

1922.
NEW ZEALAND.

EDUCATION:
TECHNICAL EDUCATION.

[In continuation of E.-5, 1921.]

Presented to both Houses of the General Assembly by Command of His Excellency.

CONTENTS.

	Page		Page
1. Extract from the Forty-fifth Annual Report of the Minister of Education (E.-1) ..	2	2. Tables relating to Technical Instruction— <i>continued.</i>	
2. Tables relating to Technical Instruction—Particulars relating to Technical Education, 1915-1921	6	Students at Technical Classes other than Technical High Schools	10
Classes other than Classes at Technical High Schools	7	Occupations of Students	11
Receipts and Payments of Controlling Authorities of Technical Classes ..	8, 9	Free Pupils	11
Assets and Liabilities	10	Technical High Schools—Courses, Attendance	11
		Technological Examinations of City and Guilds of London Institute	12

No. 1.

EXTRACT FROM THE REPORT OF THE MINISTER OF EDUCATION.

TECHNICAL EDUCATION.

GENERAL.

Number of Schools.

The number of organized technical schools offering both day and evening classes open during the year 1921 was twenty, including thirteen technical high schools, an increase of four on the number for the previous year.

Technical high schools were established at Pukekohe, Stratford, Feilding, and Hastings during the year, in each case replacing district high schools. Technical classes were also conducted in a number of manual-training and other centres, the total number of centres being ninety-four.

Attendance.

The total number of students receiving instruction in all technical classes was 20,181, as compared with 21,394 in 1920. The total for 1920 includes, however, about 1,800 teachers attending technical classes, whereas such students are excluded from the numbers for 1921. The attendance at technical high schools increased from 2,766 in 1920 to 3,349 in 1921, 434 of the increase being due to the establishment of four new schools. Taking only the technical high schools in operation in 1920, the increase is 149, as compared with a decrease of 302 in the previous year.

Of the total number of 20,181 students, 3,140 held free places at technical high schools, 3,835 at other technical classes, 1,585 were attending continuation and technical classes held under the regulations for compulsory classes, and 674 were attending under the regulations relating to the free instruction of discharged soldiers.

Staffing.

There were at the end of 1921 192 full-time assistant teachers on the staffs of technical schools, besides a large number of part-time teachers. The teachers employed full time were classified as follows, Class VI being the highest :—

Class	Division I.		Division II.		Totals.
	Men.	Women.	Men.	Women.	
VI	2	4	2	5	13
V	6	6	8	11	31
IV	14	3	9	13	39
III	13	6	8	19	46
II	14	7	13	12	46
I	4	1	7	5	17
Totals ..	53	27	47	65	192
Totals for 1920..	39	24	51	61	175

The effect of the classification system in encouraging teachers with high professional qualifications is reflected in the totals shown in the table. Teachers classified in Division I, who must have had a training at least equivalent to a three-years course at a university, have increased in number by 20 per cent., whereas the numbers in Division II have on the whole remained the same. The increase in the number of Division I teachers is partly explained, however, by the increase in the number of technical-high-school pupils.

There is no doubt that the system of classification adopted has greatly improved the conditions of service in technical schools, with the result that it now possesses attractions for competent teachers as nearly equal to those offered in other branches of the teaching service as it is at present possible to arrange. It is hoped that a reasonable solution of some remaining minor difficulties may be found in the near future.

Courses of Instruction.

The reports of the Inspectors of Technical Schools show that on the whole the standard of work in previous years was maintained. In evening classes, generally

speaking, the students are keen and industrious, but the fact that most of the classes are heterogeneous as regards the attainments of pupils renders class-work difficult, with the result that teachers are compelled often to resort to individual instruction where class-work would be much more effective if all the pupils were all at one stage. This difficulty is due to the small numbers offering in many trades in most of the schools, and can hardly be removed until the population of the Dominion becomes much more dense than it is at present. In the day classes at technical schools this drawback is not very seriously felt, and in the technical high schools it is only noticeable in the higher classes in certain courses. In these schools, usually offering four or five different courses, the senior pupils of more than one course are often taken together for general subjects of instruction, in preference to the pupils in two or three years of one course being placed in one class.

