

NEW ZEALAND

ANNUAL STATISTICS IN RELATION TO

ELECTRIC POWER DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1982

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

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Commercial Branch
Electricity Division
Ministry of Energy.

SECTION A—ELECTRICITY DIVISION, M.O.E. ONLY

(i) SUMMARY OF OPERATING RESULTS
FOR YEAR ENDED 31 MARCH 1982

Maximum load (kilowatts)	4 066 200	Revenue—	
Average load (kilowatts)	2 538 680	Per kWh output ¹	cents 2 6893
Annual load factor (percent)	62.43	Per kWh sold	2 9366
Electricity output (generated and purchased)	22 254 061 823	Working costs (including administration)—	
Electricity sold (in bulk and retail)	20 364 521 052	Per kWh output ¹	0.8011
Electricity unsold (internal use)	86 831 051	Per kWh sold	0.8748
Line losses (transmission and distribution)		Capital charges—	
	kWh	Per kWh output ¹	1.4723
	1 802 709 720	Per kWh sold	1.6078
	percent	Total costs—	
	8.10	Per kWh output ¹	2.2735
		Per kWh sold	2.4826

ELECTRICITY DIVISION, M.O.E. ONLY

(ii) SUMMARISED PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 31 MARCH 1982¹

	\$	\$	\$	\$
Working costs ²		189,373,116	Income—	
Capital charges—			Sales of energy ⁴	598,030,789
Interest ²	213,531,065		Rents and miscellaneous receipts ⁴	11,881,327
Depreciation including interest on Depreciation Account	42,463,001	255,994,066	Net increase in General Reserve Account	609,912,116
Profit and Loss Account total		445,367,182		104,346,985
Loan capital repayments		60,197,949		
Total costs (see table iv)		505,565,131		505,565,131

ELECTRICITY DIVISION, M.O.E. ONLY

(iii) SUMMARISED BALANCE SHEET AS AT 31 MARCH 1982¹

	\$	\$	\$	\$
Internal resources—			Completed works	1,918,874,996
Depreciation Account	446,639,232		Works under construction	1,349,359,834
General Reserve Account	587,175,507	1,033,814,739	Plant, motor vehicles, and tools	19,367,264
External Resources—			Stocks of materials	81,179,510
Loans	2,448,993,175		Capital outlay (see table v)	100,546,774
Trust Accounts	18,009	2,449,011,184	Sundry debtors, etc. less sundry creditors	3,368,781,604
			Cash	104,565,572
				9,478,747
		3,482,825,923		3,482,825,923

ELECTRICITY DIVISION, M.O.E. ONLY

(iv) ANALYSIS OF OPERATING COSTS FOR YEAR ENDED 31 MARCH 1982¹

	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	26,761,920	14,017,346	171,349,093	212,128,359	1.1266	
Thermal stations	58,657,765	15,535,106	84,957,099	169,149,970	4.9846	
Power purchased	342,946	6,859		349,805	2.2946	
Generated and purchased	95,762,631	29,559,311	256,306,192	381,628,134	1.7161	1.8740
Transmission lines	12,036,430	6,304,436	38,381,641	56,722,507	0.2551	0.2785
Substations	13,027,099	6,823,328	28,818,688	48,669,115	0.2189	0.2390
Communications	2,611,423	1,367,810	1,859,006	5,838,239	0.0263	0.0287
Retail distribution	2,141,990	2,197,614	2,049,415	6,389,019	0.0287	0.0314
System operation and testing	4,146,346	2,171,771		6,318,117	0.0284	0.0310
TOTALS: ...	129,725,919	48,424,270	327,414,942	505,565,131	2.2735	2.4826
Administration (ref. column b)	48,424,270					
		SUMMARY				
	178,150,189	Working costs		129,725,919	0.5834	0.6370
		Administration		48,424,270	0.2178	0.2378
		Capital Charges		327,414,942	1.4723	1.6078
		Total costs		505,565,131	2.2735	2.4826

¹Information published in this table differs from that published in the Electricity Division's section of the Ministry of Energy Annual Report. This is to maintain consistency between the Electricity Division and Supply Authority treatment of purchases and sales by the Electricity Division for both quantity (kWh) and value (\$). ²Does 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. ³Excludes output by Huntly Power Station during commissioning tests. ⁴Does not agree with Annual Report as described in note 1. also includes adjustments due to alternative treatment of Divisional houses, and income from sales relating to previous periods.

ELECTRICITY DIVISION, M.O.E. ONLY

(v) ANALYSIS OF CAPITAL OUTLAY AS AT 31 MARCH 1982

	Headworks	Station Buildings and Villages	Generating Plant and Machinery	Total	Grand Total
	<i>Completed Works</i>				
	\$	\$	\$	\$	\$
Hydro-electric stations					
Tongariro control incl. Tokaanu	159,421,288	5,119,314	5,739,118	170,279,720	
Lake Taupo control	427,742	...	...	427,742	
Aratiatia	10,532,179	2,919,294	2,750,407	16,201,880	
Ohakuri	13,989,386	3,166,412	4,496,152	21,651,950	
Atiamuri	13,689,738	3,031,930	4,578,781	21,300,449	
Whakamaru	14,219,940	3,342,100	6,309,392	23,871,432	
Maraetai	22,954,034	7,420,379	9,348,494	39,722,907	
Waipapa	10,024,699	2,820,261	2,947,799	15,792,759	
Arapuni	3,066,375	1,249,374	2,339,839	6,655,588	
Karapiro	5,235,204	1,310,281	2,152,367	8,697,852	
Matahina	24,191,036	3,200,507	2,763,366	30,154,909	
Lake Waikaremoana control	929,055	...	...	929,055	
Kaitawa	2,417,820	376,770	628,811	3,423,401	
Tuai	550,688	821,738	1,366,910	2,739,336	
Piripaua	1,513,134	216,396	425,419	2,154,949	
Mangahao	2,016,862	597,995	856,019	3,470,876	
Tekapo	55,645	6,436,627	923,127	7,415,399	
Tekapo 'B'	95,530,193	10,987,230	7,652,893	114,170,316	
Lake Pukaki control	71,615,035	...	...	71,615,035	
Benmore	38,994,175	9,869,619	7,708,991	56,572,785	
Aviemore	23,661,094	8,445,311	5,439,336	37,545,741	
Waitaki	3,667,566	3,259,944	2,594,173	9,521,683	
Lake Wakatipu control	1,384	5,494	...	6,878	
Lake Hawea control	4,907,141	7,800	...	4,914,941	
Roxburgh	33,969,036	5,300,458	9,303,872	48,573,366	
Cobb	8,323,899	918,567	815,645	10,058,111	
Arnold	246,738	47,213	56,532	350,483	
Lake Coleridge	3,858,088	576,803	727,218	5,162,109	
Highbank	1,268,795	303,007	358,764	1,930,566	
Lake Manapouri control	10,621,173	...	...	10,621,173	
Lake Te Anau control	10,948,281	...	...	10,948,281	
Manapouri	77,985,049	21,625,327	18,885,649	118,496,025	
Monowai	398,548	169,300	140,017	707,865	
Ohau 'A'	106,250,311	18,456,320	24,642,518	149,349,149	
Twizel control station	...	618,320	563,018	1,181,338	
Upper Waitaki control building	...	2,973,038	...	2,973,038	
	777,481,331	125,593,129	126,514,627	...	1,029,589,087
	<i>Fuel handling Equipment</i>				
Thermal stations—					
Marsden 'A'	966,945	16,692,959	13,083,556	30,743,460	
Marsden 'B'	4,081,324	27,250,691	84,569,423	115,901,438	
Otahuhu	757,217	7,778,094	19,288,083	27,823,394	
Meremere	5,720,481	10,963,384	22,248,586	38,932,451	
Wairakei	21,537,726	10,753,710	12,693,341	44,984,777	
New Plymouth	4,110,008	30,167,678	100,388,321	134,666,007	
Stratford	129,415	1,369,943	26,217,638	27,716,996	
Whirinaki	...	198,104	27,607,052	27,805,156	
	37,303,116	105,174,563	306,096,000	...	448,573,679
Transmission system—					
Line depot (not associated with Power Stations or Substations)	...	...	...	554,167	
33 kV a.c.	...	...	...	1,334,899	
50 kV a.c.	...	...	...	1,617,240	
66 kV a.c.	...	...	...	4,623,076	
110 kV a.c.	...	...	...	45,903,429	
220 kV a.c.	...	...	...	160,417,019	
500 kV d.c.	...	...	...	10,338,247	
500 kV d.c. (submarine cable)	...	...	...	5,836,535	
				...	230,624,612
Substations—					
11 kV	...	...	...	44,026	
33 kV	...	...	...	3,570,787	
50 kV	...	...	...	1,665,782	
66 kV	...	...	...	8,202,643	
110 kV	...	...	...	60,425,825	
220 kV	...	...	...	77,138,019	
500 kV (converter stations)	...	...	...	22,116,400	
				...	173,163,482
Communications system	...	...	...	...	11,170,250
Distribution system	...	...	...	...	12,314,366
Offices, stores, land, and buildings	...	...	...	...	13,439,520
Total completed works	...	...	...	...	1,918,874,996

ELECTRICITY DIVISION, M.O.E. ONLY

(v) ANALYSIS OF CAPITAL OUTLAY AS AT 31 MARCH 1982—*continued*

	Headworks	Station Buildings and Villages	Generating Plant and Machinery	Total	Grand Total
	<i>Works under construction</i>				
	\$	\$	\$	\$	\$
Hydro-electric stations—					
Tongariro scheme incl. Rangipo	267,656,801	736,853	18,917,085	287,310,739	
Upper Waitaki	118,185,286	29,799,123	56,437,927	204,422,336	
Clyde	58,294,497	28,462,700	...	86,757,197	
Other stations	337,188	574,700	323,229	1,235,117	
	<u>444,473,772</u>	<u>59,573,376</u>	<u>75,678,241</u>	...	<u>579,725,389</u>
	Fuel handling Equipment				
Thermal stations—					
Huntly	78,129,302	130,034,852	401,153,881	609,318,035	
Other stations	2,935,672	(4,934,259)	2,385,433	386,846	
	<u>81,064,974</u>	<u>125,100,593</u>	<u>403,539,314</u>	...	<u>609,704,881</u>
Transmission system—					
Line depot (not associated with Power Stations or Substations)	...	...	...	248,906	
33 kV a.c.	...	...	...	853,583	
50 kV a.c.	...	...	...	2,006	
66 kV a.c.	...	...	...	4,253,301	
110 kV a.c.	...	...	...	1,906,582	
220 kV a.c.	...	...	...	61,340,259	
500 kV d.c. (submarine cables)	...	...	...	153,560	
					<u>68,758,197</u>
Substations					
11 kV	...	...	...	2,646	
33 kV	...	...	...	1,386,089	
50 kV	...	...	...	10,700	
66 kV	...	...	...	4,555,375	
110 kV	...	...	...	10,059,547	
220 kV	...	...	...	21,618,040	
					<u>37,632,397</u>
Communications system	...	...	...	...	10,081,430
Distribution system	...	...	...	...	333,040
Offices, stores, land, and buildings	...	...	...	...	8,697,805
Surveys, and investigations of other schemes	...	...	...	...	34,426,695
					<u>1,349,359,834</u>
Plant, motor vehicles, and tools	...	...	...	...	19,367,264
Stocks of materials	...	...	...	...	81,179,510
					<u>3,368,781,604</u>
TOTAL CAPITAL OUTLAY					

SECTION B: COMBINED RESULTS OF THE ELECTRICITY DIVISION (M.O.E.) AND ELECTRICAL SUPPLY AUTHORITIES FOR THE YEAR ENDED 31 MARCH 1982

Condensed Statistics Detailed In Subsequent Tables

No			Hydro	Steam	Oil/Gas	Total	No
1	Generating stations	No.	70	4	8	82	1
2	Installed capacity	MW	3 993.8	1 140.0	692.8	5 826.6	2
3	Generation	GWh	19 538.8	3 106.8	317.0	22 962.7	3
4	Maximum load	MW				4 084.0	4
5	Retail sales of electricity	GWh				20 104.3	5
6	Consumers	No.				1 377 682	6
7	Population (mean) ¹	No.				3 162 100	7
8	Population (total) ¹	No.				3 190 100	8
9	Capital expenditure less depreciation	\$(m)				3,744.1	9
10	Income from retail sales of electricity	\$(m)			865.7		10
11	Other general income	\$(m)			32.3		11
12	Appliance sales and servicing income	\$(m)			37.8		12
13	Gross income	\$(m)				935.8	13
14	Cost of electricity purchased from non-supply industry sources	\$(m)		0.3			14
15	Generation expenditure	\$(m)		265.2			15
16	Total cost of electricity	\$(m)			265.5		16
17	Other supply expenditure	\$(m)			401.8		17
18	Appliance sales and servicing expenditure	\$(m)			36.1		18
19	Gross expenditure	\$(m)				703.4	19
20	Net results surplus	\$(m)				232.4	20
21	Income from retail sales of electricity per kWh sold retail	c				4 306	21
22	Gross income per kWh sold retail	c				4 655	22
23	Total cost of electricity per kWh sold retail	c				1 321	23
24	Gross expenditure per kWh sold retail	c				3 499	24
25	Generation per head of mean population	kWh				7 263	25
26	Generation per head of total population	kWh				7 198	26
27	Retail sales of electricity per head of mean population	kWh				6 358	27
28	Retail sales of electricity per head of total population	kWh				6 302	28
29	Retail sales of electricity per total consumers	kWh				14 593	29
30	Electrical fires reported during year	No				43	30
31	Electrical accidents during year (fatal)	No				17	31

¹Provisional

TABLE I (PART I)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1982

No.	Supply Authorities	Income										Cost of Electricity					No.				
		General Income					Appliance Sales and Servicing Income	Gross Income	Loan Interest	Depreciation	Generation		Purchased	Total							
		Sales of Electricity		Other Sources	Total General Income	Total					Operation and Maintenance ^a										
		Retail	Bulk for Resale																		
1	Electricity Division ¹	\$ 78,875,402	\$ 519,155,387 ^b	\$ 11,881,327	\$ 609,912,116 ^c	\$...	\$ 609,912,116 ^c	\$ 117,591,033	\$ 35,251,555	\$ 95,419,685	\$ 248,262,273	\$ 342,946	\$ 248,605,219	1							
<i>Government Department</i>																					
1	Southland ²	...	...	...	...	...	...	...	...	...	...	...	...	1
<i>Power Boards and Related Authorities</i>																					
1	Ashburton	7,443,767	...	39,458	7,483,225	1,332,978	8,816,203	...	...	...	...	4,368,060	4,368,060	1			
2	Auckland	119,557,641	...	3,969,794	123,527,435	572,557	124,099,992	...	...	...	...	94,855,047	94,855,047	2			
3	Bay of Islands	8,770,629	...	504,419	9,275,048	26,304	9,301,352	...	...	...	...	5,256,985	5,256,985	3			
4	Bay of Plenty	15,326,146	...	389,978	16,983,287	1,146,994	18,130,281	3,182,915	726,830	787,184	4,696,929	8,293,767	12,990,696	4							
5	Buller	2,659,317	...	83,451	2,742,768	362,258	3,105,026	...	...	...	...	1,892,839	1,892,839	5			
6	Cambridge	3,389,213	...	109,827	3,499,040	...	3,499,040	...	...	...	...	2,183,236	2,183,236	6			
7	Central Canterbury	16,701,933	...	375,002	17,091,514	720,420	17,811,934	...	...	...	...	11,103,987	11,103,987	7			
8	Central Hawke's Bay	3,265,205	...	25,987	3,291,192	92,360	3,291,192	...	...	...	...	2,118,611	2,118,611	8			
9	Central Waikato	22,905,097	...	62,828	22,970,148	482,642	23,062,508	...	...	...	...	13,348,228	13,348,228	9			
10	Dannevirke	3,096,202	...	13,663	3,109,865	...	3,592,507	...	...	...	...	1,819,721	1,819,721	10			
11	Egmont	7,037,292	...	94,667	7,131,959	217,323	7,349,282	...	3,405	15,356	18,761	4,403,343	4,422,104	11							
12	Franklin	8,799,923	...	188,811	9,005,356	386,229	9,391,585	...	...	...	...	5,893,667	5,893,667	12			
13	Hawke's Bay	31,656,976	...	910,361	34,841,645	1,709,933	36,551,578	...	...	...	...	25,947,171	25,947,171	13			
14	Horowhenua	13,053,349	...	386,770	13,440,119	975,113	14,415,232	...	...	...	...	7,671,922	7,671,922	14			
15	Hutt Valley	46,755,928	...	1,622,789	48,378,717	1,859,025	50,237,742	...	...	...	...	31,714,501	31,714,501	15			
16	King Country	6,626,142	...	203,272	7,340,681	217,323	7,558,004	...	36,267	93,705	189,181	5,534,469	5,723,650	16							
17	Manawatu-Oroua	13,801,298	...	5,679,814	19,635,370	453,286	20,088,656	...	...	...	...	13,927,241	13,927,241	17			
18	Marlborough	7,558,265	...	338,385	7,896,650	96,081	7,992,731	...	11,185	137,992	149,177	4,341,341	4,490,518	18							
19	North Auckland	13,112,591	...	2,658,186	16,133,338	1,613,338	16,133,338	...	...	...	...	10,802,404	10,802,404	19			
20	North Canterbury	9,044,528	...	99,345	9,774,440	1,343,872	11,118,312	...	...	...	...	5,957,913	5,957,913	20			
21	Otago	7,850,884	...	92,385	7,943,269	1,119,044	9,062,313	...	59,209	203,863	238,371	4,913,396	4,913,396	21							
22	Otago Central	6,001,942	...	49,239	6,062,771	1,794,541	7,857,312	...	29,153	203,339	239,621	3,056,992	3,296,613	22							
23	Poverty Bay	10,672,090	...	161,185	10,833,275	406,100	11,239,375	...	...	...	...	6,548,503	6,548,503	23			
24	Rotorua	2,183,350	...	5,121	2,615,089	1,261,589	3,876,678	...	...	...	...	8,023,826	8,023,826	24			
25	South Canterbury	10,194,839	...	3,339,147	13,988,302	1,987,304	15,975,606	...	...	...	...	10,117,565	10,117,565	25			
26	Taranaki	7,734,476	...	42,295	7,776,771	776,771	8,553,542	...	282	203,863	238,371	4,224,235	4,462,606	26							
27	Tairāia	2,350,007	...	10,825	2,360,832	97,781	2,458,613	...	...	...	...	1,331,660	1,331,660	27			
28	Tairāia	12,838,908	...	242,294	13,081,202	1,636,027	14,717,229	...	2,054	1,313	3,367	10,644,731	10,648,098	28							
29	Tairāia	14,873,390	...	1,576,791	17,579,750	2,687,686	20,267,436	...	372,334	883,588	3,943,608	6,210,540	10,154,148	29							
30	Te Awamutu	4,410,969	...	77,565	4,489,282	...	4,489,282	...	...	...	...	2,913,097	2,913,097	30			
31	Thames Valley	37,136,903	...	1,035,458	38,172,361	1,291,598	39,463,959	...	...	...	...	29,432,549	29,432,549	31			
32	Wairarapa	9,673,440	...	114,306	9,787,746	1,291,598	11,079,344	...	8,640	90,175	98,815	5,925,951	5,925,951	32							
33	Waikato	1,516,420	...	73,827	1,590,247	356,761	1,947,008	...	...	...	...	1,582,204	1,582,204	33			
34	Waikato	6,612,709	...	310,936	6,923,645	1,421,420	8,345,065	...	...	...	...	4,045,527	4,045,527	34			
35	Waitemata	54,328,817	...	2,254,305	56,583,122	824,530	57,407,652	...	15,848	49,545	65,393	35,446,201	35,511,594	35							
36	Waitemata	5,727,416	...	459,482	6,186,898	447,060	6,633,958	...	171,399	160,854	783,423	3,100,832	3,884,255	36							
37	Wanganui-Rangitikei	16,180,941	...	323,648	16,504,589	3,027,215	19,531,804	...	1,038	15,954	16,992	11,266,984	11,283,976	37							
38	West Coast	7,504,616	...	10,195	7,514,811	1,415,282	8,930,093	...	392,904	315,962	1,717,132	1,696,832	3,413,964	38							
												588,353,559	22,874,112	16,836,356	628,064,027	27,602,038	1,805,283	2,960,830	12,160,770	411,817,263	423,978,033

