

1984  
 Mr R.N. McLean,  
 Scientist,  
 Room 5-06,  
 RUTHERFORD HOUSE.

## ANNUAL STATISTICS IN RELATION TO

# ELECTRIC POWER DEVELOPMENT AND OPERATION IN NEW ZEALAND

FOR THE YEAR ENDED 31 MARCH 1984

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

## (i) SUMMARY OF OPERATING RESULTS FOR YEAR ENDED 31 MARCH 1984

Maximum load (kilowatts)	4 357 700	Revenue— Per kWh output	cents 3 038
Average load (kilowatts)	2 845 800	Per kWh sold	3 275
Annual load factor (percent)	65 37	Working costs (including administration)— Per kWh output	1 001
Electricity output (generated and purchased)	25 021 928 901	Per kWh sold	1 079
Electricity sold (in bulk and retail)	23 213 850 627	Capital charges— Per kWh output	1 464
Electricity unsold (internal use)	85 207 597	Per kWh sold	1 578
Line losses (transmission and distribution) kWh	1 722 870 677	percent	6 88
		Total costs— Per kWh output	2 465
		Per kWh sold	2 657

## ELECTRICITY DIVISION, M.O.E. ONLY

(ii) SUMMARISED PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 31 MARCH 1984<sup>1</sup>

	\$	\$	\$	\$
Working costs		250,576,687	Income—	
Capital Charges—			Sales of energy	760,187,202
Interest <sup>2</sup>	240,097,044		Rents and miscellaneous receipts	10,910,397
Depreciation including interest on depreciation account	61,122,762	301,219,806	Net increase in General Reserve Account	154,222,048
Profit and Loss Account total		551,796,493		
Loan capital repayments		65,079,058		
Total costs (see table iv)		616,875,551		616,875,551

## ELECTRICITY DIVISION, M.O.E. ONLY

(iii) SUMMARISED BALANCE SHEET AS AT 31 MARCH 1984<sup>1</sup>

	\$	\$	\$	\$
Internal Resources—			Completed Works	2,784,155,346
Depreciation Account	551,698,147		Works under construction	1,018,906,526
General Reserve Account	985,751,452	1,537,449,599	Plant, motor vehicles and tools	28,019,229
External Resources—			Capital Outlay (see table v)	3,831,081,101
Loans	2,576,629,429		Stocks of materials	134,683,276
Trust Accounts	26,366	2,576,655,795	Sundry debtors, etc less sundry creditors	143,799,267
			Cash	4,541,750
		4,114,105,394		4,114,105,394

## ELECTRICITY DIVISION, M.O.E. ONLY

(iv) ANALYSIS OF OPERATING COSTS FOR YEAR ENDED 31 MARCH 1984<sup>1</sup>

	Working Costs (a)	Administration Costs (b)	Capital Charges (c)	Total Costs (d)	Total Cost per kWh	
					Output (e)	Sold (f)
	\$	\$	\$	\$	cents	cents
Hydro-electric stations	30,237,306	14,963,521	173,925,070	219,125,897	1 133	
Thermal stations	123,183,620	23,461,708	129,137,005	275,782,333	4 891	
Power purchased	678,850	13,577	...	692,427	2.813	...
Generated and purchased	154,099,776	38,438,806	303,062,075	495,600,657	1 981	2 134
Transmission lines	12,209,524	6,042,122	34,957,977	53,209,623	0.213	0.229
Substations	14,898,711	7,372,918	24,258,201	46,529,830	0.186	0.200
Communications	3,580,504	1,771,882	2,062,256	7,414,642	0.030	0.032
Retail distribution	2,711,298	2,608,958	1,958,355	7,278,611	0.029	0.031
System operation and testing	4,577,114	2,265,074	...	6,842,188	0.027	0.029
TOTALS:	192,076,927	58,499,760	366,298,864	616,875,551	2 465	2 656
Administration (ref. column b)	58,499,760					
	250,576,687					
		SUMMARY				
		Working costs		192,076,927	0.768	0.827
		Administration		58,499,760	0.234	0.252
		Capital Charges		366,298,864	1.464	1.147
		Total costs		616,875,551	2 465	2 656

<sup>1</sup>Information 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 for both quantity (kWh) and value (\$). <sup>2</sup>Includes gains on foreign currency realignments.

## ELECTRICITY DIVISION, M.O.E. ONLY

(v) ANALYSIS OF CAPITAL OUTLAY AS AT 31 MARCH 1984

	Headworks	Station Buildings and Villages	Generating Plant and Machinery	Total	Grand total
<i>Completed Works</i>					
	\$	\$	\$	\$	\$
Hydro-electric stations					
Tongariro control incl. Tokaanu	154,476,636	5,119,314	5,739,118	165,335,068	
Lake Taupo control	419,292			419,292	
Aratiatia	10,532,179	2,919,294	2,750,407	16,201,880	
Ohakuri	13,989,386	3,175,337	4,496,152	21,660,875	
Atiamuri	13,689,738	3,106,535	4,606,488	21,402,761	
Whakamaru	14,219,940	3,411,906	6,418,681	24,050,527	
Maraetai	22,954,034	7,443,609	9,362,474	39,760,117	
Waipapa	10,024,699	2,820,261	2,947,799	15,792,759	
Arapuni	3,099,938	1,249,374	2,373,890	6,723,202	
Karapiro	5,208,884	1,352,006	2,018,434	8,579,324	
Matahina	24,191,036	3,200,507	2,765,753	30,157,296	
Lake Waikaremoana control	929,055			929,055	
Kaitawa	2,417,820	341,885	628,812	3,388,517	
Tuaiti	550,688	831,710	1,403,129	2,785,527	
Piripaua	1,513,134	216,396	425,419	2,154,949	
Mangahao	2,010,032	613,719	893,281	3,517,032	
Tekapo 'A'	113,030	6,473,068	923,127	7,509,225	
Tekapo 'B'	95,586,230	10,862,330	8,265,796	114,714,356	
Lake Pukaki control	72,727,614			72,727,614	
Benmore	38,994,175	11,384,917	7,679,797	58,058,889	
Aviemore	23,661,094	8,445,311	5,439,336	37,545,741	
Waitaki	3,667,566	3,327,714	2,643,647	9,638,927	
Lake Wakatipu control	1,384	5,494		6,878	
Lake Hawea control	4,907,140	7,800		4,914,940	
Roxburgh	34,489,146	5,330,480	9,303,872	49,123,498	
Cobb	8,323,899	921,415	815,645	10,060,959	
Arnold	246,738	50,366	56,532	353,636	
Lake Coleridge	3,876,646	590,290	727,218	5,194,154	
Highbank	1,268,795	442,196	393,697	2,104,688	
Lake Manapouri control	11,862,630			11,862,630	
Lake Te Anau control	9,806,080			9,806,080	
Manapouri	78,136,369	21,683,763	18,892,954	118,713,086	
Monowai	398,548	169,300	149,711	717,559	
Ohau 'A'	106,420,320	19,338,822	25,120,611	150,879,753	
Twizel control station		928,428	4,127,001	5,055,429	
Upper Waitaki control building		5,462,148		5,462,148	
Ohau 'B'	96,794,077	20,620,126	22,620,570	140,034,773	
Rangipo	189,753,577	1,089,401	12,491,009	203,333,987	
Clyde	306,094			306,094	
	<u>1,061,567,643</u>	<u>152,935,222</u>	<u>166,480,360</u>		<u>1,380,983,225</u>
	Fuel handling				
Thermal stations					
Equipment					
Marsden 'A'	966,945	16,695,894	13,152,800	30,815,639	
Marsden 'B'	964,671	25,485,444	89,299,935	115,750,050	
Otahuhu	757,217	9,269,315	17,813,470	27,840,002	
Meremere	5,720,481	10,999,997	22,331,322	39,051,800	
Wairakei	21,591,257	10,753,710	12,714,841	45,059,808	
New Plymouth	3,443,160	30,413,319	101,497,841	135,354,320	
Stratford	129,415	1,496,112	26,381,976	28,007,503	
Whirinaki	3,133,170	602,142	24,464,525	28,199,837	
Huntly	83,559,517	150,982,705	200,276,290	434,818,512	
	<u>120,265,833</u>	<u>256,698,638</u>	<u>507,933,000</u>		<u>884,897,471</u>
Transmission system—					
Line depot (not associated with Power Stations or Substations)				860,686	
33 kV a.c.				1,774,519	
50 kV a.c.				1,601,375	
66 kV a.c.				7,411,781	
110 kV a.c.				51,081,349	
220 kV a.c.				198,394,511	
500 kV d.c.				10,609,236	
500 kV d.c. (submarine cable)				5,836,535	
					277,569,992
Substations—					
11 kV				44,026	
33 kV				4,243,614	
50 kV				1,502,282	
66 kV				13,266,874	
110 kV				60,367,910	
220 kV				91,072,995	
500 kV (converter stations)				22,114,949	
					192,612,650
Communications system					16,374,525
Distribution system					15,549,543
Offices, stores, land, and buildings					16,167,940
Total completed works					<u>2,784,155,346</u>

## ELECTRICITY DIVISION, M.O.E. ONLY

(v) ANALYSIS OF CAPITAL OUTLAY AS AT 31 MARCH 1984—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	116,628,723	412,227	14,990,100	132,031,050	
Upper Waitaki	64,929,176	25,508,762	31,986,964	122,424,902	
Clyde	127,088,968	52,144,798	15,782,000	195,015,766	
Other stations	677,060	2,458,329	196,239	3,331,628	
	309,323,927	80,524,116	62,955,303		452,803,346
Thermal stations—					
Fuel handling Equipment					
Huntly			276,200,917	276,200,917	
Ohaaki	26,756,645	4,369,982	2,574,000	33,700,627	
Other stations	2,364,895	(3,750,263)	16,563,078	15,177,710	
	29,121,540	619,719	295,337,995		325,079,254
Transmission system—					
Line depot (not associated with Power Stations or Substations)					
33 kV a.c.				813,993	
50 kV a.c.				10,463	
66 kV a.c.				5,623,522	
110 kV a.c.				1,726,512	
220 kV a.c.				71,574,688	
500 kV d.c. (submarine cables)				211,109	
				79,960,287	
Substations—					
11 kV				680,814	
33 kV				36,072	
50 kV				1,006,471	
66 kV				24,896,063	
110 kV				67,776,154	
220 kV				...	
500 kV d.c. (converter station)				...	94,395,574
Communications system					16,834,046
Distribution system					234,528
Offices, stores, land, and buildings					9,101,793
Surveys, and investigations of other schemes					40,497,698
Total works under construction					1,018,906,526
Plant, motor vehicles, and tools					28,019,229
<b>TOTAL CAPITAL OUTLAY</b>					<b>3,831,081,101</b>

**SECTION B: COMBINED RESULTS OF THE ELECTRICITY DIVISION (M.O.E.) AND ELECTRICAL  
SUPPLY AUTHORITIES FOR THE YEAR ENDED 31 MARCH 1984**

**Condensed Statistics Detailed In Subsequent Tables**

No.		Hydro	Steam	Oil/Gas	Total	No.	
1	Generating stations	No.	76	5	8	89	1
2	Capacity of generating stations	MW.	4 295.2	1 394.2	692.9	6 382.3	2
3	Generation	GWh.	20 198.9	5 084.0	572.0	25 854.9	3
4	Maximum load	MW.				4 532.7 <sup>2</sup>	4
5	Retail sales of electricity	GWh.				23 027.2	5
6	Consumers	No.				1 417 606	6
7	Population (mean) <sup>1</sup>	No.				3 234 900	7
8	Population (total) <sup>1</sup>	No.				3 265 500	8
9	Capital expenditure less depreciation	\$(m)				4,493.2	9
10	Income from retail sales of electricity	\$(m)		1,107.4			10
11	Other general income	\$(m)		34.1			11
12	Appliance sales and servicing income	\$(m)		46.3			12
13	Gross Income	\$(m)				1,187.8	13
14	Cost of electricity purchased from non-supply industry sources	\$(m)		0.4			14
15	Generation expenditure	\$(m)		428.4			15
16	Total cost of electricity	\$(m)			428.7		16
17	Other supply expenditure	\$(m)			392.8		17
18	Appliance sales and servicing expenditure	\$(m)			44.1		18
19	Gross expenditure	\$(m)				865.6	19
20	Net results surplus	\$(m)				322.2	20
21	Income from retail sales of electricity per kWh sold retail	c.				4.809	21
22	Gross income per kWh sold retail	c.				5.158	22
23	Total cost of electricity per kWh sold retail	c.				1.862	23
24	Gross expenditure per kWh sold retail	c.				3.759	24
25	Generation per head of mean population	kWh				7.993	25
26	Generation per head of total population	kWh				7.918	26
27	Retail sales of electricity per head of mean population	kWh				7.118	27
28	Retail sales of electricity per head of total population	kWh				7.052	28
29	Retail sales of electricity per total consumers	kWh				16 244	29
30	Electrical fires reported during year	No.				36	30
31	Electrical accidents during year (fatal)	No.				15	31

Provisional <sup>2</sup>Occurred at 0900 hours on 20 July 1983

TABLE I (PART I)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Income											Cost of Electricity					No.
		Sales of Electricity			General Income		Total General Income	Appliance Sales and Servicing Income	Gross Income	Loan Interest	Depreciation		Operation and Maintenance <sup>a</sup>	Total	Purchased	Total		
		Retail	Bulk for Resale	Other Sources														
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
1	Electricity Division <sup>1</sup>	123,626,727	636,560,475	10,910,397	771,097,599	771,097,599	196,543,978	53,244,234	153,420,927	403,209,139	678,850	403,887,989	1					
<i>Government Department</i>																		
1	Southland <sup>2</sup>	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
<i>Power Boards and Related Authorities</i>																		
1	Ashburton	9,434,751	...	212,138	9,646,889	11,334,289	640,762	119,629	87,671	848,062	5,121,030	5,969,092	2					
2	Auckland	148,871,949	...	3,047,915	151,919,864	152,723,069	...	...	...	...	114,068,246	114,068,246	3					
3	Bay of Islands	10,640,646	...	584,871	11,225,517	11,256,568	...	...	...	...	6,591,426	6,591,426	4					
4	Bay of Plenty	18,540,970	1,469,967	634,867	20,645,804	21,919,793	3,691,090	729,200	758,892	5,179,182	10,747,798	15,926,980	5					
5	Buller	3,482,198	...	99,815	3,582,013	4,036,520	...	...	...	...	2,487,898	2,487,898	6					
6	Cambridge	4,411,038	...	100,612	4,511,650	4,511,650	...	...	...	...	2,825,085	2,825,085	7					
7	Central Canterbury	21,468,593	14,894	463,208	21,946,695	22,931,690	...	...	...	...	14,256,593	14,256,593	8					
8	Central Hawke's Bay	4,213,801	...	59,261	4,273,062	4,273,062	...	...	...	...	2,652,534	2,652,534	9					
9	Central Waikato	28,474,460	2,425	174,067	28,650,952	28,734,978	...	...	...	...	16,545,587	16,545,587	10					
10	Dannevirke	3,836,304	...	29,619	3,865,923	4,466,930	...	...	...	...	2,277,802	2,277,802	11					
11	Egmont	9,387,666	...	116,518	9,504,184	9,504,184	...	...	...	...	5,885,003	5,885,003	12					
12	Franklin	11,507,785	21,867	206,230	11,735,882	12,143,829	...	...	...	...	7,523,415	7,523,415	13					
13	Hawke's Bay	42,965,084	2,701,898	1,398,639	47,065,621	49,132,326	...	...	...	...	34,095,720	34,095,720	14					
14	Horowhenua	16,436,499	...	383,190	16,819,689	18,061,417	...	...	...	...	9,622,008	9,622,008	15					
15	Hutt Valley	56,093,878	...	1,894,269	57,988,147	60,157,558	...	...	...	...	36,799,781	36,799,781	16					
16	King Country	8,280,613	652,351	188,173	9,121,137	9,359,363	56,169	36,267	21,304	24,816	7,111,114	7,725,256	17					
17	Manawatu-Oroua	17,400,740	7,085,656	422,483	24,908,879	25,513,311	1,221,539	492,853	307,378	2,021,770	17,350,691	17,350,691	18					
18	Mariborough	9,684,296	...	448,628	10,132,924	10,302,443	...	...	...	...	4,875,215	4,875,215	19					
19	North Auckland	16,928,607	3,323,093	323,961	20,575,661	20,575,661	...	...	...	...	14,128,891	14,128,891	20					
20	North Canterbury	11,181,571	759,039	144,933	12,085,543	13,560,722	...	...	...	...	7,053,236	7,053,236	21					
21	Otago	9,746,298	...	110,257	9,856,555	11,563,221	...	...	...	...	5,917,718	5,917,718	22					
22	Otago Central	8,089,899	279,019	272,333	8,641,251	11,131,903	785,367	277,456	518,190	1,581,013	2,675,494	4,256,507	23					
23	Poverty Bay	13,319,312	...	179,793	13,499,105	14,065,658	...	...	...	...	7,597,042	7,597,042	24					
24	Rotorua	15,198,534	14,708	649,182	15,862,424	15,862,424	...	...	...	...	9,735,707	9,735,707	25					
25	South Canterbury	13,378,681	4,120,974	526,574	18,026,229	20,420,987	...	...	...	...	12,369,159	12,369,159	26					
26	Taranaki	9,399,833	...	172,934	9,572,767	9,572,767	...	...	...	...	5,193,447	5,193,447	27					
27	Taranaki	3,225,141	...	17,805	3,242,946	3,382,226	...	...	...	...	1,678,219	1,678,219	28					
28	Tasman	16,026,133	3,869,983	192,586	20,088,702	22,462,354	1,943,889	874,165	1,614,955	4,433,009	13,273,141	13,273,141	29					
29	Tauranga	19,395,748	1,783,728	498,387	21,677,863	21,677,863	...	...	...	...	8,148,361	8,148,361	30					
30	Te Awamutu	5,636,023	1,061	114,104	5,751,188	5,751,188	...	...	...	...	3,419,774	3,419,774	31					
31	Thames Valley	46,930,804	1,171,413	384,006	48,486,223	48,486,223	...	...	...	...	35,377,054	35,377,054	32					
32	Wairarapa	12,054,201	...	162,099	12,216,300	13,695,464	...	...	...	...	6,834,965	6,834,965	33					
33	Waioata	2,139,194	776,304	65,959	2,981,457	3,402,592	...	...	...	...	2,005,567	2,005,567	34					
34	Waikato	8,262,747	...	376,759	8,639,506	10,313,170	...	...	...	...	4,783,928	4,783,928	35					
35	Waitemata	64,783,206	...	2,876,751	67,659,957	68,639,227	...	...	...	...	44,759,378	44,759,378	36					
36	Waitemata	6,955,691	...	72,114	7,027,805	7,574,215	...	...	...	...	3,533,962	3,533,962	37					
37	Wanganui-Rangitikei	18,766,338	...	589,534	19,355,872	22,886,549	...	...	...	...	12,958,841	12,958,841	38					
38	West Coast	8,250,830	3,989	844,432	9,099,251	10,745,991	1,042,477	457,392	505,434	2,005,303	1,996,027	4,001,330	39					
		734,800,062	28,052,369	19,039,006	781,891,437	816,033,585	9,892,373	3,231,520	5,092,756	18,216,649	504,276,857	522,493,506	40					