Part-time day continuation classes have not hitherto been encouraged by associations of employers except in the case of painters and decorators in one large centre. It is hoped that such classes will receive the support and encouragement which they deserve from both employers and employees, and that the single example at present in operation will be followed in all trades and occupations. Some form of compulsion may be necessary to secure the regular attendance of apprentices and other young workers at day continuation classes, but it is felt that no such compulsory classes would prove successful if they lacked the sympathy and aid of the masters and men in the occupations concerned.

CLASSES OTHER THAN CLASSES AT TECHNICAL HIGH SCHOOLS.

(NOTE.—All figures for 1921 are exclusive of teachers' classes, which were included in 1920.)

Classes were held at 94 centres. In the previous year the number of centres was 121, and the decrease was probably due to a decrease in the number of wool-sorting classes in country centres.

The number of classes and the number of individual students were as follows :—

Description of Class	Number of Classes.		Number of Students.	
	1920.	1921.	1920.	1921
Conducted by Education or High School Boards ..	913	611	8,221	5,567
Conducted by Technical School Boards or by Managers ..	968	1,111	9,163	10,081
Conducted by University Colleges	198	230	1,244	1,184
Totals	2,079	1,952	18,628	16,832

It is to be noted in comparing the numbers for 1921 with those for 1920 that the Pukekohe, Wanganui, Feilding, and Greymouth Technical Schools, and the Dunedin School of Art, were each conducted by a Board of managers in 1921 for the first time. This caused a transfer in numbers of 151 classes and 1,389 pupils from the first to the second line in the above table.

The following are some particulars of the age, sex, and occupations of students :—

	Seventeen Years of Age and under.		Over Seventeen Years of Age.		Totals.	
	1920.	1921.	1920.	1921.	1920.	1921.
Males	4,851	4,998	4,700	4,102	9,551	8,934
Females	4,156	4,207	4,921	3,525	9,077	7,898
Totals	9,007	9,205	9,621	7,627	18,628	16,832

SUMMARY OF OCCUPATIONS OF STUDENTS.

	Number of Students.	Percentage of Totals.
Clerical pursuits	2,214	13.15
Professional pursuits	1,134	6.73
Students	3,965	23.56
Domestic pursuits	2,965	17.62
Agricultural pursuits	490	2.91
Various trades and industries	5,416	32.18
Other occupations not stated	648	3.85
Totals	16,832	100.00

NUMBER OF CLASSES IN CERTAIN SUBJECTS OF TECHNICAL INSTRUCTION HELD IN 1920 AND 1921.

	1920.	1921.
Art and arcrafts	238	211
Mechanical and electrical engineering, theoretical and practical	239	230
Building-construction, carpentry, plumbing, and other trades	252	218
Experimental and natural science, practical mathematics, &c.	143	110
Agriculture, wool-sorting, dairy-work, &c... ..	103	22
Domestic subjects	405	389
Commercial subjects	346	375
Subjects of general education	353	397
Totals	2,079	1,952

The total number of classes shows a decrease compared with that for 1920, due mainly to the exclusion of teachers' classes and a falling-off in the number of wool-classing classes.

"College" classes were conducted in connection with the Auckland University School of Engineering, Canterbury College School of Engineering and School of Commerce, Otago University School of Domestic Science and School of Commerce, the total capitation earnings for these classes for the year being £2,945.

The School of Domestic Science in Otago University was attended by seventy-five students taking either the course for the degree or that for the diploma. Eleven Government bursaries were awarded in 1921, making a total of forty-four tenable during the year. Four degree and eighteen diploma students completed their course. Payments totalling £3,069 were made in respect of the forty-four bursars, an average of nearly £70 each. Graduates from this school are now filling important positions throughout the Dominion as instructors in home-science, and their influence in this important phase of the training of our girls is already very marked.

NUMBER OF STUDENTS RECEIVING FREE EDUCATION AT TECHNICAL SCHOOLS OTHER THAN TECHNICAL HIGH SCHOOLS.

