

ANNUAL STATISTICS IN RELATION TO ELECTRIC POWER DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1959

Condensed Statistics for the Combined Development and Operations of the New Zealand Electricity Department and
Distributing Electrical Supply Authorities

No.			Water	Steam	Oil	Total	No.
1	Generating stations	No.	40	5	12	57	1
2	Installed capacity	kW	1,176,192	169,000	14,784	1,359,976	2
3	Generation	kWh	5,274,909,146	401,769,808	732,705	5,677,411,659	3
4	Maximum load	kW				1,118,400	4
5	Retail sales	kWh				4,702,099,864	5
6	Consumers	No.				777,462	6
7	Population	No.				2,326,129	7
8	Capital outlay, generation, transmission, and distribution	£				251,703,894	8
9	Revenue retail sales of electricity	£		27,317,304			9
10	Revenue from other sources	£		571,400			10
11	Total revenue	£				27,888,704	11
12	Working costs	£		10,376,597			12
13	Capital charges	£		13,919,846			13
14	Total costs	£				24,296,443	14
15	Net profit	£				3,592,261	15
16	Working costs per kWh sold retail	d		0.5296			16
17	Capital charges per kWh sold retail	d		0.7105			17
18	Total costs per kWh sold retail	d				1.2401	18
19	Total revenue per kWh sold retail	d				1.4235	19
20	Revenue retail sales of electricity per kWh sold retail	d				1.3943	20
21	Generation per head of total population	kWh				2.441	21
22	Retail sales per consumer	kWh				6.048	22
23	Capital outlay per kW installed capacity	£				185.08	23
24	Ratio of capital charges to capital outlay	%				5.530	24
25	Electrical fires reported during year	No.				180	25
26	Fatal electrical accidents during year	No.				15	26
27	Electric ranges	No.				432,198	27
28	Electric water heaters	No.				489,895	28

TABLE I—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

Summarised Gross Revenue, Net Revenue, and Appropriation Accounts for Year Ended 31 March 1959

	£		£
Working costs	4,978,156	Revenue—	
Capital charges—		Sales of energy	15,326,574
Interest	6,575,044	Rent and miscellaneous receipts	114,057
Depreciation	2,063,309		
Loan capital repayments	1,000,430		
	9,638,783		
Total costs (see Table IV)	14,616,939		
Transfer to Reserve Fund	823,692		
	15,440,631		15,440,631

TABLE II—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

Summarised Balance Sheet as at 31 March 1959

	£		£
Loan liability	161,987,682	Completed works	143,180,527
Sundry creditors, etc.	1,991,672	Works under construction	35,431,933
Reserves—		Plant, motor vehicles, and tools	843,107
Depreciation	15,981,811	Stocks of materials	2,486,128
Loan capital repayments	8,113,610		
Reserve Fund	910,137	Capital outlay (See Table V)	181,941,695
Stores insurance reserve	5,151	Sundry debtors, etc.	7,048,368
	25,010,709		
	188,990,063		188,990,063

TABLE III—OPERATING RESULTS: NEW ZEALAND ELECTRICITY DEPARTMENT ONLY

	1958-59		1958-59
Maximum load (kilowatts)—		Revenue—	
North Island†	731,137	Per kW of maximum load	£14.3278
South Island†	338,571	Per unit output	0.676d.
	*1,069,708	Per unit sold	0.744d.
Average load (kilowatts)—		Working costs—(including administration)—	
North Island	439,548	Per kW of maximum load	£4.6538
South Island	181,890	Per unit output	0.219d.
		Per unit sold	0.242d.
Average load factor—	Per Cent	Capital charges—	
North Island	60.12	Per kW of maximum load	£9.0106
South Island	53.72	Per unit output	0.425d.
		Per unit sold	0.468d.
Unit output (generated and purchased)—		Total costs—	
North Island	3,850,441,759	Per kW of maximum load	£13.6644
South Island	1,593,357,856	Per unit output	0.644d.
Total	5,443,799,615	Per unit sold	0.710d.
Units sold—			
North Island	3,522,482,935		
South Island	1,420,668,220		
Total	4,943,151,155		
Units unsold (used free of charge)—			
North Island	30,930,869		
South Island	21,138,271		
Total	52,069,140		
Line losses—			
Transmission and distribution—	Units	Per Cent	
North Island	297,027,955	7.71	
South Island	151,551,365	9.51	
Total	448,579,320	8.24	

*Sum of North and South Island maximum loads - not simultaneous maximum demand.
†See footnote, Table VII, for maximum load for total public supply.

TABLE IV—NEW ZEALAND ELECTRICITY DEPARTMENT ONLY
Analysis of Operating Costs for Year Ended 31 March 1959

	(a) Working Costs	(b) Administration Costs	(c) Capital Charges	(d) Total Costs	(e) Total Cost per kWh	
					Output	Sold
	£	£	£	£	d.	d.
Hydro-electric stations	697,857	287,493	6,052,002	7,037,352	0.3397	
Thermal stations	1,725,132	121,056	558,921	2,405,109	1.4757	
Power purchases	231,230	4,625		235,855	0.7010	
Generated and purchased	2,654,219	413,174	6,610,923	9,678,316	0.4267	0.4699
Transmission	442,022	182,097	1,421,517	2,045,666	0.0902	0.0993
Substations	589,597	242,893	1,385,540	2,218,030	0.0978	0.1077
Communications	67,514	27,813	69,199	164,526	0.0072	0.0080
Retail distribution	96,043	88,562	151,574	336,179	0.0148	0.0163
System operation	123,390	50,832		174,222	0.0077	0.0085
Totals	3,972,785	1,005,371	9,638,783	14,616,939	0.6444	0.7097
Administration (see column (b))	1,005,371					
	4,978,156					
		SUMMARY				
		Working costs	3,972,785	0.1751	0.1929	
		Administration costs	1,005,371	0.0443	0.0488	
		Capital charges	9,638,783	0.4249	0.4680	
		Total costs	14,616,939	0.6444	0.7097	

	Headworks	Station Buildings and Village	Generating Plant and Machinery	Total	Grand Total
<i>Completed Works</i>					
Hydro-electric stations—	£	£	£	£	£
Karapiro	2,574,316	603,356	956,752	4,134,424	
Arapuni	1,526,482	555,528	1,095,683	3,177,693	
Maractai	6,052,932	1,669,825	1,773,379	9,496,136	
Whakamaru	6,939,381	1,323,770	2,240,336	10,503,487	
Atiamuri	7,036,084	1,387,266	1,143,677	9,567,027	
Lake Taupo control	205,165	..	..	205,165	
Kaitawa	1,208,910	187,775	314,906	1,711,591	
Tuaiti	275,344	335,622	483,681	1,094,647	
Phipaua	756,567	107,849	212,709	1,077,125	
Lake Waikaremoana control	465,228	..	..	465,228	
Mangahao	979,637	189,599	320,243	1,489,479	
Cobb	4,129,445	405,824	395,038	4,930,307	
Arnold	109,996	10,767	26,567	147,330	
Lake Coleridge	552,479	180,611	251,274	984,364	
Highbank	333,788	126,358	179,901	640,047	
Lake Tekapo	2,560,397	509,759	441,887	3,512,043	
Lake Pukaki control	2,309,683	..	..	2,309,683	
Waitaki	1,743,126	1,521,599	1,162,756	4,427,481	
Roxburgh	15,635,527	2,513,943	2,506,375	20,655,845	
Lake Wakatipu control	207	2,321	..	2,528	
Lake Hawea control	2,416,801	..	..	2,416,801	
Monowai	132,842	62,797	63,534	259,173	
	57,944,337	11,694,569	13,568,698	83,207,604	
Thermal stations—					
Kings Wharf		165,170	259,243	424,413	
Meremere		2,750,344	3,090,756	5,841,100	
Evans Bay		77,066	221,484	298,550	
Stoke		12,341	66,961	79,302	
Dobson		43,988	94,648	138,636	
		3,048,909	3,733,092	6,782,001	
Transmission system—					
33 kV lines				45,090	
50 kV lines				734,498	
66 kV lines				2,329,412	
110 kV lines				7,322,929	
220 kV lines				9,112,596	19,544,525
Substations—					
33 kV				22,606	
50 kV				1,168,085	
66 kV				2,025,000	
110 kV				8,960,492	
220 kV				6,873,289	19,049,472
Communications				951,409	
Distribution system				2,083,953	
Offices, stores, land, and buildings				725,951	
Cost of raising loans				832,964	
Interest during construction on completed works				10,002,648	
				143,180,527	
<i>Works Under Construction</i>					
Hydro-electric stations—					
Atiamuri	3,524,010	376,681	359,073	4,611,991	
Ohakuri	3,569,864	523,500	711,300	4,421,293	
Waipapa	2,045,137	..	327,929	4,421,293	
Benmore	86,020	841,503	9,602	2,054,739	
Roxburgh	9,158	2,261	184,103	1,111,626	
Additions to completed stations			4,738	16,157	
	9,234,189	1,743,945	1,596,745	9,434,106	
Thermal stations—					
Meremere	1,174,291	..	8,259,815	9,230,411	
Wairakei	8,143,019	660,528	426,864	9,230,411	
	9,317,310	660,528	8,686,679	..	
Transmission system—					
33 kV lines				69,647	
50 kV lines				88,071	
110 kV lines				779,538	
220 kV lines				646,867	
500 d.c. lines (survey)				28,006	
Substations—					
33 kV				7,360	
50 kV				8,633	
66 kV				2,931	
110 kV				577,061	
220 kV				113,987	
Distribution system				10,078	
Offices, stores, land, and buildings				23,130	
				33,594,705	
Interest on works under construction				483,784	
Surveys and investigations of other schemes				1,353,444	35,431,933
Fixed assets				178,612,460	
Plant, motor vehicles, and tools				843,107	
Stocks of materials				2,486,128	
Total capital outlay					181,941,695