TABLE I (PART I)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1982—continued

No.	Supply Authorities	Income											Cost of Electricity					Total	No.
		General Income					Appliance Sales and Servicing Income	Gross Income	Loan Interest	Generation			Purchased						
		Sales of Electricity		Other Sources	Total General Income	Total				Depreciation	Operation and Maintenance ⁴	Total							
		Retail	Bulk for Resale																
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
<i>Territorial Authorities</i>																			
1	Bluff	716,991	204,497	54,533	9,782,159	716,991	269,615	986,606	...	...	...	...	...	519,890 ¹	519,890	1	519,890
2	Christchurch	59,618,243	734	496,829	60,115,806	60,115,806	3,743,932	63,859,738	...	...	...	...	...	43,175,202	43,175,202	2	43,175,202
3	Dunedin	29,280,126	...	741,711	30,021,837	30,021,837	988,581	31,010,418	...	904,000	2,650,300	3,554,300	...	14,669,126	18,223,426	3	18,223,426		
4	Hamilton	7,704,149	...	243,794	7,947,883	7,947,883	1,947,883	9,895,766	...	...	...	...	...	4,496,514	4,496,514	4	4,496,514
5	Heathcote	1,742,850	...	199,252	1,942,102	1,942,102	4,562	1,946,664	...	...	...	...	...	1,335,186	1,335,186	5	1,335,186
6	Invercargill	9,523,129	204,497	54,533	9,782,159	9,782,159	369,834	10,152,000	...	...	...	...	...	7,012,820	7,012,820	6	7,012,820
7	Kaipoi	967,835	...	52,871	1,020,706	1,020,706	173,804	1,194,510	...	...	...	...	...	630,567	630,567	7	630,567
8	Lytelton	747,325	...	13,379	760,704	760,704	934,508	1,695,212	...	...	...	...	...	488,896	488,896	8	488,896
9	Napier	4,086,262	...	150,685	4,236,947	4,236,947	803,637	5,040,584	...	...	...	...	...	2,274,309	2,274,309	9	2,274,309
10	Nelson	5,126,347	751	98,286	5,225,384	5,225,384	...	5,225,384	...	...	...	...	...	3,186,503	3,186,503	10	3,186,503
11	New Plymouth	11,302,598	...	76,738	11,379,336	11,379,336	2,039,080	13,418,416	...	29,828	292,504	322,332	...	6,257,642 ⁸	6,257,642	11	6,257,642		
12	Paimeterston North	8,434,066	...	70,004	8,504,070	8,504,070	...	8,504,070	...	1,918	10,934	12,852	...	5,679,672	5,679,672	12	5,679,672		
13	Riccarton	2,282,837	...	9,156	2,291,993	2,291,993	222,565	2,514,558	...	...	...	...	...	1,561,199	1,561,199	13	1,561,199
14	Taumarunui	917,135	82	236,270	1,153,487	1,153,487	...	1,153,487	...	...	43,435	64,382	...	522,592	522,592	14	522,592
15	Taupo	5,439,804	...	315,315	5,755,119	5,755,119	...	5,755,119	...	126,363	625,347	816,825	...	2,828,355	2,828,355	15	2,828,355		
16	Tauranga	2,216,093	...	72,733	2,288,826	2,288,826	...	2,288,826	...	...	32,353	32,353	...	1,465,878	1,465,878	16	1,465,878
17	Thames-Coromandel	1,426,881	...	754	1,427,635	1,427,635	20,516	1,448,151	...	...	...	...	...	1,030,776	1,030,776	17	1,030,776
18	Timaru	4,804,535	...	99,818	4,904,353	4,904,353	217,398	5,121,751	...	...	...	...	...	3,339,147	3,339,147	18	3,339,147
19	Wairoa	1,001,523	...	21,401	1,022,924	1,022,924	...	1,022,924	...	...	...	...	...	653,650	653,650	19	653,650
20	Wellington	34,661,370	...	519,220	35,180,590	35,180,590	1,312,023	36,492,613	...	...	...	...	...	25,261,520	25,261,520	20	25,261,520
21	Whakatane	2,035,389	...	60,814	2,096,203	2,096,203	...	2,096,203	...	...	...	...	...	1,280,463	1,280,463	21	1,280,463
22	Whangarei	4,481,165	...	2,695	4,483,860	4,483,860	...	4,483,860	...	...	...	...	...	2,657,060	2,657,060	22	2,657,060
	Totals	198,516,653	206,064	3,536,198	202,258,915	202,258,915	10,165,547	212,424,462	86,062	1,062,109	3,654,873	4,803,044	130,326,967	135,130,011					
	Less bulk for resale	865,745,614	542,235,563	32,253,881	1,440,235,058	1,440,235,058	37,767,585	1,478,002,643	125,071,752	38,118,947	102,035,388	265,226,087	542,487,176	807,713,263					
	NET INCOME AND COST	865,745,614	542,235,563	32,253,881	1,440,235,058	1,440,235,563	...	542,235,563	...	...	...	...	251,613 ⁹	265,477,700			

(for notes see page 9)

TABLE I (PART II)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1982

No.	Supply Authorities	Expenditure										Gross Expenditure	Net Results Surplus	
		Supply Expenditure and Charges												
		Cost of Electricity		Operation and Maintenance			Administration and General		Loan Interest	Depreciation	Total Supply Expenditure			Appliance Sales and Servicing Expenditure
		Transmission and Distribution	Properties Plant and Equipment	Consumer-related Costs	Total	Total								
1	Electricity Division ¹	248,605,219	34,038,464	237,720	4,795	34,280,979	48,106,579	107,162,959	7,211,446	445,367,182	...	445,367,182	164,544,934	
1	Government Department Southland ²	...	...	...	...	...	...	...	...	...	...	...	...
<i>Power Boards and Related Authorities</i>														
1	Ashburton	4,368,060	608,666	92,313	100,896	801,875	558,951	263,131	506,336	6,498,353	1,232,992	7,731,345	1,084,858	
2	Auckland	94,855,047	9,550,708	1,930,944	1,347,460	12,829,112	6,159,757	2,409,302	5,153,913	121,407,131	566,265	121,973,396	2,126,596	
3	Bay of Islands	5,256,985	1,002,971	129,184	59,334	1,191,489	749,203	491,262	643,686	8,332,625	25,362	8,357,987	943,365	
4	Bay of Plenty	12,990,696	1,034,808	340,369	164,246	1,539,423	1,071,254	274,118	519,080	16,394,571	1,075,945	17,470,516	659,765	
5	Buller	1,892,839	240,257	35,589	42,762	318,608	257,369	51,454	114,417	2,634,687	361,244	2,995,931	109,095	
6	Cambridge	2,183,286	256,264	55,399	161,687	311,663	206,082	10,163	148,202	2,859,346	...	2,859,346	639,694	
7	Central Canterbury	11,103,987	1,435,054	367,402	161,687	1,964,143	1,389,355	143,302	834,674	15,435,461	691,793	16,127,254	1,684,680	
8	Central Hawke's Bay	2,118,611	278,683	2,809	18,886	300,378	328,341	112,492	190,431	3,050,253	...	3,050,253	240,939	
9	Central Waikato	13,348,228	2,002,247	246,979	109,354	2,558,580	1,996,250	699,030	1,258,778	19,660,866	89,389	19,750,255	3,312,253	
10	Dannevirke	1,819,721	222,876	15,818	67,792	306,486	291,881	63,640	189,350	2,671,078	445,086	3,116,164	476,343	
11	Egmont	4,422,104	885,597	111,162	113,126	1,109,885	835,792	28,624	307,125	6,703,530	...	6,703,530	428,429	
12	Franklin	5,893,667	1,017,440	136,366	124,659	1,278,465	757,717	191,570	458,294	8,579,663	404,749	8,984,412	407,353	
13	Hawke's Bay	25,947,171	1,784,038	274,242	272,466	2,330,746	1,391,319	598,338	1,466,301	31,734,275	1,579,582	33,313,857	3,237,721	
14	Horowhenua	7,671,922	1,786,441	228,503	238,849	2,253,793	1,017,998	550,231	721,028	12,214,972	908,300	13,123,280	1,291,952	
15	Hutt Valley	31,714,501	5,471,578	663,960	852,819	6,988,357	4,292,244	1,197,456	1,688,500	45,881,058	1,814,690	47,695,748	2,541,994	
16	King Country	5,723,650	483,934	69,543	109,031	662,508	328,811	42,493	196,647	6,954,109	216,983	7,170,192	387,812	
17	Manawatu-Oroua	13,927,241	1,808,569	76,155	116,495	2,001,217	1,173,395	171,104	765,374	18,038,331	432,705	18,471,036	1,617,620	
18	Marlborough	4,490,518	1,265,951	68,420	167,184	1,501,555	518,789	285,841	543,567	7,340,070	80,106	7,420,176	572,555	
19	North Auckland	10,802,404	845,187	672,977	77,882	1,596,046	1,314,105	482,101	902,480	15,097,136	1,216,549	16,313,685	1,036,202	
20	North Canterbury	5,957,913	1,049,556	123,289	171,899	1,344,744	813,237	483,666	532,596	9,132,156	...	10,348,705	769,607	
21	Otago	4,913,396	1,024,902	82,066	96,576	1,203,544	591,726	249,881	369,056	7,327,603	1,090,767	8,418,370	643,943	
22	Otago Central	3,296,613	654,038	61,192	45,205	760,435	635,082	264,228	343,658	5,300,016	1,731,069	7,031,085	826,227	
23	Povey Bay	6,548,503	1,656,008	299,279	131,504	2,086,791	986,448	343,347	523,568	10,488,657	391,488	10,880,145	359,330	
24	Rotorua	8,023,826	1,211,525	148,302	142,383	1,502,210	920,355	188,846	392,128	11,027,365	1,864,840	12,892,205	1,587,724	
25	South Canterbury	10,117,565	1,190,359	201,393	22,173	1,413,925	1,039,571	204,103	644,227	13,419,391	...	15,284,231	691,375	
26	Taranaki	4,462,606	796,225	69,487	34,986	900,698	573,767	60,075	454,891	6,452,037	...	6,452,037	1,324,734	
27	Taranaki	1,331,660	282,288	36,769	36,514	355,571	259,409	92,251	172,613	2,211,504	86,954	2,298,458	160,155	
28	Tasman	10,648,098	859,314	196,618	156,374	1,212,306	1,272,938	434,260	753,470	14,321,092	1,731,998	16,053,090	1,850,642	
29	Tauranga	1,154,148	1,388,477	366,822	300,958	2,056,257	1,013,703	560,804	777,121	14,562,033	...	14,562,033	3,017,717	
30	Te Awamutu	2,913,097	382,158	68,726	122,663	573,547	353,110	1,050	222,062	4,062,866	...	4,062,866	426,416	
31	Thames Valley	29,432,549	2,880,026	510,983	239,650	3,630,659	1,963,457	859,327	1,194,262	37,080,254	1,245,953	38,326,207	1,254,561	
32	Waikato	5,925,951	844,132	260,359	219,049	1,323,540	892,664	720,890	765,855	9,628,855	...	10,874,808	204,536	
33	Waikato	1,582,204	179,419	18,830	27,926	2,090,151	1,824,424	21,886	77,662	2,090,151	323,310	2,413,461	187,197	
34	Waikato	4,045,527	640,793	222,648	137,540	1,000,981	3,614,941	71,406	420,536	6,075,789	1,387,303	7,463,092	881,973	
35	Waitemata	35,511,594	4,725,746	1,049,759	472,277	6,247,782	3,614,941	1,904,283	2,362,118	49,640,718	800,441	50,441,159	6,966,493	
36	Waitemata	3,884,255	535,511	77,833	76,953	690,297	430,929	72,473	494,951	5,572,905	420,713	5,993,618	640,340	
37	Wanganui-Rangitikei	11,283,976	1,962,458	315,237	136,690	2,414,385	1,254,719	231,370	753,021	15,937,471	2,807,092	18,744,563	787,241	
38	West Coast	3,413,964	768,738	216,774	198,837	1,184,349	494,158	378,041	459,551	5,930,063	1,403,803	7,333,866	2,111,708	
		423,978,033	55,012,942	9,844,500	6,915,083	71,772,525	42,468,590	15,207,789	28,321,504	581,748,441	26,426,579	608,175,020	47,491,045	

TABLE I (PART II)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1982—continued

No.	Supply Authorities	Expenditure											Net Results Surplus	
		Cost of Electricity		Supply Expenditure and Charges					Total Supply Expenditure	Depreciation	Loan Interest	Appliance Sales and Servicing Expenditure		Gross Expenditure
		Transmission and Distribution	Properties Plant and Equipment ^a	Consumer-related Costs ^b	Total	Administration and General	Total							
								Operation and Maintenance						
<i>Territorial Authorities</i>														
1	Bluff	110,693	8,125	847,979	118,818	39,000	2,296	680,004	232,172	912,176	74,430			
2	Christchurch	3,300,338	941,861	227,820	5,090,178	3,293,182	431,635	54,574,741	3,579,117	58,153,858	5,705,880			
3	Dunedin	3,275,241	268,202	97,862	3,771,263	2,484,127	132,141	25,713,957	976,586	26,690,543	4,319,875			
4	Hamilton	4,496,514	130,159	1,159,893	1,159,893	1,050,431	34,788	6,706,838	2,828	6,706,838	1,241,045			
5	Heathcote	16,166	15,945	4,233	36,344	236,461	34,788	1,642,779	2,828	1,645,607	301,057			
6	Invercargill	982,528	72,989	124,102	1,179,619	527,704	158,775	8,878,918	343,638	8,878,918	903,241			
7	Kaipoi	19,262	3,703	34,853	57,818	133,216	14,654	839,255	3,000	1,182,893	207,647			
8	Lytelton	83,879	2,743	19,645	106,267	109,282	704,445	704,445	172,273	876,718	57,790			
9	Napier	336,151	75,944	189,115	601,210	508,498	210,168	3,823,043	761,407	4,384,450	456,134			
10	Nelson	554,238	90,525	62,954	707,717	427,751	107,992	4,564,314	...	4,564,314	661,070			
11	New Plymouth	1,298,945	166,242	228,028	1,693,215	780,284	114,721	9,668,426 ^c	1,956,608	11,625,034 ^c	1,793,382 ^c			
12	Palmerston North	1,296,189	80,438	115,091	1,491,718	805,007	34,698	8,211,188	187,241	8,211,188	292,882			
13	Riccarton	1,501,152	5,587	45,063	200,802	259,382	...	2,021,383	206,753	2,228,136	286,422			
14	Taumarunui	71,024	1,818	9,940	82,782	139,534	3,617	812,907	...	812,907	340,580			
15	Taupo	657,297	2,599	...	659,896	668,427	277,953	5,560,937	309,481	5,560,937	194,182			
16	Tauranga	165,055	22,464	48,168	235,687	245,080	20,615	1,999,613	...	1,999,613	289,212			
17	Thames-Coromandel	117,421	2,975	38,007	158,403	127,770	...	1,342,147	16,488	1,358,635	89,516			
18	Timaru	212,103	52,930	135,734	400,767	397,658	77,058	4,364,605	208,111	4,572,716	549,035			
19	Wairoa	93,025	14,543	14,630	122,198	103,463	7,211	920,947	34,425	920,947	101,977			
20	Wellington	3,153,104	909,716	650,386	4,713,206	2,707,126	350,682	33,752,027	1,232,970	34,984,997	1,507,616			
21	Whakatane	197,801	14,783	17,734	230,318	238,191	630	1,820,502	...	1,820,502	275,701			
22	Whangarei	306,342	5,286	57,877	369,505	741,551	...	3,805,012	...	3,805,012	678,848			
Totals		17,328,826	2,889,577	2,969,221	23,187,624	16,023,125	1,976,017	182,407,988	9,688,951	192,096,939	20,327,523			
Less bulk for resale		106,380,232	12,971,797	9,889,099	129,241,128	106,598,294	124,346,765	1,209,523,611	36,115,530	1,245,639,141	232,363,502			
NET EXPENDITURE		106,380,232	12,971,797	9,889,099	129,241,128	106,598,294	124,346,765	667,288,048	36,115,530	703,403,578	232,363,502			

NOTES: ¹Included with the Electricity Division. ²As for note 6, Table V, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board. ³Actual running costs including transport, wages, stores, and maintenance. Also includes cost of fuel: \$40,394,501. ⁴Purchases from sources other than the Electricity Division or a supply authority. ⁵Cost of maintenance of plant, equipment, buildings and properties. ⁶Cost of recoverable street lighting maintenance, and non-recoverable costs of inspecting consumers' premises and appliance testing. ⁷See note 11 Table V.