TABLE I (PART I)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Income										Cost of Electricity						Total	No.
		Sales of Electricity			General Income			Appliance Sales and Servicing Income	Gross Income	Loan Interest	Generation			Purchased					
		Retail	Bulk for Resale	Other Sources	Total General Income	Depreciation	Operation and Maintenance <sup>1</sup>				Total								
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$				
<i>Territorial Authorities</i>																			
1	Bluff	914,316	..	195	914,511	292,135	1,206,646	..	..	..	..	..	..	..	680,455	680,455	1		
2	Christchurch	74,969,976	..	663,905	75,633,903	4,561,180	80,195,083	..	..	..	..	..	..	..	54,135,132	54,135,132	2		
3	Dunedin	36,177,607	..	853,153	37,030,760	1,537,916	38,568,676	300,000	300,000	1,533,000	3,452,535	5,285,535	..	..	17,558,068	22,843,602	3		
4	Hamilton	9,317,607	..	316,067	9,633,674	9,653,674	9,653,674	..	..	..	..	..	..	..	5,331,787	5,331,787	4		
5	Heathcote	2,517,945	..	135,141	2,653,086	23,566	2,676,652	..	..	..	..	..	..	..	2,035,168	2,035,168	5		
6	Invercargill	12,399,829	..	101,657	12,892,074	..	12,892,074	..	..	..	..	..	..	..	8,677,809	8,677,809	6		
7	Kaipara	1,168,468	..	44,305	1,212,773	419,694	1,632,467	..	..	..	..	..	..	..	759,039	759,039	7		
8	Lyttelton	990,508	..	34,889	1,025,397	210,065	1,235,462	..	..	..	..	..	..	..	634,570	634,570	8		
9	Napier	5,339,030	..	357,814	5,716,844	380,850	6,097,694	..	..	..	..	..	..	..	2,701,898	2,701,898	9		
10	Nelson	6,529,793	..	90,774	6,620,567	..	6,620,567	..	..	..	..	..	..	..	3,869,983	3,869,983	10		
11	New Plymouth	14,778,505	..	96,283	14,874,788	2,576,194	17,450,982	..	..	46,021	149,021	195,042	..	..	8,623,387	8,818,429	11		
12	Palmerston North	10,415,328	..	107,115	10,522,443	..	10,522,443	..	..	1,918	10,859	12,777	..	..	7,085,656	7,098,433	12		
13	Riccarton	2,825,271	..	56,392	2,881,663	285,795	3,167,458	..	..	..	..	..	..	..	1,888,487	1,888,487	13		
14	Taumarunui	1,084,678	..	64,190	1,149,035	..	1,149,035	23,077	23,077	..	55,614	78,691	..	..	652,351	731,042	14		
15	Taupo	6,773,810	..	365,107	7,138,917	..	7,138,917	774,776	774,776	232,989	342,882	1,350,647	..	..	3,196,973	4,547,620	15		
16	Tauranga	2,983,215	..	107,072	3,090,287	..	3,090,287	..	..	..	15,027	15,027	..	..	1,783,727	1,798,754	16		
17	Thames-Coromandel	1,585,193	..	9,506	1,594,699	11,456	1,606,155	..	..	..	..	..	..	..	1,167,060	1,167,060	17		
18	Timaru	6,128,226	..	123,855	6,252,081	353,019	6,605,100	..	..	..	..	..	..	..	4,120,974	4,120,974	18		
19	Wairoa	1,222,258	..	11,242	1,233,500	..	1,233,500	..	..	..	..	..	..	..	776,304	776,304	19		
20	Wellington	43,242,425	..	636,376	43,878,801	1,495,105	45,373,906	..	..	..	..	..	..	..	29,928,675	29,928,675	20		
21	Whakatane	2,396,364	..	30,255	2,426,619	..	2,426,619	..	..	..	..	..	..	..	1,485,767	1,485,767	21		
22	Whangarei	5,152,543	..	3,222	5,155,765	..	5,155,765	..	..	..	..	..	..	..	3,321,480	3,321,480	22		
Totals		248,952,895	390,777	4,208,515	253,552,187	12,146,975	265,699,162	1,097,853	1,813,928	4,025,938	6,937,719	160,414,750	167,352,469						
Less bulk for resale		1,107,379,684	665,003,621	34,157,918	1,806,541,223	46,289,123	1,852,830,346	207,594,204	58,289,682	162,539,621	428,363,507	665,370,457	1,093,733,964						
NET INCOME AND COST		1,107,379,684	..	34,157,918	1,141,537,602	46,289,123	1,187,826,725	207,594,204	58,289,682	162,539,621	428,363,507	366,856 <sup>2</sup>	428,730,343						

NOTES: <sup>1</sup>Included with the Electricity Division. <sup>2</sup>As for note 3, Table VI, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board. <sup>3</sup>Actual running costs including transport, wages, stores, and maintenance. Also includes cost of fuel: \$78,822,694. <sup>4</sup>Purchases from sources other than the Electricity Division or a supply authority.

TABLE I (PART ID)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Expenditure										Gross Expenditure	Net Results Surplus	No.				
		Supply Expenditure and Charges					Operation and Maintenance								Total Supply Expenditure	Appliance Sales and Servicing Expenditure		
		Transmission and Distribution		Properties Plant and Equipment		Consumer-related Costs	Total	Administration and General	Loan Interest	Depreciation	Total							
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
1	Electricity Division <sup>1</sup>	403,887,989	37,971,283	891,275	5,868	38,868,426	57,608,484	43,553,066	7,878,528	551,796,493	551,796,493	219,301,106						
<b>Government Department</b>																		
1	Southland <sup>2</sup>																	
<b>Power Boards and Related Authorities</b>																		
1	Ashburton	5,969,092	641,283	111,311	106,039	858,633	658,527	417,290	728,059	8,631,601	1,549,870	1,152,818						
2	Auckland	114,068,246	12,413,684	2,828,490	1,482,029	16,724,203	6,940,369	3,112,101	6,463,876	147,308,795	787,127	4,627,147						
3	Bay of Islands	6,591,426	1,068,655	172,209	101,981	1,342,845	993,789	483,414	830,194	10,245,668	28,448	982,452						
4	Bay of Plenty	13,926,980	1,024,505	450,635	191,659	1,666,799	1,194,101	343,336	695,660	19,828,876	1,200,381	890,536						
5	Buller	2,487,898	234,734	45,989	41,517	322,240	270,904	58,382	126,292	3,265,716	438,400	332,404						
6	Cambridge	2,825,085	411,205	78,669	159,008	489,874	246,617	6,175	202,393	3,770,144	900,829	741,506						
7	Central Canterbury	14,256,593	1,518,072	426,209	20,794	2,103,289	1,622,935	83,222	1,071,660	19,137,699	20,038,528	2,893,162						
8	Central Hawke's Bay	2,652,534	323,360	20,531	20,794	364,685	362,453	128,415	237,572	3,745,659	71,984	537,403						
9	Central Waikato	16,545,587	2,282,259	292,430	216,463	2,791,152	2,188,174	899,101	1,640,903	24,064,917	570,231	4,598,077						
10	Dannevirke	2,277,802	284,870	44,956	43,802	373,628	365,238	76,710	262,174	3,355,552	3,925,783	541,147						
11	Egmont	5,909,819	1,085,389	123,811	139,143	1,348,343	1,020,908	60,201	389,148	8,728,419	442,956	775,765						
12	Franklin	7,523,415	1,192,595	169,637	146,871	1,509,123	1,047,617	281,982	552,471	10,914,608	1,881,578	786,265						
13	Hawke's Bay	34,095,720	2,199,634	329,803	295,663	2,825,100	1,743,564	848,320	1,985,228	41,497,932	1,660,358	5,752,816						
14	Horowhenua	9,622,008	1,945,059	237,842	263,628	2,446,529	1,328,689	440,473	903,760	15,901,817	2,097,517	2,159,600						
15	Hutt Valley	36,799,781	6,262,378	774,287	996,288	8,032,953	4,770,462	1,344,326	1,967,300	52,914,822	2,372,222	5,145,219						
16	King Country	7,725,256	542,631	94,522	123,564	760,717	373,714	38,472	227,381	9,125,540	243,384	-9,561						
17	Manawatu-Oroua	17,350,691	1,057,767	127,942	153,057	1,792,549	1,224,149	152,936	974,839	21,495,160	611,436	3,406,915						
18	Marlborough	6,896,985	1,334,059	83,035	216,127	1,633,221	694,702	427,932	696,843	10,349,683	57,411	204,651						
19	North Auckland	14,128,891	1,028,463	676,995	68,906	1,774,364	1,437,900	414,748	1,292,486	19,048,389	1,372,222	1,327,272						
20	North Canterbury	7,053,236	1,112,964	174,263	190,593	1,477,820	801,586	609,679	737,537	10,679,858	1,372,222	1,508,642						
21	Otago	5,917,718	1,009,439	98,180	101,321	1,199,940	729,625	319,619	451,534	8,618,436	1,665,325	1,279,460						
22	Otago Central	4,256,507	1,057,767	137,120	51,572	1,246,459	751,977	358,336	435,159	7,048,438	2,410,080	1,673,385						
23	Poverty Bay	7,597,042	1,936,484	315,143	141,201	2,392,828	1,209,577	448,012	655,938	12,303,397	543,224	1,219,037						
24	Rotorua	9,735,707	1,315,986	144,007	156,752	1,616,745	1,225,977	177,951	493,544	13,249,924	1,372,222	2,612,500						
25	South Canterbury	12,569,159	1,796,518	335,714	34,078	2,166,310	1,176,850	263,653	817,188	16,793,160	2,262,002	1,365,823						
26	Taranaki	5,587,740	798,326	97,340	89,234	984,900	676,619	212,532	696,473	8,158,264	1,665,325	1,414,503						
27	Taranaki	1,678,219	261,869	58,820	43,774	363,963	324,591	137,014	212,801	7,048,438	2,410,080	1,512,650						
28	Taranaki	13,273,141	1,388,823	237,800	198,595	1,825,218	1,517,895	626,703	1,104,266	18,347,226	2,309,601	1,805,527						
29	Tasman	12,581,370	1,512,449	432,115	330,784	2,273,348	1,155,591	763,028	1,087,804	17,863,141	1,648,213	3,814,722						
30	Te Awamutu	3,419,774	398,105	57,232	115,252	570,589	385,887	1,050	292,076	4,669,376	4,669,376	1,081,812						
31	Thames Valley	35,377,054	3,218,493	902,228	177,905	4,298,626	2,178,325	1,144,489	1,555,261	44,553,755	44,553,755	3,932,468						
32	Waikato	1,678,219	993,955	303,847	236,305	1,533,644	1,023,228	939,566	936,211	11,362,604	1,441,330	891,530						
33	Waikato	2,005,567	254,440	36,591	29,929	320,960	258,792	59,372	114,154	2,758,845	394,901	248,846						
34	Waikato	4,783,928	743,181	168,172	150,679	1,062,032	669,919	147,476	603,030	7,268,385	1,648,213	1,396,572						
35	Waikato	44,876,733	5,400,371	1,565,455	633,710	7,599,536	4,231,567	2,269,103	3,308,954	62,288,893	9,889,913	5,363,421						
36	Waikato	4,381,581	560,001	138,501	86,228	784,730	554,422	88,753	614,371	6,423,857	554,422	593,709						
37	Wairarapa	13,013,936	2,075,731	358,260	178,221	2,612,212	1,484,409	296,031	949,327	18,355,915	3,311,960	1,218,674						
38	West Coast	4,001,330	801,836	322,301	162,633	1,286,790	670,292	398,225	601,946	6,958,583	1,636,733	2,150,675						
		522,493,506	63,931,656	12,972,412	7,874,825	84,778,893	49,513,941	18,882,128	36,917,816	712,586,284	32,735,051	70,712,250						



TABLE I (PART II)—FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Expenditure													Net Results Surplus	No.	
		Supply Expenditure and Charges															
		Cost of Electricity		Operation and Maintenance			Total	Admin- stration and General	Loan Interest	Depre- ciation	Total Supply Expend- iture	Appliance Sales and Servicing Expend- iture	Gross Expend- iture				
		Transmission and Distribution	Properties Plant and Equipment <sup>1</sup>	Consumer- related Costs <sup>2</sup>													
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
<i>Territorial Authorities</i>																	
1	Bluff	680,455	193,918	5,206	199,124	55,563	1,498	936,640	218,040	1,154,680	51,966						
2	Christchurch	54,135,132	3,783,536	1,173,550	5,875,009	3,470,297	563,053	66,996,173	4,264,796	71,260,969	8,934,114						
3	Dunedin	22,843,603	3,783,844	370,944	4,427,986	3,301,856	1,149,932	32,120,377	1,454,139	33,574,516	4,994,160						
4	Hamilton	5,331,787	1,130,203	147,865	1,611,396	1,206,612	30,678	8,149,795	28,393	8,178,188	1,503,879						
5	Heathcote	2,035,168	66,007	21,882	96,042	147,336	30,678	2,309,244	28,393	2,337,637	339,015						
6	Invercargill	8,677,809	1,094,030	69,878	1,319,255	592,323	296,614	11,284,983	11,284,983	11,284,983	1,607,091						
7	Kaipoi	759,039	5,319	12,933	67,678	127,403	13,155	975,275	395,964	1,371,239	261,228						
8	Lynelton	634,570	224,268	4,811	247,759	78,176	8,000	960,505	215,201	1,175,706	59,756						
9	Napier	2,701,898	392,977	70,727	819,542	441,626	272,562	4,327,652	304,444	4,832,096	1,265,398						
10	Nelson	3,869,983	650,182	168,426	898,123	489,039	194,646	5,624,023	...	5,624,023	996,344						
11	New Plymouth	8,818,429	1,441,585	200,642	1,875,818	993,943	91,104	12,459,633	2,457,687	14,917,320	2,533,662						
12	Palmerston North	7,098,433	1,454,494	71,942	1,649,387	941,705	132,714	10,062,703	240,464	10,303,167	459,740						
13	Riccarton	1,888,487	173,512	99,637	273,149	252,541	80,501	2,529,159	270,250	2,799,409	368,049						
14	Taumarunui	731,042	143,243	3,710	161,340	126,100	14,387	1,018,482	...	1,018,482	130,353						
15	Taupo	4,547,620	692,690	...	789,320	720,582	200,216	6,590,103	332,365	6,922,468	548,814						
16	Tauranga	1,798,754	107,902	10,640	170,218	319,281	18,644	2,306,897	...	2,306,897	783,390						
17	Thames-Coromandel	1,167,060	136,145	3,618	179,924	153,101	27,816	1,527,901	10,881	1,538,782	67,373						
18	Timaru	4,120,974	341,774	70,852	566,084	354,787	186,127	5,432,860	343,436	5,776,296	828,804						
19	Wairoa	776,304	119,221	8,349	143,960	130,481	6,156	1,092,910	36,009	1,128,919	140,390						
20	Wellington	29,928,675	3,175,074	1,015,723	4,662,135	2,826,034	529,465	38,926,602	1,428,250	40,354,852	5,019,054						
21	Whakatane	1,485,767	255,578	18,961	299,039	281,644	92,640	2,159,277	...	2,159,277	267,342						
22	Whangarei	3,321,480	288,846	45,619	370,859	395,509	...	4,134,708	...	4,134,708	1,021,057						
	Totals	167,352,469	19,674,348	3,496,278	26,703,147	17,405,959	2,732,252	222,125,902	11,391,481	233,517,383	32,181,779						
	Less bulk for resale	1,093,733,964	121,577,287	17,359,965	150,350,466	124,528,384	65,167,446	1,486,508,679	44,126,532	1,530,635,211	322,195,135						
	NET EXPENDITURE	428,730,343	121,577,287	17,359,965	150,350,466	124,528,384	65,167,446	821,505,058	44,126,532	865,631,590	322,195,135						

NOTES: <sup>1</sup>Included with the Electricity Division. <sup>2</sup>As for note 3, Table VI, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board. <sup>3</sup>Cost of maintenance of plant, equipment, buildings and properties. <sup>4</sup>Cost of recoverable street lighting maintenance, and non-recoverable costs of inspecting consumers' premises and appliance testing.



TABLE II (PART I)—ANALYSIS OF LIABILITIES AND RESERVES FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Liabilities						Reserves						No.	
		Public Debt (excl. Home Insulation and Solar Installation Loans)						Capital Reserves			Non-capital Reserves				Total
		Loans Raised During Year	Loans repaid During Year		Gross Loan Liability as at 31 March	Sundry Creditors (incl. Home Insulation and Solar Installation Loans)	Capital Reserves	Sinking Funds and Reserves for Future Loan Repayments	Other Reserves	Total	Accumulated Retained Surplus*	Total			
			From Redemption Funds	From Internal Sources and Sinking Funds											
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$				
<i>Territorial Authorities</i>															
1	Bluff	..	..	..	3,471	8,464	27,784	325,671	..	2,344	2,344	191,476	555,739	1	
2	Christchurch	..	..	..	325,904	5,145,856	14,250,315	41,981,398	666,289	..	666,289	15,062,656	77,106,514	2	
3	Dunedin	..	..	..	82,064	1,326,735	6,806,658	36,921,608	328,838	..	328,838	1,370,431	60,030,239	3	
4	Hamilton	..	..	..	..	..	135,606	8,861,939	..	61,958	..	3,945,722	13,005,225	4	
5	Heathcote	..	..	..	2,000	248,013	470,736	1,619,659	..	..	..	..	2,338,408	5	
6	Invercargill	..	..	..	140,000	3,846,338	2,177,181	5,381,049	634,620	80,506	715,126	..	12,119,694	6	
7	Kaapoi	..	..	..	23,041	125,291	215,993	810,288	22,019	36,578	58,597	326,889	1,537,058	7	
8	Lytelton	..	..	..	..	..	575,728	281,263	3,677,936	62,916	62,916	29,448	949,355	8	
9	Napier	..	..	..	..	..	150,700	2,571,980	738,685	..	738,685	640,106	8,200,173	9	
10	Nelson	..	..	..	4,572	1,645,428	661,832	3,335,253	41,494	..	41,494	352,133	6,036,140	10	
11	New Plymouth	..	..	..	119,386	1,052,220	258,500	12,130,315	267,715	1,469,551	1,737,266	1,881,025	17,059,326	11	
12	Palmerston North	..	..	..	18,942	1,115,001	1,721,028	5,796,681	33,500	..	33,500	2,433,417	11,101,627	12	
13	Riccarton	..	..	..	..	..	635,681	1,820,924	254,810	..	254,810	242,065	3,712,480	13	
14	Taumarunui	..	..	..	15,972	179,968	174,130	999,624	387,415	387,415	387,415	29,945	1,771,082	14	
15	Taupo	..	..	..	312,999	8,148,515	1,228,048	5,207,896	870,219	289,438	1,159,657	791,077	16,535,193	15	
16	Tauranga	..	..	..	27,600	153,500	511,879	3,863,524	136,636	572,153	658,789	648,888	5,836,580	16	
17	Thames-Coromandel	..	..	..	..	..	314,507	481,122	118,076	118,076	118,076	60,869	974,574	17	
18	Timaru	..	..	..	44,923	1,816,879	815,675	4,572,407	133,481	710,231	843,712	150,462	8,199,135	18	
19	Wairoa	..	..	..	7,097	76,465	192,821	833,841	..	..	..	72,913	1,176,040	19	
20	Wellington	..	..	..	369,905	5,610,020	5,646,993	38,306,726	1,864,404	7,998,528	9,862,932	1,674,658	61,101,329	20	
21	Whakatane	..	..	..	3,449	796	362,758	1,844,043	..	218,396	218,396	231,433	2,657,426	21	
22	Whangarei	..	..	..	..	..	1,054,275	2,401,295	..	48,697	48,697	1,845,693	5,349,960	22	
<b>GRAND TOTALS</b>		..	..	..	2,593,308	161,000	1,741,314	33,830,469	38,515,129	181,748,927	5,994,710	25,282,756	31,277,466	317,353,297	
		..	..	..	234,679,599	587,628	91,197,194	3,061,177,331	213,109,873	749,452,953	44,766,254	71,652,246	116,418,500	1,108,903,777	5,249,062,434

NOTES: Includes Southland Electric Power Supply. <sup>1</sup>Included with the Electricity Division. <sup>2</sup>As for note 3, Table VI, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board.  
<sup>3</sup>Includes gains on foreign currency realignments \$3,066,431. <sup>4</sup>Shown as General Reserve in Section A table (ii), but in this table has been shown under this heading as it is more closely related to the supply authorities. <sup>5</sup>Accumulated Retained Surplus.  
<sup>6</sup>Subject to auditing after table published.

