	0.693	0.880	0.462	0.268	4,981	33.23	5.86	173.77	23	
24	Rotorua	4,808	4,808	3,761	6,199	467.88	...	2,894	3,146	0.477	0.607	0.089	0.153	4,460	62.16	10.01	400.20	24	
25	South Canterbury	4,150	4,150	3,939	6,031	543.05	...	2,867	2,955	0.332	0.426	0.070	0.204	3,989	21.10	6.79	151.68	25	
26	Taranaki	4,386	4,386	3,370	5,368	254.00	1.117	2,730	2,763	0.473	0.560	0.019	0.243	3,911	6.07	11.28	35.61	26	
27	Taranaki	5,315	5,315	4,002	7,391	257.12	...	2,835	3,157	0.486	0.685	0.571	0.384	5,020	27.35	6.09	101.05	27	
28	Tasman	4,261	4,261	3,708	6,256	219.41	7.210	2,827	2,928	0.223	0.298	0.098	0.205	3,854	34.66	9.65	174.09	28	
29	Tauranga	4,571	4,571	4,679	5,820	182.48	2.337	2,894	2,948	0.342	0.547	0.166	0.240	4,121	78.23	11.10	1,291.00	29	
30	Te Awaungatu	4,469	4,469	3,719	5,497	195.30	...	2,753	2,948	0.352	0.498	0.306	0.188	3,943	0.59	13.24	2.01	30	
31	Thames Valley	5,077	5,077	4,190	6,402	386.31	...	2,627	2,734	0.240	0.399	0.074	0.100	3,380	48.57	6.02	208.11	31	
32	Waikato	4,111	4,111	4,289	5,543	404.03	1.821	2,958	3,134	0.412	0.655	0.419	0.384	4,959	21.45	3.85	400.86	32	
33	Waikato	4,855	4,855	3,844	6,187	249.88	...	2,917	3,084	0.301	0.414	0.352	0.336	4,040	23.67	4.98	135.78	33	
34	Waikato	5,099	5,099	4,269	7,023	166.68	46.894	3,069	3,294	0.417	0.722	0.394	0.356	4,524	44.20	7.81	162.26	34	
35	Waikato	4,794	4,794	3,887	5,656	269.38	...	3,015	3,005	0.406	0.506	0.378	0.409	4,361	40.84	9.78	460.89	35	
36	Waikato	4,487	4,487	3,929	5,112	207.82	1.062	3,015	3,005	0.406	0.506	0.378	0.409	4,361	40.84	9.78	460.89	36	
37	Wairarapa-Rangitikei	6,436	6,436	4,930	7,548	255.26	2.684	3,058	3,194	0.833	1,174	0.597	0.370	5,599	75.37	14.81	1,278.84	37	
38	West Coast	4,358	4,358	3,904	4,917	224.70	1.718	2,881	2,997	0.361	0.479	0.294	0.203	4,085	41.03	8.35	252.36	38	