			1920.			1921.		
			Males.	Females.	Totals.	Males.	Females.	Totals.
Junior free pupils	First year ..		757	518	1,275	773	572	1,345
	Second year ..		558	426	984	497	342	839
Senior free pupils	First year ..		449	410	859	429	360	789
	Second year ..		252	284	536	302	256	558
	Third year ..		118	194	312	126	178	304
Totals			2,134	1,832	3,966	2,127	1,708	3,835

Nearly 23 per cent. of the total number of students in attendance at classes held free places under the Government regulations. The total number of junior free pupils shows a decrease of 75 as compared with the number for 1920, and the total number of senior free pupils shows a decrease of 56. 495 students held scholarships or free places provided locally. Included in the return of junior free pupils there is a number of young persons not otherwise qualified for a free place who have been recommended by an Inspector of Schools for free places in industrial classes.

In certain districts the regulations for compulsory attendance at continuation classes were in operation during the year, the number of students in attendance being as follows:—

Auckland Education District	638 students in 14 school districts.
Taranaki Education District	229 " 5 "
Wanganui Education District	478 " 3 "
Hawke's Bay Education District	115 " 1 "
Nelson Education District	1 " 1 "
Canterbury Education District	124 " 1 "
Totals	1,585 25

During the year 644 returned soldiers attended as free students at technical classes in twenty-one centres. The Repatriation Board, as in 1920, provided the funds for additional instructors and equipment wherever necessary.

The following technical schools had a roll of more than 500, exclusive of the technical high schools carried on in connection with some of them :—

					Number on Roll.	
					1920.	1921.
Christchurch Technical School	..	..	..	..	1,598	1,633
Wellington Technical School	..	..	..	..	1,146	1,205
Dunedin Technical School..	..	..	..	..	1,302	1,138
Auckland Technical School	..	..	..	..	1,236	854
Palmerston North Technical School	..	..	..	..	695	760
Wanganui Technical School	..	..	..	..	677	700
Ashburton Technical School	..	..	..	..	493	527

Technological examinations were conducted by the Department on behalf of the City and Guilds of London Institute at fifteen centres in the Dominion. The total number of entries was 362, an increase of 70 over the number for the previous year, and the number of passes was 204, or 56·4 per cent. A gold medal was awarded to one candidate for plumbers' work, Grade II.

TECHNICAL HIGH SCHOOLS.

The number of students in attendance at technical high schools in 1920 and 1921 was as follows :—

Technical High Schools—					Number of Students.	
					1920.	1921.
Christchurch	..	..	..	..	581	549
Auckland	..	..	..	..	476	493
Dunedin	..	..	..	..	385	421
Wanganui	..	..	..	..	312	354
Invercargill	..	..	..	..	298	335
Wellington	..	..	..	..	299	317
Napier	..	..	..	..	249	259
Stratford	..	..	..	..	..	165
Hawera	..	..	..	..	142	164
Pukekohe	..	..	..	..	..	126
Hastings	..	..	..	..	..	101
Feilding	..	..	..	..	..	42
Westport	..	..	..	..	24	23
Totals	..	..	..	..	2,766	3,349

The numbers of pupils taking up the various courses provided were as follows :—

Course.					Number of Pupils.			Increase over 1920.
					Boys.	Girls.	Total.	
Industrial	..	..	..	..	951	..	951	+112
Commercial and general	..	..	..	..	588	1,158	1,746	+388
Domestic	..	..	..	..	..	385	385	+ 55
Agriculture	..	..	..	..	243	20	263	+ 31
Art	..	..	..	..	..	4	4	— 3
Totals	..	..	..	..	1,782	1,567	3,349	+583

NUMBER OF PUPILS RECEIVING FREE EDUCATION AT TECHNICAL HIGH SCHOOLS UNDER REGULATIONS FOR FREE PLACES.