TABLE II (PART II)—ANALYSIS OF ASSETS FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Assets							Accumulated Deficit*	Total	No.
		Capital Expenditure less Depreciation*	Stocks and Materials (non-loan)†	Sundry Debtors	Non-loan Cash and Investments	Loan Cash, Stock and Investments					
		\$	\$	\$	\$	\$	\$	\$	\$		
1	Electricity Division¹	3,279,382,954	134,683,276	168,386,048	...	4,541,750	...	3,586,994,028	1		
1	Government Department	...	...	...	...	...	...	...	...		
	Southland²	...	...	...	...	...	...	...	...		
	<i>Power Boards and Related Authorities</i>										
1	Ashburton	17,478,876	2,402,815	1,260,909	2,611,263	1,545,788	123,659	6,927,012	6	23,753,863	
2	Auckland	132,298,279	8,194,260	9,007,490	24,183,398	4,396,793	63,840	32,043,921	7	174,397,977	
3	Bay of Islands	14,810,861	891,413	870,803	2,079,119	916,339	134,373	6,961,942	8	22,611,055	
4	Bay of Plenty	38,253,518	1,134,352	2,385,190	6,686,330	5,788,156	48,322	43,349,324	9	49,059,390	
5	Buller	2,467,411	463,282	576,982	831,438	435,666	16,673	6,567,212	10	4,499,354	
6	Cambridge	4,617,704	250,298	389,563	1,545,788	123,659	6,927,012	6	6,927,012	6	
7	Central Canterbury	22,513,692	2,485,144	2,384,452	4,396,793	63,840	32,043,921	7	32,043,921	7	
8	Central Hawke's Bay	5,089,422	523,156	298,452	916,339	134,373	6,961,942	8	6,961,942	8	
9	Central Waikato	30,947,164	2,345,604	4,220,078	5,788,156	48,322	43,349,324	9	43,349,324	9	
10	Dannevirke	5,016,751	584,916	513,206	435,666	16,673	6,567,212	10	6,567,212	10	
11	Egmont	81,998,007	599,378	623,716	410,646	83,631,697	11	83,631,697	11	83,631,697	
12	Franklin	10,428,469	1,093,539	1,535,051	3,371,341	501,212	16,929,612	12	16,929,612	12	
13	Hawke's Bay	35,807,404	2,566,939	3,466,517	8,967,781	2,573,932	53,382,573	13	53,382,573	13	
14	Horowhenua	18,335,110	1,574,027	1,168,637	1,168,637	1,761,066	25,134,275	14	25,134,275	14	
15	Hutt Valley	46,782,862	3,747,973	5,977,012	18,650,505	...	75,158,352	15	75,158,352	15	
16	King Country...	2,877,711	743,736	1,945,057	4,173,903	550,000	10,290,407	16	10,290,407	16	
17	Manawatu-Oroua	16,167,736	1,437,326	4,569,271	7,657,434	103,108	29,851,767	17	29,851,767	17	
18	Marlborough	34,321,318	1,084,719	5,648,545	1,289,804	103,108	42,388,731	18	42,388,731	18	
19	North Auckland	27,366,908	1,339,939	3,099,982	3,707,214	4,370	35,518,413	19	35,518,413	19	
20	North Canterbury	15,100,617	1,442,651	1,658,384	970,426	40,736	19,212,804	20	19,212,804	20	
21	Otago	36,003,383	1,809,965	1,730,932	2,026,185	27,250	41,597,715	21	41,597,715	21	
22	Otago Central	16,713,554	1,469,730	1,768,269	3,638,671	450,000	24,042,224	22	24,042,224	22	
23	Poverty Bay	13,503,615	1,598,003	965,372	617,292	319,187	17,003,469	23	17,003,469	23	
24	Rotorua	56,489,307	932,027	1,572,045	8,842,692	635,826	68,471,897	24	68,471,897	24	
25	South Canterbury	16,148,085	2,415,714	3,060,509	1,661,616	...	23,285,924	25	23,285,924	25	
26	Taranaki	13,353,594	1,100,929	840,820	2,304,016	100,000	17,699,359	26	17,699,359	26	
27	Taranaki	4,328,399	265,041	314,853	394,455	5,302,748	5,302,748	27	5,302,748	27	
28	Tasman	18,850,187	2,188,315	3,330,214	1,601,039	10,000	25,979,755	28	25,979,755	28	
29	Tairāngā	74,327,216	1,338,629	2,047,695	2,607,495	1,000,000	81,321,035	29	81,321,035	29	
30	Te Awamutu	6,207,460	116,668	467,091	1,645,937	...	8,437,156	30	8,437,156	30	
31	Thames Valley	27,858,474	2,609,156	7,370,745	9,027,598	350,000	47,215,973	31	47,215,973	31	
32	Wairarapa	13,111,975	1,740,052	1,707,888	1,965,619	100,000	18,565,534	32	18,565,534	32	
33	Waioata	15,417,119	329,917	702,285	136,180	...	16,585,501	33	16,585,501	33	
34	Waikato	10,045,517	1,188,791	1,267,387	1,955,554	207,452	14,664,701	34	14,664,701	34	
35	Waitemata	61,545,727	3,984,925	5,908,840	24,955,336	3,000,000	99,394,828	35	99,394,828	35	
36	Waitemata	14,835,553	981,331	1,202,627	989,093	42,416	18,051,020	36	18,051,020	36	
37	Wanganui-Rangitikei	16,223,790	3,058,756	2,978,768	1,747,327	1,136,329	25,144,970	37	25,144,970	37	
38	West Coast	22,433,229	1,701,314	709,337	2,890,912	320,827	28,061,619	38	28,061,619	38	
		1,000,078,004	63,760,680	92,891,772	168,989,398	18,854,018	1,344,715,109				

TABLE II (PART II)—ANALYSIS OF ASSETS FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Assets							Accumulated Deficit <sup>1</sup>	Total	No.
		Capital Expenditure less Depreciation <sup>2</sup>	Stocks and Materials (non-loan) <sup>3</sup>	Sundry Debtors	Non-loan Cash and Investments	Loan Cash, Stock and Investments					
		\$	\$	\$	\$	\$	\$	\$	\$		
<i>Territorial Authorities</i>											
1	Bluff ..	334,135	80,096	124,000	17,508	666,289	...	555,739	1		
2	Christchurch ..	47,127,254	2,942,598	6,971,313	19,399,060	...	...	77,106,514	2		
3	Dunedin ..	39,248,344	2,941,218	3,300,066	14,540,611	...	...	60,030,239	3		
4	Hamilton ..	8,861,939	...	697,676	3,445,610	...	...	13,005,225	4		
5	Heathcote ..	2,035,517	99,898	91,998	...	2,328	108,667	2,338,408	5		
6	Invercargill ..	8,917,629	859,205	814,175	733,826	309,758	485,101	12,119,694	6		
7	Kaapoi ..	1,008,232	115,845	193,530	219,451	...	...	1,537,058	7		
8	Lytelton ..	575,728	143,186	167,525	62,916	...	...	949,355	8		
9	Napier ..	6,249,916	573,426	419,262	957,569	...	...	8,200,173	9		
10	Nelson ..	4,914,202	178,168	475,882	436,279	31,609	...	6,036,140	10		
11	New Plymouth ..	11,936,648	1,244,081	1,266,473	2,612,124	...	...	17,059,326	11		
12	Palmerton North ..	6,858,015	675,621	454,276	3,024,548	89,167	...	11,101,627	12		
13	Riccarton ..	2,637,896	324,708	324,357	170,709	254,810	...	3,712,480	13		
14	Taumarunui ..	1,400,013	33,368	125,241	212,460	...	...	1,771,082	14		
15	Taupo ..	12,921,191	834,522	564,092	2,215,388	...	...	16,535,193	15		
16	Tauranga ..	4,007,001	282,845	222,162	1,324,572	...	...	5,836,580	16		
17	Thames-Coromandel ..	481,122	111,338	165,600	216,514	...	...	974,574	17		
18	Timaru ..	6,242,367	444,844	319,414	1,045,590	146,920	...	8,199,135	18		
19	Waioa ..	893,908	58,534	22,440	201,158	...	...	1,176,040	19		
20	Wellington ..	42,877,207	2,734,436	3,087,850	11,406,836	995,000	...	61,101,329	20		
21	Whakatane ..	1,841,988	215,696	129,167	470,575	...	...	2,657,426	21		
22	Whangarei ..	2,332,637	331,262	613,921	2,071,698	442	...	5,349,960	22		
<b>GRAND TOTALS</b>		213,702,889	15,224,895	20,550,420	64,785,002	2,496,323	593,768	317,353,297			
		4,493,163,847	213,668,851	281,828,240	233,774,400	25,892,091	735,005	5,249,062,434			

NOTES: <sup>1</sup>Includes Southland Electric Power Supply.  
<sup>2</sup>Subject to auditing after table published.

<sup>3</sup>Included with the Electricity Division.

<sup>4</sup>As for note 2, Table VI, and as a result the operations of the Tauranga Joint Generation Committee have

TABLE III—ANALYSIS OF CAPITAL EXPENDITURE FOR THE YEAR ENDED 31 MARCH 1984

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 Current Year	from Depreciation Provision for Current Year	from Reserves	from Other Sources	Total			
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
1	Electricity Division <sup>1</sup>	212,338,506	64,659,155	9,125,094	286,122,755	...	143,994,644	81,005,349	61,122,762	...	...	...	286,122,755	1	
<i>Government Department</i>															
1	Southland <sup>2</sup>	...	...	...	...	...	...	...	...	...	...	...	...	1	
<i>Power Boards and Related Authorities</i>															
1	Ashburton	105,244	2,186,396	453,442	2,745,082	358,803	750,000	787,960	591,646	256,673	159,341	2,745,082	1		
2	Auckland	...	12,538,603	3,805,092	16,343,695	608,783	5,263,680	3,400,000	1,806,281	5,105,610	...	16,343,695	2		
3	Bay of Islands	...	1,784,520	625,359	2,409,879	208,546	878,140	492,999	830,194	...	...	2,409,879	3		
4	Bay of Plenty	182,839	1,927,001	461,072	2,570,912	106,625	600,000	955,258	881,807	4,736	22,486	2,570,912	4		
5	Buller	...	219,896	40,982	260,878	15,194	32,996	204,052	8,636	...	...	260,878	5		
6	Cambridge	...	743,605	126,260	869,865	22,244	...	636,671	202,393	...	8,557	869,865	6		
7	Central Canterbury	...	2,898,011	1,005,414	3,903,425	222,469	...	2,578,754	1,071,660	...	30,542	3,903,425	7		
8	Central Hawke's Bay	...	467,021	348,312	815,333	70,578	235,458	279,070	1,702,227	60,000	...	815,333	8		
9	Central Waikato	...	3,998,187	597,674	4,595,861	420,430	716,539	3,458,892	243,919	...	...	4,595,861	9		
10	Dannevirke	...	567,114	163,361	730,475	54,864	...	381,692	243,919	50,000	...	730,475	10		
11	Fairmont	25,734,208	490,147	219,808	26,444,163	...	25,679,480	283,647	392,660	...	88,376	26,444,163	11		
12	Franklin	...	1,409,364	379,052	1,788,416	129,240	927,167	305,895	330,531	78,861	16,722	1,788,416	12		
13	Hawke's Bay	...	4,540,730	2,627,099	7,167,829	54,800	1,602,160	2,632,720	1,026,046	1,852,103	...	7,167,829	13		
14	Horowhenua	...	2,128,797	705,158	2,833,955	324,966	687,000	1,440,405	381,584	...	...	2,833,955	14		
15	Hutt Valley	...	2,847,679	1,337,233	4,184,912	57,964	1,368,048	2,500,000	...	258,900	...	4,184,912	15		
16	King Country	...	429,526	72,465	501,991	193,220	...	100,383	208,388	...	...	501,991	16		
17	Manawatu-Oroua	...	1,588,367	597,577	2,185,944	63,071	...	1,045,357	974,839	...	102,677	2,185,944	17		
18	Mariborough	4,458,499	1,646,892	972,709	7,078,100	187,901	5,675,752	782,061	432,386	...	...	7,078,100	18		
19	North Auckland	...	3,974,638	554,367	4,529,005	570,698	1,559,262	1,42,653	495,400	400,000	360,992	4,529,005	19		
20	North Canterbury	...	2,313,953	368,171	2,682,124	365,232	430,000	1,184,986	701,906	...	...	2,682,124	20		
21	Otago	7,633,787	888,349	2,917,104	11,439,240	118,204	10,418,750	508,187	339,528	...	54,571	11,439,240	21		
22	Otago Central	374,297	1,681,680	681,681	2,737,658	869,165	705,000	663,832	499,661	...	...	2,737,658	22		
23	Poverty Bay	...	1,309,472	383,946	1,693,418	44,951	500,000	794,258	288,349	...	65,860	1,693,418	23		
24	Rotorua	5,642,788	931,283	6,101,929	12,676,000	98,511	8,521,766	564,585	267,442	366,162	2,857,534	12,676,000	24		
25	South Canterbury	...	1,565,346	375,970	1,941,316	227,527	250,000	748,595	543,612	171,582	...	1,941,316	25		
26	Taranaki	37,839	1,813,394	2,179,224	4,030,457	103,973	1,243,106	1,950,243	733,135	...	...	4,030,457	26		
27	Taranua	...	556,223	74,348	630,571	...	100,000	317,770	212,801	...	...	630,571	27		
28	Tasman	169	2,413,558	1,216,787	3,630,514	304,526	983,623	1,141,096	1,104,269	97,000	...	3,630,514	28		
29	Tauranga <sup>3</sup>	366,549	3,783,830	3,983,057	8,133,436	257,391	4,393,590	3,062,059	440,396	...	...	8,133,436	29		
30	Te Awamutu	...	641,265	519,355	1,160,620	...	...	868,344	292,076	...	...	1,160,620	30		
31	Thames Valley	...	3,620,977	559,287	4,180,264	332,240	600,000	1,717,855	1,511,986	...	18,183	4,180,264	31		
32	Waikato	54,471	1,747,463	288,147	2,090,081	143,537	1,018,100	683,651	244,793	...	...	2,090,081	32		
33	Wauroa	4,581,228	1,295,777	1,532,401	7,409,406	1,950	7,209,820	120,421	77,215	...	...	7,409,406	33		
34	Wairarapa	...	1,111,406	393,160	1,504,566	52,168	...	905,289	547,109	...	...	1,504,566	34		
35	Waitemata	...	6,920,319	2,906,576	9,826,895	631,551	2,100,660	3,634,045	2,623,283	714,733	120,623	9,826,895	35		
36	Waitemata	...	968,856	469,004	1,491,693	17,242	232,656	533,295	646,172	...	62,328	1,491,693	36		
37	Wairarapa-Rangitikei	...	1,311,574	1,313,712	2,625,286	95,009	408,073	1,412,730	709,474	...	...	2,625,286	37		
38	West Coast	148,401	2,376,689	237,461	2,762,551	74,515	521,036	1,388,360	778,640	...	...	2,762,551	38		
												174,605,816			
												22,612,444	9,416,360	3,968,792	174,605,816

TABLE III—ANALYSIS OF CAPITAL EXPENDITURE FOR THE YEAR ENDED 31 MARCH 1984—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-lean)	from Loans	from Income for Current Year	from Depreciation Provision for Current Year	from Reserves	from Other Sources				
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
<i>Territorial Authorities</i>															
1	Bluff	...	3,589	11,791	15,380	...	...	15,380	...	...	...	...	...	15,380	1
2	Christchurch	...	6,595,775	1,531,959	8,127,734	...	313,542	4,861,510	...	...	...	...	...	8,127,734	2
3	Dunedin	...	575,490	715,522	5,912,426	4,265	1,859,565	638,099	...	3,410,497	...	...	...	5,912,426	3
4	Hamilton	...	873,590	145,994	1,019,584	...	...	1,019,584	...	...	...	...	...	1,019,584	4
5	Heathcote	...	122,175	28,421	150,596	...	...	150,596	...	...	...	...	...	150,596	5
6	Invercargill	...	1,284,535	63,991	1,348,526	...	1,007,607	63,440	267,434	...	10,045	...	...	1,348,526	6
7	Kaipoi	...	169,765	18,280	188,045	...	...	188,045	...	...	...	...	...	188,045	7
8	Lytelton	...	68,956	47,880	116,836	...	...	116,836	...	...	...	...	...	116,836	8
9	Napier	...	789,385	38,491	827,876	...	48,000	487,852	292,024	...	...	...	...	827,876	9
10	Nelson	...	942,012	62,787	1,004,799	...	563,913	268,654	172,232	...	...	...	...	1,004,799	10
11	New Plymouth	6,436	879,800	691,932	1,578,168	63,560	...	788,248	726,360	...	...	...	...	1,578,168	11
12	Palmerston North	...	690,180	233,859	924,039	103,483	224,334	353,840	242,382	...	...	...	...	924,039	12
13	Riccarton	...	471,805	20,057	491,862	...	197,000	294,862	...	...	...	...	...	491,862	13
14	Taumarunui	5,355	50,106	...	55,461	...	...	55,461	...	...	...	...	...	55,461	14
15	Taupo	29,799	767,316	198,817	995,932	8,085	124,200	506,646	357,001	...	...	...	...	995,932	15
16	Tauranga	6,217	319,878	68,807	394,902	...	...	394,902	...	...	...	...	...	394,902	16
17	Thames-Coromandel	...	52,359	3,478	55,837	5,849	...	22,172	27,816	...	...	...	...	55,837	17
18	Timaru	...	1,128,261	157,957	1,286,218	34,053	550,709	286,569	414,887	...	...	...	...	1,286,218	18
19	Wauroa	...	59,124	7,400	66,524	...	...	30,515	36,009	...	...	...	...	66,524	19
20	Wellington	...	2,037,075	678,816	2,715,891	189,080	...	2,246,717	...	280,094	...	...	...	2,715,891	20
21	Whakatane	...	269,143	(6,425)	262,718	...	...	173,527	89,191	...	...	...	...	262,718	21
22	Whangarei	...	391,276	72,119	463,395	...	...	463,395	...	...	...	...	...	463,395	22
<b>GRAND TOTALS</b>		4,669,221	18,541,595	4,791,933	28,002,749	408,375	4,888,870	13,426,850	5,163,131	4,105,478	10,045	28,002,749	488,731,320		
		266,381,879	166,838,658	55,510,783	488,731,320	7,796,463	234,495,376	140,040,469	88,898,337	13,521,838	3,978,837	488,731,320			

NOTES: <sup>1</sup>Included with the Electricity Division.<sup>2</sup>As for note 3, Table VI, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board.