TABLE VII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Income from Sales of Electricity				Cost of Electricity			Cost of Operation and Maintenance			Other Supply Expenditure			Total Expenditure per kWh Sold	Loan Liability per Capital Expenditure	Surplus Percent of Gross Income	Loan Liability per Consumer	No.
		Per kWh Sold (Retail Sales)	Per kWh Sold (Domestic Supply) <sup>1</sup>	Per kWh Sold (Non-domestic Supply) <sup>2</sup>	Per Head of Population <sup>3</sup>	Per kWh Generated	Per kWh Purchased	Per kWh Sold	Per kWh (Transmission and Distribution)	Per kWh Sold (Total)	Per kWh Sold (Administration and General)	Per kWh Sold (Interest on Loans)	Per kWh Sold (Depreciation)	%					
1	Bluff	4.933	4.181	5.639	222.14	3.224	3.525	0.602	0.672	0.464	0.021	0.217	4.683	5.91	7.51	15.62	1		
2	Christchurch	4.558	3.440	6.585	208.55	3.255	3.397	0.243	0.375	0.269	0.030	0.182	4.288	13.61	6.71	44.24	2		
3	Dunedin	4.222	3.416	5.412	229.67	3.426	2.959	0.361	0.434	0.392	0.026	0.182	3.983	5.12	7.52	37.92	3		
4	Hamilton	6.132	4.739	7.146	269.82	3.432	3.680	0.661	0.853	0.807	...	...	5.341	26.56	14.33	...	4		
5	Heathcote	4.130	3.574	4.820	225.52	3.124	3.142	0.049	0.065	0.589	...	...	3.797	...	13.13	143.33	5		
6	Invercargill	4.452	3.656	5.984	204.49	3.118	3.297	0.359	0.454	0.241	0.076	0.182	4.068	28.40	9.09	114.46	6		
7	Kaipoi	4.811	4.094	6.304	180.00	3.160	3.300	0.044	0.531	0.640	0.088	0.018	4.576	23.15	6.79	91.68	7		
8	Lyttelton	5.187	3.921	7.108	251.84	3.076	3.218	0.532	0.592	0.855	...	...	4.664	1.25	10.47	3.70	8		
9	Napier	5.626	3.042	6.990	265.40	3.097	3.222	0.467	0.716	0.648	0.292	0.332	5.210	49.89	7.75	408.45	9		
10	Nelson	4.732	3.023	6.650	238.61	2.913	3.136	0.570	0.699	0.389	0.021	0.142	4.387	4.88	8.57	20.82	10		
11	New Plymouth	4.671	3.454	6.180	204.23	2.791	2.810	0.459	0.611	0.318	0.056	0.198	3.993	17.57	13.83	66.79	11		
12	Palmerston North	4.772	3.391	7.018	171.59	3.030	3.261	0.498	0.593	0.428	0.011	0.104	4.397	6.17	7.71	16.93	12		
13	Riccarton	4.873	3.314	6.634	304.96	3.345	3.538	0.440	0.455	0.469	...	...	4.462	21.62	8.58	93.11	13		
14	Taumarunui	4.374	3.681	6.135	185.82	3.805	3.010	0.921	0.964	0.213	0.096	0.011	4.293	13.82	10.65	83.36	14		
15	Taupo	4.589	3.700	5.283	265.70	3.025	2.880	0.236	0.316	0.754	0.241	0.246	4.437	68.28	4.54	825.83	15		
16	Tauranga	4.341	2.584	5.203	323.99	2.888	1.970	0.298	0.386	0.415	0.050	0.241	2.821	6.45	35.84	55.05	16		
17	Thames-Coromandel	4.834	3.035	5.803	196.62	3.323	3.455	0.359	0.517	0.370	0.089	0.089	4.431	...	8.52	...	17		
18	Timaru	4.564	3.303	5.665	272.86	2.947	3.094	0.184	0.380	0.342	0.054	0.139	4.009	14.15	10.66	64.70	18		
19	Waioira	4.983	3.045	7.220	161.12	3.071	3.342	0.579	0.652	0.481	0.044	0.174	4.693	15.23	8.28	49.67	19		
20	Wellington	4.660	3.035	6.412	269.86	3.147	3.314	0.373	0.564	0.355	0.057	0.092	4.382	18.36	7.14	95.29	20		
21	Whakatane	4.974	3.870	7.055	203.36	3.175	3.478	0.313	0.426	0.613	0.001	0.195	4.714	0.93	7.71	3.47	21		
22	Whangarei	5.777	4.144	7.519	225.96	3.248	3.391	0.501	0.570	0.907	...	0.050	4.918	...	15.03	...	...	22	
AVERAGES FOR NEW ZEALAND		4.626	4.630	6.268	225.03	3.072	3.225	0.349	0.481	0.380	0.046	0.150	4.281	16.63	8.54	78.29	...		
AVERAGES FOR NEW ZEALAND ...		...	...	...	242.34	1.505 <sup>4</sup>	1.435	0.434	0.535	0.460	0.320	0.193	2.943	77.72	26.87	...	...		