No.	Supply Authorities	Source of Supply ¹	Year When Supply Commenced	Capacity of Generating Plant			State Head, in Feet	Generation	Voltage		Distribution	Distribution Transformer		No.	
				Water	Steam	Oil			Total Capacity	Transmission		Generation	Number		kVA	Route Miles of Lines
21	Power Boards—continued														
21	North Auckland	G.	1926								33,000	1,829	39,357	2,718	
22	North Canterbury	G.	1928								11,000	1,225	13,866	1,410	
23	Opunake	G.	1923	315			450				6,600	294	5,290	289	
24	Ohango	G.	1926								33,000	1,822	24,695	2,234	
25	Ohango Central	I. & G.	1923	5,310	6,637		6,637		33,000		6,600	629	10,640	826	
26	Poverty Bay	G.	1912			980	1,150				6,600	1,024	43,910	960	
27	South Canterbury	G.	1925								6,600	1,952	26,551	1,769	
28	South Taranaki	G.	1929	556			607				11,000	407	27,276	1,481	
29	Springs Eylesmere	G.	1922								11,000	841	27,568	644	
30	Taranaki	G.	1927	4,800	5,400		5,400				6,600	801	14,960	732	
31	Taranaki	G.	1925								6,600	719	8,645	636	
32	Tauranga	G.	1926								6,600	827	25,539	1,252	
33	Te Awamutu	G.	1921								6,600	509	17,293	512	
34	Teviot	I. & B.	1924	750	1,005		1,005				6,600	201	2,212	93	
35	Thames Valley	G.	1921								6,600	1,060	59,788	2,499	
36	Waimea	G.	1933	250	270		270				6,600	396	22,551	825	
37	Wairarapa	G.	1923	770	1,100		1,100				6,600	960	21,607	1,059	
38	Wairere	I. & G.	1925	1,400	1,540		1,540				6,600	512	5,534	567	
39	Wairoa	G.	1923								6,600	265	5,031	569	
40	Wairangi	G.	1926								6,600	895	24,943	828	
41	Waitemata	G.	1926								6,600	1,371	90,735	3,159	
42	Waitemata	G.	1926								6,600	618	19,447	734	
43	Wanganui-Rangitikei	G.	1924								6,600	1,483	56,938	1,707	
	Totals			15,649	18,951	3,116	3,819	22,770				35,943	1,404,442	45,083	
1	Christchurch	G.	1903								11,000	810	170,803	1,635	
2	Dunedin	I. & G.	1907	44,600	54,888		54,888		110,000		6,600	1,366	130,297	818	
3	Hamilton	G.	1913						33,000		6,600	53	13,250	229	
4	Invercargill	G.	1914								6,600	106	16,499	155	
5	Napier	B.	1913			400	500				6,600	51	10,825	147	
6	Nelson	B.	1923								6,600	49	10,715	71	
7	New Plymouth	G.	1906	3,750	4,500		4,500				6,600	398	24,264	467	
8	Palmerston North	B.	1924								6,600	114	24,600	318	
9	Timaru	B.	1908								6,600	73	20,653	109	
10	Wellington	G.	1888	48,350	59,388	2,400	3,000	50,750	62,388		6,600	249	143,000	716	
	Totals			48,350	59,388	2,400	3,000	50,750	62,388		6,600	3,277	556,968	4,665	

¹For notes see page 6.

TABLE VI—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, ETC., FOR THE YEAR ENDED 31 MARCH 1959—continued

No.	Supply Authorities	Source of Supply ¹	Year When Supply Commenced	Capacity of Generating Plant						Static Head, in Feet	Voltage			Distribution Transformers		Route Miles of Lines	No.
				Water	Steam	Oil	Total	Capacity	Generation		Transmission	Distribution	Number	kVA			
1	Bluff Borough Councils	B.	1903											39	2,619	16	1
2	Ingleswood	B.	1905											13	2,400	19	2
3	Kaipoi	B.	1917											1	2,400	19	3
4	Lytelton	G.	1917											16	3,160	19	4
5	Ohakune	G.	1914											68	1,639	93	5
6	Rata	I. & G.	1917	346			346	432						60	1,315	87	6
7	Racine	I. & G.	1917											11	2,000	17	7
8	Rangiora	G.	1912											57	9,700	61	8
9	Riccarton	G.	1916											789	31,891	824	9
10	Rotorua Electric Supply	G.	1901											27	3,755	32	11
11	Stratford	B.	1898											12	1,300	18	12
12	Tallapo	B.	1913											29	3,992	33	13
13	Taumarunui	G. & B.	1924	425			425	500						36	2,303	115	14
14	Taupo	I. & G.	1952	1,125	1,140		1,525	1,640						27	4,375	57	15
15	Tauranga	I.	1915	3,440	4,300		3,440	4,300						23	3,545	47	16
16	Tc Aroha	B.	1906											22	4,150	46	17
17	Thames	B.	1914	100	122		100	122						23	2,820	34	18
18	Waikanae	B.	1913											18	1,775	20	19
19	Waikato	B.	1917											31	4,665	51	20
20	Whakatane	B.	1922											74	12,310	99	21
21	Whangarei	B.	1915											1,386	101,044	1,704	..
	Totals	..	..	5,436	6,194	452	5,888	7,059									
	TOWN BOARDS																
1	Kaponga	B.	1916											68	1,975	55	1
2	Mangaweka	B.	1913											8	212	11	2
	Totals	..	..											76	2,187	66	..
	COUNTY COUNCILS																
1	Heathcote	G.	1914											14	4,900	84	1
2	Kaikoura	I.	1922											34	1,100	39	2
3	Murchison	I. & G.	1922	200	250		200	250						46	1,170	40	3
4	Mackenzie	I. & G.	1937											32	490	127	4
	Totals	..	..	200	250	556	605	935						126	7,660	290	..
	COMPANIES																
1	Amedyst Power Co.	I.	1954	192	240		192	240						35	207	29	1
2	Kameri Electric Ltd. ²	I. & G.	1921	1,560	1,950	150	187	2,137						8	1,465	53	2
3	Westland Power Ltd. ³	I. & G.	1928	845	925			925						105	3,884	155	3
	Totals	..	..	2,597	3,115	150	187	2,747						148	5,556	237	..
	GRAND TOTALS	..	..	1,176,192	1,333,419	69,000	202,300	14,784	18,993	1,359,976	1,554,112			44,702	2,399,283	60,549	..

NOTES: ¹ G. = Government supply; B. = Bulk supply from another supply authority; I. = Independent supply (own generating plant). ² Returns for year ended 31 December 1958. ³ Returns for year ended 31 December 1958.