					1920.			1921.		
					Boys.	Girls.	Totals.	Boys.	Girls.	Totals.
Junior free pupils	First year	..	..	..	759	588	1,347	945	758	1,703
	Second year	..	..	..	467	412	879	500	444	944
Senior free pupils	First year	..	..	..	124	153	277	174	203	377
	Second year	..	..	..	24	38	62	49	51	100
	Third year	..	..	..	3	8	11	9	7	16
Totals	..	..	..	..	1,377	1,199	2,576	1,677	1,463	3,140

FINANCIAL.

The total amount due by the Department to the controlling authorities for the salaries and incidental expenses of all technical classes, including technical high schools, was approximately £107,434, made up as follows:—

Salaries of full-time teachers	£	56,057
Salaries of full-time Directors	11,758	
Capitation for part-time teachers	19,260	
Capitation for student teachers	1,524	
Overtime payments	1,300	
Incidental allowances	23,030	
College classes capitation	2,945	
	115,874	
Less recoveries from tuition fees	8,440	
Totals	£107,434	

The following is a summary of the total expenditure by the Department on technical instruction during the financial year ending 31st March, 1922:—

Capitation and salaries	£	119,289
Subsidies on voluntary contributions	3,991	
Scholarships and bursaries	3,173	
Grants in aid of material for class use	5,632	
Grants for buildings and equipment	101,198	
Grants for rents of buildings	1,517	
Conveyance of—		
Instructors	679	
Free pupils	4,386	
	5,065	
Examinations	142	
Maintenance technical school buildings	560	
Inspectors' salaries and travelling-expenses	2,624	
Grant on account of Elam School of Art	1,436	
Totals	£244,627	

No. 2.

DETAILED TABLES RELATING TO TECHNICAL INSTRUCTION.

TABLE J1.—SOME PARTICULARS RELATING TO TECHNICAL EDUCATION FOR THE YEARS 1915-1921 INCLUSIVE.

—	1915.	1916.	1917.	1918.	1919.	1920.	1921.*
Number of centres at which classes were held	168	151	154	131	110	121	94
Number of technical high schools	8	8	8	8	8	9	13
Number of other classes	1,817	1,915	1,962	1,965	2,014	2,079	1,952
Number of students—							
(a.) Technical high schools	1,955	2,105	2,347	2,747	2,926	2,766	3,349
(b.) Other classes	18,247	17,586	18,400	16,910	17,950	18,628	16,832
Number of free pupils at (a) and (b) above	5,660	5,975	6,127	6,715	7,242	6,542	6,975
Number of students attending under compulsory regulations	858	1,219	1,334	1,324	1,372	1,636	1,585
Total expenditure by Government for financial year	£ 72,089	£ 84,931	£ 100,199	£ 85,335	£ 132,245	£ 169,530	£ 244,627
Including—							
Capitation—							
(a.) Technical high schools	19,309	25,934	35,795	33,150	47,343	29,818	119,289
(b.) Other classes	30,729	38,922	44,021	33,119	47,858	31,918	
(c.) Salaries and allowances, &c. .. .. .	..	..	..	..	..	20,589	
Grants for buildings and equipment	7,877	6,614	6,898	5,773	13,319	67,217	101,198
Subsidies on voluntary contributions	5,323	4,206	2,154	1,673	6,934	5,466	3,991
Conveyance of (a) Instructors	1,018	790	261	464	615	635	679
(b) Students	2,659	2,596	2,982	3,312	3,852	3,767	4,386

* Excludes teachers' classes.

TABLE J2.—CLASSES OTHER THAN CLASSES AT TECHNICAL HIGH SCHOOLS HELD DURING THE YEAR ENDED 31ST DECEMBER, 1921.