NOTES: <sup>1</sup>Includes Southland Electric Power Supply. <sup>2</sup>Shown separately but included with New Zealand Electricity. <sup>3</sup>Cost of electricity purchased from private plants. <sup>4</sup>See note 6, Table V. <sup>5</sup>Retail sales. <sup>6</sup>Also shown on Table VI. <sup>7</sup>Hutt Valley Energy Board, previously known as Hutt Valley Electric Power and Gas Board.

TABLE VIII—STATISTICS OF POPULATION,<sup>1</sup> TOTAL CONSUMERS,<sup>2</sup> ELECTRIC RANGES AND WATER HEATERS, STAFF EMPLOYED, FOR THE YEAR ENDED 31 MARCH 1981

No.	Supply Authorities	Population in Area of Supply	Total Number of Consumers <sup>1</sup>	Ratio of Total Number of Consumers to Population	Electric Ranges		Electric Water Heaters		Consumers Per Circuit Kilometre of Line	Staff Employed	No.
					Domestic	Number of Domestic Ranges per 100 Domestic Consumers	Domestic	Number of Domestic Water Heaters per 100 Domestic Consumers			
1	New Zealand Electricity <sup>2</sup>	...	32 337	...	22 968	...	22 663	...	...	6 270	1
1	Southland <sup>3</sup>	69 622	30 531	43.85	21 216	91.82	20 897	90.44	3.93	252	1
	<i>Power Boards and Related Authorities:</i>										
1	Ashburton	24 970	13 019	52.14	10 006	105.13	13 683	143.76	4.39	114	1
2	Auckland	498 626	201 987	40.51	150 831	85.83	150 642	85.72	28.58	958	2
3	Bay of Islands	42 692	16 653	39.01	11 774	91.91	11 661	91.03	4.11	125	3
4	Bay of Plenty	37 725	14 791	39.21	9 503	85.84	9 226	83.33	7.41	142	4
5	Buller	8 341	3 794	45.49	2 711	89.18	1 961	64.51	5.57	37	5
6	Cambridge	13 042	5 907	45.29	4 330	98.43	4 350	98.89	5.92	31	6
7	Central Canterbury	44 536	21 056	47.28	14 944	93.19	15 095	94.13	6.48	187	7
8	Central Hawke's Bay	13 022	6 647	51.04	5 473	109.81	5 523	110.81	3.14	37	8
9	Central Waikato	104 219	40 304	38.67	31 757	93.40	29 510	86.79	8.59	283	9
10	Dannevirke	12 135	6 007	49.50	4 308	98.88	4 308	98.88	5.93	48	10
11	Egmont	24 843	11 701	47.10	7 961	95.19	8 102	96.88	6.75	90	11
12	Franklin	40 982	20 315	49.57	14 078	96.66	13 478	92.54	7.43	112	12