TABLE IV—GENERATION FOR PUBLIC SUPPLY—ELECTRICITY DIVISION ONLY  
FOR THE YEAR ENDED 31 MARCH 1984

Station	Maximum Load kW	Units Generated kWh	Annual Load Factor %	Availability Factor %	Station Type and Fuel Used
<b>NORTH ISLAND THERMAL</b>					
Huntly <sup>1</sup>	496 300	1 298 320 000	27.98	60.42	steam turbine, natural gas or coal
Marsden	231 600	85 222 100	4.19	58.39	steam turbine, residual oil
Meremere	109 400	268 233 000	27.91	40.03	steam turbine, coal
New Plymouth	493 000	2 265 137 000	52.31	68.96	steam turbine, natural gas or residual oil
Otauhu	208 400	55 373 300	3.02	63.31	gas turbine, natural gas or distillate oil
Stratford	222 500	507 411 000	25.96	80.09	gas turbine, natural gas
Wairakei	151 300	1 150 100 600	86.54	83.49	geothermal
Whirinaki	191 600	9 028 100	0.54	78.71	gas turbine, distillate oil
		5 638 825 100			
<b>NORTH ISLAND HYDRO</b>					
Arapuni	155 200	760 555 000	55.79	85.65	
Aratua	84 900	309 055 300	41.44	93.86	
Auatani	79 500	268 529 100	38.45	89.42	
Karapiro	102 800	486 970 900	53.93	78.20	
Mangahao	20 700	92 704 300	50.98	90.38	
Maraeata	290 000	763 627 100	29.97	92.55	
Maushina	76 000	282 948 000	42.38	95.54	
Ohakuri	113 900	375 319 700	37.51	93.35	
Rangipo <sup>1</sup>	65 100	334 981 900	58.58	93.92	
Tokaanu	215 400	800 804 800	42.32	90.12	
Waikaremoana:		68 332 700		92.34	
Kaitawa		109 833 500	30.13	89.02	
Piripaua	129 900	165 602 900		71.86	
Tua	53 700	230 533 000	48.87	84.82	
Waipapa	104 700	457 831 100	49.78	90.43	
Whakamaru		5 507 649 200			
<b>SOUTH ISLAND HYDRO</b>					
Arnold	3 300	26 646 800	91.93	93.39	
Aviemore	243 200	1 124 001 300	52.61	93.16	
Benmore	567 500	2 629 812 300	52.75	93.82	
Cobb	34 700	179 133 900	58.77	74.85	
Coleridge	39 500	247 074 800	71.21	82.83	
Highbank	26 600	53 289 600	22.81	54.60	
Manapouri	596 800	4 827 102 000	92.08	84.59	
Monowai	6 600	43 278 800	74.65	...	
Ohau A	257 000	1 130 394 000	50.07	83.14	
Ohau B <sup>2</sup>	215 600	105 496 000	...	...	
Ohau C	336 400	1 792 452 100	60.66	94.89	
Roxburgh	26 700	169 192 100	72.14	95.81	
Tekapo A	154 100	914 154 000	67.53	89.39	
Tekapo B	108 000	608 809 900	64.17	88.36	
Waiaki		13 850 837 600			
		24 997 311 900			
<b>TOTAL ELECTRICITY DIVISION</b>					

<sup>1</sup>New station partly commissioned.

<sup>2</sup>New station commissioned during year





TABLE V—STATISTICS OF GENERATING PLANT, SYSTEM VOLTAGES, CIRCUIT-KILOMETRES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Source of supply <sup>1</sup>	Capacity of Generating Plant				Static Head in Metres	Voltages			Distribution Substations		Circuit-Kilometres of Lines	No.
			Hydro	Steam	Oil/Gas	Total Capacity		Transmission	Generation	Number	kVA			
			kW	kW	kW	kW								
<i>Electricity Division<sup>1</sup></i>														
1	North Island	G.	...	...	...	3 587 200	...	...	...	500 000	...	194	9 139 600	9 543
	Arapua		156 000	...	...	...	53	...	...	11 000	...	...	...	...
	Aratua		84 000	...	...	...	34	...	...	11 000	...	...	...	...
	Atiamuri		81 000	...	...	...	25	...	...	11 000	...	...	...	...
	Huntly <sup>2</sup>		...	237 000	...	...	30	...	...	16 500	...	...	...	...
	Karapiro		90 000	...	...	...	273	...	...	11 000	...	...	...	...
	Mangahao		20 000	...	...	...	61	...	...	11 000	...	...	...	...
	Marsden		360 000	...	...	...	...	...	...	14 400	...	...	...	...
	Marsden		...	230 000	...	...	...	...	...	11 000	...	...	...	...
	Matahina		72 000	...	...	...	61	...	...	11 000	...	...	...	...
	Meremere		...	170 000	...	...	...	...	...	11 000	...	...	...	...
	New Plymouth		...	600 000	...	...	...	...	...	13 800	...	...	...	...
	Ohaokuri		112 000	...	...	...	35	...	...	11 000	...	...	...	...
	Oxahuhu		...	...	259 000	...	...	...	...	11 000	...	...	...	...
	Rangipo <sup>3</sup>		60 000	...	...	...	206	...	...	11 000	...	...	...	...
	Stratford		...	...	208 000	...	208	...	...	11 000	...	...	...	...
	Tokaanu		200 000	...	...	...	...	...	...	11 000	...	...	...	...
	Waikaremoana:		...	...	...	...	...	...	...	...	...	...	...	...
	Katawa		32 000	...	...	...	135	...	...	6 000	...	...	...	...
	Piripaua		40 000	...	...	...	113	...	...	11 000	...	...	...	...
	Tua		52 000	...	...	...	206	...	...	11 000	...	...	...	...
	Waipapa		51 000	...	...	...	16	...	...	11 000	...	...	...	...
	Wairakei		...	157 200	...	...	...	...	...	11 000	...	...	...	...
	Whakamaru		100 000	...	...	...	38	...	...	11 000	...	...	...	...
	Whirinaki		...	...	216 000	...	...	...	...	11 000	...	...	...	...
2	South Island	G.	...	...	...	2 556 960	...	...	...	500 000	...	7 860	4 079 081	15 247 <sup>1</sup>
	Arnold		3 060	...	...	...	13	...	...	43 300	...	...	...	...
	Aviemore		240 000	...	...	...	37	...	...	11 000	...	...	...	...
	Benmore		540 000	...	...	...	92	...	...	16 000	...	...	...	...
	Cobb		32 000	...	...	...	594	...	...	6 600	...	...	...	...
	Coleridge		34 500	...	...	...	149	...	...	6 600	...	...	...	...
	Highbank		25 200	...	...	...	101	...	...	11 000	...	...	...	...
	Manapouri		590 000	...	...	...	177	...	...	13 800	...	...	...	...
	Monowai		6 000	...	...	...	47	...	...	6 600	...	...	...	...
	Ohau "A"		264 000	...	...	...	58	...	...	13 200	...	...	...	...
	Ohau "B" <sup>10</sup>		212 000	...	...	...	48	...	...	11 000	...	...	...	...
	Roxburgh		320 000	...	...	...	46	...	...	11 000	...	...	...	...
	Tekapo "A"		25 200	...	...	...	30	...	...	11 000	...	...	...	...
	Tekapo "B"		160 000	...	...	...	146	...	...	11 000	...	...	...	...
	Waiaki		105 000	...	...	...	21	...	...	11 000	...	...	...	...
			4 066 960	1 394 200	683 000	6 144 160	...	...	...	...	...	8 054	13 218 681	24 791 <sup>1</sup>

TABLE V—STATISTICS OF GENERATING PLANT, SYSTEM VOLTAGES, CIRCUIT-KILOMETRES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Source of supply <sup>1</sup>	Capacity of Generating Plant			Static Head in Metres	Voltages			Distribution Substations		Circuit-Kilometres of Lines	
			Hydro	Steam	Oil/Gas		Total Capacity	Generation	Transmission	Distribution <sup>2</sup>	Number		kVA
			kW	kW	kW	kW							
1	Government Department	G.	6 000	...	...	6 000	47	66 000	33 000; 11 000; 6 600; 6 350	...	7 752	536 931	7 929
<i>Power Boards and Related Authorities</i>													
1	Ashburton	I & G.	1 900	...	...	1 900	7	3 300	33 000; 11 000	...	3 292	200 829	3 448
2	Auckland	G.	...	...	...	...	...	...	33 000; 22 000; 11 000; 6 600	...	6 581	3 786 869	7 308
3	Bay of Islands	G.	...	...	...	...	...	...	33 000; 11 000; 6 350	...	3 373	205 746	4 168
4	Bay of Plenty	I. & G.	25 375	...	...	25 375	38; 9	11 000; 415	33 000; 11 000	...	2 127	232 049	2 056
5	Buller	I. & G.	...	...	297	297	...	3 300	33 000; 11 000	...	418	34 658	693
6	Cambridge	G.	...	...	...	...	...	...	11 000	...	933	56 295	1 028
7	Central Canterbury	G.	...	...	...	...	...	...	33 000; 11 000	...	4 547	464 856	3 464
8	Central Hawke's Bay	G.	...	...	...	...	...	...	33 000; 11 000	...	1 545	76 419	2 155
9	Central Waikato	G.	...	...	...	...	...	...	33 000; 11 000	...	2 936	418 197	4 824
10	Dannevirke	G.	...	...	...	...	...	...	11 000; 6 600	...	1 150	50 364	1 024
11	Eromoni	I. & G.	360	...	...	360	15	6 600	33 000; 11 000	...	1 448	76 755	1 760
12	Franklin	G.	...	...	...	...	...	...	33 000; 11 000	...	1 806	209 048	2 813
13	Hawke's Bay	G.	...	...	...	...	...	...	33 000; 11 000	...	3 472	581 565	4 515
14	Herewhenua	G.	...	...	...	...	...	...	33 000; 11 000; 3 300	...	1 786	222 421	1 688
15	Hutt Valley	G.	...	...	...	...	...	...	33 000; 11 000	...	2 708	902 945	2 184
16	King Country	I. & G.	6 000	...	...	6 000	67	6 600	33 000; 11 000; 6 600	...	1 460	103 984	2 360
17	Manawatu-Oroua	I. & G.	12 000	...	...	12 000	21; 30; 42	3 300; 6 600	33 000; 11 000; 6 600	...	2 135	350 045	2 586
18	Marlborough	I. & G.	...	...	1 330	1 330	...	...	33 000; 11 000	...	2 137	205 191	2 637
19	North Auckland	G.	...	...	...	...	...	...	33 000; 11 000	...	3 958	412 357	4 587
20	North Canterbury	G.	...	...	...	...	...	...	33 000; 11 000	...	4 031	172 821	4 282
21	Otago	G.	...	...	...	...	...	...	33 000; 22 000; 11 000; 6 600; 6 350	...	3 308	183 188	4 540
22	Otago Central	I. & G.	17 785	...	...	17 785	309; 301; 244; 205; 125; 117; 88; 71; 65	6 600; 3 300; 415; 400	33 000; 11 000; 6 600	...	1 800	95 981	2 372
23	Poverty Bay	G.	...	...	...	...	...	...	50 000; 11 000	...	2 320	175 445	2 781
24	Rotorua	G.	...	...	...	...	...	...	33 000; 11 000	...	1 552	115 818	1 809
25	South Canterbury	G.	...	...	...	...	...	...	33 000; 22 000; 11 000	...	3 837	242 097	3 295
26	Taranaki	I. & G.	4 800	...	...	4 800	100	6 600	33 000; 11 000; 6 600	...	1 811	174 140	2 461
27	Taranaki	I. & G.	...	...	...	...	...	...	33 000; 11 000	...	1 176	42 994	1 289
28	Tasman	I. & G.	200	...	...	200	115	400	33 000; 11 000; 6 600	...	2 675	284 111	3 155
29	Tauranga	I. & G.	43 800 <sup>3</sup>	...	...	43 800 <sup>3</sup>	151; 85; 34; 25	11 000; 3 300	33 000; 11 000; 6 300	...	3 290	390 978	3 600
30	Te Awamutu	I. & G.	...	...	...	...	...	...	11 000	...	1 283	63 275	1 260
31	Thames Valley	G.	...	...	...	...	...	...	66 000; 33 000; 11 000	...	4 645	483 810	6 944
32	Wairarapa	I. & G.	770	...	...	770	88; 131	3 300	33 000; 11 000	...	2 908	226 452	2 957
33	Waikato	G.	...	...	...	...	...	...	11 000	...	696	25 643	1 041
34	Waikato	G.	...	...	...	...	...	...	33 000; 11 000	...	1 844	164 386	1 820
35	Waitemata	I. & G.	...	...	6 000	6 000	...	11 000	33 000; 11 000	...	7 495	1 389 074	8 710
36	Waitemata	I. & G.	6 478	...	...	6 478	20; 41	11 000; 3 300; 500; 400	33 000; 22 000; 11 000; 6 600	...	2 527	131 101	2 861
37	Wanganui-Rangitikei	I. & G.	346	...	...	346	116	6 600; 3 300	33 000; 22 000; 11 000; 6 600	...	3 212	242 472	4 190
38	West Coast	I. & G.	13 166	...	375	13 541	198; 78; 76; 55; 53; 46; 33; 33; 13	11 000; 3 300; 2 200; 415; 420	33 000; 11 000	...	1 284	75 832	1 818
			132 980	...	8 002	140 982	...	...	...	...	99 506	13 250 409	116 581

TABLE V—STATISTICS OF GENERATING PLANT, SYSTEM VOLTAGES, CIRCUIT-KILOMETRES OF LINES, DISTRIBUTION SUBSTATIONS, ETC., FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Source of supply <sup>1</sup>	Capacity of Generating Plant				Static Head in Metres	Voltages			Distribution Substations		Circuit-Kilometres of Lines	No.
			Hydro	Steam	Oil/Gas	Total Capacity		Generation	Transmission	Distributor <sup>4</sup>	Number	kVA		
			kW	kW	kW	kW								
<i>Territorial Authorities</i>														
1	Bluff	B.	...	...	...	...	...	...	...	...	...	...	...	...
2	Christchurch	G.	...	...	...	...	...	...	...	...	...	...	...	...
3	Dunedin	I. & G.	82 177	...	...	82 177	218; 57; 51; 34; 34	110 000; 33 000	...	6 600	...	...	2 098	1 118 631
4	Hamilton	G.	...	...	...	...	...	33 000; 11 000	...	...	...	1 841	837 379	
5	Heathcote	G.	...	...	...	...	...	33 000; 11 000	...	...	...	176	205 650	
6	Invercargill	B.	...	...	...	...	...	11 000	...	...	...	69	27 905	
7	Kaipara	B.	...	...	...	...	...	33 000; 11 000	...	...	...	321	158 155	
8	Lytelton	G.	...	...	...	...	...	11 000	...	...	...	38	10 550	
9	Napier	B.	...	...	...	...	...	33 000; 11 000	...	...	...	32	9 983	
10	Nelson	B.	...	...	...	...	...	33 000; 11 000	...	...	...	167	88 100	
11	New Plymouth	I. & G.	4 400	...	...	4 400	73	6 600	...	...	...	1 323	231 528	
12	Palmerston North	I. & B.	...	...	1 900	1 900	...	3 300	...	...	...	314	209 325	
13	Riccarton	G.	...	...	...	...	...	11 000	...	...	...	39	23 400	
14	Taurarunui	I. & B.	1 430	...	...	1 430	9	3 300	...	...	...	57	9 390	
15	Taupo	I. & G.	6 650	...	...	6 650	35; 32; 25	3 300	...	...	...	707	132 759	
16	Tauranga	I. & B.	640	...	...	640	34	3 300	33 000	11 000	...	73	28 850	
17	Thames-Coromandel	B.	...	...	...	...	...	...	11 000	...	...	54	15 900	
18	Timaru	B.	...	...	...	...	...	...	11 000	...	...	133	57 955	
19	Wairoa	B.	...	...	...	...	...	...	11 000	...	...	64	10 350	
20	Wellington	G.	...	...	...	...	...	110 000	33 000; 11 000	3 300	...	711	900 308	
21	Whakatane	B.	...	...	...	...	...	...	33 000; 11 000	...	...	77	29 950	
22	Whangarei	B.	...	...	...	...	...	...	11 000	...	...	166	43 685	
GRAND-TOTALS			95 297	1 394 200	692 902	6 382 339	...	...	...	...	...	8 652	4 246 138	10 920
			4 295 237	1 394 200	692 902	6 382 339	...	...	...	...	...	116 212	30 715 227	152 290 <sup>7</sup>

NOTES: <sup>1</sup>G. = Government supply. B. = Bulk supply from another authority. I. = Independent supply (own generation). <sup>2</sup>Low tension, predominantly 400/230 volts, 50 Hertz.

<sup>3</sup>Operated by Tauranga Joint Generation Committee, jointly owned by Tauranga Electric Power Board and Tauranga City Council. <sup>4</sup>Includes 42 circuit-kilometres of lines owned by Tauranga Joint Generation Committee.

<sup>5</sup>Humilly: one of 4X237 MW units commissioned during year. <sup>6</sup>Rangape: one of 2X60 MW units commissioned during year. <sup>7</sup>Includes Southland Electric Power Supply. <sup>8</sup>Shown separately, but included with the Electricity Division. <sup>9</sup>Obau "B": all of 4X53 MW units commissioned during year. <sup>10</sup>Includes 40 Kilometres of submarine cable (inter-island H.V.D.C.).

TABLE VI—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION, FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Maximum Load	Annual Load Factor	Electricity										kWh Sold (Average) Per Head of Population*			
				kW	%	Generated			Purchased		Generated and Purchased	In Bulk for Resale	Sold		Non-productive*	Percentage Non Productive*	
						Hydro	Steam	Oil/Gas	kWh	kWh			Domestic				Non-domestic
1	Electricity Division <sup>1</sup>	4 357 700	65.37	19 358 486 800	5 067 012 700	571 812 400	24 617 001	25 021 928 901	17 891 523 713	227 247 201	5 095 079 713	1 808 078 274	7.23	...			
1	Government Department	148 824	51.30	43 278 800	...	...	627 310 315	670 589 115	245 615 758	207 450 328	174 434 226	43 088 803	10.14	5 356			
1	Southland <sup>2</sup>	...	...	...	...	...	...	...	...	...	...	...	...	...			
<i>Power Boards and Related Authorities</i>																	
1	Ashburton	32 670	53.29	10 814 000	...	...	142 112 002	152 926 002	...	82 361 507	59 494 360	11 070 135	7.24	5 629			
2	Auckland	635 064	57.33	...	...	...	3 197 994 623	3 197 994 623	...	1 310 231 659	1 757 454 926	130 308 038	4.07	5 952			
3	Bay of Islands	33 692	66.80	...	...	...	197 696 891	197 696 891	...	95 031 773	83 544 424	19 120 694	9.67	3 933			
4	Bay of Plenty	72 071	71.98	...	...	...	331 715 325	455 693 085	38 526 397	88 589 953	316 610 727	11 965 998	2.87	10 207			
5	Buller	11 649	78.61	...	...	...	80 441 217	80 441 217	...	16 743 853	59 903 421	3 793 943	4.72	9 049			
6	Cambridge	15 281	60.54	...	...	...	81 258 686	81 258 686	408 160	37 559 577	38 646 701	5 052 408	6.22	5 482			
7	Central Canterbury	74 098	64.06	...	...	...	416 960 515	416 960 515	...	139 443 652	251 853 495	25 255 208	6.06	8 451			
8	Central Hawke's Bay	13 964	63.26	...	...	...	77 598 867	77 598 867	55 120	44 783 820	25 559 962	7 255 085	9.35	5 370			
9	Central Waikato	93 958	55.27	...	...	...	456 181 988	456 181 988	...	233 338 171	190 451 647	32 337 030	7.09	3 801			
10	Dannevirke	11 807	65.06	...	...	...	67 474 116	67 474 116	...	37 167 056	26 051 305	4 255 755	6.31	5 182			
11	Egmont	31 752	65.94	...	...	...	183 908 456	183 908 456	...	68 973 500	108 784 241	6 150 715	3.34	7 285			
12	Franklin	40 924	59.96	...	...	...	215 539 068	215 539 068	372 200	114 903 177	80 090 351	20 173 340	9.38	4 295			
13	Hawke's Bay	186 052	62.19	...	...	...	1 016 359 707	1 016 359 707	73 041 800	284 520 536	623 828 050	33 169 321	3.52	8 603			
14	Horowhenua	56 009	52.58	...	...	...	258 701 090	258 701 090	...	161 047 041	83 478 714	14 175 335	5.48	4 438			
15	Hutt Valley	224 229	49.36	...	...	...	972 234 836	972 234 836	...	566 606 467	362 235 869	43 392 500	4.46	4 438			
16	King Country	48 422	59.71	...	...	...	230 157 960	253 979 560	14 738 940	47 538 625	186 736 321	4 965 674	2.08	13 236			
17	Manawatu-Oroua	97 001	56.53	...	...	...	481 623 715	481 623 715	185 988 300	131 217 927	148 642 410	15 775 078	5.34	5 351			
18	Marlborough	32 866	58.38	...	...	...	138 422 584	168 544 517	27 441	94 897 105	61 790 603	11 828 368	7.02	4 622			
19	North Auckland	73 519	66.71	...	...	...	430 822 834	430 822 834	86 463 710	139 157 749	182 278 610	22 922 765	6.66	5 855			
20	North Canterbury	36 849	63.97	...	...	...	207 074 108	207 074 108	19 967 000	92 620 201	81 689 381	12 797 526	6.84	5 112			
21	Otago	32 295	59.08	...	...	...	167 593 916	167 593 916	13 677 400	90 561 551	60 818 632	16 213 733	9.67	5 936			
22	Otago Central	37 972	55.78	...	...	...	69 100 090	186 051 414	...	86 877 021	67 109 493	18 387 500	10.67	6 724			
23	Poverty Bay	43 826	54.78	...	...	...	210 894 086	210 894 086	...	113 136 287	81 671 022	16 086 777	7.63	4 152			
24	Rotorua	54 868	56.17	...	...	...	270 693 225	270 693 225	272 367	138 634 395	111 182 879	20 603 584	7.82	4 102			
25	South Canterbury	65 780	61.66	...	...	...	356 288 378	356 288 378	116 650 288	133 426 789	89 191 754	17 019 547	7.10	5 510			
26	Taranaki	32 448	62.11	...	...	...	154 975 048	177 032 838	...	80 093 724	81 666 000	15 273 114	8.63	5 777			
27	Tairāra	9 017	61.15	...	...	...	48 432 070	48 432 070	...	24 480 337	19 193 034	4 758 699	9.83	5 514			
28	Tasman	71 070	61.30	...	...	...	382 694 209	382 694 209	106 707 360	139 060 710	123 573 401	13 252 738	4.84	5 150			
29	Tairāra	87 290	50.86	...	...	...	242 531 005	389 934 815	50 319 019	192 860 133	121 131 471	25 624 192	7.55	4 142			
30	Te Awamutu	18 119	63.89	...	...	...	101 685 899	101 685 899	24 120	55 812 406	38 007 508	7 841 865	7.71	4 468			
31	Thames Valley	175 857	71.26	...	...	...	1 100 696 238	1 100 696 238	28 929 920	231 218 981	796 317 004	44 230 333	4.13	11 367			
32	Waikato	37 591	59.64	...	...	...	193 903 560	196 928 117	...	15 710 799	68 096 823	13 120 495	6.66	4 902			
33	Waikato	38 961	58.96	...	...	...	56 875 803	56 875 803	21 109 331	18 051 742	2 677 480	3 595 334	7.49	5 695			
34	Waikato	25 602	61.42	...	...	...	138 118 857	138 118 857	...	71 526 093	59 599 139	6 993 625	5.06	5 907			
35	Waitemata	276 555	48.66	...	...	...	1 181 784 654	1 181 784 654	...	753 525 276	344 482 011	83 978 987	7.10	3 549			
36	Waitemata	26 393	51.27	...	...	...	92 901 444	118 852 344	...	56 734 237	51 348 712	10 769 395	9.06	5 431			
37	Waitemata	71 980	57.28	...	...	...	361 089 355	362 193 355	195 560	180 518 902	155 828 933	25 845 530	7.14	4 854			
38	West Coast	26 849	51.71	...	...	...	52 527 772	121 948 606	...	48 915 896	60 359 078	12 478 072	10.25	4 285			
...	...	...	...	...	...	...	...	...	757 474 433	6 314 664 226	7 078 754 144	791 021 522	5.58	5 524			