Controlling Authorities, Technical School Boards, and Managers.	Number of Students.					Subjects and Number of Classes.									
	Free Pupils.	Compulsory Pupils.	Discharged Soldiers.	Other Pupils.	Totals.	Art and Art-crafts.	Mechanical and Elec- trical Engineering (Theoretical and Practical).	Building, Construction, Carpentry, Plumbing, and other Trades.	Experimental and Natural Science, and Practical Mathematics.	Agriculture, Wool- sorting, Dairying, &c.	Domestic Subjects.	Commercial Subjects.	Subjects of General Education.	Total Number of Classes.	
Auckland Education Board—															
Auckland Technical School* ..	372	..	71	411	854	11	10	23	20	6	9	11	43	133	
Pukekohe Technical School* ..	20	31	..	65	116	1	..	2	1	..	4	3	4	15	
“Elam” School of Art* ..	..	..	3	371	374	20	..	..	..	..	..	..	..	20
Other classes, Auckland District ..	134	607	37	1,609	2,387	..	16	29	8	1	57	62	85	258	
Auckland University College Council—															
School of Engineering ..	..	..	..	93	93	..	17	..	..	..	..	..	..	17
Taranaki Education Board—															
New Plymouth Technical School ..	166	98	4	41	309	9	25	2	4	4	20	20	38	122	
Hawera Technical School ..	12	61	1	73	147	1	1	2	1	..	1	2	3	11	
Stratford Technical School ..	..	41	..	3	44	..	..	1	..	1	..	1	3	6
Other classes, Taranaki District ..	..	29	..	24	53	..	..	1	..	..	..	..	1	2
Wanganui Education Board—															
Wanganui Technical School* ..	70	317	27	286	700	15	6	15	5	2	14	4	9	70	
Feilding Technical School* ..	47	98	..	103	248	1	1	2	1	1	14	5	6	31	
Other classes, Wanganui District ..	3	63	..	61	127	..	..	4	1	..	8	4	2	19
Palmerston North High School Board—															
Palmerston North Technical School	227	..	9	524	760	6	4	7	1	..	22	15	8	63	
Hawke's Bay Education Board—															
Napier Technical School* ..	65	115	14	194	388	2	5	3	4	..	6	6	9	35	
Waipawa Technical School* ..	..	..	11	18	29	..	..	1	..	..	..	..	..	1
Other classes, Hawke's Bay District	44	..	12	307	363	..	2	5	..	..	5	13	21	46
Wellington Education Board—															
Wellington Technical School* ..	293	..	189	723	1,205	26	13	10	6	..	11	20	24	110	
Petone Technical School and sub- centre*	99	..	4	93	196	..	..	5	5	..	2	5	12	29
Other classes, Wellington District ..	2	..	..	181	183	..	..	..	1	..	1	5	4	11
Managers, Masterton Technical School—															
Masterton Technical School† ..	203	..	13	216	432	6	6	6	1	3	10	10	10	52	
Nelson Education Board—															
Nelson Technical School and sub- centres*	158	..	23	230	411	8	8	13	3	..	14	8	11	65	
Westport Technical School ..	59	1	6	167	233	1	3	1	..	..	5	2	1	13
Other classes, Nelson District ..	..	..	..	67	67	..	..	1	..	..	7	..	..	8
Canterbury College Board of Governors—															
School of Art ..	105	..	..	332	437	77	..	..	..	..	..	..	3	80
School of Engineering ..	..	..	..	297	297	..	70	..	..	..	..	..	..	70
School of Commerce ..	..	..	..	162	162	..	..	..	..	..	..	22	..	22
Canterbury Education Board—															
Christchurch Technical School* ..	531	..	136	966	1,633	..	11	26	9	..	26	39	16	127	
Ashburton Technical School and sub- centres*	209	124	10	184	527	3	6	12	9	1	24	33	23	111	
Greymouth Technical School* ..	48	..	..	90	138	..	4	3	3	..	1	4	4	19
Timaru Technical School* ..	223	..	7	240	470	1	7	5	3	..	17	27	8	68	
Akaroa technical classes*	..	..	..	36	36	..	..	1	..	..	1	1	..	3
Kaiapoi technical classes*	..	..	..	69	69	..	..	1	..	..	2	..	..	3
Fairlie technical classes* ..	..	..	..	10	10	..	..	..	..	..	1	1	..	2
Pleasant Point technical classes*	..	..	..	14	14	..	..	..	..	..	1	..	..	1
Temuka technical classes*	..	..	..	170	170	..	..	3	..	2	4	1	..	10
Waimate technical classes*	..	..	..	74	74	..	..	2	..	..	4	..	..	6
Other classes, Canterbury District ..	..	..	2	625	627	..	1	5	..	1	20	5	..	32
Otago University College Council—															
Home-science classes ..	..	..	..	75	75	..	..	..	..	..	30	..	..	30
Commerce classes ..	..	..	..	120	120	..	..	..	..	..	..	11	..	11
Otago Education Board—															
Dunedin Technical School* and	463	..	57	618	1,138	16	7	12	18	..	16	19	28	116	
Dunedin School of Art*				187											
Oamaru Technical School* ..	23	..	..	161	184	..	1	3	..	..	6	4	3	17
Southland Education Board—															
Invercargill Technical School* ..	247	..	38	193	478	7	6	6	5	..	17	10	16	67	
Other classes, Southland District ..	..	..	..	176	176	..	..	3	..	..	4	..	..	7
Gore High School Board—															
Gore Technical School ..	12	..	..	79	91	..	..	3	1	..	5	2	2	13
Totals for 1921	3,835	1,585	674	10,738	16,832	211	230	218	110	22	389	375	397	1,952	
Totals for 1920	3,966	1,636	943	12,083	18,628	238	239	252	143	103	405	346	353	2,079	