13	Hawke's Bay	100 693	39 663	39.39	31 780	94.28	33 552	99.54	9.14	311	13
14	Horowhenua	55 920	27 531	51.06	20 982	87.56	22 601	94.32	16.88	185	14
15	Hutt Valley <sup>4</sup>	204 474	74 385	36.38	63 567	94.18	66 812	98.98	35.26	537	15
16	King Country	17 610	8 164	46.36	5 656	89.76	5 631	89.37	3.53	55	16
17	Manawatu-Oroua	47 398	20 892	44.08	15 367	94.99	14 997	92.70	8.32	143	17
18	Marlborough	34 189	14 629	42.79	11 271	96.83	12 034	103.38	5.92	131	18
19	North Auckland	51 489	24 546	47.67	18 983	99.06	18 412	96.08	5.51	192	19
20	North Canterbury	32 344	15 868	49.06	11 737	97.72	11 951	99.50	3.82	150	20
21	Otago	25 539	14 298	55.98	8 402	79.55	8 684	82.22	3.23	113	21
22	Otago Central	20 963	11 354	54.16	8 488	92.70	8 332	91.00	5.13	138	22
23	Poverty Bay	45 754	22 341	44.46	14 151	91.19	14 165	91.27	7.46	170	23
24	Rotorua	57 963	22 437	38.71	18 234	98.43	17 948	96.89	13.34	126	24
25	South Canterbury	40 220	17 658	43.90	13 122	84.76	12 521	80.87	5.44	168	25
26	Taranaki	27 836	13 016	46.76	9 740	104.83	9 089	97.83	5.37	98	26
27	Taranua	7 923	4 587	57.89	3 072	98.94	2 991	96.33	3.34	40	27
28	Tasman	49 426	22 396	45.31	18 836	108.52	19 970	115.05	7.28	187	28
29	Tauranga	67 666	31 327	46.30	24 127	94.00	23 963	93.36	9.25	225	29
30	Te Awamutu	20 876	9 951	47.67	6 282	92.11	6 601	96.79	8.17	38	30
31	Thames Valley	87 942	44 343	50.42	35 741	104.92	34 432	101.08	6.54	312	31
32	Waikato	37 034	17 141	46.28	13 262	99.02	13 344	99.63	5.90	155	32
33	Waikato	5 789	3 130	54.07	2 059	95.15	2 107	97.37	3.11	27	33
34	Waikato	22 129	10 560	47.72	8 733	102.86	8 715	102.65	5.91	103	34
35	Waitemata	285 667	118 690	41.55	94 909	90.46	100 676	95.96	14.05	545	35
36	Waitomo	19 747	10 438	52.86	6 394	92.37	6 465	93.40	3.71	90	36
37	Wanganui-Rangitikei	68 584	30 586	44.60	21 647	88.80	21 752	89.23	7.49	198	37
38	West Coast	25 430	10 572	41.57	5 451	65.62	4 392	52.87	6.16	147	38
		2 323 738	1 000 684	43.06	759 669	92.25	769 674	93.47	8.89	6 748	