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1959—continued

No.	Supply Authorities	Maximum Load	Annual Load	Generated			Feed Back	Net Generated	Purchased	Net Generated and Purchased	Sold			Percentage Non-productive	Per Head of Population	Per Consumer (Excluding Bulk Supply)	Per Cent of Distribution	Per Route-mile of Line*	Average Maximum Demand per Retail Consumer	No.
				Water	Steam	Oil					In Bulk for Resale	Retail to Consumers	Non-productive							
1	City Councils	kWh	%	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	%	kWh	kWh	kWh	kWh	kWh	kWh	
1	Christchurch	162,658	17.38	..	..	..	431,825,751	389,774,876	431,825,751	42,001,147	9.73	6,219	86	230,483	1,641	1	
2	Dunedin	78,270	8.34	..	..	..	307,863,978	276,103,020	307,863,978	31,760,158	10.32	7,363	89	337,432	2,096	2	
3	Hamilton	8,640	0.91	..	..	..	42,632,960	39,487,436	42,632,960	3,165,524	7.85	4,367	107	172,294	0,893	3	
4	Invercargill	12,060	12.63	..	..	..	27,751,300	26,477,456	27,751,300	1,449,215	5.19	4,973	82	250,680	1,117	4	
5	Napier	5,380	5.69	175,371	..	..	27,751,300	26,477,456	27,751,300	1,449,215	5.19	4,973	120	180,118	0,010	5		
6	Nelson	7,288	7.69	..	..	..	35,356,418	32,982,872	35,356,418	4,074,046	11.21	5,449	116	453,723	2,300	6	
7	New Plymouth	15,045	15.69	..	..	..	79,098,304	70,882,000	79,098,304	8,213,304	22.56	5,927	165	151,707	1,258	7	
8	Palmerton North	14,260	14.97	..	..	..	67,715,650	61,032,130	67,715,650	6,683,520	18.56	4,707	107	193,857	1,108	8	
9	Timaru	10,000	10.59	408,912	..	..	47,028,560	41,034,641	47,028,560	5,993,919	16.74	4,707	135	373,088	1,393	9		
10	Wellington	65,000	68.47	..	..	..	278,831,470	261,803,353	278,831,470	17,228,117	48.18	5,871	95	365,296	1,459	10	
							1,224,280,281	1,238,028,836	1,364,313,164	126,234,600	9.25*	3,963	96	265,387*	..	..		
1	Borough Councils	kWh	%	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	%	kWh	kWh	kWh	kWh	kWh	kWh	kWh	
1	Bluff	1,238	13.37	..	..	..	4,724,882	4,114,945	4,724,882	609,937	12.91	4,161	87	265,036	1,252	1	
2	Haigwood	1,636	17.36	..	..	..	3,207,956	2,899,590	3,207,956	308,366	6.51	4,016	103	161,088	0,881	2	
3	Lyttelton	1,293	13.76	..	..	..	4,901,600	4,620,000	4,901,600	281,600	5.75	4,936	115	267,748	1,103	3	
4	Lyttelton	1,293	13.76	..	..	..	6,260,355	5,868,181	6,260,355	392,174	7.85	4,601	110	282,859	1,111	4	
5	Otautau	727	7.72	..	..	..	3,026,410	2,623,466	3,026,410	402,944	13.31	2,830	47	28,285	0,134	5	
6	Patea*	562	5.93	..	..	..	2,072,592	1,856,510	2,072,592	206,082	4.34	3,394	44	24,651	0,116	6	
7	Raetihi	1,412	14.87	74,639	..	..	7,859,383	7,441,560	7,859,383	407,823	8.60	7,091	126	373,619	1,770	7		
8	Rangiora	4,504	47.57	..	..	..	7,071,100	6,508,970	7,071,100	562,130	12.05	7,091	126	373,619	1,770	8	
9	Riccarton	4,504	47.57	..	..	..	20,409,760	18,593,490	20,409,760	1,816,270	39.40	3,880	76	306,066	1,406	9	
10	Rotorua Electric Supply	10,244	107.47	..	..	..	49,172,623	41,681,427	49,172,623	7,491,196	15.23	3,880	76	306,066	1,406	10	
11	Stratford	1,770	18.66	..	..	..	9,700,494	9,168,820	9,700,494	531,674	11.19	4,698	73	289,694	1,345	11	
12	Taharape	841	8.85	..	..	..	3,965,500	3,570,200	3,965,500	395,300	8.44	4,085	109	192,984	0,963	12	
13	Tairāhema	1,578	16.63	..	..	..	6,803,380	6,102,076	6,803,380	701,304	15.01	4,319	81	184,872	0,875	13	
14	Taupo	1,784	18.78	..	..	..	843,960	801,934	843,960	41,926	0.89	2,795	48	67,612	0,316	14	
15	Tauranga	4,247	44.67	..	..	..	798,400	759,645	798,400	38,755	0.83	5,360	100	341,239	1,575	15	
16	Tc Araka	1,085	11.37	..	..	..	5,329,004	5,074,122	5,329,004	254,882	5.35	4,250	103	107,960	0,509	16	
17	Thames	1,750	18.34	..	..	..	9,732,150	9,293,558	9,732,150	438,592	9.31	5,076	147	202,034	0,956	17	
18	Tuakau	1,910	20.07	..	..	..	4,958,628	4,585,900	4,958,628	372,728	7.71	5,181	160	268,683	1,268	18	
19	Waikanae	1,072	11.28	..	..	..	4,958,628	4,585,900	4,958,628	372,728	7.71	5,181	160	268,683	1,268	19	
20	Whakamata	2,280	24.07	..	..	..	11,132,350	10,421,520	11,132,350	710,830	15.43	4,664	66	189,618	0,895	20	
21	Whangarei	5,549	58.47	..	..	..	24,243,380	22,451,995	24,243,380	1,791,385	38.46	4,812	90	227,247	1,089	21	
							187,889,917	189,661,382	220,385,920	25,575,810	11.61*	4,570	75	111,303*	..	..		
1	Town Boards	kWh	%	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	%	kWh	kWh	kWh	kWh	kWh	kWh	kWh	
1	Kaponga	832	8.75	..	..	..	4,093,997	3,714,815	4,093,997	379,182	8.26	6,405	62	67,236	1,469	1	
2	Mangawaka	169	1.78	..	..	..	660,470	562,622	660,470	97,848	2.14	3,349	115	48,924	1,006	2	
							4,754,467	4,277,437	4,754,467	477,030	10.03*	5,718	66	64,810*	..	..		
1	Country Councils	kWh	%	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	%	kWh	kWh	kWh	kWh	kWh	kWh	kWh	
1	Headstone	2,938	31.07	..	..	..	13,928,700	12,577,616	13,928,700	1,351,084	29.76	8,852	212	148,980	2,082	1	
2	Kaikoura	298	3.14	..	..	..	1,624,533	1,356,810	1,624,533	267,723	5.80	1,360	18	23,648	0,337	2	
3	Murchison	298	3.14	..	..	..	774,120	676,170	774,120	97,950	2.14	1,094	64	31,520	0,400	3	
4	Mackenzie	202	2.13	..	..	..	774,120	676,170	774,120	97,950	2.14	1,094	64	31,520	0,400	4	
							14,955,440	15,532,807	17,826,393	2,293,506	12.87*	6,188	74	53,562*	..	..		

(For notes see page 9.)

TABLE VII—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1959—continued

No.	Supply Authorities	Maximum Load kW	Annual Load %	Units						Units Sold (Average)					Average Maximum Demand per Retail Consumer	No.								
				Generated	Net Generated	Purchased	Net Generated and Purchased	In Bulk for Resale	Sold	Percentage Non-productive ¹	Per Head of Population ²	Per Consumer (Excluding Bulk Supply)	Per % of Distribution ³	Per Route-mile of Line ⁴										
				Water	Steam	Oil	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	
1	Ameritrol Power Co.	210	15.00	843,120	..	..	843,120	843,120	..	..	843,120	..	..	..	..	..	..	..	..	..	..	..	..	..
2	Kanieri Electric Ltd.	1,357	79.72	10,303,100	..	..	10,303,100	10,303,100	..	..	10,303,100	..	..	..	..	..	..	..	..	..	..	..	..	..
3	Westland Power Ltd.	1,037	62.28	5,014,517	..	..	5,014,517	5,014,517	..	..	5,014,517	..	..	..	..	..	..	..	..	..	..	..	..	..
	Grand Total			16,221,137	..	..	16,221,137	16,221,137	..	..	16,221,137	..	..	..	..	..	..	..	..	..	..	..	..	..
	Sundry private plants ⁵			..	10,679,843	..	..	..	..	10,679,843	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	GRAND TOTALS	1,118,400	..	5,274,900,146	401,769,808	732,705	5,677,411,659	5,677,411,659	..	..	5,677,411,659	..	..	..	..	..	..	..	..	..	..	..	..	..

Units generated per head of total population 2.441

Units sold retail per consumer 6.048

Maximum load for public supply: North Island, 739,100 kW.

South Island, 379,300 kW.

Annual load factor: North Island 60.12 per cent.

South Island 53.72 per cent.

NOTES—¹ Includes generation by electrical supply authorities for own use and is the sum of North Island 739,100 kW, and South Island 379,300 kW.
² Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
³ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
⁴ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
⁵ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
⁶ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
⁷ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
⁸ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
⁹ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
¹⁰ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
¹¹ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
¹² Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
¹³ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
¹⁴ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.
¹⁵ Includes units lost in transmission and distribution, units used free of charge and units supplied station auxiliaries.