TABLE VI—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION, FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Maximum Load kW	Annual Load Factor %	Electricity										kWh Sold (Average) Per Head of Population <sup>a</sup>	No.				
				Generated			Purchased	Generated and Purchased	In Bulk for Resale	Sold		Non-productive <sup>b</sup>	Percentage Non-Productive <sup>c</sup>						
				Hydro	Steam	Oil/Gas				Domestic	Non-domestic								
				kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	%	kWh			
<i>Territorial Authorities</i>																			
1	Bluff ..	3 696	53.52	...	...	...	17 374 758	17 374 758	...	...	...	...	...	...	...	...	...	5 832	
2	Christchurch ..	325 619	48.71	...	...	...	1 393 192 993	1 393 192 993	...	...	...	...	...	...	...	...	...	5 449	
3	Dunedin ..	172 500	48.71	206 943 300	...	...	531 152 591	738 095 891	...	215	...	...	...	...	...	...	...	6 310	
4	Hamilton ..	35 419	40.60	...	...	...	126 308 560	126 308 560	...	...	...	...	...	...	...	...	...	5 345	
5	Hastings ..	11 679	53.35	...	...	...	54 735 370	54 735 370	...	...	...	...	...	...	...	...	...	7 938	
6	Invercargill ..	50 200	51.76	...	...	...	228 241 000	228 241 000	...	10 351 000	...	...	...	...	...	...	...	5 420	
7	Kaiaoi ..	4 464	50.92	...	...	...	19 967 000	19 967 000	...	...	...	...	...	...	...	...	...	4 097	
8	Lytelton ..	3 776	50.41	...	...	...	16 719 658	16 719 658	...	...	...	...	...	...	...	...	...	5 850	
9	Napier ..	15 308	54.35	...	...	...	73 041 800	73 041 800	...	...	...	...	...	...	...	...	...	5 998	
10	Nelson ..	21 760	55.83	...	...	...	106 707 360	106 707 360	...	...	...	...	...	...	...	...	...	5 966	
11	New Plymouth ..	51 003	60.42	20 469 000	...	...	250 208 609	270 677 609	...	...	...	...	...	...	...	...	...	4 997	
12	Palmerston North ..	43 622	48.54	...	...	5 306	185 988 300	185 988 300	...	...	...	...	...	...	...	...	...	4 150	
13	Riccarton ..	11 696	46.52	...	...	...	47 797 880	47 797 880	...	...	...	...	...	...	...	...	...	6 855	
14	Taurarua ..	5 448	53.17	5 919 700	...	...	14 738 940	20 658 640	...	3 630	...	...	...	...	...	...	...	4 701	
15	Taupo ..	25 332	42.85	29 370 560	...	...	88 218 360	117 588 920	...	...	...	...	...	...	...	...	...	6 128	
16	Tauranga ..	16 349	35.85	1 169 981	...	...	50 319 019	51 489 000	...	...	...	...	...	...	...	...	...	8 729	
17	Thames-Coromandel ..	7 330	44.78	...	...	...	28 831 200	28 831 200	...	...	...	...	...	...	...	...	...	4 387	
18	Timaru ..	22 512	58.99	...	...	...	116 650 288	116 650 288	...	...	...	...	...	...	...	...	...	6 016	
19	Waioira ..	4 233	56.77	...	...	...	21 109 331	21 109 331	...	...	...	...	...	...	...	...	...	3 459	
20	Wellington ..	181 567	49.55	...	...	...	790 333 397	790 333 397	...	...	...	...	...	...	...	...	...	6 577	
21	Whakatane ..	8 628	50.83	...	...	...	38 526 397	38 526 397	...	...	...	...	...	...	...	...	...	3 702	
22	Whangarei ..	18 655	52.74	...	...	...	86 414 720	86 414 720	...	...	...	...	...	...	...	...	...	4 621	
Sundry Private Plants ..				...	...	...	...	...	...	10 354 845	...	...	...	...	...	...	...	5 672	
				263 872 541	...	5 306	4 286 577 531	4 550 455 378	...	...	...	...	...	...	...	...	...	5 04	
GRAND TOTALS ..				20 198 909 273	5 084 008 374	572 027 966	16 995 674	16 995 674	...	...	...	...	...	...	...	...	...	...	10.94 <sup>d</sup>
				25 854 945 613	25 854 945 613	25 854 945 613	8 980 788 661	14 046 456 779	2 827 700 173	2 827 700 173	2 827 700 173	2 827 700 173	2 827 700 173	2 827 700 173	2 827 700 173	2 827 700 173	2 827 700 173	10.94 <sup>d</sup>	

Electricity generated per head of total population: 7 918 kWh. Electricity generated per head of mean population: 7 993 kWh. Maximum load for public supply: 4 532 700 kW. Electricity sold retail per head of total population: 7 052 kWh. Electricity sold retail per head of mean population: 7 118 kWh. Annual load factor, New Zealand: 64.94 percent

NOTES: <sup>1</sup>Includes Southland Electric Power Supply. <sup>2</sup>Shown separately but included with the Electricity Division. <sup>3</sup>Tauranga Electric Power Board and Tauranga City Council jointly purchased from 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. <sup>4</sup>Lloyd Mandeno, Lower Mangapapa, McLaren Falls, and Ruahiki stations of the T.J.G.C. <sup>5</sup>Percentage of total kWh generated. <sup>6</sup>Includes own use, losses on transmission and distribution, also losses on bulk supply to other supply authorities. <sup>7</sup>Percentage calculated on generated plus purchased less bulk for resale, except for the Electricity Division. <sup>8</sup>kWh sold retail.

TABLE VII (PART I)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Domestic					Commercial					Farming					No.	
		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	\$	c	Number	kWh	\$	c	Number	kWh	\$	c	Number	kWh
1	Electricity Division <sup>1</sup>	227 247 201	11,205,286	4.931	25 606	8 875	72 260 913	5,902,688	8.169	3 849	18 774	9 861 900	665,560	6.749	4 149	2 377	1	
	<i>Government Department</i>																	
1	Southland <sup>2</sup>	207 450 328	10,881,784	5.245	23 874	8 689	62 780 802	5,385,626	8.578	3 819	16 439	9 861 900	665,560	6.749	4 149	2 377	1	
	<i>Power Boards and Related Authorities</i>																	
1	Ashburton	82 361 507	4,530,925	5.501	9 473	8 694	25 644 821	2,317,736	9.038	1 432	17 908	19 280 676	1,459,979	7.572	2 027	9 512	1	
2	Auckland	1 310 231 659	54,520,795	4.161	180 377	7 264	1 083 397 556	63,484,948	5.860	25 544	42 413	5 438 780	302,078	5.554	602	9 035	2	
3	Bay of Islands	95 031 773	4,683,618	4.928	13 743	6 915	36 575 954	3,044,519	8.324	2 202	16 610	9 942 560	708,911	7.130	1 839	5 407	3	
4	Bay of Plenty	88 589 963	5,154,180	5.818	11 954	7 411	24 202 804	2,160,697	8.927	1 426	16 973	14 901 912	1,356,534	9.103	2 495	5 973	4	
5	Buller	16 743 853	848,490	5.067	3 156	5 305	6 458 715	610,145	9.447	491	13 154	1 207 698	95,024	7.868	216	5 591	5	
6	Cambridge	37 559 577	1,783,815	4.749	4 711	7 973	9 743 969	863,542	8.862	779	12 508	6 053 332	490,338	8.100	830	7 293	6	
7	Central Canterbury	139 443 652	6,409,307	4.596	17 107	8 151	68 029 550	4,241,846	6.235	1 114	61 068	31 831 274	2,131,179	6.695	3 031	10 502	7	
8	Central Hawke's Bay	44 783 870	2,317,025	5.174	5 124	8 740	9 413 935	750,203	7.969	668	14 093	2 690 410	319,748	11.885	972	2 768	8	
9	Central Waikato	233 358 171	14,505,442	6.216	35 750	6 527	72 840 501	5,949,186	8.167	2 634	27 654	29 182 706	2,579,578	8.839	3 735	7 813	9	
10	Dannevirke	37 167 056	1,821,409	4.901	4 432	8 386	8 650 614	740,659	8.562	645	13 412	4 741 662	422,995	8.921	1 024	4 611	10	
11	Egmont	68 973 500	3,109,191	4.508	8 589	8 030	13 222 930	1,155,433	8.738	1 285	10 290	23 656 940	1,512,878	6.677	1 950	11 619	11	
12	Franklin	114 903 177	5,808,643	5.055	15 031	7 644	27 397 530	2,025,935	7.395	1 721	15 820	27 576 047	2,027,884	4.568	2 469	6 037	12	
13	Hawke's Bay	284 320 536	12,949,485	4.555	35 278	8 059	83 669 365	7,128,573	8.520	3 661	22 854	10 828 540	956,405	9.171	2 469	4 224	13	
14	Horowhenua	161 047 041	9,036,315	5.611	24 176	6 661	49 470 659	4,598,612	9.296	3 039	16 279	11 463 509	971,389	8.188	1 241	9 560	14	
15	Hutt Valley	366 606 467	25,597,462	4.518	68 996	8 212	182 374 192	16,431,934	9.010	6 324	28 838	1 095 335	105,757	9.655	210	5 216	15	
16	King Country	47 538 625	1,755,478	3.693	6 677	7 120	22 898 201	1,352,656	5.907	1 113	20 573	1 895 605	156,782	8.266	837	2 266	16	
17	Manawatu-Oroua	131 217 927	5,939,871	4.527	17 147	7 653	50 619 598	4,126,892	8.153	1 652	30 641	11 590 383	1,004,434	8.666	2 991	3 875	17	
18	Marlborough	94 897 105	4,707,137	4.960	7 657	7 527	37 172 886	3,228,040	8.684	1 751	21 230	7 244 293	481,203	6.643	1 339	5 410	18	
19	North Auckland	139 157 749	7,110,569	5.110	20 790	6 693	33 719 843	2,664,862	7.903	2 259	14 927	23 211 373	1,600,564	6.896	3 315	7 002	19	
20	North Canterbury	92 620 201	5,327,394	5.752	12 514	7 401	26 333 313	2,342,896	8.897	1 775	14 836	13 879 088	1,304,432	9.399	2 163	6 417	20	
21	Otago	90 561 551	5,060,738	5.588	10 781	8 400	27 302 881	2,127,607	7.793	1 716	15 911	4 725 085	351,427	7.437	2 187	2 161	21	
22	Otago Central	86 877 021	3,961,003	4.559	10 176	8 537	45 799 434 <sup>1</sup>	2,937,090	6.413	1 683	27 213	5 517 195	372,355	5.843	820	6 728	22	
23	Pottery Bay	113 136 287	6,252,505	5.527	7 098	7 098	32 484 112	3,379,868	10.405	2 359	13 770	3 411 125	429,877	12.602	2 580	1 322	23	
24	Rotorua	138 634 395	6,712,301	4.842	19 629	7 063	69 562 750	5,533,755	7.955	2 701	25 754	9 008 906	754,593	8.376	1 379	6 533	24	
25	South Canterbury	133 426 789	6,410,018	4.804	13 345	8 695	26 339 234	2,484,186	9.432	1 263	20 855	6 917 970	563,298	8.143	1 050	6 589	25	
26	Taranaki	80 093 724	3,437,233	4.292	9 919	8 075	14 969 582	1,213,291	8.105	1 288	11 622	18 026 463	1,314,038	7.290	2 384	7 561	26	
27	Taranaki	24 480 337	1,442,896	5.894	3 206	7 636	3 846 784	400,707	10.417	460	8 363	3 914 243	406,712	10.391	990	900	27	
28	Tasman	139 060 710	6,828,155	4.910	18 309	7 595	41 594 044	3,448,657	8.291	1 714	24 267	11 864 093	1,113,003	9.381	2 097	5 658	28	
29	Tauranga	192 860 133	10,235,492	5.306	28 445	6 780	51 750 874	4,606,722	8.902	2 963	17 466	18 662 965	1,549,384	8.302	3 561	5 241	29	
30	Te Awamutu	55 812 406	2,791,544	5.002	7 077	7 886	15 198 288	1,167,074	7.679	952	15 965	15 910 590	1,228,516	7.721	2 390	6 657	30	
31	Thames Valley	231 218 981	12,497,148	5.405	35 982	6 426	62 709 555	5,305,233	8.460	4 863	12 895	55 430 343	4,252,717	7.672	5 431	10 206	31	
32	Waikato	115 710 799	6,657,407	5.843	13 725	8 431	31 148 890	2,596,628	8.336	1 816	17 132	11 203 947	904,100	8.069	1 894	5 915	32	
33	Waikato	15 037 330	840,534	5.590	2 239	6 716	2 490 215	239,462	9.616	313	7 956	1 020 174	124,615	12.215	698	1 462	33	
34	Waikato	71 526 093	3,608,661	5.045	8 659	8 260	24 773 094	2,261,109	9.127	1 220	20 306	6 161 607	497,144	8.068	1 058	5 824	34	
35	Waitemata	753 525 276	37,440,204	4.969	111 400	6 764	187 565 430	16,668,708	8.887	10 095	18 580	17 392 435	1,138,241	6.544	2 930	5 936	35	
36	Waitemata	56 734 237	2,847,477	5.019	7 109	7 981	15 297 487	1,389,990	9.086	1 177	13 574	10 593 951	845,610	8.095	2 471	4 287	36	
37	Wanganui-Rangitikei	180 518 902	8,573,272	4.749	25 848	6 984	77 911 318	5,457,069	7.004	3 442	22 635	7 303 286	645,229	8.835	3 299	2 214	37	
38	West Coast	48 915 896	2,837,213	5.800	8 255	5 926	30 336 938	2,818,177	9.290	1 695	17 898	3 322 850	300,878	9.055	559	5 944	38	
		6 314 664 226	306,348,352	4.851	859 461	7 347	2 632 917 836	193,254,647	7.340	103 185	25 516	467 100 251	36,741,849	7.866	75 632	6 176		

TABLE VII (PART I)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Domestic					Commercial					Farming					
		Electricity Consumed kWh	Income \$	Income per kWh Sold c	Con- sumers Number	Average kWh per Consumer	Electricity Consumed kWh	Income \$	Income per kWh Sold c	Con- sumers Number	Average kWh per Consumer	Electricity Consumed kWh	Income \$	Income per kWh Sold c	Con- sumers Number	Average kWh per Consumer	No.
<i>Territorial Authorities</i>																	
1	Bluff ..	6 884 132	345,405	5.017	928	7 418	6 816 213	488,960	7.173	183	37 247	...	...	...	...	...	1
2	Christchurch ..	834 401 102	35,185,192	4.217	92 962	8 976	307 638 833	27,320,807	8.881	10 195	30 175	3 113 615	218,960	7.032	258	12 068	2
3	Dunedin ..	409 708 785	17,424,288	4.253	41 139	9 595	167 346 443	12,093,458	7.227	5 602	29 873	2 275 540	197,174	8.665	550	4 137	3
4	Hamilton ..	47 333 708	2,883,227	6.091	9 383	5 045	55 743 200	5,129,730	9.202	3 015	18 489	...	...	...	...	...	4
5	Heathcote ..	24 766 868	1,024,689	4.129	2 318	10 685	18 869 711	1,033,417	5.477	98	192 548	1 428 655	46,841	3.279	48	29 764	5
6	Invercargill ..	128 084 968	6,149,840	4.801	13 960	9 175	60 788 636	4,684,029	7.705	1 712	35 507	6 474	590	9.113	4	1 619	6
7	Kaupoi ..	13 105 990	693,353	5.290	1 670	7 848	3 061 190	244,991	8.003	132	23 191	...	...	...	...	...	7
8	Lytelton ..	9 345 910	431,904	4.621	1 119	8 352	4 522 533	399,225	8.827	153	29 559	...	...	...	...	...	8
9	Napier ..	30 665 443	1,593,125	5.202	4 419	6 939	28 912 638	2,930,827	10.137	1 101	26 260	...	...	...	...	...	9
10	Nelson ..	49 618 702	1,928,424	3.886	6 021	8 241	30 413 460	2,995,980	9.851	889	34 211	1 342 257	61,081	4.551	57	23 548	10
11	New Plymouth ..	132 432 164	5,697,116	4.302	18 653	7 100	44 338 190	3,913,649	8.827	2 320	19 111	12 378 121	1,015,934	8.207	1 200	10 315	11
12	Palmerston North ..	107 268 513	4,678,745	4.362	14 967	7 167	57 025 931	4,877,084	8.552	2 469	23 097	59 440	6,873	11.563	7	8 491	12
13	Riccarton ..	23 973 810	946,155	3.947	2 830	8 471	17 053 295	1,593,025	9.341	533	31 995	...	...	...	...	...	13
14	Taurarua ..	10 841 938	432,780	3.992	1 313	8 257	7 201 652	560,893	7.788	368	19 570	76 858	6,920	9.004	20	3 843	14
15	Taupo ..	48 963 780	2,422,797	4.954	7 159	6 839	26 980 938	2,361,335	8.752	1 141	23 647	1 323 094	146,959	11.107	341	3 880	15
16	Tauranga ..	16 840 690	668,463	3.969	2 445	6 888	23 618 517	1,808,692	7.658	1 203	19 633	...	...	...	...	...	16
17	Thames-Coromandel ..	14 748 359	749,053	5.079	2 432	6 064	6 052 158	499,185	8.248	464	13 043	...	...	...	...	...	17
18	Timaru ..	60 933 749	2,734,802	4.488	7 167	8 502	34 901 690	2,462,010	7.054	1 309	26 663	...	...	...	...	...	18
19	Wairua ..	13 115 980	661,810	5.046	1 697	7 729	5 303 320	496,779	9.367	248	21 384	96 800	9,408	9.719	1	96 800	19
20	Wellington ..	392 125 915	14,300,030	3.647	46 559	8 422	308 998 980	25,353,628	8.205	6 952	44 447	42 900	4,689	10.930	18	2 383	20
21	Whakatane ..	22 175 467	1,125,475	5.075	3 122	7 103	10 092 871	994,816	9.857	574	17 583	...	...	...	...	...	21
22	Whangarei ..	41 541 261	2,021,356	4.866	6 202	6 698	31 019 819	2,553,425	8.232	1 427	21 738	21 140	2,049	9.693	5	4 228	22
<b>GRAND TOTALS</b>		2 438 877 234	104,101,027	4.268	288 465	8 455	1 256 700 238	104,795,945	8.339	42 088	29 859	22 164 894	1,717,478	7.749	2 509	8 834	
		8 980 788 661	421,654,665	4.695	1 173 532	7 653	3 961 878 987	303,953,280	7.672	149 122	26 588	499 127 045	39,124,887	7.839	82 290	6 065	

NOTES: Includes Southland Electric Power Supply.