TABLE VIII—STATISTICS OF POPULATION,<sup>2</sup> TOTAL CONSUMERS, ELECTRIC RANGES AND WATER HEATERS, STAFF EMPLOYED, FOR THE YEAR ENDED 31 MARCH 1981—continued

No.	Supply Authorities	Population in Area of Supply	Total Number of Consumers <sup>1</sup>	Ratio of Total Number of Consumers to Population	Electric Ranges		Electric Water Heaters		Consumers Per Circuit Kilometre of Line	Staff Employed	No.
					Domestic	Number of Domestic Ranges per 100 Domestic Consumers	Domestic	Number of Domestic Water Heater per 100 Domestic Consumers			
<i>Territorial Authorities</i>											
1	Bluff ...	2 711	1 130	41.68	622	67.76	516	56.21	30.47	12	1
2	Christchurch ...	242 163	100 294	41.42	87 035	96.21	91 897	101.58	35.14	565	2
3	Dunedin ...	110 873	47 087	42.47	34 085	83.33	38 530	94.19	26.34	356	3
4	Hamilton ...	24 281	12 249	50.45	7 083	76.36	8 109	87.42	44.07	97	4
5	Heathcote ...	6 752	2 279	33.75	2 109	98.28	2 117	98.65	28.82	15	5
6	Invercargill ...	39 237	15 545	39.62	10 461	76.44	10 915	79.76	37.88	82	6
7	Kaipoi ...	4 519	1 699	37.60	1 534	98.59	1 608	103.34	41.00	10	7
8	Lytelton ...	2 736	1 353	49.45	1 090	95.20	1 164	101.66	31.47	11	8
9	Napier ...	12 316	5 513	44.76	3 627	83.00	3 933	90.00	37.49	83	9
10	Nelson ...	17 037	7 205	42.23	4 712	82.28	6 103	106.57	43.17	61	10
11	New Plymouth ...	48 752	21 318	43.73	14 443	81.22	15 555	87.48	18.98	146	11
12	Palmerston North ...	43 510	17 385	39.96	12 411	84.10	13 593	92.11	49.83	96	12
13	Riccarton ...	6 498	3 351	51.57	2 889	102.01	3 126	110.38	53.25	31	13
14	Taumarunui ...	4 059	1 697	41.81	1 128	88.19	1 129	88.27	39.51	11	14
15	Taupo ...	17 182	7 943	46.23	6 247	95.40	6 730	102.78	9.80	62	15
16	Tauranga ...	5 827	3 746	64.29	2 286	95.85	2 379	99.75	25.49	39	16
17	Thames-Coromandel ...	6 128	2 794	45.59	2 283	99.13	2 380	103.34	24.06	15	17
18	Timaru ...	19 156	8 527	44.51	6 664	93.16	6 793	94.97	44.63	52	18
19	Wairoa ...	5 451	1 936	35.52	1 628	97.08	1 609	95.95	29.92	13	19
20	Wellington ...	116 751	56 054	48.01	27 996	58.89	42 260	88.90	36.71	319	20
21	Whakatane ...	9 713	3 596	37.02	3 088	103.31	3 154	105.52	55.11	16	21
22	Whangarei ...	18 048	7 453	41.30	6 125	101.42	6 030	99.85	49.05	31	22
<b>GRAND-TOTALS</b>		763 700	330 154	43.23	239 546	84.50	269 630	95.12	31.45	2 123	
		3 157 060 <sup>5</sup>	1 363 175	43.18	1 022 183	90.32	1 061 967	93.83	9.25	15 141	

Total population as at 31 March 1981 was 3 167 357.<sup>5</sup> Mean population as at 31 March 1981 was 3 134 700.<sup>5</sup> Ratio of population in area of supply to total population was 99.7 percent.

NOTES: <sup>1</sup>For detailed analysis see table VI.

<sup>2</sup>Includes Southland Electric Power Supply.

<sup>3</sup>Shown separately but included with New Zealand Electricity.

<sup>4</sup>Hutt Valley Energy Board, previously known as Hutt Valley Electric Power and Gas Board.

<sup>5</sup>Provisional.

TABLE IX—STATISTICS RELATING TO ELECTRICAL REGISTRATION BOARD, YEAR ENDING 31 MARCH 1981

(Figures shown in parenthesis are for previous year)

1. Number of board meetings: 12 (14)

	During the Year		Current Registration		Removed from Register
	Regular	3 Year	3 Year	Total	
2. Registrations <sup>1</sup>					
Inspectors ...	43	(24)	599	(556)	36 (31)
Electrical technicians ...	29	(35)	1 964	(2 101)	6 (16)
Electricians ...	11 700	(645)	11 700	(15 232)	22 (85)
Electrical mechanics ...	428	(52)	428	(725)	22 (30)
Radio—Electronics serviceman	3 231	(220)	3 231	(5 032)	4 (8)
Electrical appliance serviceman	43	...	43	...	...
Restricted Certificate	1 106	...	1 106	...	...
Provisional licences ...	135	(134)	1 723	...	...
Permits to assist ...	212	(277)	...	...	...
Application for ruling on experience as electrical technician	90	(107)	...	...	...
Application for ruling on experience—others	503	(441)	...	...	...

3. Applications for electrical technicians declined: 61.

4. Examinations—

Two examinations were held as follows:  
 Practical—3 May, 18 October.  
 Written—1 November, a.m. and p.m.