TABLE II (PART I)—ANALYSIS OF LIABILITIES AND RESERVES FOR THE YEAR ENDED 31 MARCH 1982

No.	Supply Authorities	Liabilities						Reserves					Total	No.
		Public Debt (excl. Home Insulation and Solar Installation Loans)			Sundry Creditors (incl. Home Insulation and Solar Installation Loans)	Capital Reserves	Non-capital Reserves		Accumulated Surplus ^a	Total	Total			
		Loans Raised During Year	Loans Repaid During Year				Gross Loan Liability as at 31 March	Sinking Funds and Reserves for Future Loan Repayments				Other Reserves		
			From Redemption Funds	From Internal Sources and Sinking Funds										
1	Electricity Division ¹	\$ 176,936,288 ²	\$ 60,197,949	\$ 2,448,993,175	\$ 24,088,292	\$...	\$...	\$...	\$...	\$...	\$...	\$ 587,175,507 ³	\$ 3,060,256,974	1
1	Government Department	1
1	Southland ²	1
<i>Power Boards and Related Authorities</i>														
1	Ashburton	3,676,005	177,085	6,388,508	1,685,147	6,513,776	765,926	215,388	981,314	1,692,209	17,260,954	1	1	
2	Auckland	2,662,190	3,325,528	24,536,868	20,046,553	90,913,136	1,273,181	12,046,886	13,320,067	3,494,235	152,310,859	2	2	
3	Bay of Islands	860,000	228,060	5,678,418	1,698,465	7,832,182	1,600,000	280,000	1,880,000	21,985	17,111,050	3	3	
4	Bay of Plenty	2,362,000	535,204	30,190,907	3,261,428	6,729,968	1,617,148	587,582	2,204,730	2,473,966	44,860,999	4	4	
5	Buller	2,000	21,046	674,483	548,697	1,561,570	229,542	136,142	365,684	552,134	3,702,568	5	5	
6	Cambridge	...	2,000	106,000	627,109	2,958,121	55,134	226,936	282,070	835,332	4,808,632	6	6	
7	Central Canterbury	...	325,234	1,525,586	3,357,487	16,396,005	792,322	542,984	1,335,306	2,951,534	25,545,918	7	7	
8	Central Hawke's Bay	65,000	30,512	1,026,135	572,208	3,184,503	115,767	99,656	213,423	432,756	5,431,025	8	8	
9	Central Waikato	1,055,200	322,601	8,318,808	3,663,872	16,223,147	2,146,481	398,821	2,545,302	2,425,895	33,177,024	9	9	
10	Dannevirke	50,000	11,703	616,239	624,647	3,438,034	102,584	123,169	227,753	171,245	5,077,918	10	10	
11	Egmont	16,431,000	39,295	25,389,235	2,485,902	6,560,616	185,378	112,806	298,184	555,973	35,289,910	11	11	
12	Franklin	693,540	107,103	2,486,822	1,404,315	6,355,351	863,155	683,318	1,548,453	1,431,363	13,226,304	12	12	
13	Hawke's Bay	1,200,000	691,409	5,231,607	5,851,429	19,479,312	1,575,584	3,135,965	4,711,549	1,400,052	37,724,199	13	13	
14	Horowhenua	188,560	803,877	6,375,153	2,044,116	11,061,331	1,575,584	516,595	2,243,868	708,868	21,289,790	14	14	
15	Hutt Valley	2,050,000	1,748,945	13,078,027	9,743,046	25,357,730	908,569	6,144,814	7,053,383	6,800,265	62,032,451	15	15	
16	King Country	...	55,901	1,384,509	1,591,363	1,972,218	84,763	1,650,806	1,783,245	1,783,245	8,466,904	16	16	
17	Manawatu-Oroua	3,390	127,725	2,030,644	3,602,742	11,806,824	699,060	1,820,195	2,489,255	2,071,164	22,000,629	17	17	
18	Marlborough	6,844,884	240,976	10,532,420	2,059,095	7,150,523	674,820	224,647	899,467	470,771	21,112,276	18	18	
19	North Auckland	1,320,000	353,275	6,375,153	3,009,307	14,029,707	1,586,971	948,240	2,535,211	1,271,061	27,220,439	19	19	
20	North Canterbury	617,100	106,697	5,192,508	2,298,281	6,530,392	688,674	69,670	758,344	314,545	15,094,070	20	20	
21	Otago	4,860,650	272,183	7,252,317	1,631,829	6,688,357	488,937	667,656	1,156,593	1,144,720	17,873,816	21	21	
22	Otago Central	2,894,000	84,851	7,762,445	1,096,014	5,659,353	392,260	676,098	1,088,358	1,748,296	17,334,466	22	22	
23	Poverty Bay	685,300	229,330	3,990,660	2,010,351	7,702,618	113,986	80,194	194,180	218,872	14,116,681	23	23	
24	Rotorua	11,608,200	115,632	20,471,955	4,698,306	5,942,613	587,794	101,600	689,394	2,838,967	34,641,235	24	24	
25	South Canterbury	150,000	138,367	2,689,946	1,957,340	11,150,278	638,243	531,392	1,169,635	2,295,188	19,262,387	25	25	
26	Taranaki	500,000	63,947	899,557	1,037,704	8,012,503	24,708	1,451,007	1,475,715	765,676	12,191,155	26	26	
27	Tararua	150,000	47,799	978,532	526,100	2,600,960	127,873	3,781	133,654	41,651	4,280,897	27	27	
28	Tasman	713,800	128,035	4,484,614	2,303,905	9,544,396	284,897	688,608	973,505	2,532,040	19,858,460	28	28	
29	Tauranga	3,721,385	547,183	43,617,507	8,015,696	11,849,411	568,328	2,338,689	2,907,017	1,238,708	67,628,339	29	29	
30	Te Awamutu	...	...	20,000	999,007	4,547,999	18,015	231,205	249,220	1,072,339	5,923,465	30	30
31	Thames Valley	1,104,600	350,238	9,849,581	7,948,651	12,642,010	2,921,190	248,954	3,170,144	2,832,011	36,442,397	31	31	
32	Wairarapa	1,053,480	254,358	8,013,164	2,526,924	2,876,964	876,153	...	876,153	984,564	15,277,769	32	32	
33	Waikato	1,183,500	20,711	1,587,542	600,915	1,395,713	118,335	68,226	66,226	393,563	4,045,959	33	33	
34	Waikato	751,630	103,773	1,131,330	1,378,134	6,420,597	118,335	913,391	1,031,726	1,330,643	11,292,430	34	34	
35	Waitemata	2,716,870	1,720,152	20,255,412	10,079,551	30,199,650	5,253,913	2,328,007	7,581,920	9,275,876	77,392,409	35	35	
36	Waitemata	991,300	422,412	5,379,622	1,506,054	7,527,798	579,647	290,248	869,895	1,157,001	16,440,370	36	36	
37	Wanganui-Rangitikei	351,300	422,393	2,686,448	2,351,873	10,994,772	836,859	1,179,828	2,016,687	3,407,441	21,457,221	37	37	
38	West Coast	360,000	324,864	13,554,996	2,039,145	6,163,785	1,621,174	1,19,508	2,040,682	875,618	24,674,226	38	38	
		73,876,884	149,000	311,670,362	122,862,708	417,974,223	33,116,624	42,187,012	75,303,636	65,066,672	992,871,601			

TABLE II (PART II)—ANALYSIS OF ASSETS FOR THE YEAR ENDED 31 MARCH 1982

No.	Supply Authorities	Assets							Total	No.
		Capital Expenditure less Depreciation ^a	Stocks and Materials (non-loan) ^b	Sundry Debtors	Non-loan Cash and Investments	Loan Cash, Stock and Investments	Accumulated Deficit ^c	Total		
		\$	\$	\$	\$	\$	\$	\$	\$	
1	Electricity Division ¹	2,840,962,862	81,179,510	128,635,855	4,350,000	5,128,747	...	3,060,256,974	1	
<i>Government Department</i>										
1	Southland ²	...	...	...	...	...	...	...	1
<i>Power Boards and Related Authorities</i>										
1	Ashburton	12,758,283	2,114,305	1,262,514	981,852	144,000	...	17,260,954	1	
2	Auckland	105,812,765	6,151,302	8,478,050	31,109,842	758,900	...	152,310,859	2	
3	Bay of Islands	11,927,376	31,983	811,596	2,493,169	1,846,926	...	17,111,050	3	
4	Bay of Plenty	36,408,412	1,009,461	2,356,857	4,686,269	400,000	...	44,860,999	4	
5	Buller	2,203,353	353,473	486,712	616,865	42,165	...	3,702,568	5	
6	Cambridge	3,064,121	...	270,202	1,180,021	294,288	...	4,808,632	6	
7	Central Canterbury	17,917,651	1,655,891	2,929,540	3,040,971	1,865	...	25,545,918	7	
8	Central Hawke's Bay	4,165,851	385,460	230,956	603,971	44,787	...	5,431,025	8	
9	Central Waikato	24,383,187	2,225,926	3,651,185	2,757,958	158,768	...	33,177,024	9	
10	Dannevirke	4,004,338	461,597	377,866	228,117	6,000	...	5,077,918	10	
11	Egmont	33,843,177	615,144	508,279	323,310	...	...	35,289,910	11
12	Franklin	8,484,045	876,409	1,160,990	2,209,762	495,098	...	13,226,304	12	
13	Hawke's Bay	25,735,770	3,016,508	4,461,808	2,934,429	1,575,684	...	37,724,199	13	
14	Horowhenua	15,342,953	1,294,558	1,236,805	738,216	2,677,258	...	21,289,790	14	
15	Hutt Valley	39,518,494	3,322,462	5,506,192	13,435,935	249,368	...	62,032,451	15	
16	King Country	2,806,727	588,409	1,418,779	3,102,989	550,000	...	8,466,904	16	
17	Manawatu-Oroua	13,837,468	1,181,763	3,644,983	3,336,415	...	...	22,000,629	17
18	Marlborough	17,272,922	989,074	1,334,820	1,257,150	258,310	...	21,112,276	18	
19	North Auckland	20,471,338	1,129,256	2,148,536	3,470,161	1,148	...	27,220,439	19	
20	North Canterbury	11,597,500	1,124,144	1,488,292	758,734	125,400	...	15,094,070	20	
21	Otago	13,852,298	1,372,439	1,187,328	1,461,751	...	...	17,873,816	21
22	Otago Central	12,792,281	1,235,792	1,391,599	1,371,794	543,000	...	17,334,466	22	
23	Poverty Bay	11,684,480	1,402,178	777,484	239,452	13,087	...	14,116,681	23	
24	Rotorua	28,704,459	718,996	1,258,793	3,958,987	...	...	34,641,235	24
25	South Canterbury	13,840,226	1,897,979	2,342,520	1,181,662	...	...	19,262,387	25
26	Taranaki	8,688,600	795,973	872,128	1,610,994	223,460	...	12,191,155	26	
27	Tararua	3,579,451	295,745	258,262	133,824	13,615	...	4,280,897	27	
28	Tasman	13,198,674	2,065,350	2,616,288	1,578,148	400,000	...	19,858,460	28	
29	Tauranga ^a	61,234,182	1,319,730	2,471,253	2,603,174	...	...	67,628,339	29
30	Te Awamutu	4,567,999	89,676	416,310	849,480	...	...	5,923,465	30
31	Thames Valley	22,291,647	3,346,298	6,169,578	4,434,874	200,000	...	36,442,397	31	
32	Wairarapa	10,890,128	1,847,889	1,466,501	1,073,251	...	...	15,277,769	32
33	Wairoa	3,186,256	247,720	525,619	86,364	...	...	4,045,959	33
34	Waitaki	7,351,546	896,115	1,132,273	1,593,781	318,715	...	11,292,430	34	
35	Waitemata	49,455,062	2,849,216	5,546,219	18,541,912	1,000,000	...	77,392,409	35	
36	Waitemo	13,021,065	825,714	1,314,633	1,278,958	...	...	16,440,370	36
37	Wanganui-Rangitikei	13,668,494	2,663,660	2,558,346	1,409,982	1,156,739	...	21,457,221	37	
38	West Coast	19,155,536	1,338,124	618,139	2,999,182	563,245	...	24,674,226	38	
		722,718,115	53,735,719	76,688,235	125,673,706	14,061,826	...	992,877,601		

TABLE II (PART II)—ANALYSIS OF ASSETS FOR THE YEAR ENDED 31 MARCH 1982—continued

No.	Supply Authorities	Assets								Total	No.
		Capital Expenditure less Depreciation ^a	Stocks and Materials (non-loan) ^b	Sundry Debtors	Non-loan Cash and Investments	Cash, Stock and Investments	Accumulated Deficit ^c				
		\$	\$	\$	\$	\$	\$	\$	\$	\$	
<i>Territorial Authorities</i>											
1	Bluff	301,804	77,339	125,515	1,970	6,731	..	..	513,359	1
2	Christchurch	37,547,530	2,626,604	5,591,009	11,735,884	612,778	..	..	58,113,805	2
3	Dunedin	44,457,026	2,815,296	3,409,329	11,158,932	1	..	..	61,840,584	3
4	Hamilton	7,033,902	..	269,918	3,242,832	..	..	..	10,546,652	4
5	Heathcote	1,650,877	116,650	147,731	..	726	..	149,918	2,065,902	5	
6	Invercargill	6,854,573	556,391	525,900	429,173	15,860	..	521,533	8,903,430	6	
7	Kaipoi	717,074	143,762	205,784	60,180	..	..	..	1,126,800	7
8	Lytelton	395,837	112,529	103,379	52,955	..	..	..	664,700	8
9	Napier	5,060,190	586,020	358,415	491,626	8,271	..	49,270	6,553,792	9	
10	Nelson	3,464,435	155,030	322,763	220,474	191,970	..	..	4,354,672	10
11	New Plymouth	8,897,132	1,288,321	1,106,939	1,894,754	..	..	..	13,187,146	11
12	Palmerston North	5,380,160	616,150	1,163,552	2,150,207	..	..	..	9,310,069	12
13	Riccarton	1,835,922	94,259	319,553	226,620	158,855	..	..	2,635,209	13
14	Taumarunui	1,251,074	43,614	101,693	168,461	..	6,403	..	1,571,245	14	
15	Taupo	10,487,538	502,076	331,819	1,212,143	188,430	..	..	12,722,006	15
16	Tauranga	3,236,936	279,236	193,021	1,229,696	..	..	..	4,938,889	16
17	Thames-Coromandel	430,106	99,999	157,149	238,456	..	..	..	925,710	17
18	Timaru	4,497,091	327,186	225,441	425,920	87,981	..	..	5,563,619	18
19	Wairoa	694,039	15,226	4,135	178,385	..	..	..	891,785	19
20	Wellington	33,087,111	2,305,268	3,186,473	7,142,895	500,000	..	..	46,221,747	20
21	Whakatane	1,415,885	188,171	105,149	278,621	..	..	..	1,987,826	21
22	Whangarei	1,691,894	83,668	575,143	1,070,430	..	..	..	3,421,135	22
	GRAND-TOTALS	180,388,136	13,032,795	18,529,810	43,610,614	1,771,603	727,124	258,060,082	727,124	4,311,194,657	

NOTES: Includes Southland Electric Power Supply. ¹Included with the Electricity Division. ²Includes realignment of currencies \$11,222,927. ³As for note 6, Table V, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board. ⁴Shown as General Reserve in Section A, table (b), but in this table has been shown under this heading as it is more closely related to the supply authorities. ⁵Accumulated Retained Surplus. ⁶Subject to auditing after table published.