TABLE VIII—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1959

Supplier Authorities	Capital Outlay		Loan Liability		Sales of Energy		Revenue		Working Costs			Capital Charges			Net Results		Appropriation of Capital Surplus for Works						
	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	Retail	Bulk for (Excluding Standby back)	Feed-back, Standby Charges, and Refund of Costs	Trading Account Profit	Other Sources (Excluding Rates)	Total	Generated	Trans-mission and Distribution	Management and General	Total	Interest	Sinking Fund and Principal Repayments		Depreciation	Revenues and out of Revenue	Total	Total Annual Costs	Surplus	Deficit
NEW ZEALAND ELECTRICITY DEPARTMENT	101,941,695	101,987,692	1,462,643	13,063,931	2,422,989	67,440	163,790	2,422,989	14,637,157	15,440,631	2,422,989	1,318,566	1,005,371	4,978,156	6,575,044	1,000,450	2,063,309	4,843	60,719	259,532	4,616,939	623,692	£(N.Z.)
Power Boards	1,025,809	583,729	295,307	3,615,217	3,549	6,376	304,410	2,727	6,376	3,615,217	147,606	25,692	17,515	190,813	22,638	41,238	108,420	4,843	60,719	259,532	44,878	32,616	
Aurora	10,195,770	3,649,626	61,807	170,942	...	15,021	3,632,813	2,605	15,021	3,649,626	2,080,512	476,875	267,565	2,854,952	144,644	293,734	108,420	16,163	452,964	3,407,916	294,927	39,911	
Bay of Plenty	1,434,748	978,867	373,376	394,413	...	3,855	381,391	1,183	4,762	978,867	28,509	73,317	23,502	46,195	6,341	7,344	...	2,856	16,541	82,736	3,305	33,130	
Bay of Plenty	1,812,246	394,413	396,157	440,621	...	4,581	440,621	3,530	4,581	396,157	246,184	34,160	31,630	311,974	18,037	22,816	...	8,901	101,710	360,145	21,176	25,678	
Bay of Plenty	209,812	144,331	92,699	97,337	...	653	97,337	436	653	97,337	45,349	11,890	9,000	67,383	4,355	4,419	...	3,651	12,425	79,808	17,529	14,142	
Bay of Plenty	220,684	15,070	121,925	124,047	...	1,321	124,047	72	1,321	124,047	60,904	9,395	16,273	47,277	10,749	5,336	...	12,200	18,285	96,212	27,835	14,598	
Bay of Plenty	663,772	270,899	187,932	197,047	...	72	197,047	1,565	72	197,047	87,107	25,421	16,273	457,464	33,376	23,039	...	30,005	43,087	171,816	25,229	17,145	
Bay of Plenty	1,643,462	923,746	670,102	674,057	...	3,117	674,057	745	3,117	674,057	346,018	51,070	60,376	457,464	14,409	14,977	...	30,005	154,772	612,236	62,721	24,052	
Bay of Plenty	3,161,676	89,408	156,693	162,352	...	4,430	162,352	745	4,430	162,352	72,899	12,425	22,696	100,020	20,183	34,184	...	20,262	136,010	136,010	26,322	24,579	
Bay of Plenty	1,112,467	732,700	384,709	389,393	...	4,430	389,393	704	4,430	389,393	200,885	30,725	37,528	269,138	28,447	34,355	...	19,022	81,024	350,962	39,031	28,195	
Bay of Plenty	233,143	105,700	64,099	66,518	...	1,281	66,518	704	1,281	66,518	59,785	3,607	5,668	69,518	4,580	6,450	...	...	117,578	107,865	12,194	10,755
Bay of Plenty	620,205	69,890	263,919	261,611	...	708	261,611	708	708	261,611	32,247	39,673	27,339	199,259	3,177	6,556	...	...	27,951	202,548	39,393	43,090
Bay of Plenty	1,945,170	898,743	680,246	683,474	...	7,071	683,474	7,071	7,071	683,474	455,037	74,575	61,090	590,702	36,360	72,340	...	...	121,361	742,616	51,420	44,913
Bay of Plenty	1,160,863	507,417	387,103	396,953	...	4,172	396,953	49	4,172	396,953	201,787	31,733	28,618	282,138	20,183	34,184	...	...	74,629	356,767	40,126	31,124
Bay of Plenty	2,337,679	1,153,804	1,470,192	1,488,928	...	5,156	1,488,928	49	5,156	1,488,928	1,012,806	154,708	109,826	1,277,340	42,309	58,051	...	...	117,578	1,394,918	91,010	28,195
Bay of Plenty	572,839	635,805	120,429	144,315	...	740	144,315	330	740	144,315	22,232	7,113	12,960	72,305	11,526	14,614	...	...	35,560	107,865	33,450	10,755
Bay of Plenty	208,197	125,196	48,078	53,002	...	3,872	53,002	330	3,872	53,002	23,506	4,427	6,167	34,100	5,017	5,693	...	...	2,798	37,608	5,473	4,913
Bay of Plenty	1,172,294	177,910	393,224	400,246	...	2,154	400,246	515	2,154	400,246	369,961	58,400	26,811	475,172	14,847	30,337	...	...	38,129	76,394	51,566	45,723
Bay of Plenty	883,083	381,816	220,843	244,390	...	4,180	244,390	49	4,180	244,390	108,172	18,669	16,662	157,777	14,847	28,128	...	...	24,012	224,764	20,234	16,006
Bay of Plenty	1,894,422	901,563	516,798	539,242	...	1,301	539,242	338	1,301	539,242	165,273	70,597	33,669	276,691	26,106	44,840	...	...	115,478	528,847	95,102	53,178
Bay of Plenty	609,310	356,119	218,072	240,264	...	1,860	240,264	35	1,860	240,264	296,548	57,745	34,645	368,938	35,012	57,745	...	...	41,882	228,846	35,797	10,755
Bay of Plenty	307,350	72,711	94,894	100,826	...	840	100,826	840	840	100,826	136,274	31,650	22,162	196,079	2,872	4,743	...	...	3,000	215,792	10,671	15,463
Bay of Plenty	1,292,235	562,025	356,074	365,880	...	2,015	365,880	1,056	2,015	365,880	205,003	34,441	19,145	258,589	17,021	24,329	...	...	31,270	313,299	52,581	56,900
Bay of Plenty	654,417	261,853	133,135	136,446	...	3,153	136,446	49	3,153	136,446	168,675	25,392	20,505	221,541	11,066	14,791	...	...	10,442	36,600	46,205	25,988
Bay of Plenty	1,373,271	700,920	381,354	394,242	...	1,338	394,242	338	1,338	394,242	165,273	70,597	33,669	276,691	26,106	44,840	...	...	369	449,341	44,901	38,826
Bay of Plenty	1,270,874	615,077	350,328	369,510	...	83	369,510	83	83	369,510	206,306	58,860	22,793	289,959	30,129	37,167	...	...	29,656	388,200	16,013	12,483
Bay of Plenty	750,929	300,798	225,796	240,906	...	35	240,906	35	35	240,906	114,833	17,080	18,771	150,684	11,241	19,262	...	...	34,605	215,792	10,671	15,463
Bay of Plenty	51,021	51,021	27,129	29,419	...	1,125	29,419	1,125	1,125	29,419	205,003	34,441	19,145	258,589	17,021	24,329	...	...	3,000	313,299	52,581	56,900
Bay of Plenty	1,840,900	668,047	900,215	956,206	...	4,862	956,206	4,862	4,862	956,206	564,739	113,037	58,716	736,492	28,235	76,053	...	...	1,291	9,377	26,109	4,906
Bay of Plenty	446,397	231,124	143,225	148,297	...	1,648	148,297	1,648	1,648	148,297	62,831	19,863	15,854	98,648	9,805	16,357	...	...	12,115	38,277	136,651	41,341
Bay of Plenty	1,073,619	418,304	287,275	300,565	...	1,477	300,565	1,477	1,477	300,565	251,490	30,867	22,417	305,001	14,477	26,260	...	...	18,337	353,410	51,694	30,927
Bay of Plenty	390,919	246,272	49,082	52,495	...	452	52,495	452	452	52,495	64,414	10,815	6,400	70,929	5,261	12,457	...	...	34,605	107,531	40,420	39,445
Bay of Plenty	515,099	27,300	296,794	306,783	...	2,910	306,783	2,910	2,910	306,783	53,886	9,744	11,407	64,000	5,400	9,402	...	...	2,617	240,353	4,906	2,490
Bay of Plenty	739,382	363,770	277,444	286,221	...	2,910	286,221	2,910	2,910	286,221	143,807	17,327	28,592	188,926	15,387	22,806	...	...	23,552	291,676	29,570	4,619
Bay of Plenty	2,912,339	1,614,342	1,218,456	1,224,219	...	5,763	1,224,219	5,763	5,763	1,224,219	649,261	195,842	83,287	928,360	65,890	119,678	...	...	19,641	1,133,572	90,647	38,173
Bay of Plenty	810,547	389,316	250,560	259,469	...	2,367	259,469	2,367	2,367	259,469	133,000	28,389	21,472	182,861	18,245	25,322	...	...	15,600	352,594	6,885	16,008
Bay of Plenty	1,779,732	695,371	590,369	629,572	...	12,007	629,572	12,007	12,007	629,572	347,959	75,031	59,369	476,359	29,343	46,900	...	...	3,667	572,136	57,456	31,977
Bay of Plenty	50,649,331	22,658,126	17,590,137	18,937,255	...	77,907	18,937,255	77,907	77,907	18,937,255	10,285,212	1,197,397	1,433,178	13,962,373	894,917	1,613,509	...	...	570,823	17,227,568	1,709,607	1,166,937
City Councils	4,506,737	723,446	2,218,969	2,320,730	...	10,339	2,320,730	10,339	10,339	2,320,730	1,444,360	278,013	92,571	1,815,044	21,320	39,213	...	...	...	2,060,320	170,410	89,889
City Councils	5,420,390	3,013,495	1,351,271	1,373,640	...	5,472	1,373,640	5,472	5,472	1,373,640	353,359	225,923	126,925	769,528	109,316	136,991	...	...	...	1,087,366	266,263	37,026
City Councils	368,264	39,000	263,265	267,625	...	...	267,625	...	...	267,625	115,970	5,308	19,031	152,529	1,580	2,000	...	...	...	169,534	98,093	25,215
City Councils	515,099	27,300	296,794	306,783	...	2,910	306,783	2,910	2,910	306,783	174,070	35,308	11,407	220,866	1,119	3,948	...	...	...	240,353	5,009	30,463
City Councils																							