	Candidates	Number Passed	Passed Percentage	Highest Marks
Electricians and electrical fitters theory paper	901 (1 027)	641 (666)	71 (65)	94 (92)
Electricians and electrical fitters regulations papers	811 (943)	588 (748)	73 (79)	52/47 (52/47)
Electricians and electrical fitters, two practical papers	196 (211)	151 (151)	77 (72)	92 (92)
Radio—Electronics serviceman's theory paper	96 (134)	84 (117)	88 (87)	93 (98)
Radio—Electronics serviceman's wiring paper	197 (240)	183 (223)	93 (93)	98 (98)
Restricted certificate—written paper <sup>2</sup>	272 (286)	182 (208)	67 (73)	98 (98)
Radio—Electronics serviceman and restricted certificate—two practical papers	446 (491)	351 (407)	79 (83)	96 (97)
5. Breach of Act and defective work—				
Defective work reports	5 (4)			
Breach of Act	5 (5)			
Prosecutions authorised	4 (—)			
Prosecutions completed	2 (2)			
Demotions	1 (1)			

NOTES: <sup>1</sup>The Electrical Registration Act 1979 which became law on 1 January 1980 required all persons registered under the old Electricians Act 1952 (except Inspectors of Electrical Wiring) to formally request re-registration. The classes of Radio-Mechanic and Limited Registration were discontinued and two totally new classes introduced with the titles of Electrical Appliance Serviceman and Restricted Certificate. Most persons holding the discontinued classes of registration who have requested re-registration under the new act, have been issued with 3-year Provisional Licences, but the remainder have opted for Restricted Certificates. <sup>2</sup>Previously limited registration.



## Appendix 1

## GLOSSARY OF TERMS USED

This publication is divided into two sections:

*Section A*—relates solely to the operations of New Zealand Electricity (see below) and;

*Section B*—shows the years results of the operations of both New Zealand Electricity and the Electrical Supply Authorities (see below).

The following is a description of some of the terms used, supplementing the notes included at the foot of each table:

*New Zealand Electricity* is the Electricity Division of the Ministry of Energy. It is responsible for the bulk generation and transmission of electricity throughout New Zealand and the sale of electricity in bulk to the Electrical Supply Authorities. It also acts as a distribution authority in part of Southland province as the Southland Electric Power Supply, and supplies some major industrial organisations and a number of small commercial, industrial, and domestic consumers.

*Electrical Supply Authority* means one of those bodies which purchase electricity in bulk for distribution to its consumers. The supply authorities consist of two basic types:

Power Boards and Related Authorities being Electric Power Boards (generally constituted under the Electric Power Boards Act 1925), an Energy Board, and an Area Electricity Authority; and

Territorial Authorities being sections of Borough, City, County, or District Councils.

In addition to these organisations is a government department namely Southland Electric Power Supply (part of New Zealand Electricity). Information on this authority in these statistics is generally included in the New Zealand Electricity figures, however it is also shown separately in some tables.

*Power* is the rate at which electrical energy is produced or used and is measured in watts (W), or more conveniently kilowatts (kW) or megawatts (MW). It is usually recorded (and shown in these statistics) as the average over a period (typically a half-hour) rather than instantaneous values.

*Load* in the context of this publication, is the total power used or supplied to a defined block (e.g., New Zealand or a supply authority) integrated over a period (usually a half-hour). Thus the national maximum load is the maximum energy generated or consumed in any half-hour in the year.

*Energy* is work done. It is measured in the electrical industry in kilowatt-hours (kWh), sometimes still referred to as units, or for large quantities in gigawatt-hours (GWh). Therefore a device with a rating of 1000 watts or 1 kilowatt running for 1 hour would consume 1 kilowatt-hour of electricity. A similar device running for half an hour or 2 hours would use 0.5 kWh or 2 kWh respectively.

1000 watts = 1 kilowatt (kW)  
 1000 kilowatts = 1 megawatt (1 MW)  
 1000 watts (1 kW) for one hour = 1 kilowatt-hour (1 kWh)  
 1 000 000 kWh = 1 gigawatt-hour (1 GWh)

*Load Factor* is the ratio of average to maximum power usually expressed as a percentage.