TABLE III—ANALYSIS OF CAPITAL EXPENDITURE FOR THE YEAR ENDED 31 MARCH 1982

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
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Electricity Division ¹	225,097,246	56,398,748	13,643,328	295,139,322	...	141,956,055	110,720,266	42,463,001	...	295,139,322
Government Department											
1	Southland ²	...	...	...	...	...	...	...	...	...	...
Power Boards and Related Authorities											
1	Ashterton	2,474,554	1,656,571	480,066	4,611,191	316,026	3,532,005	433,909	329,251	6,132,103	4,611,191
2	Auckland	...	8,143,038	947,437	9,090,475	374,672	2,583,700	...	...	...	9,090,475
3	Bay of Islands	...	1,328,108	172,381	1,500,489	240,362	229,548	614,353	415,626	...	1,500,489
4	Bay of Plenty	...	682,922	(438,888)	2,823,633	165,045	663,659	190,396	535,706	1,268,827	2,823,633
5	Buller	...	175,413	58,302	213,715	6,672	14,513	99,159	93,371	...	213,715
6	Cambridge	...	448,201	80,374	528,575	16,434	...	354,822	148,702	9,117	528,575
7	Central Canterbury	...	2,018,235	498,803	2,524,380	107,889	263,824	1,272,846	834,674	45,147	2,524,380
8	Central Hawke's Bay	...	468,856	27,722	491,578	65,341	43,148	223,170	159,919	...	491,578
9	Central Waikato	...	4,336,104	931,721	5,267,825	165,393	1,297,235	2,506,063	1,258,778	40,356	5,267,825
10	Dannevirke	...	490,364	95,554	585,918	62,623	...	317,482	177,647	28,166	585,918
11	Egmont	15,848,902	855,740	380,774	17,085,416	...	16,087,367	461,452	271,235	265,362	17,085,416
12	Franklin	...	701,992	162,671	864,663	88,112	293,247	189,826	246,103	47,375	864,663
13	Hawke's Bay	...	3,934,996	399,892	4,334,888	3,300	1,200,000	2,550,214	781,374	...	4,334,888
14	Horowhenua	...	1,461,943	289,888	1,751,831	295,366	300,000	1,014,482	141,983	...	1,751,831
15	Hutt Valley	...	1,856,542	887,336	2,743,878	98,545	1,645,333	1,000,000	...	...	2,743,878
16	King Country	...	209,306	101,676	310,982	31,403	...	102,566	177,013	...	310,982
17	Manawatu-Oroua	...	1,294,665	278,393	1,573,058	27,308	3,390	662,878	765,374	114,108	1,573,058
18	Marlborough	6,147,254	1,022,889	592,674	7,762,817	147,728	6,725,403	576,110	313,576	342,070	7,762,817
19	North Auckland	...	2,429,337	1,310,412	3,739,749	522,877	1,294,303	1,033,294	547,205	...	3,739,749
20	North Canterbury	...	1,661,961	176,136	1,838,097	262,179	450,000	626,030	499,888	...	1,838,097
21	Otago	4,814,299	862,531	405,298	6,082,128	204,404	5,513,609	213,964	150,151	...	6,082,128
22	Otago Central	2,510,824	904,648	206,155	3,621,627	229,106	2,673,000	392,976	326,545	...	3,621,627
23	Poverty Bay	...	872,964	791,465	1,664,429	33,485	875,591	382,063	294,238	79,052	1,664,429
24	Rotorua	9,543,384	2,544,443	2,579,632	14,667,459	102,689	12,917,179	575,748	276,496	795,347	14,667,459
25	South Canterbury	...	1,385,499	405,797	1,791,296	60,220	276,422	448,794	505,860	500,000	1,791,296
26	Taranaki	34,060	1,054,379	315,188	1,403,627	73,190	65,344	775,976	489,117	...	1,403,627
27	Taranaki	...	476,601	70,865	547,466	56,164	150,000	168,689	172,613	...	547,466
28	Tasman	...	1,383,726	1,060,668	2,644,394	7,620	824,000	1,057,250	755,524	...	2,644,394
29	Tauranga	3,491,790	2,348,540	5,189,843	11,030,173	3,186,555	4,121,385	1,487,170	602,272	1,632,791	11,030,173
30	Te Awamutu	...	372,050	836,633	1,208,683	8,615	...	506,672	222,062	471,334	1,208,683
31	Thames Valley	...	3,580,669	1,205,935	4,786,604	361,173	1,151,000	1,277,229	1,145,241	851,961	4,786,604
32	Wairarapa	7,001	1,279,647	280,619	1,567,267	54,036	1,053,480	370,092	370,092	...	1,567,267
33	Waikato	1,286,991	1,58,598	24,173	1,469,762	1,200	1,376,991	34,228	...	...	1,469,762
34	Waikato	...	850,442	734,950	1,585,392	53,470	551,250	396,783	53,575	...	1,585,392
35	Waitemata	...	6,139,440	2,124,440	8,263,880	562,082	1,735,190	3,438,621	1,165,392	1,362,595	8,263,880
36	Waitemata	703,308	753,616	480,380	1,937,304	133,740	991,300	566,326	243,938	...	1,937,304
37	Wairarapa-Rangitikei	...	779,968	349,768	1,129,736	39,451	360,168	380,279	379,838	...	1,129,736
38	West Coast	330,762	1,239,488	500,703	2,070,953	25,810	334,678	1,061,542	648,923	...	2,070,953
		49,780,070	62,364,432	24,970,836	137,115,338	8,192,885	71,597,262	27,436,552	15,849,353	14,039,286	137,115,338

TABLE III—ANALYSIS OF CAPITAL EXPENDITURE FOR THE YEAR ENDED 31 MARCH 1982—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	..	..	12,336	18,080	..	..	18,080	..	..	..	..	18,080	1
2	Christchurch	..	5,744	1,169,251	7,542,299	127,130	750,000	4,080,625	2,584,544	..	..	..	7,542,299	2
3	Dunedin	..	6,373,048	567,944	6,829,014	25,754	..	617,066	..	6,186,194	..	..	6,829,014	3
4	Hamilton	..	770,703	84,662	645,690	12,365	..	633,325	..	..	..	..	645,690	4
5	Heathcote	..	561,028	35,411	420,831	..	45,871	374,960	..	..	..	..	420,831	5
6	Invercargill	..	385,420	71,688	531,695	..	311,770	219,925	..	..	..	..	531,695	6
7	Kaiaoi	..	460,007	1,422	44,249	..	..	44,249	..	..	..	..	44,249	7
8	Lytelton	..	42,827	11,163	22,389	..	..	22,389	..	..	..	..	22,389	8
9	Napier	..	11,163	99,793	813,833	..	240,000	344,975	228,858	..	..	..	813,833	9
10	Nelson	..	714,040	55,244	530,169	..	437,852	..	92,317	..	..	..	530,169	10
11	New Plymouth	..	474,925	..	1,347,678	36,010	..	781,608	530,060	..	..	..	1,347,678	11
12	Palmerston North	..	64,467	542,266	691,632	32,774	5,850	463,849	189,159	..	..	..	691,632	12
13	Riccarton	..	495,094	196,538	393,059	..	167,876	197,033	..	28,150	..	..	393,059	13
14	Taumarunui	..	388,752	4,307	227,828	..	80,000	108,534	3,617	35,677	..	..	227,828	14
15	Taupo	..	44,590	318,040	1,316,205	475	894,700	197,232	223,798	..	..	..	1,316,205	15
16	Tauranga	..	269,157	..	263,292	..	..	263,292	..	..	..	..	263,292	16
17	Thames-Coromandel	..	160,638	102,654	34,619	5,506	..	3,915	25,198	..	..	..	34,619	17
18	Timaru	..	7,211	27,408	775,876	..	287,510	280,177	..	208,189	..	..	775,876	18
19	Waioa	..	674,880	100,996	97,178	..	..	62,753	34,425	..	..	..	97,178	19
20	Wellington	..	94,859	2,319	4,137,595	57,393	500,000	1,442,316	..	2,137,886	..	..	4,137,595	20
21	Whakatane	..	3,360,382	777,013	143,925	..	..	78,005	65,920	..	..	..	143,925	21
22	Whangarei	..	107,360	36,565	131,004	..	..	131,004	..	..	..	..	131,004	22
			128,036	2,968	26,958,140	297,407	3,721,429	10,365,312	3,977,896	8,596,096	..	..	26,958,140	
	GRAND-TOTALS	..	6,467,080	16,271,009	42,834,215	8,490,292	217,274,746	148,522,130	62,290,250	22,635,382	..	..	459,212,800	

NOTES: ¹Includes Southland Electric Power Supply.
²Included with the Electricity Division.

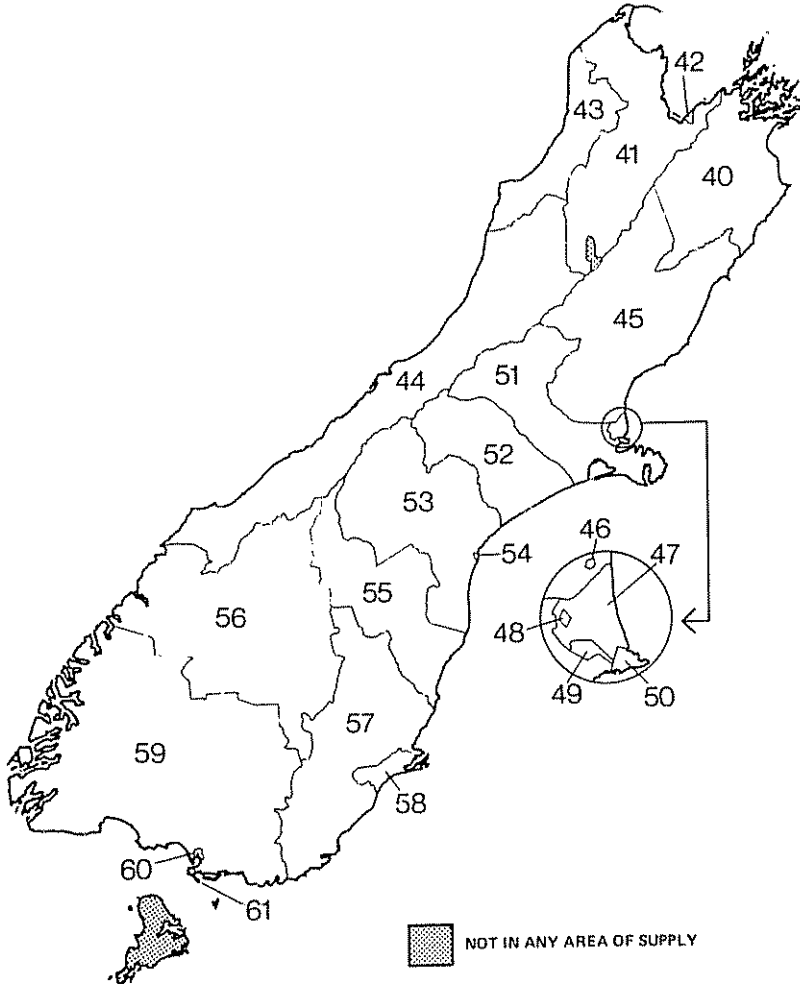
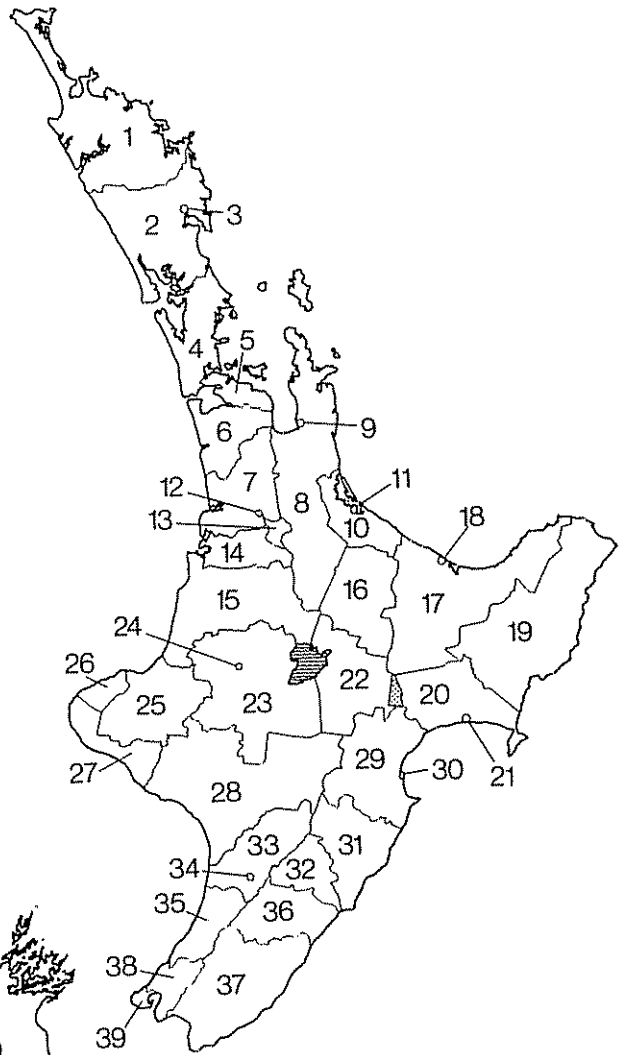
³As for note 6, Table V, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board.

FIGURE 1: SUPPLY AUTHORITY LICENSED AREAS AS AT 31 MARCH 1982

NORTH ISLAND

	No.	km ²
Auckland EPB ...	5	935
Bay of Islands EPB	1	6 830
Bay of Plenty EPB	17	8 369
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
Tararua 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
Waitomo 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 ²
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	10 615
Nelson 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 1982

No.	Supply Authorities	Source of Supply ¹	Capacity of Generating Plant ²			Static Head, in Metres	Voltages			Distribution Substations		Circuit-Kilometres of Lines	No.	
			Hydro	Steam	Oil/Gas		Total Capacity	Generation	Transmission	Distribution ³	Number			kVA
			kW			kW			kW					
Electricity Division³														
1	North Island	...	G.	...	...	...	3 273 000	...	...	...	...	...	...
	Atarupui	...	...	156 000	...	...	...	...	...	...	...	...	...
	Araratia	...	...	84 000	...	...	...	...	...	...	...	...	...
	Atiamuri	...	...	81 000	...	...	...	...	...	...	...	...	...
	Karapiro	...	...	90 000	...	...	...	...	...	...	...	...	...
	Mangahao	...	...	20 000	...	...	...	...	...	...	...	...	...
	Maratai	...	...	360 000	...	...	...	...	...	...	...	...	...
	Marsden	...	...	230 000	...	...	...	...	...	...	...	...	...
	Matahina	...	...	72 000	...	...	...	...	...	...	...	...	...
	Meremere	...	...	170 000	...	...	...	...	...	...	...	...	...
	New Plymouth	...	...	600 000	...	...	...	...	...	...	...	...	...
	Ohakuri	...	...	112 000	...	...	...	...	...	...	...	...	...
	Otaihuhu	...	...	...	...	259 000	...	...	...	...	...	...	...
	Stratford	...	...	...	...	208 000	...	...	...	...	...	...	...
	Tokaanu	...	...	200 000	...	...	...	...	...	...	...	...	...
	Waikaremoana	...	...	124 000	...	...	...	...	...	...	...	...	...
	Waipapa	...	...	51 000	...	...	...	...	...	...	...	...	...
	Wairakei	...	...	140 000	...	...	...	...	...	...	...	...	...
	Whakamaru	...	...	100 000	...	...	...	...	...	...	...	...	...
	Whirinaki	...	...	...	...	216 000	...	...	...	...	...	...	...
2	South Island	...	G.	...	...	...	2 344 960	...	...	...	...	...	...
	Arnold ...	...	...	3 060	...	...	...	...	...	...	...	...	...
	Aviemore	...	...	240 000	...	...	...	...	...	...	...	...	...
	Benmore	...	...	540 000	...	...	...	...	...	...	...	...	...
	Cobb ...	...	...	32 000	...	...	...	...	...	...	...	...	...
	Coleridge	...	...	34 500	...	...	...	...	...	...	...	...	...
	Highbank	...	...	25 200	...	...	...	...	...	...	...	...	...
	Manapouri	...	...	590 000	...	...	...	...	...	...	...	...	...
	Monowai	...	...	6 000	...	...	...	...	...	...	...	...	...
	Ohau "A"	...	...	264 000	...	...	...	...	...	...	...	...	...
	Roxburgh	...	...	320 000	...	...	...	...	...	...	...	...	...
	Tekapo "A"	...	...	25 200	...	...	...	...	...	...	...	...	...
	Tekapo "B"	...	...	160 000	...	...	...	...	...	...	...	...	...
	Waitaki...	...	...	105 000	...	...	...	...	...	...	...	...	...
			...	3 794 960	1 140 000	683 000	5 617 960	...	...	7 853	12 622 484	24 530 ⁷	...

500 000 D.C.
220 000
110 000
50 000

500 000 D.C.
220 000
110 000
66 000
3 300

33 000; 11 000; 6 600; 6 350 ...