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1959

Supply Authorities	Capital Outlay			Revenue from Sale of Electricity				Working Costs			Capital Charges			Total Costs			
	Per Head of Population	Per Consumer	Per £1 of Revenue	Per Unit Sold (Including Bulk Sales)	Per Unit Sold (Retail Sales)	Per Unit Sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per kW. of Maximum Demand	Per kW. of Maximum Demand	Per Unit Sold	Per kW. of Maximum Demand	Per Cent of Capital Outlay	Per Unit Sold	Per kW. of Maximum Demand	Per Cent of Distribution Capital*	No.
NEW ZEALAND ELECTRICITY DEPARTMENT	£(N.Z.)	£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	%	d.	£(N.Z.)	%		
Ashburton	44.57	134.23	3.47	1.388	1.044	12.83	39.64	31.39	20.28	0.897	7.30	6.70	0.323	27.59	95.30	1	
Auckland	30.63	91.84	2.82	1.293	1.050	16.06	31.57	23.57	20.19	1.021	3.91	5.42	0.198	24.10	33.42	2	
Banks Peninsula	66.40	129.13	4.09	1.923	1.859	16.26	31.55	203.95	24.15	1.438	8.65	6.54	0.315	32.80	34.02	3	
Bay of Islands	39.29	150.28	3.82	1.868	1.554	10.26	30.32	26.61	24.56	1.286	9.66	7.09	0.306	34.22	25.19	4	
Bay of Plenty	27.48	132.83	1.88	1.243	1.152	13.40	64.78	26.82	19.35	0.854	3.66	7.26	0.161	23.00	45.67	5	
Buller	20.67	66.67	2.26	1.868	1.699	9.13	29.46	637.44	20.92	1.284	3.93	5.92	0.241	24.85	40.72	6	
Canterbury	24.77	71.12	1.80	1.729	1.743	13.68	39.29	29.86	18.96	1.100	4.46	8.29	0.238	23.44	43.60	7	
Central Hawke's Bay	39.09	147.36	3.54	1.688	1.423	13.43	41.60	31.72	21.73	1.156	7.27	6.47	0.397	29.00	25.81	8	
Central Waikato	37.14	116.95	3.26	1.607	1.358	11.21	39.62	29.40	20.07	1.097	6.79	9.38	0.468	26.85	37.12	9	
Dannevirke	37.14	116.95	3.26	1.778	1.554	11.41	35.92	33.84	23.03	1.210	5.97	5.42	0.314	29.00	26.33	10	
Franklin	36.92	115.76	2.89	1.516	1.254	12.77	40.03	29.16	20.36	1.057	6.14	7.30	0.319	26.50	31.49	11	
Golden Bay	57.26	182.43	4.62	0.971	0.855	21.88	69.69	23.57	18.27	0.663	2.97	4.73	0.106	21.19	35.61	12	
Grey	30.61	96.25	2.44	1.482	1.314	12.53	39.40	29.02	22.78	1.163	2.62	3.70	0.207	23.10	35.92	13	
Hawke's Bay	33.88	99.31	2.55	1.482	1.200	11.85	34.73	24.76	19.16	1.005	3.94	6.24	0.207	23.10	36.96	14	
Horowhenua	36.33	76.70	3.00	1.324	1.239	12.12	35.58	28.28	20.61	1.110	5.45	6.43	0.294	26.06	36.96	15	
Hutt Valley	19.06	63.56	1.59	1.394	1.058	11.99	39.90	21.65	18.81	1.211	1.73	5.03	0.111	20.54	59.67	16	
King Country	41.97	225.53	4.33	2.012	2.313	9.82	37.41	24.28	19.06	1.100	1.00	6.21	0.541	27.05	18.95	17	
Manawatu	38.63	146.41	4.26	2.043	1.863	9.07	42.87	29.48	21.54	0.425	8.53	6.49	0.365	30.07	22.87	18	
Manawatu-Oroua	38.63	127.81	1.94	1.071	1.401	13.38	42.87	29.48	21.54	0.425	8.53	6.49	0.365	30.07	22.87	19	
Marlborough	36.63	118.92	4.00	1.734	1.187	9.16	29.74	26.86	20.06	0.844	5.45	7.59	0.136	20.55	47.05	20	
North Auckland	57.15	157.15	3.09	1.368	1.187	14.30	42.87	30.19	20.35	0.922	5.69	6.10	0.238	26.04	27.92	21	
North Canterbury	42.40	103.77	3.24	1.691	1.556	11.46	32.36	27.71	20.11	0.966	4.47	5.95	0.219	24.57	32.72	22	
Opunake	45.61	129.85	3.62	2.271	2.102	14.08	50.58	32.82	24.70	1.221	5.69	5.34	0.461	30.59	32.18	23	
Otago	59.45	157.23	3.22	1.138	0.927	11.40	30.15	18.80	7.57	0.438	5.17	6.63	0.313	26.08	24.24	24	
Otago Central	31.45	104.27	3.50	1.740	1.420	9.01	29.87	32.44	23.47	1.260	6.22	5.27	0.313	12.74	17.40	25	
Powertown	44.24	142.62	2.70	1.725	1.725	10.91	35.18	24.44	18.74	0.968	5.60	8.10	0.313	29.68	27.31	26	
South Canterbury	24.75	77.44	2.19	1.366	1.206	10.81	33.93	26.45	21.18	1.050	4.47	5.95	0.210	24.14	35.55	27	
Springfield	32.58	110.07	3.92	1.308	1.095	15.13	31.13	25.46	18.50	0.949	5.69	5.34	0.461	30.59	32.18	28	
Taranaki	72.36	248.46	3.92	1.507	1.243	13.17	45.23	25.16	19.33	0.958	5.17	6.63	0.313	26.08	24.24	29	
Taranaki Central	31.45	104.27	3.50	1.740	1.420	9.01	29.87	32.44	23.47	1.260	6.22	5.27	0.313	12.74	17.40	30	
Taranaki Valley	44.24	142.62	2.70	1.725	1.725	10.91	35.18	24.44	18.74	0.968	5.60	8.10	0.313	29.68	27.31	31	
Tairāwhiti	39.04	117.65	3.55	1.381	1.028	11.01	33.77	26.52	19.70	1.111	4.47	5.95	0.279	24.14	35.55	32	
Tairāwhiti North	38.22	125.47	3.32	1.381	1.028	11.01	33.77	26.52	19.70	1.111	4.47	5.95	0.279	24.14	35.55	33	
Tairāwhiti South	50.73	195.56	1.94	1.159	0.933	9.83	27.69	15.07	9.35	0.702	4.47	5.95	0.279	24.14	35.55	34	
Thames Valley	27.52	81.75	1.94	1.166	1.237	13.46	39.96	26.25	20.40	0.906	4.65	9.12	0.207	14.56	21.22	35	
Waikanae	40.30	130.18	2.73	1.065	1.049	10.78	34.03	22.31	17.30	0.821	2.75	4.51	0.130	20.05	33.29	36	
Waikato	39.64	90.40	2.80	1.402	1.372	10.98	32.13	28.43	23.58	1.136	7.75	6.22	0.279	20.05	33.29	37	
Waikato Central	80.94	282.81	2.80	1.384	1.206	10.16	35.72	22.39	11.48	0.655	3.25	7.95	0.279	20.05	33.29	38	
Waikato South	30.20	144.01	2.80	1.277	1.065	11.48	30.96	30.96	11.48	0.655	3.25	7.95	0.279	20.05	33.29	39	
Waikato Valley	32.86	84.40	2.65	1.599	1.921	7.88	37.55	26.89	19.95	1.101	7.73	6.94	0.279	20.05	33.29	40	
Waikato Valley North	32.86	84.40	2.65	1.541	1.184	12.43	31.84	29.15	19.95	1.055	7.01	9.07	0.371	26.96	35.07	41	
Waikato Valley South	25.05	58.39	2.39	1.546	1.302	10.48	24.43	29.31	21.57	1.178	4.77	7.05	0.260	26.34	38.92	42	
Waikato Valley West	35.35	140.21	2.94	1.541	1.213	9.57	33.27	27.86	20.33	1.125	6.64	7.37	0.492	26.90	29.93	43	
Waikato Valley East	30.04	91.59	2.94	1.365	1.033	9.57	30.38	26.48	20.81	1.069	4.18	5.38	0.215	24.90	32.45	44	
Wanganui-Kangitikei	33.08	100.68	2.74	1.365	1.436	11.49	34.97	26.48	20.81	1.069	4.18	5.38	0.215	24.90	32.45	45	

(For notes see page 14.)