Shown separately but included with Electricity Division.

Includes 2 285 687 kWh used free of charge for irrigation.

TABLE VII (PART II)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Industrial						Non-domestic						Total Retail Sales						
		Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer	kWh	Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer	kWh	Electricity Consumed	Income	Income per kWh Sold	Consumers	Average kWh per Consumer	kWh	No.
1	Electricity Division <sup>1</sup>	4 999 691 208	104 952 857	2 099	185	27 025 358	5 095 079 713	112 421 441	2 206	8 300	613 865	5 322 326 914	123 626 727	2 323	33 906	156 973	1			
	<i>Government Department</i>																			
1	Southland <sup>2</sup>	100 161 460	6 994 620	6 983	179	559 561	174 434 226	13 150 649	7 539	8 262	21 113	381 884 554	24 032 433	6 293	32 136	11 883				
	<i>Power Boards and Related Authorities</i>																			
1	Ashburton	13 294 720	1 001 769	7 535	20	664 736	59 494 360	4 903 826	8 243	3 481	17 091	141 855 867	9 434 751	6 651	12 954	10 951				
2	Auckland	637 834 690	29 081 473	4 539	1 365	467 278	1 757 454 926	94 351 154	5 369	27 535	63 826	3 067 686 585	148 871 949	4 853	207 912	14 755				
3	Bay of Islands	2 141 588	35 992 410	5 930	54	666 526	83 544 424	5 957 028	7 130	4 119	20 283	178 576 197	10 640 646	5 959	17 862	9 998				
4	Bay of Plenty	276 896 120	9 836 625	3 552	63	4 395 177	316 610 727	13 386 790	4 228	4 005	79 054	405 200 690	18 540 970	4 576	15 959	25 390				
5	Buller	51 946 954	1 913 108	3 683	84	618 416	59 903 421	2 633 708	4 397	793	75 540	76 647 274	3 482 198	4 543	3 949	19 409				
6	Cambridge	22 273 300	1 247 995	5 603	44	506 211	38 646 701	2 627 223	6 798	1 657	23 323	76 206 278	4 411 038	5 788	6 368	11 967				
7	Central Canterbury	150 457 235	8 624 707	5 732	459	327 794	251 853 495	15 059 286	5 979	4 630	54 396	391 297 147	21 468 593	5 487	21 737	18 001				
8	Central Hawke's Bay	792 123	13 055 617	6 067	51	255 992	25 559 962	1 896 776	7 421	1 693	10 319	70 345 782	4 213 801	6 719	6 817	10 319				
9	Central Waikato	85 935 002	5 331 191	6 204	214	401 565	190 451 647	13 969 018	7 335	6 594	28 883	423 789 818	28 474 460	6 068	42 344	10 008				
10	Dannevirke	12 385 462	838 370	6 769	43	288 034	26 031 305	2 014 895	7 734	1 718	15 164	63 218 361	3 836 304	6 068	6 150	10 279				
11	Egmont	72 220 764	3 580 472	4 958	61	183 947	108 784 241	6 278 475	5 771	3 302	32 945	177 757 741	9 387 666	5 281	11 891	14 949				
12	Franklin	24 160 860	1 588 539	6 575	265	91 173	80 090 351	5 699 142	7 116	6 561	12 207	194 993 528	11 507 785	5 902	21 592	9 031				
13	Hawke's Bay	527 314 054	21 703 563	4 116	230	2 292 670	625 828 030	30 015 599	4 796	6 380	98 092	910 148 586	42 965 084	4 721	41 638	21 848				
14	Horowhenua	18 821 274	1 592 441	8 461	103	182 731	83 478 714	7 400 184	8 865	4 396	18 990	244 574 755	16 436 499	6 722	28 572	8 558				
15	Hutt Valley	168 198 223	13 301 166	7 908	501	335 725	362 235 869	30 496 416	8 419	7 150	50 662	928 842 336	56 093 878	6 039	76 146	12 198				
16	King Country	161 590 307	4 909 527	3 094	45	3 990 894	186 726 321	6 525 135	3 494	2 018	92 535	234 274 946	8 280 613	3 535	8 695	26 944				
17	Manawatu-Oroua	85 511 393	6 202 675	7 254	232	368 586	148 642 410	11 460 869	7 710	4 961	29 962	279 860 337	17 400 740	6 218	22 108	12 659				
18	Marlborough	16 379 116	1 214 020	7 412	103	159 021	61 790 603	4 977 159	8 055	5 756	31 668	156 687 708	9 684 296	6 181	15 592	10 049				
19	North Auckland	124 223 933	5 497 420	4 425	110	1 129 308	182 278 610	9 818 038	5 386	4 011	20 366	321 436 559	16 928 607	5 267	26 546	12 109				
20	North Canterbury	40 222 485	2 144 124	5 331	57	705 658	81 689 381	5 854 177	7 166	3 946	15 413	174 309 582	11 181 571	6 415	16 525	10 548				
21	Otago	27 915 761	2 136 546	7 654	23	1 213 729	60 818 632	4 685 560	7 704	3 946	15 413	151 380 183	9 746 298	6 438	14 727	10 279				
22	Otago Central	14 766 230	817 391	5 536	30	492 708	67 109 493	4 128 896	6 152	2 542	26 400	153 986 514	8 089 899	5 254	12 718	12 108				
23	Poverty Bay	44 910 091	3 166 896	7 052	95	472 738	81 671 022	7 066 807	8 653	5 055	16 156	194 807 309	13 319 312	6 837	20 994	9 279				
24	Rotorua	30 440 461	2 083 896	6 846	127	239 689	111 182 879	8 486 233	7 633	4 214	26 384	249 817 274	15 198 534	6 084	23 843	10 478				
25	South Canterbury	54 546 030	3 840 054	7 040	26	2 097 924	89 191 754	6 968 663	7 813	2 550	37 934	222 618 543	13 378 681	6 010	17 695	12 581				
26	Taranaki	47 745 010	3 380 462	7 080	187	255 321	81 666 000	5 952 600	7 301	3 867	21 119	161 759 724	9 399 833	5 811	13 786	11 734				
27	Taranaki	11 307 829	988 862	8 588	35	323 081	19 193 034	1 782 245	9 286	1 491	12 873	43 673 371	3 225 141	6 102	4 697	9 298				
28	Tasman	68 755 264	4 586 632	6 671	599	114 783	123 572 401	9 197 978	7 443	4 420	27 958	262 634 111	16 026 133	6 202	22 729	11 555				
29	Tauranga	49 083 217	2 921 861	5 953	117	419 515	121 131 471	9 162 256	7 564	6 661	18 185	313 991 604	19 395 748	6 177	35 106	8 944				
30	Tc Awamutu	6 321 350	426 323	6 744	42	150 508	38 007 508	2 894 479	7 484	3 396	11 192	93 819 914	5 636 023	6 007	10 473	8 958				
31	Thames Valley	675 908 039	24 556 543	3 633	288	2 346 903	796 317 004	34 433 656	4 324	10 597	75 146	1 027 535 985	46 930 804	4 567	46 579	22 060				
32	Waikato	24 669 851	1 831 393	7 424	197	125 328	68 096 623	5 396 794	7 925	3 941	17 379	183 807 622	12 054 201	6 558	17 666	10 405				
33	Waikato	14 451 353	926 319	6 410	23	328 320	18 051 742	1 298 660	7 194	1 039	17 574	33 089 072	2 139 194	6 465	3 278	10 094				
34	Waikato	27 469 001	1 832 475	6 671	80	433 363	59 959 139	4 694 086	7 809	2 362	25 232	131 125 232	8 262 747	6 301	11 021	11 898				
35	Waitemata	132 353 799	9 179 781	6 936	1 168	113 317	344 482 011	27 343 002	7 937	14 428	23 876	1 098 007 287	64 783 206	5 900	125 828	8 726				
36	Waitemata	24 584 981	1 816 127	7 387	168	146 339	51 348 712	4 108 214	8 001	3 784	13 570	168 082 949	6 955 691	6 436	10 893	9 922				
37	Wanganui-Rangitikei	67 289 930	3 928 690	5 838	126	534 047	155 828 923	10 193 066	6 541	6 894	22 604	336 347 825	18 766 338	5 579	32 742	10 273				
38	West Coast	25 593 270	2 174 420	8 496	160	139 958	60 359 078	5 413 617	8 969	2 427	24 870	109 274 974	8 250 830	7 551	10 682	10 230				
		3 886 825 386	193 207 767	4 971	7 595	511 761	7 078 754 144	428 451 710	6 053	187 373	37 779	13 393 418 370	734 800 062	5 486	1 046 834	12 794				



TABLE VII (PART II)—ANALYSIS OF CONSUMPTION OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Industrial					Non-domestic					Total Retail Sales				
		Electricity Consumed kWh	Income \$	Income per kWh Sold c	Consumers Number	Average kWh per Consumer	Electricity Consumed kWh	Income \$	Income per kWh Sold c	Consumers Number	Average kWh per Consumer	Electricity Consumed kWh	Income \$	Income per kWh Sold c	Consumers Number	Average kWh per Consumer
<i>Territorial Authorities</i>																
1	Bluff	1 321 700	74,322	5.623	1	1 321 700	568,911	6.872	197	42 024	15 163 780	914,316	6.030	1 125	13 478	
2	Christchurch	170 714 613	11,551,697	6.767	907	188 219	39 784,784	8.007	11 568	42 951	1 331 263 240	74,969,976	5.631	104 530	12 736	
3	Dunedin	105 632 012	6,260,908	5.927	368	287 044	18,753,319	6.699	6 536	42 834	689 670 393	36,177,607	5.246	47 675	14 466	
4	Hamilton	15 241 398	1,234,830	8.102	148	102 982	6,454,380	8.849	3 165	23 045	120 270 908	9,337,607	7.764	12 548	9 585	
5	Heathcote	8 743 500	379,749	4.343	1	8 743 500	1,495,256	5.023	149	199 777	54 533 575	2,517,945	4.617	2 467	22 105	
6	Invercargill	18 647 807	1,347,112	7.224	139	134 157	6,249,989	7.602	1 856	44 295	210 296 657	12,399,829	5.896	15 816	13 296	
7	Kaipoi	2 946 820	219,103	7.435	12	245 568	475 115	7.626	145	42 967	19 336 250	1,166,468	6.043	1 815	10 654	
8	Lyttelton	1 470 211	141,414	9.619	5	294 042	558,604	8.904	161	38 968	15 619 829	990,508	6.341	1 280	12 203	
9	Napier	9 509 621	747,284	7.858	41	231 942	3,763,905	9.382	1 143	35 098	70 782 277	5,359,030	7.571	5 562	12 726	
10	Nelson	19 362 994	1,483,942	7.664	83	233 289	4,601,369	8.782	1 277	41 030	102 013 536	6,529,793	6.401	7 298	13 978	
11	New Plymouth	61 102 189	3,947,561	6.461	576	106 080	9,081,389	7.603	4 099	29 139	251 872 328	14,778,505	5.867	22 752	11 070	
12	Palmerston North	9 680 560	831,301	8.587	134	72 243	5,736,583	8.558	2 617	25 613	174 297 331	10,415,328	5.976	17 584	9 912	
13	Riccarton	3 023 323	261,057	8.635	29	104 253	1,879,118	9.038	566	36 735	44 765 613	2,825,271	6.311	3 396	13 182	
14	Taumarunui	770 821	64,552	8.374	36	21 412	651,898	7.730	425	19 842	19 274 939	1,084,678	5.627	1 738	11 090	
15	Taupo	32 511 792	1,792,493	5.513	56	580 568	4,348,013	7.018	1 555	39 844	110 921 648	6,773,810	6.107	8 714	12 729	
16	Tauranga	7 480 110	483,780	6.468	142	52 677	2,314,752	7.303	1 346	23 547	48 535 060	2,983,215	6.147	3 791	12 803	
17	Thames-Coromandel	6 204 377	305,808	4.929	30	206 813	836 140	6.575	495	25 690	27 464 894	1,585,193	5.772	2 927	9 383	
18	Timaru	12 797 289	818,845	6.399	61	209 792	3,293,424	6.820	1 374	36 216	110 693 994	6,128,256	5.536	8 541	12 960	
19	Wairoa	268 830	22,362	8.318	4	67 208	560,448	9.379	254	23 526	19 091 650	1,222,258	6.402	1 951	9 786	
20	Wellington	40 983 116	2,579,805	6.295	287	142 798	28,942,395	7.889	7 265	50 501	759 017 198	43,242,425	5.697	53 824	14 102	
21	Whakatane	2 392 412	238,756	9.980	57	41 972	1,270,889	9.699	631	20 766	35 278 539	2,396,364	6.793	3 753	9 400	
22	Whangarei	7 098 437	504,472	7.107	128	55 457	3,131,187	7.868	1 577	25 235	81 337 317	5,152,543	6.335	7 779	10 456	
GRAND TOTALS		537 904 032	35,291,153	6.561	3 245	165 764	1 872 622 922	7.735	48 401	38 690	4 311 500 156	248,952,895	5.774	336 866	12 799	
		9 424 420 626	333,451,777	3.538	11 025	854 823	14 046 456 779	4.882	244 074	57 550	23 027 245 440	1,107,379,684	4.809	1 417 606	16 244	

NOTES: 'Includes Southland Electric Power Supply. 'Shown separately but included with Electricity Division. 'Includes 2 285 687 kWh used free of charge for irrigation.

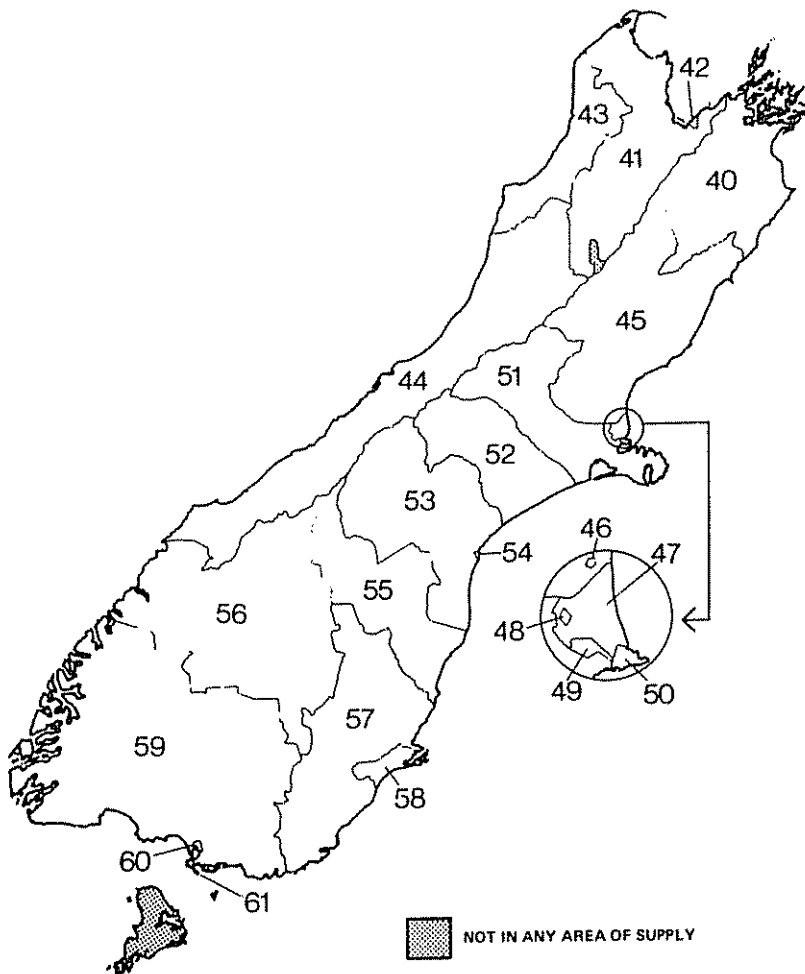
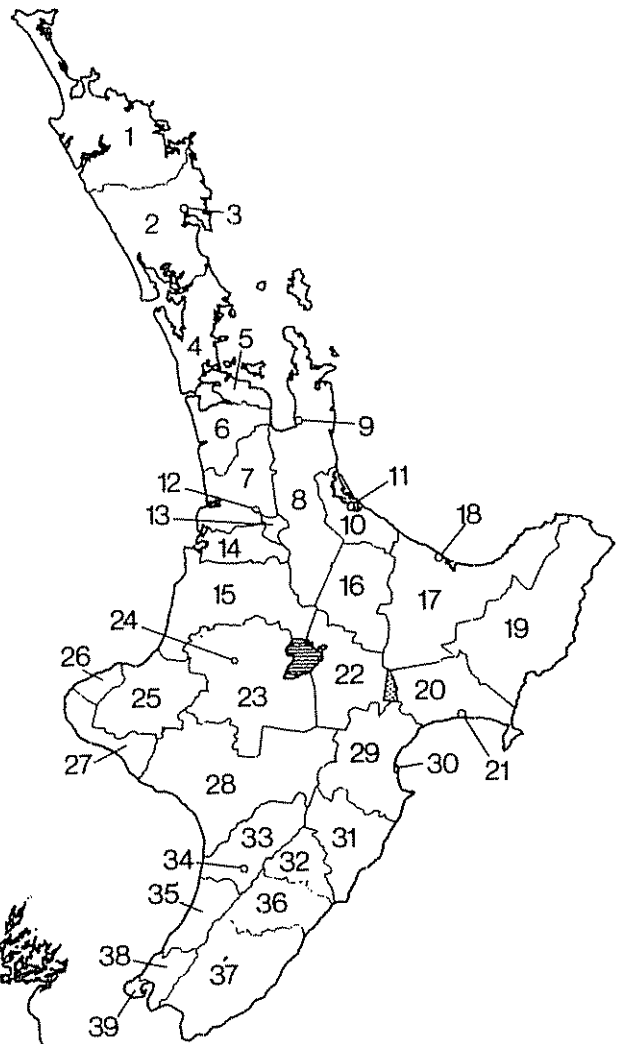
TABLE VII (PART III)—SUMMARY OF END USE OF ELECTRICITY FOR THE YEAR ENDED 31 MARCH 1984