7 664 3 963 134 15 178⁷

TABLE IV.—STATISTICS OF GENERATING PLANT, SYSTEM VOLTAGES, CIRCUIT-KILOMETRES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1982—continued

No.	Supply Authorities	Source of Supply ¹	Capacity of Generating Plant ²			Static Head, in Metres	Voltages			Distribution Substations		Circuit-Kilometres of Lines	No.	
			Hydro	Steam	Oil/Gas		Total Capacity	Generation	Transmission	Distribution ³	Number			kVA
			kW	kW	kW	kV								
Government Department Southland ⁴			G.	6 000	...	6 000	47	...	66 000	33 000; 11 000; 6 600; 6 600; 6 350	7 556	417 984	7 828	1
<i>Power Boards and Related Authorities</i>														
1	Ashburton	G.	...	...	...	...	...	...	110 000	33 000; 22 000; 11 000; 6 600	3 210	177 359	3 047	1
2	Auckland	G.	...	...	...	...	...	...	110 000	33 000; 22 000; 11 000; 6 350	6 611	3 751 714	7 135	2
3	Bay of Islands	G.	...	...	...	...	...	...	110 000	33 000; 11 000; 6 350	2 237	198 654	4 066	3
4	Bay of Plenty	I. & G.	25 375	...	...	25 375	9, 38	415; 11 000	...	...	1 993	223 499	2 006	4
5	Buller	I. & G.	...	...	...	297	...	3 300	...	...	378	32 678	6 889	5
6	Cambridge	G.	...	...	...	...	...	...	11 000	11 000	811	45 490	1 013	6
7	Central Canterbury	G.	...	...	...	...	...	...	33 000; 11 000	...	4 155	415 115	3 295	7
8	Central Hawke's Bay	G.	...	...	...	...	...	...	33 000; 11 000	...	1 484	73 686	2 128	8
9	Central Waikato	G.	...	...	...	...	...	...	33 000; 11 000	...	2 844	400 533	4 734	9
10	Dannevirke	G.	...	...	...	...	...	...	11 000; 6 600	...	1 131	48 444	1 021	10
11	Egmont	I. & G.	360	...	...	360	15	6 600	...	...	1 427	74 655	1 751	11
12	Franklin	G.	...	...	...	...	...	...	33 000; 11 000	...	1 715	183 417	2 755	12
13	Hawke's Bay	G.	...	...	...	...	...	...	33 000; 11 000	...	2 310	562 636	4 403	13
14	Horowhenua	G.	...	...	...	...	...	...	33 000; 11 000; 3 300	...	1 694	213 256	1 651	14
15	Hutt Valley	G.	...	...	...	...	...	...	33 000; 11 000	...	2 388	964 059	2 127	15
16	King Country	I. & G.	6 000	...	...	6 000	67	6 600	33 000	33 000; 11 000; 6 600	1 416	99 383	2 323	16
17	Manawatu-Oroua	I. & G.	1 000	...	...	1 330	30	6 600	33 000	33 000; 11 000; 6 600	2 077	317 238	2 532	17
18	Marlborough	I. & G.	...	...	...	...	...	...	33 000	33 000; 11 000; 6 600	1 977	178 384	2 527	18
19	North Auckland	G.	...	...	...	...	...	...	...	33 000; 11 000	3 829	386 016	4 486	19
20	North Canterbury	G.	...	...	...	...	...	...	...	33 000; 11 000	3 847	161 799	4 196	20
21	Otago	G.	...	...	...	...	...	...	33 000; 22 000; 11 000; 6 600; 6 350	...	3 201	178 063	4 458	21
22	Otago Central	I. & G.	12 235	12 235	...	...	309; 301; 300; 244; 125; 117; 88; 65	6 600; 3 300; 2 400; 415; 400	33 000	33 000; 11 000; 6 600	1 694	86 100	2 277	22
23	Poverty Bay	G.	...	...	...	...	...	...	50 000; 11 000	...	2 247	173 461	2 742	23
24	Rotorna	G.	...	...	...	...	...	...	33 000; 11 000	...	1 507	107 090	1 715	24
25	South Canterbury	G.	...	...	...	...	...	...	33 000; 22 000; 11 000; 6 350	...	3 699	215 697	3 263	25
26	Taranaki	I. & G.	4 800	4 800	...	...	100	6 600	33 000	33 000; 11 000; 6 600	1 722	156 789	2 432	26
27	Tararua	I. & G.	200	200	...	...	115	400	33 000	33 000; 11 000; 6 600; 3 300	1 553	42 577	1 382	27
28	Tasman	I. & G.	43 800 ^b	43 800 ^b	...	...	25; 34; 85; 151	3 300; 11 000	33 000	33 000; 11 000; 6 600	2 928	268 291	3 140	28
29	Tauranga	I. & G.	...	...	...	...	...	...	...	33 000; 11 000; 6 600	1 223	322 277	3 442 ^c	29
30	Te Awamutu	G.	...	...	...	...	...	...	11 000	11 000	...	63 848	1 226	30
31	Thames Valley	G.	770	770	...	...	88; 131	3 300	3 300	66 000; 33 000; 11 000	4 439	460 370	6 810	31
32	Waikato	I. & G.	...	...	...	...	...	...	11 000	33 000; 11 000; 3 300	2 809	220 273	2 916	32
33	Waikato	I. & G.	...	...	...	...	...	...	33 000; 11 000	...	669	22 743	1 030	33
34	Waikato	I. & G.	...	...	...	...	...	...	11 000	...	1 762	157 027	1 803	34
35	Waitemata	I. & G.	6 000	6 000	...	6 000	...	11 000	110 000	33 000; 11 000	6 956	1 304 699	8 528	35
36	Waitomo	I. & G.	6 478	6 478	...	...	20; 41	11 000; 3 300; 500; 400	33 000	33 000; 22 000; 11 000; 6 600	2 429	128 348	2 832	36
37	Wanganui-Rangitikei	I. & G.	346	346	...	...	116	6 600; 3 300	66 000	33 000; 22 000; 11 000; 6 600	3 091	233 036	4 113	37
38	West Coast	I. & G.	13 362	13 362	...	266	13; 33; 33; 44; 46; 55; 55; 76; 78; 198	400; 415; 2 300; 3 300; 11 000	66 000	33 000; 11 000	1 204	70 028	1 741	38
			114 680	114 680	...	7 893	122 573	...	...	...	94 984	12 718 732	113 724	

TABLE V—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION, FOR YEAR ENDED 31 MARCH 1982

No.	Supply Authorities	Maximum Load	Annual Load Factor	Electricity										kWh Sold (Average) Per Head of Population ¹	No.		
				Generated			Purchased	Generated and Purchased		Sold		Percentage Non-Productive ²	%			kWh	
				Hydro	Steam	Oil/Gas		kWh	kWh	kWh	kWh						kWh
kW	%	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh					
1	Electricity Division ^{1,11}	4 066 200	62.48	18 828 897 400	3 093 015 200 ⁹	316 904 700	15 244 523	22 254 061 823	16 305 642 977	206 499 493	3 852 378 582	1 889 540 771	8.49	...	1		
1	Government Department	142 228	48.79	36 630 720	...	...	571 245 663	607 876 383	218 874 490	189 112 990	162 692 612	37 196 291	9.56	4 997	1
1	Southland ¹	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<i>Power Boards and Related Authorities</i>																	
1	Ashburton	25 882	65.61	...	...	...	148 750 040	148 750 040	...	77 403 120	61 835 083	9 511 837	6.39	5 570	1
2	Auckland	605 047	55.10	...	...	...	2 920 384 182	2 920 384 182	...	1 185 829 680	1 590 639 987	143 894 505	4.93	5 521	2
3	Bay of Islands	30 403	67.31	...	...	...	179 280 573	179 280 573	...	86 630 460	76 391 322	16 238 791	9.06	3 748	3
4	Bay of Plenty	66 783	73.45	146 168 000	...	...	283 319 186	439 097 186	37 279 923	81 630 438	295 764 757	14 997 068	3.82	9 803	4
5	Buller	9 455	85.07	...	2.235	...	70 457 706	70 459 941	...	15 608 498	51 372 956	3 478 487	4.94	8 022	5		
6	Cambridge	13 446	59.75	...	...	...	70 382 070	70 382 070	...	33 470 060	30 027 714	6 884 296	9.78	4 739	6
7	Central Canterbury	69 973	38.41	...	...	...	358 925 972	358 925 972	425 060	128 023 489	204 685 482	24 891 641	6.96	7 328	7
8	Central Hawke's Bay	12 755	62.08	...	...	...	69 360 376	69 360 376	...	43 776 610	18 633 885	6 949 880	10.02	4 801	8
9	Central Waikato	83 081	57.39	...	...	...	417 862 313	417 862 313	50 530	221 808 700	171 352 862	24 450 231	5.85	3 657	9
10	Dannevirke	10 601	65.53	...	...	...	60 856 818	60 856 818	...	35 508 038	21 034 018	4 314 762	7.09	4 692	10
11	Egmont	26 373	65.16	1 591 248	...	...	148 953 244	150 544 492	...	65 337 517	76 202 695	9 004 280	5.98	5 777	11
12	Franklin	35 223	61.50	...	...	...	109 447 818	109 447 818	340 144	103 933 539	69 890 101	18 284 034	9.57	3 987	12
13	Hawke's Bay	159 224	60.98	...	...	...	850 565 848	850 565 848	67 850 000	265 957 741	482 998 117	33 760 610	4.31	7 293	13
14	Horowhenua	47 927	56.28	...	...	...	316 260 978	316 260 978	...	143 285 453	71 977 682	21 027 640	8.90	4 001	14
15	Hutt Valley	213 503	49.80	...	...	...	931 388 357	931 388 357	...	533 856 673	351 130 670	46 401 014	4.98	4 284	15
16	King Country	49 004	53.56	31 149 200	...	...	229 906 901	229 906 901	13 287 210	46 723 326	164 472 053	5 424 312	2.50	12 034	16
17	Manawatu-Oroua	84 928	59.60	6 879 468	...	5 630	443 423 883	443 423 883	173 462 343	123 089 102	134 033 149	12 837 289	4.76	5 092	17		
18	Marborough	27 293	63.13	...	...	...	140 919 319	140 919 319	...	84 864 050	57 316 841	13 758 438	9.12	4 157	18
19	North Auckland	59 073	73.72	...	...	...	381 497 851	381 497 851	77 305 909	123 264 640	161 391 682	19 535 620	6.42	5 361	19
20	North Canterbury	35 347	62.85	...	...	...	194 622 021	194 622 021	18 742 900	86 068 823	75 648 264	14 162 034	8.05	4 961	20
21	Otago	30 050	58.77	61 999 265	...	...	154 690 460	154 690 460	636 800	84 007 868	55 695 756	14 986 836	9.69	5 500	21
22	Otago Central	28 543	60.17	...	...	...	88 449 211	88 449 211	...	81 126 171	54 281 663	14 403 862	9.61	6 369	22
23	Poverty Bay	41 964	54.38	...	...	...	199 899 414	199 899 414	...	109 695 954	73 481 335	16 722 125	8.37	3 965	23
24	Rotorua	49 930	57.09	...	...	...	349 699 372	349 699 372	119 089	129 009 456	100 325 306	20 245 521	8.11	3 894	24
25	South Canterbury	61 086	61.21	...	...	...	327 525 498	327 525 498	105 154 080	123 861 485	83 223 555	15 286 378	6.87	5 139	25
26	Taranaki	28 415	66.22	23 689 005	...	...	141 135 661	141 135 661	...	74 509 533	75 795 763	14 519 370	8.81	5 407	26
27	Taranaki	7 914	63.45	...	...	...	43 985 264	43 985 264	...	23 651 379	15 579 662	4 753 723	10.81	4 966	27
28	Tasman	63 468	62.13	...	...	...	343 388 922	343 388 922	84 213	132 987 721	104 056 527	10 844 997	4.37	4 770	28
29	Tauranga	72 110	55.60	...	...	...	214 046 107	214 046 107	50 950 359	175 434 186	102 036 446	22 821 306	7.60	3 886	29
30	Te Awamutu	17 591	62.16	...	...	...	95 790 040	95 790 040	16 990	53 191 610	35 767 034	6 814 406	7.12	4 298	30
31	Thames Valley	169 612	68.35	4 969 365	...	...	1 015 585 345	1 015 585 345	28 250 230	310 340 663	735 377 030	39 617 472	4.01	10 709	31
32	Waikato	36 742	58.20	...	...	...	182 362 086	182 362 086	...	64 479 247	64 479 247	12 592 764	6.97	4 697	32
33	Waikato	10 264	54.76	...	...	...	49 232 838	49 232 838	19 623 365	14 319 560	13 052 806	7 340 107	7.90	4 710	33
34	Waikato	24 684	59.13	...	...	...	127 856 944	127 856 944	...	66 473 836	51 926 825	7 552 343	5.91	5 444	34
35	Waitemata	247 550	48.33	...	...	118 100	1 047 901 735	1 048 019 835	...	677 236 162	303 334 888	65 448 785	6.24	3 351	35
36	Waitemata	24 102	56.50	23 795 700	...	...	95 496 473	95 496 473	...	54 562 683	53 202 886	11 893 604	9.97	4 878	36
37	Wanganui-Rangitikei	69 403	59.19	64 009 026	...	...	358 240 600	358 240 600	602 253	170 362 306	164 162 721	25 406 921	7.06	4 375	37
38	West Coast	22 321	59.53	...	...	...	52 392 521	52 392 521	...	43 834 291	59 959 218	12 005 785	10.37	4 086	38
...	...	...	...	...	...	...	...	...	691 660 975	5 822 387 871	6 311 462 992	768 057 324	5.95	5 146	...

TABLE V—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION, FOR YEAR ENDED 31 MARCH 1982—continued

No.	Supply Authorities	Maximum Load	Annual Load Factor	Electricity										kWh Sold (Average) Per Head of Population ¹
				Generated			Generated and Purchased	In Bulk for Resale	Sold		Non-productive ²	Percentage Non-productive ²	kWh	
				Hydro	Steam	Oil/Gas			Retail to Consumers					
									Domestic	Non-domestic				
1	Territorial Authorities			kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	%	kWh	
2	Bluff	3 272	52.48	15 041 490	15 041 490	20 550	6 053 561	7 305 701	1 682 228	11.18	5 003	1		
3	Christchurch	302 619	46.43	1 230 909 639	1 230 909 639	20 550	751 631 652	473 604 615	55 652 822	4.52	4 850	2		
4	Dunedin	153 900	49.90	672 723 550	672 723 550	...	381 823 400	262 237 612	28 662 638	4.26	5 882	3		
5	Hamilton	32 469	42.02	119 519 584	119 519 584	...	45 722 705	66 140 888	7 655 991	6.41	5 062	4		
6	Hastings	8 882	50.95	39 639 050	39 639 050	...	21 494 165	17 188 947	955 938	2.41	5 731	5		
7	Invercargill	46 500	30.04	203 833 000	203 833 000	7 561 400	114 652 864	70 034 872	11 583 864	5.90	4 810	6		
8	Kaipara	4 064	52.65	18 742 900	18 742 900	...	12 177 260	5 917 730	647 910	3.46	3 951	7		
9	Lytelton	3 264	51.39	14 694 400	14 694 400	...	8 121 760	5 435 453	1 137 187	7.74	5 078	8		
10	Napier	14 850	52.16	67 850 000	67 850 000	49 400	28 560 335	36 394 081	2 895 584	4.27	5 575	9		
11	Nelson	20 928	53.22	97 563 890	97 563 890	...	46 187 312	45 299 560	6 027 618	6.18	5 446	10		
12	New Plymouth ¹	45 130	60.18	217 914 515	217 914 515	...	121 122 401	101 454 885	15 325 229	6.44	4 533	11		
13	Palmerston North	37 510	52.80	173 481 050	173 481 050	...	100 917 117	61 732 854	10 831 079	6.24	3 938	12		
14	Riccarton	10 960	44.70	42 917 120	42 917 120	1 770	21 816 132	18 914 928	2 186 060	5.09	6 181	13		
15	Tauramaru	5 101	42.88	13 287 210	13 287 210	...	10 629 076	7 940 121	589 283	3.08	4 574	14		
16	Taupo	22 260	56.70	86 035 320	86 035 320	...	44 477 088	59 753 653	6 339 399	5.73	5 956	15		
17	Tauranga	16 200	33.86	44 856 129	44 856 129	...	15 755 410	29 556 118	2 744 782	5.71	8 454	16		
18	Thames-Coromandel	7 610	42.20	28 130 800	28 130 800	...	14 073 145	13 047 599	1 010 056	3.59	4 417	17		
19	Timaru	20 704	57.98	108 154 080	108 154 080	...	55 477 910	44 114 154	5 562 016	5.29	5 427	18		
20	Wairoa	4 008	55.89	19 623 365	19 623 365	...	12 269 530	5 645 430	1 788 385	8.71	3 299	19		
21	Wellington	165 797	50.94	739 913 576	739 913 576	...	365 777 230	344 309 246	29 827 080	4.03	6 148	20		
22	Whakatane	8 448	50.38	37 279 923	37 279 923	...	21 644 804	12 644 804	2 977 331	7.99	3 692	21		
22	Whangarei	16 387	53.83	77 267 209	77 267 209	...	35 638 646	36 856 752	4 771 811	6.18	4 215	22		
				206 794 341	4 119 973 941	7 633 120	2 236 036 527	1 675 530 003	200 774 291	4.88	5 193			
Sundry Private Plants				18 707	3 913 160 893	13 789 613	8 264 923 891	11 839 371 577	2 858 372 386	12.45 ¹⁰				
GRAND-TOTALS				22 962 667 854										

Electricity generated per head of total population: 7 198 kWh. Electricity generated per head of mean population: 7 263 kWh. Electricity sold retail per head of total population: 6 302 kWh. Electricity sold retail per head of mean population: 6 358 kWh. Maximum load for public supply: 4 084 000 kW. Annual load factor, New Zealand: 64.18 percent.

NOTES: ¹Includes own use, losses on transmission and distribution, also losses on bulk supply to other supply authorities. ²Percentage calculated on generated plus purchased less bulk for resale, except the Electricity Division. ³Shown separately but included with the Electricity Division. ⁴Includes Southland Electric Power Supply. ⁵Tauranga Electric Power Board and Tauranga City Council jointly purchase from the Electricity Division as the Tauranga Joint Generation Committee, but for the purpose of these statistics, the transaction has been treated as a bulk sale to Tauranga E.P.B., then part in bulk for resale to Tauranga C.C. ⁶Lloyd Mandeno, Lower Mangapapa, Ruahiri, and McLaren Falls (from 1.6.81) Stations of the T.J.G.C. ⁷Includes 1 791 881 kWh generated at McLaren Falls Station before transfer to the T.J.G.C. on 1.6.81. ⁸Includes 16 441 000 kWh generated at Hunly Power Station during commissioning tests. ⁹Percentage of total kWh generated. ¹⁰During the period 30 April 1981 and 29 January 1982, all figures relating to sales of electricity by the Electricity Division of the Ministry of Energy to the New Plymouth City Council were in error by varying amounts due to incorrect connections on one of the M.O.E. revenue meters. In these statistics all energy and demand values have been "corrected" by the estimated errors, but no revenue values have been altered as only partial recovery of the revenue shortfall is possible under the bulk supply agreement between the two parties. This partial recovery will be made in the year ending 31 March 1983. It is estimated that the revenue to M.O.E. and hence cost to N.P.C.C. is low by approximately \$458,000, only a portion of which will be recovered.