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1959—continued

No.	Supply Authorities	Capital Outlay			Revenue from Sale of Electricity					Working Costs			Capital Charges			Total Costs			
		Per Head of Population	Per Consumer	Per £1 of Revenue	Per Unit Sold (Including Bulk Sales)	Per Unit Sold (Retail Sales)	Per Unit Sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per kW. of Maximum Demand	Per kW. of Maximum Demand	Per Unit Sold	Per kW. of Maximum Demand	Per Cent of Total Revenue*	Per Unit Sold	Per kW. of Maximum Demand	Per Cent of Capital Outlay	Per Unit Sold	Per kW. of Maximum Demand	Per Cent of Distribution Capital*
1	Christchurch	£(N.Z.) 21.33	£(N.Z.) 7.50	£(N.Z.) 2.03	d. 366	d. 366	d. 0.16	£(N.Z.) 12.03	£(N.Z.) 35.40	£(N.Z.) 21.58	£(N.Z.) 1,557.62	£(N.Z.) 17.65	8.37	d. 1.18	£(N.Z.) 2.38	5.44	d. 2.69	£(N.Z.) 20.03	45.72
2	Dunedin	15.33	14.11	4.01	1.175	1.175	0.820	12.00	36.18	17.26	1,651.42	9.72	55.29	0.661	4.17	6.02	0.943	13.09	35.25
3	Invercargill	16.51	40.91	1.40	1.600	1.600	1.036	11.81	29.25	32.74	1,148.63	18.05	56.92	0.926	2.14	4.67	0.930	21.09	46.01
4	Napier	16.89	47.73	1.74	1.836	1.836	1.462	9.73	27.50	24.61	1,118.14	18.31	74.28	1.367	1.62	3.78	1.487	19.93	51.00
5	Nelson	17.28	44.13	1.46	1.857	1.857	1.307	11.82	30.19	29.87	1,093.35	21.74	70.29	1.060	2.33	5.33	1.174	21.07	58.72
6	Nelson	19.00	50.47	1.61	1.385	1.385	0.929	11.03	31.44	25.56	2,617.85	20.25	79.25	1.097	2.10	5.13	1.211	22.36	58.63
7	New Plymouth	19.23	58.40	2.03	1.338	1.166	0.908	9.48	28.79	22.88	736.78	20.40	77.55	1.039	2.20	4.73	1.151	22.59	79.18
8	Palmerston North	16.06	47.91	1.83	1.315	1.315	0.973	9.24	26.24	23.67	1,062.44	18.08	73.45	1.005	2.73	6.31	1.156	20.81	51.48
9	Timaru	13.08	36.78	1.30	1.185	1.185	0.811	10.01	28.23	20.27	1,852.52	18.59	90.59	1.087	1.17	4.44	1.156	19.76	74.01
10	Wellington	23.59	61.94	1.93	1.313	1.313	0.820	12.23	32.11	22.02	1,998.21	20.43	91.15	1.218	1.24	2.91	1.202	21.67	51.03
		26.94	75.53	2.29	1.327	1.317	0.933	11.67	32.72	..	1,456.15	..	76.36	1.026	..	5.10	1.181	..	47.01
1	Bluff	14.64	47.66	1.20	2.267	2.267	1.831	12.15	39.57	31.61	2,529.61	21.42	64.81	1.516	1.51	3.95	1.655	22.92	60.21
2	Invercargill	15.91	39.01	1.25	1.867	1.867	1.302	12.74	31.23	35.95	1,259.68	27.46	77.46	1.423	2.34	5.25	1.922	30.23	68.21
3	Kaipara	14.53	42.81	1.46	1.423	1.423	1.300	9.93	29.27	26.55	1,407.71	21.53	70.47	1.155	3.22	6.40	1.326	24.44	68.27
4	Lyttelton	13.60	39.00	1.24	1.635	1.635	1.151	10.94	31.35	28.23	1,927.30	22.41	76.48	1.268	1.65	5.55	1.411	24.56	69.56
5	Ohakune	19.02	59.71	2.34	2.163	2.163	1.977	8.12	25.50	32.52	254.88	24.17	71.90	1.608	4.61	6.06	1.914	28.78	37.80
6	Patea	27.22	101.37	3.35	2.097	2.097	1.858	8.12	30.24	33.95	219.63	27.58	79.06	1.669	6.69	5.88	1.881	34.27	39.99
7	Rangiora	15.21	40.37	1.40	1.360	1.360	1.049	10.86	28.84	26.08	2,116.55	25.10	95.40	1.309	1.34	3.67	1.379	26.44	72.43
8	Rangiora	20.97	65.36	1.47	1.465	1.465	0.955	14.31	44.60	25.19	1,867.70	20.27	79.00	1.179	1.99	5.39	1.204	22.26	60.31
9	Riccarton	28.25	84.61	3.14	1.665	1.665	1.350	8.99	26.92	28.23	351.03	22.89	78.61	1.350	5.98	6.74	1.703	28.87	32.54
10	Rotorua Electric Supply	25.48	67.38	2.03	1.628	1.628	1.177	12.56	33.22	33.13	1,964.38	22.14	62.61	1.026	4.36	6.12	1.228	26.30	37.19
11	Stratford	15.11	44.26	1.32	1.966	1.966	1.266	11.42	33.46	34.75	1,580.54	26.38	75.84	1.199	3.31	7.64	1.691	24.18	77.09
12	Tairāpapa	34.88	85.16	2.52	2.308	2.308	1.182	13.06	33.03	34.72	1,449.13	24.29	65.79	0.211	1.34	4.45	1.527	28.18	51.46
13	Taurarunui	38.18	110.26	4.35	1.759	1.759	1.949	8.72	24.32	32.04	495.45	14.68	55.94	0.806	3.96	6.86	1.331	24.24	26.78
14	Taupo	52.34	116.87	4.18	0.931	1.060	0.606	11.80	25.89	17.76	1,323.12	6.26	34.71	0.329	3.17	3.27	0.484	9.43	20.67
15	Tauranga	16.39	41.18	1.65	1.410	1.410	1.216	9.94	24.07	27.46	534.32	24.14	87.43	1.239	1.34	2.95	1.308	25.48	56.23
16	Tc. Aroha	13.39	39.02	1.69	1.645	1.645	1.320	12.25	24.07	26.75	1,385.73	22.56	60.59	1.072	1.90	4.79	1.003	24.18	66.96
17	Waikare	11.01	32.34	0.89	1.508	1.508	1.269	11.08	23.65	20.45	1,019.46	20.00	70.63	1.107	2.49	10.70	1.343	29.89	89.02
18	Waikare	14.03	44.16	1.73	1.722	1.722	1.508	8.11	22.53	30.84	1,416.46	24.07	76.63	1.400	1.60	2.64	1.371	24.37	77.01
19	Waikare	24.41	74.09	2.17	1.775	1.775	1.307	13.25	34.30	31.52	1,402.46	21.50	66.80	1.215	3.39	4.96	1.406	24.37	38.92
20	Whakatane	18.06	53.49	1.72	1.548	1.548	1.039	10.48	31.04	26.10	1,466.07	21.90	83.86	0.217	3.65	8.12	1.516	23.56	56.82
21	Whangarei	24.04	69.45	2.24	1.596	1.615	1.218	10.58	30.56	..	744.16	..	72.31	1.167	..	6.05	1.384	..	42.89
1	Kaponga	32.13	103.09	2.12	1.835	1.825	1.363	15.19	48.70	33.15	511.26	24.26	70.72	1.335	7.35	10.47	1.740	31.60	45.03
2	Mangaweka	13.98	29.12	0.98	2.122	2.122	1.860	14.21	29.61	29.44	432.52	23.72	74.54	1.710	2.53	8.73	1.892	26.52	90.66
		29.27	86.47	1.95	1.864	1.864	1.445	15.03	44.41	..	503.35	..	71.31	1.384	..	10.34	1.759	..	48.48

(For notes see page 14.)