*Installed Capacity* of a power station, in this publication, is the name-plate rating.

*Generation* is published as gross for hydro stations and nett for thermal stations throughout these statistics.

*Nett Thermal* excludes the electricity used to allow a thermal power station to run, e.g., that used for pumps, fans, crushers, excitation, lighting, and heating.

*Gross Hydro* is the total output of a hydro power station metered at the generator terminals.

*Internal Use* refers to the electricity used by power stations, substations, synchronous condensers, depots, etc.

*Line Losses* shown in Section A (table i) refers to the losses incurred by New Zealand Electricity in the transmission of electricity to its bulk and retail consumers.

*Purchased* refers to the electricity brought in bulk from New Zealand Electricity, a supply authority, or a Private Plant.

*Private Plants* refer to commercial and industrial organisations who generate for their own use. The amounts shown in this publication are the quantities of energy generated over and above the organisation's own requirements, and is fed into their supply authority's network.

*Bulk Sales* refers to the electricity sold to a supply authority for distribution to its consumers. New Zealand Electricity sells in bulk to most electrical supply authorities. Those not supplied in this way purchase their requirements from another supply authority. Small exchanges between neighbouring authorities are also included under this heading.

*Retail Sales* is the electricity sold by a supply authority (or New Zealand Electricity) to its consumers for the consumer's own end use—(Domestic, Industrial, etc., see Table VI (Parts I–III)). As the electrical supply industry only keep end use of electricity information in the categories shown in this table, it is not possible to provide similar information based on an alternate classification system such as NZSIC (New Zealand Standard Industrial Classification).

*Domestic* refers to each separately metered private dwelling, i.e., private houses. It excludes hotels, hostels, institutions, etc., which are included in Commercial but does include normally unoccupied private holiday homes, beach houses, etc.

*Non-domestic*—see Table VI (Part III). This refers to all uses listed except Domestic, i.e., all consumption, commercial to construction works inclusive.

*Farming* includes all types of farming, agriculture, horticulture, beekeeping, etc. It excludes separately metered farm houses which are included in domestic but includes houses where separate metering is not available and the farming activity is the dominant use.

*Industrial*—see Table VI (Part III). This refers to all consumption for mining, quarrying, smelting, manufacturing, and construction, i.e., coal mining to construction works inclusive.

*Circuit Kilometres of Line* refers to the circuit length of reticulation, distribution, and transmission lines and cables, i.e., if two or more lines share the same route, the circuit length is two or more times the actual length of the route.

## Appendix 2

## ANNUAL STATISTICS IN RELATION TO ELECTRIC POWER DEVELOPMENT AND OPERATION—YEAR ENDED 31 MARCH 1980

The following amendments are necessary:

Table IV Page 17—Statistics of Generating Plant, etc.  
Capacity of generating plant  
Hydro—shows 3 630 960; should read 3 762 960.  
Oil/Gas shows 604 000; should read 704 000.

Table V Page 20—Results of Generation, Distribution, and Consumption  
Annual Load Factor  
Southland E.P.S. shows 33.30; should read 52.73.

Table V Page 21—

Retail to consumers	Domestic	Non-domestic
Whangarei City Council ...	32 539 228	35 467 442
Subtotal ...	2 139 017 561	1 533 320 578
Grand-total ...	7 909 234 020	11 130 490 934