TABLE VI (PART I)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1982—continued

No.	Supply Authorities	Domestic						Commercial						Farming						
		Electricity Consumed		Income		per kWh Sold		Electricity Consumed		Income		per kWh Sold		Electricity Consumed		Income		per kWh Sold		
		kWh	\$	Number	Average kWh per Consumer	kWh	\$	Number	Average kWh per Consumer	kWh	\$	Number	Average kWh per Consumer	kWh	\$	Number	Average kWh per Consumer	kWh	\$	Number	Average kWh per Consumer
1	Territorial Authorities	6 053 561	273 074	4 511	918	6 594	5 912 518	378 224	6 397	188	31 450	173 036	2 708 771	627	138	19 629	2 708 771	627	138	19 629
2	Bluff	751 631 652	28 628 197	3 809	91 129	8 248	252 132 850	20 682 845	8 203	8 821	28 583	8 821	2 723 252	8 866	546	4 988	2 723 252	8 866	546	4 988
3	Christchurch	381 833 400	14 038 100	3 676	40 029	9 329	148 627 866	9 457 668	6 363	5 440	27 321	183 273	1 441 967	4 041	38	37 946	1 441 967	4 041	38	37 946
4	Dunedin	45 722 705	2 395 130	5 233	9 285	4 924	47 613 186	4 062 005	8 531	2 919	16 311	58 263	7 072	5	1 414	58 263	7 072	5	1 414	
5	Hamilton	21 494 165	835 443	3 887	2 193	9 801	6 513 810	458 136	7 033	90	72 376	58 263	1 441 967	4 041	38	37 946	1 441 967	4 041	38	37 946
6	Heathcote	114 652 864	4 768 272	4 159	13 722	8 355	53 507 389	3 622 792	6 771	1 709	31 309	627	7 072	8 866	5	1 414	7 072	8 866	5	1 414
7	Invercargill	12 171 260	563 877	4 631	1 591	7 654	2 871 370	209 369	7 292	132	21 753	627	7 072	8 866	5	1 414	7 072	8 866	5	1 414
8	Kaipoi	12 171 260	563 877	4 631	1 591	7 654	2 871 370	209 369	7 292	132	21 753	627	7 072	8 866	5	1 414	7 072	8 866	5	1 414
9	Lytelton	12 171 260	563 877	4 631	1 591	7 654	2 871 370	209 369	7 292	132	21 753	627	7 072	8 866	5	1 414	7 072	8 866	5	1 414
10	Napier	28 560 335	1 278 522	4 466	4 318	6 614	25 420 929	2 096 259	8 246	1 088	23 365	17 574	305 620	5 750	35	8 732	305 620	5 750	35	8 732
11	Nelson	46 187 312	1 594 339	3 452	5 856	7 887	26 779 906	2 397 964	8 954	1 163	23 027	17 574	305 620	5 750	35	8 732	305 620	5 750	35	8 732
12	New Plymouth	121 122 401	4 656 297	3 844	17 800	6 805	36 508 021	2 849 966	7 806	2 115	17 261	911 915	12 812 218	7 118	1 140	11 239	12 812 218	7 118	1 140	11 239
13	Palmerston North	100 917 117	3 814 038	3 779	14 788	6 824	51 882 849	3 870 521	7 463	2 453	21 143	1 956	94 100	8 455	9	10 456	94 100	8 455	9	10 456
14	Rangiora	70 816 132	2 744 505	3 550	2 838	7 687	15 034 819	1 267 697	8 432	498	30 190	2 456	24 805	9 901	20	1 240	24 805	9 901	20	1 240
15	Tauranga	10 629 076	373 210	3 502	1 284	8 278	6 713 105	466 863	6 955	365	18 392	2 456	24 805	9 901	20	1 240	24 805	9 901	20	1 240
16	Taupo	44 477 088	1 891 374	4 252	6 697	6 641	23 937 210	1 783 070	7 449	1 036	23 105	123 343	1 281 895	9 622	335	3 827	1 281 895	9 622	335	3 827
17	Tauranga	15 755 410	472 188	2 997	2 415	6 524	21 651 183	1 331 152	6 148	1 200	18 043	123 343	1 281 895	9 622	335	3 827	1 281 895	9 622	335	3 827
18	Thames-Coromandel	14 073 145	654 789	4 653	2 333	6 032	5 866 465	437 119	7 451	440	13 333	123 343	1 281 895	9 622	335	3 827	1 281 895	9 622	335	3 827
19	Wharara	55 277 910	2 135 578	3 849	7 112	7 801	29 753 345	1 913 458	6 431	1 308	22 747	123 343	1 281 895	9 622	335	3 827	1 281 895	9 622	335	3 827
20	Wharara	12 269 550	552 179	4 500	1 681	7 299	5 043 380	398 715	7 806	255	19 778	4 474	51 808	8 636	19	2 727	51 808	8 636	19	2 727
21	Wellington	365 777 250	11 832 870	3 235	47 140	7 759	288 531 642	19 700 482	6 828	7 945	36 316	4 474	51 808	8 636	19	2 727	51 808	8 636	19	2 727
22	Whakatane	21 657 788	987 070	4 558	3 049	7 103	10 767 115	895 849	8 320	603	17 856	2 161	22 066	9 793	6	3 678	22 066	9 793	6	3 678
23	Whangarei	55 838 646	1 600 888	4 492	6 049	5 892	28 271 972	2 337 244	8 267	1 336	21 162	2 161	22 066	9 793	6	3 678	22 066	9 793	6	3 678
GRAND-TOTALS		2 236 036 527	84 449 216	3 777	284 254	7 866	1 097 322 869	80 920 402	7 374	41 255	26 599	1 485 078	21 473 574	6 916	2 291	9 373	21 473 574	6 916	2 291	9 373
GRAND-TOTALS		8 264 923 891	341 880 200	4 137	1 142 024	7 237	3 426 650 291	235 477 102	6 872	144 801	23 665	31 736 173	476 425 515	6 661	78 615	6 060	31 736 173	6 661	78 615	6 060

(for notes see page 25)

TABLE VI (PART II)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1982

No.	Supply Authorities	Industrial						Non-domestic						Total Retail Sales					
		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			
		kWh	\$	c	Number	kWh	kWh	\$	c	Number	kWh	kWh	\$	c	Number	kWh			
1	Electricity Division ¹	3 763 027 174	63,880,929	1.698	199	18 909 684	3 852 378 582	1.816	7 655	503 250	4 058 878 075	78,875,402	1.943	32 540	124 735				
	Government Department																		
	Southland ¹	94 911 204	5,850,239	6.164	192	494 329	162 692 612	6.601	7 623	21 342	351 805 602	19,454,100	5.530	30 782	11 429				
	Power Boards and Related Authorities																		
1	Ashburton	12 297 340	811,064	6.595	21	585 588	61 835 083	3,788,339	3 438	17 986	139 238 203	7,443,767	5.346	12 958	10 745				
2	Auckland	644 549 040	24,864,022	3.858	1 437	448 538	1 590 659 987	75,531,501	26 652	59 683	2 776 489 677	119,557,641	4.306	204 011	18 610				
3	Bay of Islands	34 319 264	1,847,447	5.380	43	798 588	76 391 322	4,954,089	3 934	19 418	163 021 782	8,770,629	5.380	17 044	2 565				
4	Bay of Plenty	258 622 762	8,214,465	3.176	65	3 978 812	295 764 757	11,136,899	3 798	68 680	377 415 195	15,326,146	4.061	14 937	25 597				
5	Buller	43 866 085	1,405,795	3.205	59	743 493	51 372 956	1,987,608	748	68 680	66 981 454	2,689,317	3.970	5 812	17 571				
6	Cambridge	16 458 500	875,844	5.322	44	374 057	30 027 714	1,935,353	1 561	19 236	63 487 774	3,389,213	5.338	6 052	10 492				
7	Central Canterbury	109 756 750	6,132,954	5.588	400	274 392	204 685 482	11,353,798	5 194	39 408	332 708 971	16,701,933	5.020	21 440	15 318				
8	Central Hawke's Bay	7 076 474	446,971	6.316	50	141 529	18 633 889	1,362,399	1 677	11 111	62 410 499	3,265,205	5.232	6 700	8 315				
9	Central Waikato	76 218 960	4,336,341	5.689	212	359 523	171 552 862	11,073,454	6 408	26 740	393 161 562	22,905,097	3.626	40 936	9 600				
10	Dennevirke	8 284 706	591,607	7.141	39	212 428	21 034 018	1,562,238	1 544	13 623	56 542 056	3,096,202	5.476	5 940	9 519				
11	Egmont	42 543 922	2,200,119	5.171	70	607 770	76 202 695	4,430,412	3 317	22 973	141 540 212	7,037,292	4.972	11 792	12 003				
12	Franklin	20 858 511	1,192,836	5.719	215	97 016	69 890 101	4,299,065	6 267	11 152	173 823 640	8,799,923	5.065	20 782	8 396				
13	Hawke's Bay	395 133 907	15,028,751	3.803	231	1 710 536	482 998 117	21,373,330	6 070	79 571	748 955 838	31,656,976	4.227	60 235	19 915				
14	Honowhenua	16 807 188	1,360,122	8.093	128	131 306	71 977 682	5,903,392	8 200	30 633	215 263 135	13,053,349	6.064	27 660	17 782				
15	Hutt Valley	179 720 189	12,459,905	6.933	509	353 085	351 130 670	25,747,891	6 970	50 377	884 987 343	46,755,928	5.283	74 836	11 626				
16	King Country	140 885 430	3,909,101	2.775	34	4 143 689	164 472 053	5,117,878	1 924	85 484	211 195 379	6,626,162	3.137	8 355	25 278				
17	Manawatu-Oroua	78 133 492	4,905,153	6.278	231	338 240	134 035 149	8,915,781	4 794	27 959	257 124 251	13,801,298	3.368	21 258	12 107				
18	Marlborough	11 741 388	820,034	6.984	100	117 414	52 316 841	3,784,848	3 059	17 103	137 180 891	7,538,265	5.510	14 921	9 194				
19	North Auckland	110 639 145	4,239,069	3.831	115	962 080	161 391 682	7,610,164	5 551	29 074	284 656 322	13,112,591	4.606	24 873	11 444				
20	North Canterbury	37 540 510	1,743,178	4.643	60	625 675	75 648 264	4,691,200	3 904	19 377	161 717 087	9,044,528	5.393	16 092	10 050				
21	Otago	169,976	1,699,676	7.047	22	1 096 353	55 695 756	3,726,360	3 796	14 672	139 703 624	7,850,884	5.620	14 430	9 688				
22	Otago Central	4 394 463	260,266	6.278	30	146 482	54 281 663 ³	2,876,829	3 000	23 829	135 407 834 ⁴	6,001,942	4.432	11 732	11 942				
23	Poverty Bay	40 880 705	2,467,112	6.035	94	434 901	73 481 315	5,306,713	4 825	15 229	183 177 289	10,672,090	5.826	20 487	8 941				
24	Rotorua	26 462 499	1,571,884	5.940	118	224 258	100 325 306	6,742,065	4 031	24 888	229 334 762	12,183,350	5.312	22 828	10 046				
25	South Canterbury	53 552 130	3,038,542	5.674	30	1 785 071	83 223 555	5,326,959	2 223	37 437	207 085 040	10,194,839	4.923	16 934	12 229				
26	Tairānaki	44 111 327	2,805,205	6.359	165	267 341	75 795 763	4,952,913	3 751	20 207	150 305 296	7,734,476	5.146	13 191	11 395				
27	Tairānaki	8 061 212	654,446	8.118	33	244 279	15 579 662	1,252,746	1 465	10 635	39 231 541	2,350,007	3.990	4 656	8 426				
28	Tairānaki	64 978 516	3,804,039	5.854	663	98 007	104 056 527	7,164,070	4 912	21 184	237 044 248	12,838,908	5.416	22 644	10 468				
29	Tairānaki	44 219 976	2,376,449	5.374	117	377 949	102 036 446	6,845,259	6 709	17 006	277 470 632	14,873,990	5.360	32 612	8 508				
30	Te Awamutu	6 342 620	384,762	6.066	43	147 503	35 767 034	2,219,041	5 237	11 049	88 958 644	4,410,969	4.958	10 128	8 783				
31	Thames Valley	624 480 499	19,981,883	3.200	289	2 160 832	735 377 030	27,544,288	3 746	10 471	947 717 693	37,156,903	3.919	45 079	21 023				
32	Wairarapa	24 689 643	1,515,593	6.139	182	135 657	64 479 247	4,306,138	6 678	16 973	174 738 887	9,673,440	5.536	17 291	10 106				
33	Wairarapa	10 070 515	563,787	5.598	20	503 526	13 052 806	830,547	3 979	13 333	27 272 366	1,516,420	3.560	3 167	8 611				
34	Waikato	26 708 021	1,595,246	5.973	84	317 182	305 829 825	3,718,021	6 907	25 609	120 303 661	6,617,709	3.497	10 631	11 316				
35	Waitemata	118 740 697	7,839,191	6.602	1 068	1 111 960	53 324 888	22,742,075	7 448	14 152	982 571 050	54,328,817	5.529	121 058	8 117				
36	Waitemata	29 645 733	1,669,043	5.630	61	485 996	53 202 886	3,423,816	3 228	15 080	107 398 569	5,727,416	5.333	10 453	10 274				
37	Wanganui-Rangitikei	87 266 075	4,044,958	4.634	132	611 107	164 162 721	8,931,071	5 440	25 264	334 428 927	16,180,941	4.838	31 327	10 675				
38	West Coast	29 067 250	2,277,075	7.835	157	185 142	59 959 218	5,159,699	2 325	25 789	103 793 509	7,304,616	4.730	10 508	9 878				
		3 513 265 897	155,933,935	4.438	7 371	476 634	6 311 462 992	339,847,149	5 385	180 815	34 906 12 133 850 863	588,353,559	4.849	1 013 700	11 970				

TABLE VI (PART II)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1982—continued

No.	Supply Authorities	Industrial						Non-domestic						Total Retail Sales					
		Electricity Consumed		Income		Average kWh per Consumer		Electricity Consumed		Income		Average kWh per Consumer		Electricity Consumed		Income		Average kWh per Consumer	
		kWh	\$	Consumers	per kWh Sold	kWh	Consumers	kWh	Consumers	\$	per kWh Sold	kWh	Consumers	kWh	Consumers	\$	per kWh Sold	kWh	Consumers
<i>Territorial Authorities</i>																			
1	Bluff	1 254 480	60 145	1	4 794	1 254 480	7 305 701	443 917	6 076	36 167	13 359 262	716 991	1 120	5 367	11 928				
2	Christchurch	153 451 796	9 511 918	926	6 199	423 604 615	30 990 046	30 990 046	7 316	42 810	1 175 236 267	59 618 243	101 024	5 073	11 633				
3	Dunedin	5 371 229	5 098	380	277 261	262 237 612	15 244 026	15 244 026	8 813	41 116	644 061 012	29 280 126	47 307	4 546	13 614				
4	Hamilton	17 253 282	1 196 379	139	124 124	66 140 888	5 312 019	5 312 019	8 031	21 502	111 863 593	7 704 149	12 361	6 887	9 050				
5	Heathcote	8 892 200	375 740	1	4 226	17 188 947	907 407	907 407	5 279	131 213	38 683 112	1 742 850	2 324	4 505	16 645				
6	Invercargill	13 782 214	943 958	144	6 849	70 034 872	4 754 857	4 754 857	6 789	37 673	184 687 736	9 523 129	15 581	5 156	11 853				
7	Kaipoi	2 625 460	185 064	9	6 550	5 917 730	403 958	403 958	6 826	41 674	18 094 990	967 835	1 733	5 349	10 441				
8	Lytelton	1 143 400	95 326	7	8 337	5 435 453	409 049	409 049	7 526	33 761	13 557 213	747 325	1 288	5 512	10 526				
9	Napier	9 178 285	624 532	36	6 804	36 394 081	2 810 740	2 810 740	7 723	32 350	64 954 416	4 086 262	5 443	6 291	11 934				
10	Nelson	17 167 707	1 074 596	48	6 259	45 295 560	3 532 008	3 532 008	7 797	29 685	91 486 872	5 126 347	7 382	5 603	12 393				
11	New Plymouth	50 612 640	2 751 428	487	5 436	101 454 885	6 646 301	6 646 301	6 551	27 091	222 577 286	11 302 598	21 545	5 078	10 331				
12	Palmerston North	9 531 400	731 717	150	7 677	61 732 854	4 620 028	4 620 028	7 484	23 553	162 649 971	8 434 066	17 409	5 185	9 343				
13	Riccarton	3 213 287	220 563	26	6 864	18 914 928	1 508 332	1 508 332	7 874	35 824	40 731 060	2 282 837	3 366	5 605	12 101				
14	Taumarunui	833 786	58 806	35	23 822	7 940 121	544 925	544 925	6 863	18 860	18 569 197	917 135	1 705	4 939	10 891				
15	Taupo	33 481 182	1 597 776	53	4 772	59 753 653	3 548 430	3 548 430	5 938	41 582	104 230 741	5 439 804	8 134	5 219	12 814				
16	Tauranga	7 303 550	392 907	134	5 380	29 556 118	1 743 905	1 743 905	5 900	22 139	45 311 528	2 216 093	3 750	4 891	12 083				
17	Thames-Coromandel	6 771 134	300 713	30	4 441	13 047 599	772 092	772 092	5 918	27 702	27 120 744	1 426 881	2 804	5 261	9 672				
18	Timaru	12 343 004	667 523	59	5 408	44 114 154	2 668 957	2 668 957	6 050	32 177	99 592 064	4 804 535	8 483	4 824	11 740				
19	Waikato	272 800	20 997	5	54 560	5 645 430	449 344	449 344	7 959	21 630	17 914 980	1 001 523	1 942	5 590	9 225				
20	Wellington	42 210 849	2 385 850	379	5 652	344 309 246	22 828 500	22 828 500	6 630	40 999	710 086 496	34 661 370	55 538	4 881	12 786				
21	Whakaitane	1 303 978	118 581	25	9 094	12 644 804	1 048 319	1 048 319	8 291	20 103	34 302 592	2 035 389	3 678	5 934	9 326				
22	Whangarei	6 919 963	477 495	117	6 900	36 856 752	2 880 277	2 880 277	7 815	24 971	72 495 398	4 481 165	7 525	6 181	9 634				
GRAND-TOTALS		505 105 445	29 163 243	3 191	5 774	1 675 530 003	114 067 437	114 067 437	6 808	35 508	3 911 566 530	198 516 653	5 075	5 075	11 802				
		7 781 398 516	248 978 107	10 761	3 200	11 839 371 577	523 865 414	523 865 414	4 425	235 658	20 104 295 468	865 745 614	4 306	4 306	1 377 682				

NOTES: *Includes Southland Electric Power Supply.