TABLE IX—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1959—continued

No.	Supply Authorities	Capital Outlay			Revenue from Sale of Electricity						Working Costs			Capital Charges			Total Costs		
		Per Head of Population	Per Consumer	Per £1 of Revenue	Per Unit Sold (Including Bulk Sales)	Per Unit Sold (Retail Sales)	Per Unit Sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per Maximum Demand	Per Route-mile of Line ¹	Per Unit Sold ²	Per Maximum Demand	Per Cent of Total Revenue ³	Per Unit Sold	Per Maximum Demand	Per Cent of Capital Outlay	Per Unit Sold ⁴	Per Maximum Demand	Per Cent of Distribution Capital^{5}
1	Hentton	£(N.Z.) 14.72	£(N.Z.) 41.82	£(N.Z.) 1.05	d. 1.078	d. 0.952	£(N.Z.) 13.51	£(N.Z.) 39.74	£(N.Z.) 19.09	£(N.Z.) 538.26	d. 0.672	£(N.Z.) 17.22	% 69.33	d. 0.144	£(N.Z.) 2.54	% 12.66	d. 1.116	£(N.Z.) 19.76	% 96.30
2	Kaikoura	" 27.43	" 94.84	" 3.35	" 5.473	" 5.512	" 9.22	" 28.34	" 64.12	" 538.26	" 5.700	" 87.62	" 79.44	" 1.459	" 22.42	" 7.96	" 7.159	" 110.04	" 52.47
3	Murchison	" 30.43	" 127.46	" 3.88	" 1.722	" 1.711	" 7.85	" 32.80	" 24.33	" 243.33	" 1.247	" 23.65	" 65.03	" 0.462	" 8.76	" 6.92	" 1.709	" 32.42	" 45.43
4	Mackenzie	" 131.59	" 1,651.91	" 13.04	" 2.113	" 2.112	" 10.09	" 126.66	" 29.48	" 46.84	" 1.455	" 30.30	" 30.09	" 2.260	" 31.54	" 8.20	" 3.714	" 51.83	" 13.48
		28.61	97.83	2.63	1.440	1.255	10.07	37.19	321.35	321.35	1.298	77.02	0.342	9.02	1.640	50.34			
1	Amchyst Power Co.	38.15	154.13	2.20	2.605	1.952	13.35	52.55	226.24	226.24	1.119	13.65	42.96	0.847	10.33	11.00	1.965	23.98	44.46
2	Kanieri Electric Ltd.	39.81	110.92	3.60	0.943	1.337	8.56	23.67	658.80	658.80	0.523	12.80	56.41	0.686	1.63	2.00	0.569	17.42	42.00
3	Westland Power Ltd.	23.44	111.76	2.31	1.755	2.107	8.96	42.75	236.78	236.78	1.078	21.72	60.90	0.292	5.88	6.03	1.369	27.60	49.46
		31.31	113.38	3.03	1.277	1.914	10.33	32.90	330.89	330.89	0.737	..	57.38	0.176	..	4.54	0.913	..	46.15
	Average for all Supply Authorities ¹	108.83	323.75	5.87	1.394	1.134	11.81	35.14	696.20	696.20	..	..	59.14	..	..	5.53	..	..	33.48
	Averages for:	101.53	305.27	7.03	1.114	0.964	9.56	28.75	547.40	547.40	..	..	61.30	..	..	4.43	..	..	27.33
	1958	92.18	279.75	7.00	1.124	0.976	8.64	26.22	505.72	505.72	..	..	61.30	..	..	4.57	..	..	26.45
	1956	83.92	258.65	6.66	1.121	..	8.40	23.89	510.35	510.35	..	..	61.64	..	..	4.61	..	..	26.63
	1955	76.46	239.79	6.41	1.128	..	7.91	24.79	468.32	468.32	..	..	59.07	..	..	4.75	..	..	27.39
	1954	69.43	222.33	6.33	1.107	..	7.39	23.00	459.32	459.32	..	..	66.59	..	..	4.30	..	..	25.52
	1953	62.04	200.27	6.20	0.894	..	5.77	16.81	329.18	329.18	..	..	67.52	..	..	3.86	..	..	22.25
	1952	54.74	178.41	7.47	0.869	..	4.70	15.18	304.58	304.58	..	..	62.76	..	..	3.87	..	..	22.65
	1951	49.40	163.68	7.35	0.838	..	4.59	13.20	306.51	306.51	..	..	63.10	..	..	4.54	..	..	22.68
	1950	44.07	149.86	6.78	0.842	..	..	..	..	..	..	..	..	..	..	..	..	..	23.39

¹ Returns for year ended 31 December 1958. ² Excludes sundry private plants (Table VII) who do not furnish returns. ³ Revenue from total units sold (bulk plus retail). ⁴ Excludes cost of generating feed-back. ⁵ Includes cost of generating feed-back. ⁶ Taken over by South Taranaki Electric Power Board on 1 October 1958.

TABLE X.—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, AND WATER-HEATERS FOR THE YEAR ENDED 31 MARCH 1959

No.	Supply Authorities	Population in Area of Supply	Ratio of Consumers to Population	Consumers		Ranges		Water-heaters		Consumers Per Route-mile of Line	No.
				Domestic	Commercial	Total	Number	Ratio, Number of Ranges to Domestic Consumers	Number			Ratio, Number of Water-heaters to Total Number of Consumers
1	NEW ZEALAND ELECTRICITY DEPARTMENT										
2	North Island	61,250	31.33	Number 731	Number 2	Number 733	Per Cent 104.10	Number 796	Per Cent 108.59	Number 0.23	1
	South Island	61,250	..	16,720	2,471	19,191	49.61	7,438	38.76	3.81	2
				17,451	2,473	19,924	51.89	8,234	41.33	2.34	
1	POWER BOARDS										
2	Ashburton	23,020	33.20	6,759	884	7,643	73.09	4,940	88.77	5.44	1
3	Auckland	332,260	33.41	97,168	13,846	111,014	68.49	66,549	66.91	55.72	2
4	Banks Peninsula	3,810	51.42	1,855	104	1,959	61.67	1,144	56.92	6.46	3
5	Bay of Islands	36,520	26.14	8,280	1,267	9,547	64.84	5,369	66.27	4.61	4
6	Bay of Plenty	29,560	20.69	5,286	829	6,115	72.40	3,827	76.40	10.73	5
7	Buller	10,150	31.00	2,610	537	3,147	12.07	315	10.30	22.32	6
8	Cambridge	8,910	34.83	2,748	355	3,103	69.25	1,903	79.70	10.04	7
9	Central Hawke's Bay	13,990	32.29	3,893	625	4,518	87.64	3,412	68.13	4.17	8
10	Central Waikato	59,760	28.30	15,349	1,566	16,915	63.05	9,678	70.98	8.44	9
11	Dannevirke	13,910	31.76	3,779	639	4,418	68.22	2,578	60.68	8.56	10
12	Franklin	30,130	31.90	8,530	1,080	9,610	72.84	6,213	84.14	9.43	11
13	Golden Bay	4,070	31.40	1,133	145	1,278	55.78	632	62.21	4.83	12
14	Grey	20,260	31.81	5,999	1,045	7,044	53.71	3,008	36.75	14.86	13
15	Hawke's Bay	57,420	34.11	16,958	2,629	19,587	84.61	14,349	71.08	10.65	14
16	Horowhenua	31,950	47.37	12,678	2,458	15,136	67.02	8,497	60.15	13.15	15
17	Hutt Valley	122,660	29.98	33,737	3,040	36,777	76.47	25,798	74.85	31.60	16
18	King Country	13,650	18.61	2,346	194	2,540	39.17	919	36.26	3.82	17
19	Manawatu-Oroua	5,390	26.38	1,270	152	1,422	48.58	617	39.73	3.91	18
20	Marlborough	30,370	30.20	8,330	842	9,172	73.71	6,140	75.48	10.35	19
21	North Auckland	24,110	30.80	6,280	1,146	7,426	48.26	3,031	41.31	12.74	20
22	North Canterbury	36,150	33.35	10,891	1,164	12,055	65.61	7,146	78.71	4.44	21
23	Opunake	19,030	35.41	6,158	581	6,739	61.50	3,787	59.83	4.78	22
24	Otago	6,740	27.83	1,709	167	1,876	62.43	1,067	86.09	6.50	23
25	Otago Central	28,430	35.82	9,045	1,140	10,185	33.80	3,057	32.03	4.56	24
26	Poverty Bay	11,680	37.81	3,700	716	4,416	47.03	1,740	47.37	5.38	25
27	South Canterbury	42,320	30.17	10,254	2,512	12,766	66.27	6,795	53.74	13.30	26
28	South Taranaki	31,040	31.02	8,966	663	9,629	46.50	4,169	39.75	5.44	27
29	Springs Eileenmere	20,970	31.96	5,563	1,140	6,703	68.83	3,829	75.76	13.94	28
30	Taranaki	23,510	29.60	6,453	505	6,958	78.40	5,059	84.56	10.80	29
		15,200	29.13	4,041	386	4,427	58.60	2,368	78.83	6.05	30

(For notes see page 17.)