* Schools or classes under the immediate control of managers.

† Technical schools the managers of which are the controlling authorities.

NOTE.—The figures for 1920 include students attending teachers' classes while the figures for 1921 do not include such students.

TABLE J3.—RECEIPTS BY CONTROLLING AUTHORITIES OF TECHNICAL SCHOOLS AND CLASSES AND BY MANAGERS OF TECHNICAL SCHOOLS AND CLASSES (INCLUDING TECHNICAL HIGH SCHOOLS) FOR THE YEAR 1921.

	Receipts from Government.						Other Receipts.					Total Receipts.
	Salaries, Incidental Allowances, Capitation, &c.	Sites, Buildings, (including Maintenance), Equipment, and Rent.	Material for Class Use.	Subsidies on Voluntary Contributions.	Conveyance of Instructors and Students.	Total Receipts from Government.	Class Fees.	Voluntary Contributions.	For Services rendered to other Schools.	Miscellaneous.	Total of other Receipts.	
A. EDUCATION BOARDS, HIGH SCHOOL BOARDS, AND UNIVERSITY COLLEGES.	£	£	£	£	£	£	£	£	£	£	£	£
Auckland Education Board ..	4,737	7,047	..	1,160	..	12,944	852	1,002	..	832	2,686	15,630
Taranaki Education Board—												
(a.) New Plymouth Technical School	4,655	1,603	210	99	24	6,591	69	42	..	55	166	6,757
(b.) Hawera Technical School	3,707	14,119	100	20	..	17,946	431	..	..	26	457	18,403
(c.) Stratford Technical School	924	13,006	6	..	..	13,936	7	..	..	73	80	14,016
(d.) Other technical schools and classes	178	..	3	10	..	191	..	..	..	..	..	191
Wanganui Education Board—												
(a.) Feilding Technical School (from 1/1/21 to 31/7/21)	362	7,002	7	17	..	7,388	11	..	..	25	36	7,424
(b.) Other technical schools and classes	624	577	32	28	9	1,270	47	25	..	..	72	1,342
Palmerston North High School Board	3,781	278	50	..	..	4,109	568	159	88	110	925	5,034
Hawke's Bay Education Board—												
Gisborne and Hastings Technical Schools	1,118	13	90	21	..	1,242	89	21	..	110	220	1,462
Wellington Education Board ..	99	..	..	5	..	104	90	66	..	17	173	277
Nelson Education Board ..	96	..	2	..	..	98	46	..	..	..	46	144
Westport Technical School ..	2,317	10,047	134	25	..	12,523	137	..	..	69	206	12,729
Canterbury Education Board ..	1,135	450	28	100	..	1,713	256	320	..	149	725	2,438
Canterbury College (in respect of School of Art)	3,564	18	81	..	..	3,663	771	500	..	103	1,374	5,037
Otago Education Board ..	17	..	..	..	..	17	..	..	..	..	..	17
Southland Education Board ..	129	..	..	..	..	129	57	..	..	12	69	198
Gore High School Board ..	208	..	..	25	..	233	57	25	..	..	82	315
Totals ..	27,651	54,160	743	1,510	33	84,097	3,488	2,160	88	1,581	7,317	91,414