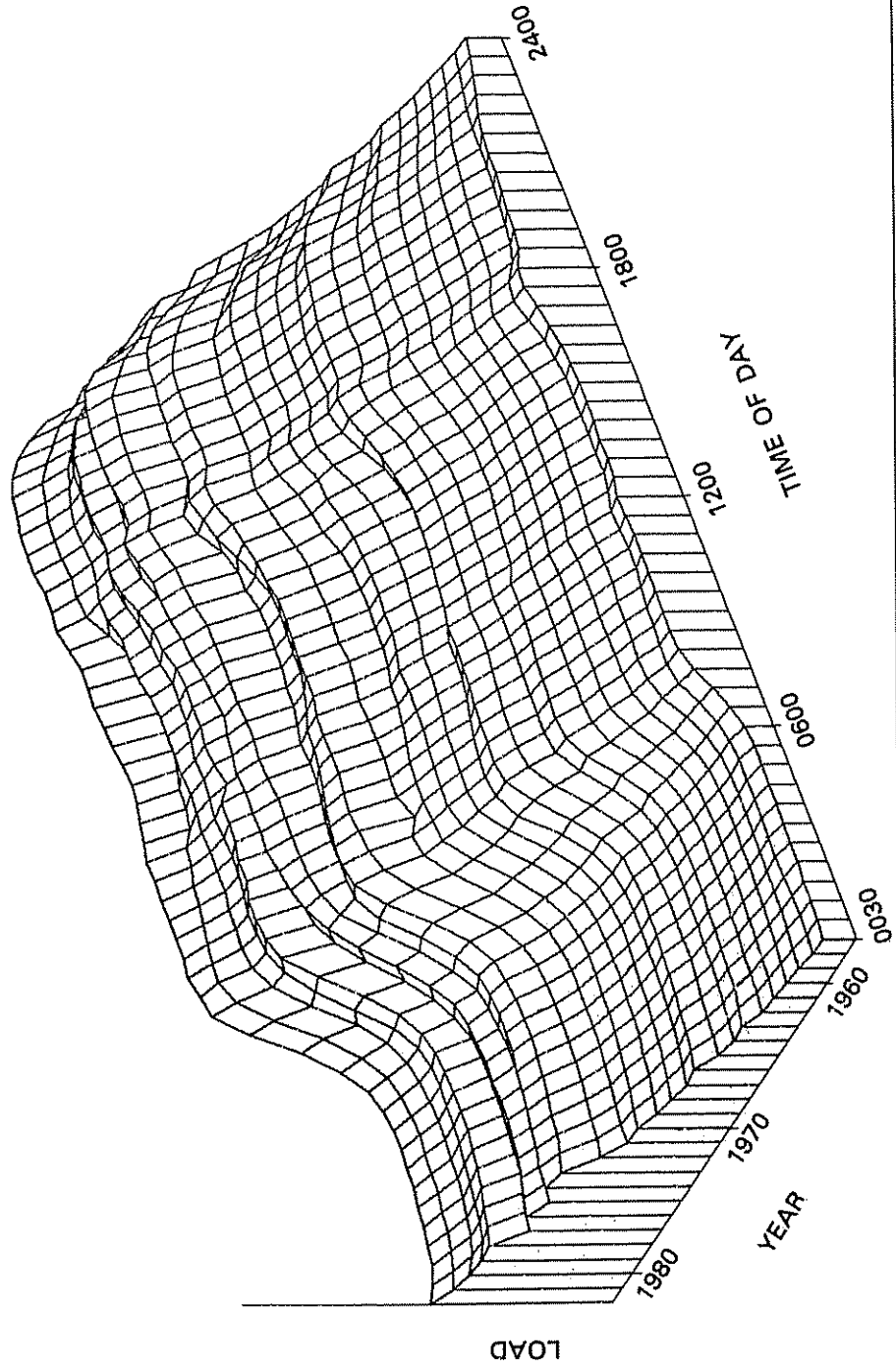
*Shown separately but included with the Electricity Division.

*Includes 3 801 429 kWh used free of charge for irrigation.

TABLE VI (PART III)—SUMMARY OF END USE OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1982

	Electricity Consumed	Income	Income per kWh sold	Consumers	Average kWh per Consumer
	kWh	\$	c	Number	kWh
Domestic	8 264 923 891	341,880,200	4.137	1 142 024	7 237
Commercial	3 426 650 291	235,477,102	6.872	144 801	23 665
Public Lighting	126 187 102	5,987,127	4.745	1 472	85 725
Farming	476 425 515	31,736,173	6.661	78 615	6 060
Railway Traction	24 112 633	1,472,315	6.106	7	3 444 662
Urban Traction	4 597 520	214,590	4.668	2	2 298 760
Coal Mining	29 755 634	1,765,201	5.932	75	396 742
Other Mining industries	122 359 804	6,472,924	5.290	394	310 558
Iron and steel basic; Non-ferrous metals	2 948 562 824	38,429,728	1.303	150	19 657 085
Manufacture of mechanical and electrical equipment	334 107 323	20,544,181	6.149	1 937	172 487
Manufacture of chemicals and chemical products	208 180 766	9,800,345	4.708	337	617 747
Manufacture of glass, pottery, china and earthenware and building materials	251 152 888	9,850,415	3.922	544	461 678
Food, beverage, and tobacco industries	1 231 280 428	66,748,065	5.421	2 433	506 075
Manufacture of textiles, leather and rubber products, and wearing apparel	235 529 299	14,102,815	5.988	1 073	219 505
Wood, paper, and pulp products	2 214 873 566	69,930,979	3.157	1 535	1 442 914
Other manufacturing industries not elsewhere classified	128 863 333	8,096,960	6.283	1 002	128 606
Construction works	76 732 651	3,236,494	4.218	1 281	59 901
TOTAL RETAIL SALES	20 104 295 468	865,745,614	4.306	1 377 682	14 593

FIGURE 2: LOAD PATTERN CHANGES FOR THE ANNUAL PEAK
DEMAND DAY 1957-82*



*1982 year data relates to the 1982-83 year and is for the day of highest demand up to 31 August 1982.

TABLE VII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1982

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 of Depreciated Capital Expenditure	Surplus Percent of Gross Income	Loan Liability per Consumer	No.
		Per kWh (Retail Sales)	Per kWh (Domestic Supply) ^e	Per kWh (Non-domestic Supply) ^e	Per Head of Population ³	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	Electricity Division ^{1,7}	1.943	4.322	1.816	276.34	1.116	2.250	1.221	0.167	0.168	0.236	0.035	2.187	86.20	26.98	1	
Government Department																			
1	Southland ¹	4.729	5.530	4.608	6.601	1.816	2.433.95	632.00	1
Power Boards and Related Authorities																			
1	Ashburton	5.346	4.723	6.127	297.75	574.45	3.137	0.437	0.576	0.401	0.189	0.364	4.667	50.07	12.31	493.02	1		
2	Auckland	4.306	3.711	4.750	237.74	586.04	2.937	0.462	0.462	0.222	0.087	0.186	4.373	23.19	1.71	120.27	2		
3	Bay of Islands	5.380	4.406	6.485	201.62	514.59	2.933	0.615	0.731	0.460	0.301	0.395	5.111	47.61	10.14	333.16	3		
4	Bay of Plenty	4.001	5.131	3.765	398.08	1,026.05	2.925	0.371	0.371	0.258	0.066	0.125	3.953	82.92	3.64	2,021.22	4		
5	Buller	3.970	4.303	3.869	318.48	697.62	2.686	0.359	0.476	0.384	0.077	0.171	3.933	30.61	3.51	176.94	5		
6	Cambridge	5.338	4.344	6.445	252.93	560.02	3.102	0.404	0.491	0.325	0.016	0.233	4.503	3.46	18.28	17.51	6		
7	Central Canterbury	5.018	4.177	5.547	367.88	779.01	3.101	0.431	0.580	0.417	0.043	0.251	4.633	8.51	9.46	71.16	7		
8	Central Hawke's Bay	5.232	4.347	7.311	251.17	487.34	3.054	0.447	0.480	0.526	0.180	0.305	4.887	24.63	7.32	153.15	8		
9	Central Waikato	5.826	5.334	6.462	213.07	559.26	3.196	0.309	0.600	0.508	0.178	0.320	5.000	34.12	14.36	203.12	9		
10	Dannevirke	5.476	4.320	7.427	256.95	521.25	2.990	0.394	0.542	0.516	0.113	0.335	4.724	15.39	13.28	103.74	10		
11	Egmont	4.972	3.990	5.814	287.24	596.79	2.956	0.626	0.784	0.590	0.020	0.217	4.736	75.02	6.01	2,153.09	11		
12	Franklin	5.063	4.331	6.151	201.83	425.08	3.062	0.384	0.435	0.435	0.110	0.178	4.926	29.31	4.34	120.12	12		
13	Hawke's Bay	4.154	3.867	4.425	308.25	786.80	3.051	0.218	0.285	0.170	0.073	0.180	3.885	24.41	8.86	156.15	13		
14	Horowhenua	6.064	4.991	8.200	242.63	471.92	3.247	0.830	1.047	0.743	0.256	0.335	5.674	34.10	8.96	189.14	14		
15	Hutt Valley	5.283	3.935	7.333	226.31	624.78	3.405	0.618	0.790	0.485	0.135	0.191	5.184	33.09	5.06	174.76	15		
16	King Country	3.179	3.228	3.112	377.56	793.08	0.607	0.216	0.295	0.146	0.019	0.088	3.098	49.33	5.13	165.71	16		
17	Manawatu-Oroua	4.524	3.969	6.652	273.29	649.84	3.141	0.420	0.465	0.273	0.040	0.178	4.189	14.67	8.05	95.61	17		
18	Marlborough	5.510	4.446	7.234	229.04	506.55	2.167	0.923	1.095	0.378	0.208	0.396	5.351	60.98	7.16	705.88	18		
19	North Auckland	4.357	4.666	4.715	246.94	527.18	2.832	0.234	0.441	0.363	0.133	0.249	4.171	31.14	6.42	256.31	19		
20	North Canterbury	5.361	5.058	6.201	277.44	562.05	3.061	0.382	0.745	0.451	0.268	0.295	5.060	44.77	6.92	322.68	20		
21	Otago	5.620	4.910	6.691	309.09	544.44	3.176	0.734	0.861	0.424	0.179	0.264	5.245	52.35	7.11	502.93	21		
22	Otago Central	4.420	3.852	5.300	277.87	511.59	3.456	0.481	0.559	0.467	0.194	0.263	3.896	60.68	10.52	661.65	22		
23	Poverty Bay	5.826	4.709	7.494	231.00	520.92	3.276	0.904	1.139	0.539	0.187	0.286	5.726	34.15	3.20	194.79	23		
24	Rotorua	5.312	4.218	6.720	206.85	533.70	3.313	0.497	0.655	0.401	0.082	0.171	4.806	71.32	12.59	896.79	24		
25	South Canterbury	4.334	3.930	6.401	252.97	602.03	3.089	0.381	0.453	0.333	0.065	0.206	4.298	19.44	4.33	158.85	25		
26	Taranaki	5.146	3.733	6.535	278.22	586.34	2.993	0.530	0.599	0.382	0.040	0.303	4.293	10.35	17.03	68.19	26		
27	Taranui	5.990	4.639	8.041	297.47	504.73	3.028	0.720	0.906	0.661	0.130	0.440	5.637	27.34	6.51	210.17	27		
28	Tasman	4.789	5.416	6.885	258.33	566.99	3.998	0.257	0.362	0.380	0.130	0.225	4.280	33.98	10.34	198.05	28		
29	Tairāngia	5.009	4.576	6.709	208.31	456.07	2.874	0.423	0.626	0.309	0.171	0.237	4.434	71.23	17.17	1,337.47	29		
30	Te Awamutu	4.958	4.121	6.204	213.09	435.52	3.041	0.430	0.645	0.397	0.001	0.250	4.566	4.44	9.50	1.97	30		
31	Thames-Valley	3.911	4.518	3.746	419.63	823.82	2.898	0.316	0.372	0.201	0.088	0.122	3.799	44.19	3.27	218.50	31		
32	Waairapa	5.536	4.868	6.678	260.04	559.45	1.988	0.483	0.757	0.511	0.413	0.438	5.510	73.58	1.85	463.43	32		
33	Waikato	4.627	5.560	6.363	261.90	478.82	3.114	0.374	0.482	0.389	0.046	0.166	4.457	49.32	7.20	501.28	33		
34	Waikare	5.497	4.355	6.907	299.22	622.02	3.164	0.533	0.832	0.447	0.059	0.330	5.050	15.39	10.57	106.42	34		
35	Waitemata	5.529	4.664	7.448	185.30	448.78	3.383	0.481	0.636	0.368	0.194	0.240	5.052	40.36	12.14	167.32	35		
36	Waitemoa	5.333	4.251	6.435	290.00	547.92	3.292	0.499	0.643	0.401	0.067	0.461	5.189	41.91	9.65	514.65	36		
37	Wairarapa-Kaitiaki	4.838	4.258	5.440	235.87	516.52	1.068	0.587	0.723	0.375	0.069	0.225	4.766	19.65	4.03	85.76	37		
38	West Coast	7.198	7.230	5.350	295.46	714.18	2.683	0.736	1.134	0.473	0.362	0.440	5.680	70.76	22.36	1,289.97	38		
		4.766	4.849	4.268	5.385	249.50	580.40	2.416	0.429	0.560	0.331	0.119	4.536	43.12	7.24	307.46			

TABLE VII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1982—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 Percent of Depreciated Capital Expenditure	Surplus Percent of Gross Income	Loan Liability per Consumer	No.			
		Per kWh (Retail Sales)		Per kWh (Domestic Supply) ^a		Per kWh (Non-domestic Supply) ^a		Per kWh Generated		Per kWh Purchased		Per kWh Sold (Total)		Per kWh Sold (Administration and General)		Per kWh Sold (Interest on Loans)						Per kWh Sold (Depreciation)		
		c	c	c	c	c	c	c	c	c	c	c	c	c	c	c						c	c	c
<i>Territorial Authorities</i>																								
1	Bluff	5,367	5,367	4,511	6,076	268.54	640.17	...	3,456	3,892	0.829	0.889	0.292	0.017	0.017	0.017	0.017	0.017	0.017	5,090	4.96	7.54	13.38	1
2	Christchurch	3,073	3,073	3,809	7,316	266.05	590.14	...	3,608	3,676	0.381	0.433	0.280	0.037	0.037	0.037	0.037	0.037	0.037	4,644	13.39	8.94	49.75	2
3	Dunedin	4,866	4,866	5,976	8,815	267.40	618.94	2,320	2,824	2,829	0.539	0.586	0.386	0.021	0.021	0.021	0.021	0.021	0.021	3,982	3.56	13.23	33.42	3
4	Hamilton	6,887	6,887	8,921	8,921	268.60	723.66	...	3,420	4,020	0.833	1.037	0.939	0.090	0.090	0.090	0.090	0.090	0.090	5,596	18.30	15.61	129.99	4
5	Heathcote	4,305	4,305	3,887	5,279	258.20	749.94	...	3,368	3,432	0.042	0.094	0.611	0.083	0.083	0.083	0.083	0.083	0.083	4,274	29.27	9.23	128.78	5
6	Invercargill	5,060	5,156	4,159	6,789	248.00	611.20	...	3,440	3,648	0.511	0.614	0.374	0.083	0.083	0.083	0.083	0.083	0.083	4,618	21.08	14.32	87.22	6
7	Kanapoi	2,940	2,156	4,631	6,826	214.32	558.47	...	3,354	3,683	0.106	0.120	0.736	0.081	0.081	0.081	0.081	0.081	0.081	4,638	14.32	6.18	449.75	7
8	Lytelton	3,319	3,319	4,163	7,226	273.96	760.22	...	3,307	3,606	0.619	0.784	0.866	0.324	0.324	0.324	0.324	0.324	0.324	3,196	48.38	9.05	449.75	8
9	Napier	2,312	2,312	4,163	7,226	300.73	730.74	...	3,322	3,481	0.318	0.526	0.783	0.118	0.118	0.118	0.118	0.118	0.118	3,886	22.78	12.65	106.89	9
10	Nelson	6,291	6,291	4,466	7,725	305.14	694.44	...	3,286	3,481	0.605	0.773	0.467	0.118	0.118	0.118	0.118	0.118	0.118	4,986	14.82	13.37	61.20	10
11	New Plymouth	5,078	5,078	3,844	6,551	330.20	574.60	1,613	2,872	2,856	0.584	0.761	0.351	0.032	0.032	0.032	0.032	0.032	0.032	4,344	14.82	13.37	61.20	11
12	Palmerston North	3,185	3,185	3,779	7,494	204.21	484.47	68,702	3,278	3,300	0.797	0.917	0.695	0.021	0.021	0.021	0.021	0.021	0.021	5,048	5.58	3.44	17.23	12
13	Riccarton	3,605	3,605	3,330	7,374	346.41	678.20	...	3,638	3,833	0.369	0.446	0.637	0.032	0.032	0.032	0.032	0.032	0.032	4,963	25.16	11.39	137.23	13
14	Tauranui	4,519	4,519	3,502	6,863	223.80	537.91	1,096	3,933	3,161	0.382	0.446	0.731	0.032	0.032	0.032	0.032	0.032	0.032	4,377	16.80	29.53	123.27	14
15	Taupo	3,219	3,219	4,252	5,938	310.85	668.77	3,329	3,287	3,497	0.631	0.633	0.641	0.267	0.267	0.267	0.267	0.267	0.267	5,335	69.06	3.37	890.36	15
16	Tauranga	4,891	4,891	2,907	5,900	413.45	590.96	1,011	3,268	3,307	0.364	0.520	0.541	0.045	0.045	0.045	0.045	0.045	0.045	4,413	6.35	12.64	54.80	16
17	Thames-Coromandel	3,291	3,291	4,653	5,918	232.39	508.87	...	3,694	3,801	0.433	0.584	0.471	0.077	0.077	0.077	0.077	0.077	0.077	4,949	19.62	6.18	104.00	17
18	Umaru	4,824	4,824	3,849	6,050	261.83	566.37	...	3,175	3,353	0.213	0.402	0.399	0.040	0.040	0.040	0.040	0.040	0.040	4,382	19.62	10.72	46.40	18
19	Waikato	3,590	3,590	4,500	7,959	184.44	515.72	...	3,331	3,649	0.319	0.682	0.578	0.049	0.049	0.049	0.049	0.049	0.049	5,141	12.98	9.97	46.40	19
20	Wellington	4,881	4,881	3,235	6,650	300.10	624.10	...	3,414	3,538	0.444	0.664	0.381	0.049	0.049	0.049	0.049	0.049	0.049	4,753	16.36	4.13	97.47	20
21	Whakatane	5,934	5,934	4,558	8,291	219.09	553.40	...	3,435	3,733	0.577	0.671	0.694	0.002	0.002	0.002	0.002	0.002	0.002	5,307	0.53	13.15	2.04	21
22	Whangarei	6,181	6,181	4,492	7,815	260.55	595.50	...	3,439	3,665	0.423	0.510	1.023	...	...	...	...	...	...	5,249	...	15.14	...	22
AVERAGES FOR NEW ZEALAND		5,070	5,075	3,777	6,808	263.53	598.95	2,322	3,330	3,448	0.442	0.592	0.409	0.050	0.050	0.050	0.050	0.050	0.050	4,654	15.77	9.57	85.84	
		...	4,306	4,137	4,425	272.10	628.41	1,156 ^b	1,648	1,321	0.529	0.643	0.330	0.619	0.207	0.207	0.207	0.207	0.207	3,319	74.49	24.83	...	