	Electricity Consumed	Income	Income per kWh sold	Consumers	Average kWh per Consumer
	kWh	\$	c	Number	kWh
Domestic .. .. .	8 980 788 661	421,654,665	4.695	1 173 532	7 653
Commercial .. .. .	3 961 878 987	303,953,280	7.672	149 122	26 568
Public Lighting .. .. .	130 079 782	7,002,568	5.383	1 615	80 545
Farming .. .. .	499 127 045	39,124,887	7.839	82 290	6 065
Railway Traction .. .. .	27 608 124	2,011,174	7.285	12	2 300 677
Urban Traction .. .. .	3 342 215	181,333	5.426	10	334 222
Coal Mining .. .. .	36 198 930	2,287,106	6.318	77	470 116
Other Mining industries .. .. .	95 489 561	6,677,938	6.993	388	246 107
Iron and steel basic; Non-ferrous metals .. .. .	4 342 368 812	80,923,865	1.864	149	29 143 415
Manufacture of mechanical and electrical equipment .. .. .	339 368 677	23,595,630	6.953	1 988	170 709
Manufacture of chemicals and chemical products .. .. .	250 648 926	13,206,592	5.269	343	730 755
Manufacture of glass, pottery, china and earthenware and building materials .. .. .	287 262 529	12,486,077	4.347	546	526 122
Food, beverage, and tobacco industries .. .. .	1 366 338 761	83,148,964	6.086	2 535	538 990
Manufacture of textiles, leather and rubber products, and wearing apparel .. .. .	233 815 592	16,268,982	6.958	1 048	223 106
Wood, paper, and pulp products .. .. .	2 279 543 960	82,213,631	3.607	1 533	1 486 982
Other manufacturing industries not elsewhere classified .. .. .	133 509 732	9,367,665	7.016	1 021	130 764
Construction works .. .. .	59 875 146	3,275,327	5.470	1 397	42 860
<b>TOTAL RETAIL SALES .. .. .</b>	<b>23 027 245 440</b>	<b>1,107,379,684</b>	<b>4.809</b>	<b>1 417 606</b>	<b>16 244</b>

FIGURE 1: SUPPLY AUTHORITY LICENSED AREAS AS AT 31 MARCH 1984

NORTH ISLAND		
	No.	km <sup>2</sup>
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
Taranaki EPB ...	36	2 850
Taumarunui Borough Council	24	20
Taupo Borough Council	22	3 455
Tauranga City Council	11	5
Tauranga EPB ...	10	1 728
Te Awamutu EPB ...	14	1 424
Thames-Coromandel District Council	9	11
Thames Valley EPB	8	7 158
Wairarapa EPB...	37	5 753
Wairoa Borough Council	21	6
Wairoa EPB	20	3 506
Waitemata EPB	4	2 890
Waitemata EPB ...	15	6 221
Wanganui-Rangitikei EPB	28	9 472
Wellington MED	39	200
Whakatane District Council	18	6
Whangarei City Council	3	13

North Island Area of Supply: 115 065



SOUTH ISLAND		
	No.	km <sup>2</sup>
Ashburton EPB	52	6 664
Bluff Borough Council	61	6
Buller EPB ...	43	4 645
Central Canterbury EPB	51	7 993
Christchurch MED	47	256
Dunedin City Council ...	58	1 101
Heathcote County Council	49	16
Invercargill City Council	60	27
Kaipoi Borough Council	46	4
Lyttelton Borough Council	50	10
Marlborough EPB	40	10 615
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
Wairarapa EPB ...	55	7 741
West Coast EPB	44	18 017

South Island Area of Supply: 151 354

New Zealand Area of Supply: 286 419

TABLE VIII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Income from Sales of Electricity				Cost of Electricity			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		
		Per kWh Sold (Retail Sales)	Per kWh Sold (Domestic Supply)	Per kWh Sold (Non-domestic Supply)	Per Head of Population	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 <sup>1</sup>	...	2,323	4,931	2,206	...	1,613	2,758	1,740	0.164	0.167	0.248	0.188	0.034	2,377	78.57	28.44	...	
Government Department		5,321	6,293	5,245	337.06	747.84	...	...	...	...	...	...	...	...	...	...	...	...	...
Southland <sup>2</sup>		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Power Boards and Related Authorities		6,651	5,501	8,243	374.39	728.33	7,842	3,604	4,208	0.452	0.605	0.464	0.294	0.513	6,085	52.07	10.17	702.53	
1	Ashburton	4,853	4,161	5,369	288.85	716.03	3,718	3,567	3,718	0.405	0.545	0.226	0.101	0.211	4,802	19.32	3.03	122.96	
2	Auckland	5,959	4,928	7,130	234.38	595.71	3,334	3,334	3,691	0.598	0.752	0.558	0.272	0.465	5,737	53.04	8.73	439.78	
3	Bay of Islands	4,510	4,576	5,818	467.03	1,161.79	4,178	3,240	3,589	0.231	0.376	0.269	0.078	0.157	4,469	75.28	4.06	1,804.53	
4	Bay of Plenty	4,543	5,067	4,397	411.12	881.79	...	3,093	3,246	0.306	0.420	0.353	0.076	0.165	4,261	26.95	8.23	168.41	
5	Buller	5,788	4,749	6,798	317.34	692.69	...	3,477	3,707	0.540	0.643	0.324	0.008	0.266	4,947	1.41	16.44	10.21	
6	Cambridge	5,485	4,596	5,979	463.68	987.65	...	3,419	3,640	0.388	0.537	0.414	0.021	0.274	4,886	3.14	12.62	32.51	
7	Central Canterbury	5,990	5,174	7,421	321.66	618.13	...	3,418	3,771	0.460	0.518	0.515	0.183	0.338	5,325	25.09	12.34	187.31	
8	Central Hawke's Bay	6,719	6,216	7,335	255.38	672.46	...	3,627	3,904	0.538	0.659	0.516	0.212	0.387	5,678	27.94	16.00	204.21	
9	Central Waikato	6,068	4,901	7,734	314.45	623.79	...	3,376	3,603	0.451	0.591	0.578	0.121	0.415	5,308	14.85	12.11	121.12	
10	Dannevirke	5,281	4,508	5,771	384.74	789.48	1,299	3,234	3,325	0.611	0.759	0.574	0.034	0.219	4,910	87.80	8.16	6,054.30	
11	Egmont	5,902	5,052	6,152	253.48	532.97	...	3,491	3,581	0.772	0.772	0.536	0.144	0.283	5,587	33.06	6.47	159.69	
12	Franklin	4,645	4,721	4,966	406.10	1,031.38	...	3,355	3,468	0.224	0.287	0.287	0.086	0.202	4,221	22.10	11.71	189.98	
13	Hawke's Bay	6,722	5,611	8,865	298.30	575.27	...	3,719	3,935	0.795	1,001	0.543	0.180	0.370	6,029	20.86	11.96	133.89	
14	Horoehua	6,039	4,318	8,419	268.01	736.66	...	3,785	3,962	0.674	0.865	0.514	0.145	0.212	5,697	25.73	8.55	158.07	
15	Hutt Valley	3,587	3,535	3,494	467.83	952.34	2,578	3,090	3,102	0.218	0.305	0.150	0.015	0.091	3,665	44.12	-0.10	146.03	
16	King Country	5,256	6,218	7,710	332.71	787.08	...	3,603	3,725	0.324	0.385	0.631	0.214	0.298	4,614	10.31	13.35	75.40	
17	Manawatu-Oroua	6,180	6,181	8,055	285.67	621.11	6,712	3,522	4,401	0.851	1,042	0.443	0.230	0.337	6,604	79.30	-2.01	1,745.56	
18	Mauihorou	4,965	5,267	5,110	308.35	637.71	...	3,280	3,464	0.252	0.435	0.553	0.102	0.317	4,670	31.62	7.42	325.93	
19	North Auckland	6,146	6,415	7,166	327.91	676.65	...	3,406	3,631	0.573	0.761	0.413	0.314	0.380	5,497	39.60	11.13	361.89	
20	North Canterbury	6,438	6,438	7,704	382.21	661.80	...	3,531	3,909	0.661	0.793	0.482	0.211	0.298	5,693	77.18	11.06	1,886.79	
21	Otago	4,991	5,254	4,559	353.27	636.10	1,352	3,872	2,539	0.631	0.743	0.449	0.214	0.268	4,204	55.90	15.03	734.77	
22	Otago Central	6,837	5,527	8,653	283.99	634.43	...	3,602	3,900	0.994	1,228	0.621	0.230	0.337	6,316	32.93	8.67	211.81	
23	Poverty Bay	6,083	6,084	4,842	249.57	637.44	...	3,593	3,893	0.526	0.646	0.490	0.071	0.197	5,298	66.45	16.47	1,574.28	
24	Rotorua	5,158	6,010	4,804	331.16	756.07	...	3,472	3,646	0.530	0.639	0.347	0.078	0.241	4,950	17.58	6.69	160.40	
25	South Canterbury	5,811	4,292	7,301	335.71	681.84	1,788	3,351	3,454	0.494	0.609	0.418	0.131	0.431	5,043	15.11	14.78	146.39	
26	Taranaki	7,385	5,894	9,286	407.21	686.64	...	3,465	3,843	0.600	0.833	0.743	0.314	0.487	6,220	26.22	15.16	241.67	
27	Taranaki	5,387	6,102	4,910	314.24	705.10	...	3,468	3,594	0.376	0.494	0.411	0.170	0.299	4,968	28.38	8.04	235.33	
28	Tasman	5,814	6,177	5,306	255.88	552.49	3,007	3,360	3,453	0.415	0.625	0.317	0.209	0.299	4,903	73.45	17.60	1,555.05	
29	Tairāngia	6,007	6,007	7,484	268.38	538.15	...	3,363	3,644	0.424	0.608	0.411	0.001	0.311	4,976	...	18.81	...	
30	Te Awamutu	4,553	4,567	5,405	519.15	1,007.55	...	3,214	3,349	0.305	0.407	0.206	0.108	0.147	4,217	37.24	8.11	222.72	
31	Thames Valley	6,558	5,753	7,925	321.45	682.34	3,141	3,525	3,770	0.541	0.834	0.511	0.511	0.509	6,182	67.07	6.51	497.78	
32	Wairarapa	5,379	6,465	5,590	7,194	368.19	652.59	...	3,468	3,594	0.469	0.592	0.110	0.211	5,090	87.56	7.31	4,117.96	
33	Waikato	6,301	5,045	7,809	372.20	749.73	...	3,464	3,648	0.567	0.810	0.511	0.112	0.461	5,543	11.90	13.54	108.44	
34	Waikato	5,900	4,969	7,937	209.38	514.86	58,206	3,787	4,087	0.492	0.692	0.385	0.207	0.301	5,673	36.21	7.81	177.10	
35	Waitemata	6,436	6,436	8,001	349.53	638.55	3,266	3,804	4,054	0.518	0.726	0.513	0.082	0.568	5,943	42.64	7.86	580.66	
36	Waitemata	5,579	5,579	4,749	270.80	573.16	4,990	3,589	3,869	0.617	0.777	0.441	0.088	0.282	5,457	17.76	5.32	87.99	
37	Wanganui-Rangitikei	7,541	7,551	5,800	323.56	772.40	2,889	3,800	3,655	0.732	1,175	0.612	0.364	0.550	6,357	57.48	20.01	1,207.14	
38	West Coast	5,391	5,486	4,851	303.09	701.93	3,158	3,510	3,692	0.452	0.599	0.350	0.133	0.261	5,036	45.07	8.67	430.55	

TABLE VIII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1984—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 Sold (Retail Sales)	Per kWh (Domestic Supply) <sup>1</sup>	Per kWh (Non-domestic Supply) <sup>2</sup>	Per Head of Population <sup>3</sup>	Per Retail Consumer	Per kWh Generated	Per kWh Purchased	Per kWh Sold	Per kWh Sold (Transmission and Distribution)	Per kWh Sold (Total)	Per kWh Sold (Administration and General)	Per kWh Sold (Interest on Loans)	Per kWh Sold (Depreciation)	c	c					
<i>Territorial Authorities</i>																					
1	Bluff	6.030	5.017	6.872	351.66	812.73	...	3.916	4.488	1.279	1.313	0.366	0.010	0.222	6.177	2.53	4.31	7.52	1		
2	Chinchester	5.631	4.217	8.007	306.88	717.21	...	3.886	4.066	0.284	0.441	0.261	0.042	0.208	5.033	10.92	11.14	49.23	2		
3	Dunedin	5.246	4.253	6.699	330.99	758.84	2.554	3.306	3.312	0.549	0.642	0.479	0.017	...	4.657	3.38	12.95	27.83	3		
4	Hamilton	7.764	6.091	8.849	415.00	744.15	...	4.221	4.433	0.956	1.340	1.003	...	...	6.776	...	15.58	...	4		
5	Heathcote	4.617	4.129	5.023	366.51	1,020.65	...	3.718	3.732	0.121	0.176	0.270	0.056	...	4.235	12.18	12.67	100.53	5		
6	Invercargill	5.797	5.896	7.602	319.58	784.01	...	3.802	3.933	0.496	0.598	0.268	0.134	0.181	5.114	43.13	12.47	243.19	6		
7	Kaipoi	6.043	5.290	7.626	247.56	643.78	...	3.801	3.925	0.028	0.350	0.659	0.068	0.041	5.044	12.43	16.00	69.03	7		
8	Lytelton	6.341	4.621	8.904	370.98	773.83	...	3.795	4.063	1.436	1.586	0.500	...	...	6.149	...	4.84	...	8		
9	Napier	7.571	5.202	9.382	454.16	963.51	...	3.699	3.817	0.555	1.158	0.624	0.385	0.413	6.397	41.15	20.76	462.42	9		
10	Nelson	6.401	3.886	8.782	381.86	894.74	...	3.627	3.794	0.637	0.880	0.479	0.191	0.169	5.513	33.48	15.05	225.46	10		
11	New Plymouth	5.867	4.302	7.603	293.22	649.55	0.953	3.446	3.501	0.572	0.745	0.395	0.036	0.270	4.947	8.82	14.52	46.25	11		
12	Palmerston North	5.976	5.976	8.558	247.98	592.32	240.803	3.810	4.073	0.834	0.946	0.540	0.076	0.138	5.773	16.26	4.37	63.41	12		
13	Riccarton	6.311	3.947	9.038	432.66	831.94	...	3.951	4.219	0.388	0.610	0.564	0.180	0.077	5.650	28.77	11.62	223.50	13		
14	Taurarunui	5.627	3.992	7.730	264.56	624.10	1.329	4.426	3.792	0.743	0.837	0.654	...	...	5.283	13.85	11.36	103.55	14		
15	Taupo	6.107	4.954	7.018	374.24	777.35	4.599	3.624	4.100	0.624	0.712	0.650	0.181	0.300	5.941	63.06	7.69	955.11	15		
16	Tauranga	6.147	3.969	7.303	536.55	786.92	1.284	3.545	3.706	0.222	0.351	0.658	0.038	...	4.753	3.83	25.35	40.49	16		
17	Thames-Coromandel	5.772	5.772	6.575	253.23	541.58	...	4.048	4.249	0.496	0.655	0.557	...	...	5.563	...	4.19	...	17		
18	Timaru	5.536	4.488	6.820	333.06	717.51	...	3.533	3.723	0.309	0.511	0.320	0.168	0.185	4.908	29.11	12.55	212.72	18		
19	Wairoa	6.402	6.402	9.379	221.42	626.48	...	3.678	4.066	0.624	0.754	0.683	0.032	0.189	5.725	8.55	11.40	39.19	19		
20	Wellington	5.697	3.647	7.889	374.72	803.40	...	3.787	3.943	0.418	0.614	0.372	0.070	0.129	5.129	13.08	11.06	104.23	20		
21	Whakatane	6.793	5.075	9.699	251.45	638.52	...	3.856	4.212	0.724	0.848	0.798	0.001	0.263	6.121	0.04	11.02	0.21	21		
22	Whangarei	6.335	4.866	7.868	292.76	662.37	...	3.844	4.084	0.355	0.456	0.486	...	0.058	5.083	...	19.80	...	22		
AVERAGES FOR NEW ZEALAND		5.769	5.774	4.268	327.53	739.03	2.629	3.742	3.872	0.455	0.618	0.403	0.063	0.184	5.140	15.83	12.11	100.43	...		
1983	...	4.879	4.690	5.085	323.49	746.13	1.645	3.267 <sup>4</sup>	1.831	0.585	0.712	0.569	0.352	0.222	3.686	70.90	26.09	...	...		
1982	...	4.306	4.137	4.425	272.10	628.41	1.403	1.648 <sup>4</sup>	1.603	0.529	0.643	0.530	0.336	0.207	3.319	74.49	24.83	...	...		
1981	...	3.915	3.776	4.013	242.34	561.26	1.268	1.505 <sup>4</sup>	1.435	0.434	0.535	0.460	0.320	0.193	2.943	77.72	26.87	...	...		
1980	...	3.579	3.442	3.676	216.94	506.53	1.138	1.588 <sup>4</sup>	1.290	0.359	0.447	0.380	0.287	0.157	2.580	73.25	29.00	...	...		
1979	...	2.558	2.456	2.636	154.63	365.44	1.085	0.878 <sup>4</sup>	1.241	0.310	0.385	0.326	0.250	0.157	2.358	75.21	9.61	...	...		
1978	...	2.365	2.303	2.414	142.48	341.44	1.028	1.005 <sup>4</sup>	1.157	0.264	0.327	0.277	0.197	0.143	2.102	73.83	7.82	...	...		

NOTES:<sup>1</sup>Includes Southland Electric Power Supply. <sup>2</sup>Shown separately and included with the Electricity Division. <sup>3</sup>As for note 3, Table VI, and as a result the operations of the Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board. <sup>4</sup>Cost of electricity purchased from private plants. <sup>5</sup>Retail sales.