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, AND WATER-HEATERS FOR THE YEAR ENDED 31 MARCH 1959—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers		Ranges		Water-heaters		Consumers Per Route-mile of Line	No.		
				Domestic	Commercial	Total	Number	Ratio, Number of Ranges to Domestic Consumers	Number			Ratio, Number of Water-heaters to Total Number of Consumers	
31	Power Boards—continued	9,850	34.95	2,923	520	3,443	Number	Per Cent	Number	Per Cent	Number	5-41	31
32	Tairua ..	32,550	33.19	9,650	1,152	10,802	2,594	88.74	2,514	73.02	5-41	5-41	32
33	Tauranga ..	19,530	30.46	4,801	1,179	5,980	8,349	86.51	9,000	83.32	8-63	8-63	33
34	Tc Awamutu ..	2,760	25.94	594	122	716	4,526	94.27	4,449	74.10	11-67	11-67	34
35	Thames Valley ..	66,900	33.66	20,872	1,646	22,518	12,347	76.94	15,703	67.60	7-72	7-72	35
36	Waimea ..	26,640	30.96	7,476	771	8,247	5,651	75.59	6,113	74.12	10-00	10-00	36
37	Wairarapa ..	32,020	34.18	9,301	1,646	10,947	7,372	79.26	7,441	67.97	10-34	10-34	37
38	Waurec ..	4,830	28.45	1,187	187	1,374	821	69.17	998	72.63	2-42	2-42	38
39	Wauroa ..	8,140	20.97	1,555	152	1,707	821	52.80	894	72.63	4-63	4-63	39
40	Waitaki ..	22,310	39.05	7,375	1,338	8,713	4,938	66.96	4,838	55.53	10-52	10-52	40
41	Waitemata ..	116,220	42.91	44,663	5,212	49,875	30,805	68.97	31,240	62.64	15-79	15-79	41
42	Waitomo ..	22,930	25.21	5,050	731	5,781	3,195	63.27	3,739	64.68	7-67	7-67	42
43	Wanganui-Kangitikeri ..	59,240	32.80	16,752	2,680	19,432	10,554	62.94	11,484	59.10	11-38	11-38	43
		1,530,990	32.86	443,367	59,693	503,060	300,366	67.75	331,549	65.91	11.16	11.16	
1	Christchurch ..	184,460	33.98	55,428	7,250	62,678	43,293	78.11	45,465	72.54	38-34	38-34	1
2	Dunedin ..	105,560	35.38	32,982	4,365	37,347	16,485	49.98	22,973	61.51	45-64	45-64	2
3	Hamilton ..	22,300	40.36	6,758	2,243	9,001	2,969	43.93	4,062	45.13	39-27	39-27	3
4	Invercargill ..	30,490	35.40	9,387	1,405	10,792	2,736	29.15	2,650	24.56	69-75	69-75	4
5	Napier ..	13,600	39.15	4,219	1,105	5,324	2,131	50.51	2,846	53.46	36-22	36-22	5
6	Nelson ..	15,740	37.64	4,797	1,127	5,924	1,824	38.02	3,454	58.31	83-26	83-26	6
7	New Plymouth ..	36,320	32.93	10,342	1,617	11,959	7,586	73.35	9,256	77.40	25-59	25-59	7
8	Palmerston North ..	36,550	33.91	10,973	1,893	12,866	6,894	62.83	8,276	64.32	40-49	40-49	8
9	Timaru ..	20,190	35.56	5,920	1,260	7,180	3,709	62.65	3,988	55.54	65-63	65-63	9
10	Wellington ..	117,010	38.08	36,074	8,486	44,560	10,915	30.26	22,113	49.63	62-22	62-22	10
		582,220	35.66	176,880	30,751	207,631	98,542	55.71	125,103	60.25	44-51	44-51	
1	Bluff ..	3,220	30.71	773	216	989	274	35.45	188	19.01	63-70	63-70	1
2	Ingirewood ..	1,770	40.79	544	178	722	364	66.91	351	48.62	40-11	40-11	2
3	Kaipoi ..	2,760	33.91	818	118	936	551	67.36	505	53.95	54-25	54-25	3
4	Lytelton ..	3,340	34.88	946	219	1,165	509	53.81	570	48.93	61-48	61-48	4
5	Ohakune ..	2,910	31.86	686	241	927	191	27.84	244	26.32	9-99	9-99	5
6	Patea ..	2,350	26.85	488	143	631	125	25.61	191	30.27	7-26	7-26	6
7	Raetihi ..	3,390	37.67	1,094	183	1,277	701	64.08	876	68.60	73-39	73-39	7
8	Rangiora ..	7,930	32.08	2,336	208	2,544	1,646	70.46	1,973	77.56	41-88	41-88	8
9	Riccarton ..	32,170	33.39	8,948	1,794	10,742	5,470	61.13	5,523	51.42	13-04	13-04	9
10	Rotorua Electric Supply ..												10

(For notes see page 17.)

TABLE X—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, AND WATER-HEATERS FOR THE YEAR ENDED 31 MARCH 1959—continued

No.	Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population	Consumers			Ranges		Water-heaters			Consumers Per Route-mile of Line	No.
				Domestic	Commercial	Total	Number	Ratio, Number of Ranges to Domestic Consumers	Number	Ratio, Number of Water-heaters to Total Number of Consumers	Number			Per Cent
Borough Councils—continued													
11	Straford ..	4,930	37.82	Number	Number	Number	Number	Per Cent	Number	Per Cent	Number	Number	11
12	Taihape ..	2,560	34.14	1,470	402	1,872	1,027	69.86	995	53.15	59.15	59.15	12
13	Taumarunui ..	3,450	40.96	662	212	874	331	50.00	336	38.44	47.24	47.24	13
14	Taupo ..	6,510	34.62	1,114	299	1,413	424	38.06	392	27.74	42.81	42.81	14
15	Tauranga ..	6,020	44.78	1,991	263	2,254	841	42.24	658	29.19	19.54	19.54	15
16	Tc Aroha ..	3,000	39.80	1,962	734	2,696	1,733	88.33	1,849	68.58	47.30	47.30	16
17	Thames ..	5,200	35.21	891	303	1,194	585	65.66	608	50.92	25.40	25.40	17
18	Waioira ..	4,060	34.04	1,498	333	1,831	1,054	70.36	964	52.65	39.80	39.80	18
19	Waitara ..	4,090	31.76	1,048	334	1,382	952	90.84	908	65.70	40.28	40.28	19
20	Whakatane ..	6,390	32.60	1,095	204	1,299	688	62.83	680	52.35	64.24	64.24	20
21	Whangarei ..	13,820	33.76	1,663	420	2,083	1,355	81.48	1,393	66.87	40.65	40.65	21
				3,661	1,005	4,666	2,930	80.03	2,723	58.36	47.23	47.23	
		119,890	34.61	33,688	7,809	41,497	21,751	64.57	21,927	52.84	24.35	24.35	
Town Boards													
1	Kaponga ..	1,860	31.18	490	90	580	317	64.69	488	84.14	10.50	10.50	1
2	Mangaweka ..	350	48.00	110	58	168	77	70.00	78	46.43	14.61	14.61	2
		2,210	33.85	600	148	748	394	65.67	566	75.67	11.33	11.33	
County Councils													
1	Heathcote ..	4,180	34.00	1,401	20	1,421	1,102	78.66	1,416	99.65	16.83	16.83	1
2	Kaikoura ..	2,560	28.98	600	142	742	164	27.33	25	3.37	19.03	19.03	2
3	Murchison ..	1,240	23.87	231	65	296	93	40.26	141	47.64	7.40	7.40	3
4	Mackenzie ..	590	7.97	45	2	47	49	108.89	58	123.40	0.37	0.37	4
		8,570	29.24	2,277	229	2,506	1,408	61.84	1,640	65.44	8.64	8.64	
Companies													
1	Amethyst Power Co. ..	500	25.40	109	18	127	36	33.03	75	59.06	4.31	4.31	1
2	Kanieri Electric Ltd. ..	3,170	36.18	907	240	1,147	479	52.81	431	37.58	21.54	21.54	2
3	Westland Power Ltd. ..	3,920	20.97	730	92	822	166	22.74	270	32.85	5.31	5.31	3
		7,590	27.62	1,746	350	2,096	681	39.00	876	41.79	8.84	8.84	
	GRAND TOTALS ..	2,312,720	33.62	676,009	101,453	777,462	432,198	63.93	489,895	63.01	12.84	12.84	

Total population of Dominion as at 1 April 1959 was 2,326,129. Ratio of population in area of supply to total population of Dominion, 99.42 per cent.

NOTE.—¹ Returns for year ended 31 December 1958.

² Taken over by South Taranaki Electric Power Board 1 October 1958.

TABLE XI—STATISTICS RELATING TO ELECTRICIANS REGISTRATION BOARD YEAR ENDED 31 MARCH 1959
(The figures in parentheses are for the previous year)

1	Number of board meetings: 16 (15).				
2	Registrations—				
	Inspectors	43 (45)	676 (633)	557 (534)	
	Electricians	373 (374)	7,410 (7,037)	7,349 (6,989)	
	Electrical Servicemen	16 (15)	373 (357)	354 (341)	
	Electrical (Radio) Servicemen	120 (75)	1,073 (953)	1,055 (937)	
	Limited Registration ¹	178 (114)	1,483 (1,305)	1,373 (1,196)	
3	Provisional licences ²	382 (348)	1,943 (1,561)		
4	Permits to assist	126 (129)	733 (607)		
5	Application for ruling on experience	146 (154)			
6	Examinations (two examinations)—				
	Electricians written	758 (726)	52 (53)	97 (94)	
	Electricians practical	532 (519)	82 (84)	98 (99)	
	Electrical servicemen and limited registration (written)	445 (392)	74 (66)	98 (91)	
	Electrical servicemen and limited registration (practical)	378 (314)	68 (70)	94 (91)	
7	Defective work reports, 9 (6); endorsements made, nil (nil); endorsements removed, 1 (1)				
8	Breach of act reports, 33 (14); prosecutions authorised, 29 (6).				
9	Appeals, nil (nil).				

Notes—¹ Includes 44 Civil Aviation Administration (extended limits); seven radio servicemen's limits restricted to Civil Aviation Administration; 21 refrigeration servicemen; 14 New Zealand Broadcasting Service; 29 supply authority work; 18 radio experimenter; eight assembly and repair of portable domestic appliances; two assembly and repair of portable appliances; two replacement of fuse links, connection and replacement of flexible cords, earthing of appliances; 23 servicing calculating machines and like office appliances up to and including the plug top; three assembly and repair of teletypewriter machines and associated equipment; two electrical wiring for radio sets only; one assembly and repair of isolating transformers; one servicing electric totalisator equipment; one assembly and repair of typewriter machines and associated equipment; two repair and maintenance of electrical instruments and process control equipment whilst employed by Tasman Pulp and Paper Co. Ltd., Kawerau. ² Forty-seven were issued to apprentices.