NOTES: ^aIncludes Southland Electric Power Supply. ^bShown separately but included with the Electricity Division. ^cCost of electricity purchased from private plants. ^dSee note 6, Table V. ^eRetail sales. ^fAlso shown on Table VI.

TABLE VIII—STATISTICS OF POPULATION¹, TOTAL CONSUMERS, LICENSED AREA, STAFF EMPLOYED,
FOR THE YEAR ENDED 31 MARCH 1982

No.	Supply Authorities	Licensed Area (km ²)	Population in Area of Supply	Total Number of Consumers ¹	Ratio of Total Number of Consumers to Population	Consumers per Square Kilometre of Licensed Area	Population per Square Kilometre of Licensed Area	Consumers Per Circuit Kilometre of Line	Staff Employed	No.
1	Electricity Division ²	...	...	32 540	...	...	...	...	6 611	1
<i>Government Department</i>										
1	Southland ³	28 740	70 400	30 782	43.7	1.1	2.4	3.9	238	1
<i>Power Boards and Related Authorities</i>										
1	Ashburton	6 664	25 000	12 958	51.8	1.9	3.8	4.3	116	1
2	Auckland	935	502 900	204 011	40.6	218.2	537.9	28.6	983	2
3	Bay of Islands	6 830	43 500	17 044	39.2	2.5	6.4	4.2	123	3
4	Bay of Plenty	8 389	38 500	14 937	38.8	1.8	4.6	7.4	150	4
5	Buller	4 645	8 350	3 812	45.7	0.8	1.8	5.5	33	5
6	Cambridge	440	13 400	6 052	45.2	13.8	30.5	6.0	32	6
7	Central Canterbury	7 993	45 400	21 440	47.2	2.7	5.7	6.5	190	7
8	Central Hawke's Bay	3 367	13 000	6 700	51.5	2.0	3.9	3.1	35	8
9	Central Waikato	3 074	107 500	40 956	38.1	13.3	35.0	8.7	279	9
10	Dannevirke	2 103	12 050	5 940	49.3	2.8	5.7	5.8	47	10
11	Egmont	1 553	24 500	11 792	48.1	7.6	15.8	6.7	93	11
12	Franklin	2 220	43 600	20 702	47.5	9.3	19.6	7.5	112	12
13	Hawke's Bay	4 967	102 700	40 235	39.2	8.1	20.7	9.1	307	13
14	Horowhenua	1 628	53 800	27 660	51.4	17.0	33.0	16.8	187	14
15	Hutt Valley	1 204	206 600	74 836	36.2	62.1	171.5	35.2	532	15
16	King Country	7 384	17 550	8 355	47.6	1.1	2.4	3.6	55	16
17	Manawatu-Oroua	3 383	50 500	21 238	42.1	6.3	14.9	8.4	139	17
18	Marlborough	10 615	33 000	14 921	45.2	1.4	3.1	5.9	130	18
19	North Auckland	5 725	53 100	24 873	46.8	4.3	9.3	5.5	197	19
20	North Canterbury	13 001	32 600	16 092	49.4	1.2	2.5	3.8	142	20
21	Otago	12 349	25 400	14 420	56.8	1.2	2.1	3.2	112	21
22	Otago Central	18 750	21 600	11 732	54.3	0.6	1.2	5.2	134	22
23	Poverty Bay	8 284	46 200	20 487	44.3	2.5	5.6	7.5	171	23
24	Rotorua	3 870	58 900	22 828	38.8	5.9	15.2	13.3	124	24
25	South Canterbury	10 585	40 300	16 934	42.0	1.6	3.8	5.2	164	25
26	Taranaki	4 359	27 800	13 191	47.4	3.0	6.4	5.4	97	26
27	Taranaki	2 850	7 900	4 656	58.9	1.6	2.8	3.4	41	27
28	Tasman	10 799	49 700	22 644	45.6	2.1	4.6	7.2	191	28
29	Tauranga	1 728	71 400	32 612	45.7	18.9	41.3	9.5	243	29
30	Te Awamutu	1 424	20 700	10 128	48.9	7.1	14.5	8.3	39	30
31	Thames Valley	7 158	88 500	45 079	50.9	6.3	12.4	6.6	308	31
32	Wairarapa	5 753	37 200	17 291	46.5	3.0	6.5	5.9	158	32
33	Waioa	3 506	5 790	3 167	54.7	0.9	1.7	3.1	28	33
34	Waikato	7 741	22 100	10 631	48.1	1.4	2.9	5.9	102	34
35	Waitemata	2 890	293 200	121 058	41.3	41.9	101.5	14.2	535	35
36	Waitomo	6 221	19 750	10 453	52.9	1.7	3.2	3.7	90	36
37	Wanganui-Rangitikei	9 472	68 600	31 327	45.7	3.3	7.2	7.6	197	37
38	West Coast	18 017	25 400	10 508	41.4	0.6	1.4	6.0	170	38
		231 877	2 358 100	1 013 700	43.0	4.4	10.2	8.9	6 786	

TABLE VIII—STATISTICS OF POPULATION, TOTAL CONSUMERS, LICENSED AREA, STAFF EMPLOYED,
FOR THE YEAR ENDED 31 MARCH 1982—continued

No.	Supply Authorities	Licensed Area (km ²)	Population in Area of Supply	Total Number of Consumers ¹	Ratio of Total Number of Consumers to Population	Consumers per Square Kilometre of Licensed Area	Population per Square Kilometre of Licensed Area	Consumers Per Circuit Kilometre of Line	Staff Employed	No.
<i>Territorial Authorities</i>										
1	Bluff	6	2 670	1 120	41.9	173.0	412.4	29.3	12	1
2	Christchurch	256	242 300	101 024	41.7	394.6	946.5	35.2	582	2
3	Dunedin	1 101	109 500	47 307	43.2	43.0	99.5	26.2	367	3
4	Hamilton	14	22 100	12 361	55.9	883.6	1 579.7	43.4	96	4
5	Heathcote	16	6 750	2 324	34.4	145.2	421.9	28.6	15	5
6	Invercargill	27	38 400	15 581	40.6	585.4	1 442.7	37.4	82	6
7	Kaipoi	4	4 580	1 733	37.8	446.6	1 180.4	39.5	10	7
8	Lytelton	10	2 670	1 288	48.2	123.8	256.7	30.0	11	8
9	Napier	8	11 650	5 443	46.7	675.1	1 444.9	37.0	72	9
10	Nelson	21	16 800	7 382	43.9	357.8	814.3	43.7	61	10
11	New Plymouth	591	49 100	21 545	43.9	36.5	83.1	19.0	150	11
12	Palmerston North	19	41 300	17 409	42.2	927.5	2 200.3	49.5	82	12
13	Riccarton	3	6 590	3 366	51.1	181.5	2 313.1	52.0	27	13
14	Taumarunui	20	4 060	1 705	42.0	84.3	200.7	38.9	11	14
15	Taupo	3 455	17 500	8 134	46.5	2.4	5.1	10.0	64	15
16	Tauranga	5	5 360	3 750	70.0	808.9	1 156.2	26.9	25	16
17	Thames-Coromandel	11	6 140	2 804	45.7	254.7	557.8	23.6	15	17
18	Timaru	11	18 350	8 483	46.2	770.7	1 667.1	43.8	50	18
19	Waioa	6	5 430	1 942	35.8	299.9	838.6	29.3	12	19
20	Wellington	200	115 500	55 538	48.1	277.4	576.9	35.9	321	20
21	Whakatane	6	9 290	3 678	39.6	631.2	1 594.3	56.0	17	21
22	Whangarei	13	17 200	7 525	43.8	581.1	1 328.2	49.1	32	22
GRAND-TOTALS		5 803	753 300	331 442	44.0	57.1	129.8	31.3	2 114	
		266 419	3 181 800 ⁴	1 377 682	43.3	5.2	11.9	9.3	15 511	

Total population as at 31 March 1982 was 3 190 100.⁴ Mean population as at 31 March 1982 was 3 160 100.⁴ Ratio of population in area of supply to total population was 99.7 percent.

NOTES: ¹For detailed analysis see Table VI. ²Includes Southland Electric Power Supply. ³Shown separately but included with the Electricity Division. ⁴Provisional. Individual populations do not sum to the subtotals or total shown due to Department of Statistics rounding rules, i.e. less than 10 000 to nearest 10; 10 000 but less than 20 000 to nearest 50; 20 000 and greater to nearest 100.

Appendix 1

GLOSSARY OF TERMS USED

This publication is divided into two sections:

Section A—relates solely to the operations of the Electricity Division of the Ministry of Energy (see below) and;

Section B—shows the years results of the operations of both the Electricity Division 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:

The Electricity Division is a division of the Ministry of Energy. The Ministry of Energy was formed by the Ministry of Energy Act 1977 combining, from 1/4/78, the then New Zealand Electricity Department; Mines Department; and Ministry of Energy Resources. These became the Electricity Division (also known as New Zealand Electricity); the Mines Division; and the Planning and the Oil and Gas Divisions respectively.

The Electricity Division 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 (see below). It also acts as 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 Electric Authority;

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 the Electricity Division) Information on this authority in these statistics is included in the Electricity Division figures, however it is also shown separately in some tables for information purposes.

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 an half-hour) rather than as 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 an 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 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 "in-situ maximum" rating, to take into account any permanent up or down rating. Prior to the year ended 31 March 1982 the "name-plate" rating was used in this publication.

Generation is published as gross for hydro stations and nett for thermal stations (see below), 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 shown in section A (table i) refers to the electricity used by hydro stations, substations, synchronous condensers, depots, etc.

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

Purchased refers to the electricity brought in bulk from the Electricity Division, 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. The Electricity Division 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 the Electricity Division) 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. included in Commercial but does include normally unoccupied 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 1981

The following amendments are necessary:

Section A—New Zealand Electricity Only

Table V Page 3—Analysis of Capital Outlay

Thermal stations—Station buildings and villages: Subtotal shows 127,562,217 should be 107,562,217

Table I (Part II) Page 8—Financial Results of Generation, Distribution and Operation Supply expenditure and charges—

	Transmission and Distribution	Properties, plant, and equipment	Consumer related costs	Total	Administration and General
	\$	\$	\$	\$	\$
Bay of Plenty E.P.B.	819,202	279,489	149,923	1,248,614	996,464
Subtotal	44,846,454	8,465,335	6,310,523	59,622,312	36,484,640
Totals and Grand Totals	84,736,154	11,010,059	8,872,383	104,618,596	89,751,945

Table V Page 20—Results of Generation, Distribution, and Operation

Buller E.P.B. Maximum load amend to 8 633 kW Annual load factor amend to 82.51.

Table VI (Part I) Page 22—Analysis of Consumption of Electricity

	Domestic		Commercial	
	Consumers	Average kWh per consumer	Consumers	Average kWh per customer
Franklin E.P.B.	14 201	7 185	1 672	12 599
Subtotal	823 097	6 911	98 096	21 515
Grand Total	1 131 377	7 102	143 006	22 326

Table V (Part III) Page 26—Summary of End Use of Electricity

Domestic: Consumers: amend to 1 131 377 Average kWh per customer: amend to 7 102

Commercial: Consumers: amend to 143 006 Average kWh per customer: amend to 22 326

The receipt of final population figures based on Census night 24 March 1981 make the following amendments necessary:

Condensed statistics detailed in subsequent tables

Item 8 Population (total): amend to 3 175 737

Item 26 Generation per head of total population: amend to 6 963

Item 28 Retail sales per head of total population: amend to 6 153

Table V Page 21—Results of Generation, Distribution and Operation

Footnotes—

Electricity generated per head of total population: amend to 6 963

Electricity sold retail per head of total population: amend to 6 153

Appendix 2—continued

	Table VII, Page 28 Income from sales of electricity per head of population	Table V, Page 20 kWh sold (average) per head of population	Table VIII, Page 30 Population in area of supply	Table VIII, Page 30 Ratio of total consumers to population	
	\$	kWh			
Government Department					
1 Southland	238.77	4 905	70 358	43.39	1
Power Boards and Related Authorities:					
1 Ashburton	243.56	5 082	25 027	52.02	1
2 Auckland	221.99	5 439	499 906	40.40	2
3 Bay of Islands	181.54	3 654	42 715	38.99	3
4 Bay of Plenty	367.68	9 944	38 192	38.73	4
5 Buller	269.95	7 023	8 363	45.37	5
6 Cambridge	221.32	4 461	13 136	44.97	6
7 Central Canterbury	323.38	6 978	44 546	47.27	7
8 Central Hawke's Bay	206.32	4 369	12 993	51.16	8
9 Central Waikato	184.50	3 481	106 728	37.76	9
10 Dannevirke	212.54	4 385	12 063	49.80	10
11 Egmont	254.81	5 727	24 681	47.41	11
12 Franklin	180.56	3 894	43 265	46.95	12
13 Hawke's Bay	275.98	7 388	102 115	38.84	13
14 Horowhenua	217.99	3 930	53 642	51.32	14
15 Hutt Valley	200.57	4 151	206 971	35.94	15
16 King Country	338.90	11 991	17 577	46.45	16
17 Manawatu-Oroua	232.46	4 824	50 113	41.69	17
18 Marlborough	190.70	4 015	32 840	44.55	18
19 North Auckland	226.34	5 184	52 572	46.69	19
20 North Canterbury	231.77	4 667	33 536	47.32	20
21 Otago	265.83	5 331	25 518	56.03	21
22 Otago Central	220.65	5 870	21 428	52.99	22
23 Poverty Bay	201.28	3 873	46 017	44.20	23
24 Rotorua	180.16	3 747	58 269	38.51	24
25 South Canterbury	234.55	4 937	40 884	43.19	25
26 Taranaki	234.32	5 342	27 798	46.82	26
27 Taranua	257.74	4 849	7 904	58.03	27
28 Tasman	219.43	4 557	49 422	45.32	28
29 Tauranga	177.88	3 802	69 416	45.13	29
30 Te Awamutu	197.44	4 418	20 650	48.19	30
31 Thames Valley	385.18	10 780	88 200	50.28	31
32 Wairarapa	229.96	4 574	37 449	45.77	32
33 Wairoa	219.32	4 494	5 766	54.28	33
34 Waitaki	249.36	5 136	22 175	47.62	34
35 Waitemata	166.16	3 259	286 563	41.42	35
36 Waitomo	267.80	5 586	19 863	52.55	36
37 Wanganui-Rangitikei	207.09	4 616	68 826	44.44	37
38 West Coast	253.28	3 930	25 629	41.25	38
	222.88	5 033	2 342 758	42.71	
Territorial Authorities:					
1 Bluff	221.40	4 488	2 720	41.54	1
2 Christchurch	207.82	4 560	242 776	41.31	2
3 Dunedin	230.08	5 449	110 678	42.54	3
4 Hamilton	298.23	4 864	21 968	55.76	4
5 Heathcote	225.79	5 468	6 744	33.79	5
6 Invercargill	209.02	4 621	38 387	40.50	6
7 Kaiapoi	178.42	3 709	4 559	37.27	7
8 Lyttelton	255.67	4 929	2 695	50.20	8
9 Napier	303.98	5 403	11 563	47.68	9
10 Nelson	243.45	5 144	16 698	43.15	10
11 New Plymouth	203.89	4 365	48 832	43.66	11
12 Palmerston North	182.52	3 865	40 904	42.50	12
13 Riccarton	295.37	6 054	6 709	49.95	13
14 Taumarunui	186.00	4 253	4 055	41.85	14
15 Taupo	264.06	5 754	17 289	45.94	15
16 Tauranga	360.01	8 293	5 244	71.43	16
17 Thames-Coromandel	195.37	4 042	6 167	45.31	17
18 Timaru	231.18	5 199	18 466	46.18	18
19 Wairoa	161.47	3 240	5 439	35.59	19
20 Wellington	271.17	5 819	116 187	48.24	20
21 Whakatane	175.58	3 530	9 165	39.24	21
22 Whangarei	239.28	4 142	17 043	43.73	22
	227.84	4 921	754 288	43.77	
Grand Totals	241.55	6 169	3 167 404	43.04	