TABLE IX—STATISTICS OF POPULATION<sup>1</sup>, CONSUMERS, LICENSED AREA, STAFF EMPLOYED FOR THE YEAR ENDED 31 MARCH 1984

No.	Supply Authorities	Licensed Area (km <sup>2</sup> )	Population in Area of Supply	Total Number of Retail Consumers <sup>2</sup>	Total Number of Domestic Consumers <sup>3</sup>	Population per Square Kilometre of Licensed Area	Total Retail Consumers per Square Kilometre of Licensed Area	Ratio of Total Retail Consumers to Population (percent)	Ratio of Total Domestic Consumers to Population (percent)	Ratio of Domestic to Non-domestic Consumers (percent)	Total Retail Consumers per Circuit Kilometre of Line	Staff Employed	No.
1	Electricity Division <sup>1</sup>	...	...	33 906	25 606	...	...	...	...	...	...	6 615	1
i	Government Department	28 740	71 300	32 136	23 874	2.48	1.12	45.07	33.48	288.96	4.05	236	1
	<i>Power Boards and Related Authorities</i>												
1	Ashburton	6 664	25 200	12 954	9 473	3.78	1.94	51.40	37.59	272.13	3.76	131	1
2	Auckland	935	515 400	207 912	180 377	551.24	222.37	40.34	35.00	655.08	28.45	1 043	2
3	Bay of Islands	6 830	45 400	17 862	13 743	6.65	2.62	39.34	30.27	333.65	4.29	135	3
4	Bay of Plenty	8 389	39 700	15 959	11 954	4.73	1.90	40.20	30.11	298.48	7.76	152	4
5	Buller	4 645	8 470	3 949	3 156	1.82	0.85	46.62	37.26	397.98	5.70	33	5
6	Cambridge	440	13 900	6 368	4 711	31.59	14.47	45.81	33.89	284.31	6.20	33	6
7	Central Canterbury	7 993	46 300	21 737	17 107	5.79	2.72	46.95	36.95	369.48	6.27	199	7
8	Central Hawke's Bay	3 367	13 100	6 817	5 124	3.89	2.02	52.04	39.11	302.66	3.16	38	8
9	Central Waikato	3 074	111 500	42 344	35 750	36.27	13.77	37.98	32.06	542.16	8.78	266	9
10	Dannevirke	2 103	12 200	6 150	4 432	5.80	2.92	50.41	36.33	257.97	6.01	48	10
11	Egmont	1 553	24 400	11 891	8 589	15.71	7.66	48.73	35.20	260.12	6.76	99	11
12	Franklin	2 220	45 400	21 592	15 031	20.45	9.73	47.56	33.11	229.10	7.88	125	12
13	Hawke's Bay	4 967	105 800	41 658	35 278	21.30	9.37	39.37	33.34	552.95	9.23	322	13
14	Horowhenua	1 628	55 100	28 572	24 176	33.85	17.55	51.85	43.88	549.95	16.93	193	14
15	Hutt Valley	1 204	209 300	76 146	68 996	173.79	63.23	36.38	32.97	964.98	34.86	522	15
16	King Country	7 384	17 700	8 695	6 677	2.40	1.18	49.12	37.72	330.87	3.68	60	16
17	Manawatu-Oroua	3 383	52 300	22 108	17 147	15.46	6.54	42.27	32.79	345.64	8.55	147	17
18	Marborough	10 615	33 900	15 592	12 393	3.19	1.47	45.99	36.56	387.40	5.91	155	18
19	North Auckland	5 725	54 900	26 546	20 790	9.59	4.64	48.35	37.87	361.19	5.79	207	19
20	North Canterbury	13 061	34 100	16 525	12 514	2.62	1.27	48.46	36.70	311.99	3.86	149	20
21	Otago	12 349	25 500	14 727	10 781	2.06	1.19	57.75	42.28	273.21	3.24	129	21
22	Otago Central	18 750	22 900	12 718	10 176	1.22	0.68	55.54	44.44	400.31	5.36	139	22
23	Povey Bay	8 284	46 900	20 994	15 939	5.66	2.53	44.76	33.99	315.31	7.55	161	23
24	Rotorua	3 870	60 900	32 843	19 639	15.74	6.16	39.15	32.23	465.80	13.18	128	24
25	South Canterbury	10 585	40 400	17 695	15 345	3.82	1.67	43.80	37.98	652.98	5.37	167	25
26	Tairāhiki	4 359	28 000	13 786	9 919	6.42	3.16	49.24	35.43	256.50	5.60	108	26
27	Tairāhiki	2 850	7 920	4 697	3 206	2.78	1.65	59.31	40.48	215.02	3.38	41	27
28	Tairāhiki	10 789	51 000	22 729	18 309	4.72	2.10	44.57	35.90	414.23	7.20	198	28
29	Tairāhiki	1 728	75 800	35 106	28 445	43.87	20.32	46.31	37.53	427.04	9.75	245	29
30	Tairāhiki	1 424	21 000	10 473	7 077	14.74	7.35	49.87	33.70	208.39	8.31	48	30
31	Tairāhiki	7 158	90 400	46 579	35 982	12.63	6.51	51.53	39.80	339.55	6.71	307	31
32	Tairāhiki	5 753	37 500	17 666	13 725	47.11	3.07	37.11	36.60	348.26	5.97	154	32
33	Tairāhiki	3 506	5 810	2 239	1 668	1.66	0.93	56.42	38.54	215.50	3.15	34	33
34	Tairāhiki	7 741	22 200	11 021	8 659	2.87	1.42	49.64	39.00	366.60	6.06	102	34
35	Tairāhiki	2 890	309 400	125 828	111 400	107.06	43.54	40.67	36.01	772.11	14.45	590	35
36	Waikato	6 221	19 900	10 893	7 109	3.20	1.75	54.74	35.72	187.87	3.81	87	36
37	Waikato	9 472	69 300	32 742	25 848	7.32	3.46	47.25	37.43	374.93	7.81	202	37
38	West Coast	18 017	25 500	10 682	8 255	1.42	0.59	41.89	32.37	340.13	5.88	162	38
		231 877	2 424 400*	1 046 834	859 461	10.46	4.51	43.18	35.45	458.69	8.98	7 059	

TABLE IX—STATISTICS OF POPULATION<sup>1</sup>, CONSUMERS, LICENSED AREA, STAFF EMPLOYED  
FOR THE YEAR ENDED 31 MARCH 1984—continued

No.	Supply Authorities	Licensed Area (km <sup>2</sup> )	Population in Area of Supply	Total Number of Retail Consumers <sup>2</sup>	Total Number of Domestic Consumers <sup>4</sup>	Population per Square Kilometre of Licensed Area	Total Retail Consumers per Square Kilometre of Licensed Area	Ratio of Total Retail Consumers to Population (percent)	Ratio of Total Domestic Consumers to Population (percent)	Ratio of Domestic to Non-domestic Consumers (percent)	Total Retail Consumers per Circuit Kilometre of Line	Staff Employed	No.
<i>Territorial Authorities</i>													
1	Bluff	6	2 600	1 125	928	401.54	173.75	43.27	35.69	471.07	29.01	12	1
2	Christchurch	256	244 300	104 530	92 962	954.30	408.32	42.79	38.05	803.61	35.32	563	2
3	Dunedin	1 101	109 300	47 675	41 139	99.27	43.30	43.62	37.64	629.42	26.05	351	3
4	Hamilton	14	22 500	12 548	9 383	1 608.29	896.93	55.77	41.70	296.46	43.52	114	4
5	Heathcote	16	6 870	2 467	2 318	429.38	154.19	35.91	33.74	1 555.70	32.41	11	5
6	Invercargill	27	38 800	15 816	13 960	1 457.77	594.23	40.76	35.98	752.16	33.83	82	6
7	Kaipoi	4	4 720	1 815	1 070	1 216.49	467.78	38.45	35.38	1 151.72	40.21	10	7
8	Lyttelton	10	2 670	1 280	1 119	256.73	123.08	47.94	41.91	695.03	29.36	13	8
9	Napier	8	11 800	5 562	4 419	1 463.48	689.82	47.14	37.45	386.61	36.81	59	9
10	Nelson	21	17 100	7 298	6 021	828.89	353.76	42.68	35.21	471.50	41.41	63	10
11	New Plymouth	591	50 400	22 752	18 653	85.35	38.53	45.14	37.01	455.06	19.32	161	11
12	Palmerston North	19	42 000	17 584	14 967	2 237.61	936.81	41.87	35.64	571.91	47.16	88	12
13	Riccarton	7	6 530	3 396	2 830	2 292.03	1 192.00	52.01	43.34	500.00	48.73	32	13
14	Taurarunui	20	4 100	1 738	1 313	202.69	85.92	42.39	32.02	308.94	37.87	13	14
15	Taupo	3 455	18 100	8 714	7 159	5.24	2.52	48.14	39.55	460.39	10.62	71	15
16	Tauranga	5	5 560	3 791	2 445	1 199.31	817.73	68.18	43.97	181.65	26.65	27	16
17	Thames-Coromandel	11	6 260	2 927	2 432	568.73	265.92	46.76	38.85	491.31	24.20	15	17
18	Timaru	11	18 400	8 541	7 167	1 671.66	775.96	46.42	38.95	521.62	41.55	54	18
19	Wairoa	6	5 520	1 951	1 697	852.51	301.31	35.34	30.74	668.11	25.83	13	19
20	Wellington	200	115 400	53 824	46 559	576.42	268.85	46.64	40.55	640.87	33.97	313	20
21	Whakatane	6	9 530	3 753	3 122	1 567.43	617.27	39.38	32.76	494.77	53.35	17	21
22	Whangarei	13	17 600	7 779	6 202	1 353.85	598.38	44.20	35.24	393.28	49.42	27	22
<b>GRAND TOTALS</b>		5 803	760 100 <sup>5</sup>	336 866	288 465	130.99	58.05	44.32	37.95	595.99	30.85	2 109	
		266 419	3 255 800 <sup>6</sup>	1 417 606	1 173 532	12.22	5.32	43.54	36.04	480.81	9.31	15 783	

Total population as at 31 March 1984 was 3 265 500.<sup>5</sup>

Mean population as at 31 March 1984 was 3 234 900.<sup>5</sup>

Ratio of population in area of supply to total population was 99.7 percent.

NOTES: <sup>1</sup>Includes Southland Electric Power Supply. <sup>2</sup>Shown separately and included with the Electricity Division. <sup>3</sup>As for note 3, Table VI, and as a result the operations of Tauranga Joint Generation Committee have been included with the Tauranga Electric Power Board. <sup>4</sup>For detailed analysis see Table VI. <sup>5</sup>Provisional. <sup>6</sup>Provisional. As Department of Statistics figures for population in area of supply were not available at time of publication those shown have been estimated by the Electricity Division based on Department of Statistics national populations and historical supply authority population trends. All populations have been rounded to nearest 100 or nearest 10 for those under 10 000.

TABLE X—STATISTICS RELATING TO ELECTRICAL REGISTRATION BOARD, YEAR ENDED 31 MARCH 1984  
(Figures in parenthesis are for previous year)

## 1. Number of board meetings: 13 (11)

	During the year			Current Registration	Removed from Register
	New	Re-regis-tration	Total		
2. Registrations:					
Inspectors	36 (39)		36 (39)	621 (641)	56 (7)
Electrical technicians	25 (35)	9 (15)	34 (50)	2 096 (2 072)	10 (15)
Electricians	648 (740)	111 (249)	759 (989)	14 459 (13 741)	41 (68)
Electrical mechanics	32 (62)	6 (10)	38 (72)	536 (519)	21 (25)
Radio-Electronics serviceman	184 (229)	32 (106)	216 (335)	4 039 (3 833)	10 (3)
Electrical appliance serviceman	155 (153)	—	155 (153)	646 (494)	3 (1)
Restricted certificate	889 (468)	—	889 (468)	2 722 (1 873)	40 (27)
	Regular	3 Year	Total for year		Total to date
Provisional licences	216 (270)	1 (26)	217 (296)	2 641 (2 424)	
Permit to assist	216 (202)				
Application for ruling on experience as electrical technician	77 (118)				
Application for ruling on experience—others	736 <sup>1</sup> (952)				

<sup>1</sup>Includes 83 (192) from overseas and 218 (148) claiming credit for unauthorised experience in New Zealand

## 3. Applications for electrical technicians declined: 52 (83)

## 4. Examinations:

Two examinations were held as follows:

Practical—2 May, 15 October

Written—29 October, a.m. and p.m.

	Papers Sat	Passed	Pass Percentage		Highest Marks	
Electricians and electrical fitters theory paper	818 (774)	508 (501)	62 (65)	95 (89)		
Electricians and electrical fitters regulations papers	745 (750)	591 (597)	79 (80)	52/46 (52/46)		
Electricians and electrical fitters two practical papers	270 (234)	204 (166)	76 (71)	95 (92)		
Radio-electronics serviceman's theory paper	21 (114)	15 (97)	71 (85)	89 (88)		
Radio-electronics serviceman's wiring paper	226 (264)	186 (247)	82 (94)	97 (93)		
Restricted certificate—written paper	318 (335)	204 (230)	64 (69)	91 (90)		
Radio-electronics serviceman's and restricted certificate—two practical papers	258 (323)	214 (280)	83 (87)	97 (96)		
Candidates given special examinations	228 (95)					
Assessments Electricians and Fitters	402					
Assessments servicing	305					
5. Breach of Act and Defective Work						
Defective work reports	2 (5)					
Breach of Act	17 (11)					
Prosecutions authorised	13 (11)					
Prosecutions completed	10 (13)					
Demotions	1 (4)					



Appendix I  
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.
- Section B*—shows combined results of the operations of the Electricity Division and the Electrical Supply Authorities
- The following is a description of some of the terms used supplementing the notes included at the foot of each table:
- Availability Factor*—The time when a generating unit is available for service, expressed as a percentage of total time.
- 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.
- Capacity*—of a power station, in this publication, is the "in-situ maximum" rating, to take into account any permanent up or down rating.
- 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.
- 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.
- Electrical Supply Authority*—is one of those bodies which purchase electricity in bulk for distribution to its consumers.
- Electricity Division*—is a division of the Ministry of Energy. The 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. 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.
- 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 two hours would use 0.5 kWh or 2 kWh respectively.
- 1,000 watts=1 kilowatt(kW)  
1,000 kilowatts=1 megawatt (1 MW)  
1,000 watts (1kW) for one hour=1 kilowatt-hour (1 kWh)  
1,000,000 kWh=1 Gigawatt-hour (1 GWh)
- 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.
- Generation*—is published as gross for hydro stations and nett for thermal stations (see below), throughout these statistics.
- Government Department*—is the Southland Electric Power Supply (part of the Electricity Division of the Ministry of Energy). 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.
- Gross Hydro*—is the total output of a hydro power station metered at the generator terminals.
- 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.
- Internal Use*—shown in section A (table i) refers to the electricity used by hydro stations, substations, synchronous condensers, depots etc. of the Electricity Division.
- 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.
- 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.
- Load Factor*—is the ratio of average to maximum power usually expressed as a percentage.
- Net 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.
- Non-Domestic*—see Table VI (Part III). This refers to all uses listed except Domestic, i.e. all consumption, commercial to construction works inclusive.
- 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.
- Power Boards and Related Authorities*—are Electric Power Boards (generally constituted under the Electric Power Boards Act 1925) an Energy Board, and an Area Electric Authority;
- Private Plants*—refer to commercial and industrial organisations which 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.
- Purchased*—refers to the electricity brought in bulk from the Electricity Division, a supply authority, or a private plant.
- 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 the table, it is not possible to provide similar information based on an alternate classification system such as NZSIC (New Zealand Standard Industrial Classification)
- Territorial Authorities*—are sections of Borough, City, County, or District Councils.

## Appendix 2

ANNUAL STATISTICS IN RELATION TO ELECTRIC POWER DEVELOPMENT AND OPERATION—YEAR ENDED 31 MARCH 1983

The following amendments are necessary:

Page 2, table (i), Summary of Operating Results, Electricity Division only

Average load (kilowatts):	shows 2 584 200	amend 2 696 230
Annual load factor (percent):	shows 62.43	amend 65.19
Electricity sold (in bulk and retail)	shows 20 651 285 172	amend 21 651 285 172

Page 4, table v, Analysis of Capital Outlay, Electricity Division only

Total capital outlay:	shows 3,349,888,612	amend 3,549,888,612
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Page 5, Section B. Condensed Statistics Detailed in Subsequent Tables

Item 7 Population (mean):	shows 3 230 000	amend 3 192 100
Item 8 Population (total):	shows 3 192 100	amend 3 230 000
Item 10 Income from retail sales of electricity:	shows 1,042.7	amend 1,042.2
Item 13 Gross income:	shows 1,122.0	amend 1,121.5
Item 17 Other supply expenditure:	shows 396.9	amend 396.5
Item 19 Gross expenditure:	shows 829.4	amend 828.9
Item 21 Income from retail sales per kWh sold retail:	shows 4.879	amend 4.877
Item 22 Gross income per kWh sold retail:	shows 5.250	amend 5.248
Item 24 Gross expenditure per kWh sold retail:	shows 8.881	amend 8.879

Page 7, Table I (Part I) Financial results of Generation, Distribution, and Operation

Income—	Sales of electricity Retail	Other Sources	Total General Income	Gross Income
Territorial Auths				
Whangarei	4,867,839	6,184	4,874,023	4,874,023
Subtotal	236,343,783	4,217,619	240,931,243	252,665,159
Totals	1,042,183,195	36,226,112	1,719,586,017	1,762,727,948
Net Income and Cost	1,042,183,195	36,226,112	1,078,409,307	1,121,551,238

Page 9, Table I (Part II) Financial results of Generation, Distribution, and Operation

Expenditure—	Administration and General	Total Supply Expenditure	Gross Expenditure	Net Results Surplus
Territorial Auths				
Whangarei	413,546	3,972,024	3,972,024	901,999
Subtotal	17,625,344	208,663,854	219,763,605	32,901,554
Totals	121,679,447	1,428,848,001	1,470,107,725	292,620,223
Net Expenditure	121,679,447	787,671,291	828,931,015	292,620,223

Page 11, Table II (Part I) Analysis of Liabilities and Reserves

	Sundry Creditors	Capital Reserves	Accumulated Retained Surplus	Total
Territorial Auths				
Whangarei	892,650	1,937,899	1,383,465	4,255,491
Subtotal	36,467,130	165,331,314	29,738,783	285,889,910
Grand Totals	208,806,393	659,963,337	880,283,814	4,767,925,315

Page 13, Table II (Part II) Analysis of Assets

	Capital Expenditure	Stocks and materials	Non-loan cash and Investments	Total
Territorial Auths				
Whangarei	1,869,242	203,010	1,586,545	4,255,491
Subtotal	194,687,296	13,867,573	50,379,089	285,889,910
Grand Totals	4,116,136,072	166,308,811	200,006,651	4,767,925,315

Page 15, Table III Analysis of Capital Expenditure

Territorial Auths.	Capital Expenditure During Year			Source of Capital Expenditure Funds	
	Transmission and Distribution	Other	Total	From Income for Current Year	Total
Whangarei	153,471	24,030	177,501	177,501	177,501
Subtotal	18,234,231	5,563,926	32,433,120	12,792,578	32,438,120
Grand Totals	168,964,241	68,899,995	491,288,870	179,492,904	491,288,870

Page 18, Table V Statistics of Generating Plant, ... Substations etc

Power Boards etc	Distribution Number	Substations kVa	Circuit-kilometres of lines
Central Canterbury	4 347	441 313	3 379
Subtotal	97 178	12 903 043	115 204
Grand Totals	113 564	29 855 250	150 511

Page 23, Table VII (Part I) Analysis of Consumption of Electricity

Territorial Auths	Domestic		Commerical		Farming	
	Income	Income per kWh sold	Income	Income per kWh sold	Income	Income per kWh sold
Whangarei	1,966,935	4.892	2,349,898	8.108	1,924	9.296
Subtotal	99,640,580	4.273	98,041,124	4.311	1,769,772	7.761
Grand Totals	409,579,402	4.690	285,302,157	7.640	38,854,131	7.536

Page 25, Table VII (Part II) Analysis of Consumption of Electricity

Territorial Auths	Industrial		Non-Domestic		Total Retail Sales	
	Income	Income per kWh sold	Income	Income per kWh Sold	Income	Income per kWh sold
Whangarei	478,735	6.532	2,900,904	7.640	4,867,839	6.226
Subtotal	33,894,731	6.535	136,703,203	7.701	236,343,783	5.754
Grand Totals	299,518,218	3.639	632,603,793	5.005	1,042,183,195	4.877

Page 26, Table VII (Part III) Summary of End Use of Electricity

	Income \$	Income per kWh sold
Domestic	409,579,402	4.690
Commercial	285,302,157	7.640
Public Lighting	6,955,401	5.417
Farming	38,854,131	7.536
Manufacture of mechanical and electrical equipment	24,332,497	7.082
Manufacture of glass, pottery, china and earthenware and building materials	11,651,744	4.614
Food, beverage, and tobacco industries	80,343,772	6.212
Manufacture of textiles, leather and rubber products, and wearing apparel	16,055,980	6.973
Wood, paper, and pulp products	78,753,425	3.618
Other manufacturing industries not else- where classified	9,456,771	7.185
Construction works	3,892,593	6.089
TOTAL RETAIL SALES	1,042,183,195	4.877

Page 29, Table VIII, Averages Derived from Previous Tables

	Income from sales of electricity							Total Expend- iture Per kWh sold	Surplus percent of Gross Income
	Per kWh sold (incl. Bulk Sales)	Per kWh sold Retail sales	Per kWh sold Domestic supply	Per kWh sold Non- Domestic supply	Per Head of Population	Per Retail consumer	Per kWh sold Admin and General		
Territorial Auths.									
Whangarei	6.226	6.226	4.892	7.640	278.96	636.32	0.529	5.081	18.51
Subtotal	5.750	5.754	4.273	7.701	313.18	710.75	0.428	5.068	13.02
Averages for New Zealand		4.877	4.690	5.005	323.49	746.13	0.569	3.686	26.09

Page 30, Table IX Statistics of Population etc

Population in area of supply:

Power Boards:

King Country	amend 17 650
Waitomo	amend 19 800
Subtotal	amend 2 396 600

Territorial Authorities:

Taupo	amend 17 850
Subtotal	amend 754 660
Grand total	amend 3 221 660