Table VI (Part I) Page 23—Analysis of Consumption of Electricity

	Electricity consumed kWh	Income \$	Income per kWh sold c	Average kWh per consumer kWh
<b>Domestic—</b>				
Whangarei City Council ...	32 539 228	1,185,935	as published	
Subtotal ...	2 139 017 561	62,724,805	as published	
GRAND TOTAL ...	7 909 234 020	272,245,388	as published	
<b>Commercial—</b>				
Whangarei City Council ...	27 677 837	1,916,770	as published	22 502
Subtotal ...	985 814 881	62,003,378	6 290	24 261
GRAND TOTAL ...	3 099 770 530	181,518,367	5 856	21 874
<b>Farming—</b>				
Whangarei City Council ...	22 637	1,486	6 564	3 773
Subtotal ...	18 471 038	1,138,684	as published	8 080
GRAND TOTAL ...	408 035 231	23,168,287	as published	5 385

Table VI (Part II) Page 25—Analysis of Consumption of Electricity

<b>Industrial—</b>				
Whangarei City Council ...	6 146 882	395,163	6 429	57 447
Subtotal ...	480 295 030	23,480,218	4 889	165 848
GRAND TOTAL ...	7 470 318 385	198,518,001	2 656	749 739
<b>Non-domestic—</b>				
Whangarei City Council ...	35 467 442	2,362,022	as published	26 389
Subtotal ...	1 533 320 578	88,315,101	as published	
GRAND TOTAL ...	11 130 490 934	409,205,705	as published	

**THIS PAGE REPLACES PAGE 26 OF THE 1980 EDITION**  
**TABLE VI (PART II)—SUMMARY OF END USE OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1980<sup>2</sup>**

	Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer
Domestic	7 909 234 020	272,245,388	3.442	1 116 512	7 084
Commercial	3 099 770 530	181,518,367	5.856	141 708	21 874
Public Lighting	122 186 383	4,516,208	3.696	1 360	89 843
Farming	408 035 231	23,168,287	5.678	75 777	5 385
Railway Traction	25 193 136	1,265,684	5.024	1 <sup>1</sup>	25 193 136
Urban Traction	4 987 269	219,158	4.394	3	1 662 423
Coal Mining	24 894 176	1,229,839	4.940	72	345 752
Other mining industries	120 618 173	5,260,442	4.361	391	308 486
Iron and steel basic; Non-ferrous metals	2 958 342 265	31,831,896	1.076	122	24 248 707
Manufacture of mechanical and electrical equipment	319 231 366	17,470,716	5.473	1 865	171 170
Manufacture of chemicals and chemical products	191 950 571	8,032,010	4.184	340	564 561
Manufacture of glass, pottery, china and earthenware, and building materials	225 944 038	7,877,670	3.487	511	442 161
Food, beverage, and tobacco industries	1 078 622 873	48,607,643	4.506	2 040	513 141
Manufacture of textiles, leather and rubber products, and wearing apparel	235 623 689	11,995,339	5.091	992	236 333
Wood, paper, and pulp products	2 105 436 213	56,503,696	2.684	1 437	1 432 270
Other manufacturing industries not elsewhere classified	136 144 231	7,070,562	5.193	891	152 799
Construction works	73 510 790	2,638,188	3.589	1 208	60 853
TOTAL RETAIL SALES	19 039 724 954	681,451,093	3.579	1 345 330 <sup>1</sup>	14 152

End use	Concession payment	Energy concession related to	Number of concession holders	
			kWh	Number
Farming	8,305	886 740	4	
Coal mining	58	2 040	1	
Iron and steel basic	392	18 330	1	
Manufacture of mechanical and electrical equipment	38,602	2 366 980	6	
Manufacture of chemicals and chemical products	7,937	340 740	1	
Manufacture of glass, pottery, china, earthenware and building materials	1,422	97 470	1	
Food, beverage and tobacco industries	22,583	2 070 460	9	
Wood, paper, and pulp products	33,542	2 675 320	4	
Other manufacturing industries not elsewhere classified	3,952	274 070	5	
TOTAL	116,793	8 732 150	32	

<sup>1</sup>Reduced by 2 as New Zealand Railways is treated as one consumer.

<sup>2</sup>During the year ended 31 March 1980 the following payments, by end-use category, were made under the South Island Industrial Concession Scheme.