B. TECHNICAL SCHOOL BOARDS AND MANAGERS.												
Auckland Technical School ..	12,038	7,407	203	..	..	19,648	502	..	..	1,375	1,877	21,525
"Elam" School of Art ..	3,354	22	64	..	..	3,440	334	..	..	154	488	3,928
Pukekohe Technical School (from 1/10/21 to 31/12/21)	562	..	..	..	..	562	..	..	..	..	..	562
Wanganui Technical School ..	9,415	2,535	384	91	..	12,425	2,798	158	..	1,459	4,415	16,840
Feilding Technical School (from 1/8/21 to 31/12/21)	785	6,000	..	..	..	6,785	29	..	..	38	67	6,852
Napier Technical School ..	6,176	286	222	241	..	6,925	184	4	..	417	605	7,530
Waipawa Technical School ..	265	..	..	15	..	280	29	..	..	..	29	309
Wellington Technical School ..	10,773	15,436	501	300	..	27,010	1,182	6,490	100	1,823	9,595	36,605
Petone Technical School ..	886	44	..	95	..	1,025	52	30	..	21	103	1,128
Masterton Technical School ..	1,894	98	66	301	..	2,359	145	360	39	134	678	3,037
Nelson Technical School ..	2,690	224	138	50	23	3,125	148	..	..	427	575	3,700
Christchurch Technical School ..	12,922	1,142	780	939	..	15,783	1,736	536	215	3,310	5,797	21,580
Kaipoi Technical School ..	98	..	..	..	17	115	33	34	93	23	183	298
Akaroa Technical School ..	95	..	..	..	..	95	25	..	..	5	30	125
Ashburton Technical School ..	4,252	4,409	192	192	58	9,103	222	259	..	115	596	9,699
Temuka Technical School ..	225	11	3	48	..	287	120	58	..	30	208	495
Timaru Technical School ..	2,086	655	43	135	..	2,919	206	63	49	115	433	3,352
Waimate Technical School ..	199	..	..	..	..	199	65	24	..	10	99	298
Pleasant Point Technical School	23	2	..	..	..	25	12	4	..	6	22	47
Fairlie Technical School ..	42	..	3	5	..	50	9	21	..	1	31	81
Dunedin Technical School ..	12,797	196	352	251	..	13,596	1,357	599	..	1,121	3,077	16,673
Oamaru Technical School ..	235	2	12	..	..	249	156	48	..	4	208	457
Milton Technical School ..	8	..	..	..	..	8	..	..	..	..	..	8
Invercargill Technical School ..	7,396	2,914	337	49	..	10,696	235	128	..	585	948	11,644
Totals ..	89,216	41,383	3,300	2,712	98	136,709	9,579	8,816	496	11,173	30,064	166,773
Grand totals ..	116,867	95,543	4,043	4,222	131	220,806	13,067	10,976	584	12,754	37,381	258,187

TABLE J4.—PAYMENTS BY CONTROLLING AUTHORITIES OF TECHNICAL SCHOOLS AND CLASSES, AND BY MANAGERS OF TECHNICAL SCHOOLS AND CLASSES (INCLUDING TECHNICAL HIGH SCHOOLS) FOR THE YEAR 1921.

Controlling Authorities.	Salaries of Directors and Teaching Staffs.	Working-expenses.								Sites, Buildings (including Maintenance), Equipment, and Rent.	Other Expenditure.	Total Expenditure.
		Salaries of Registrars and Clerical Staffs.	Office Expenses.	Material for Class Use.	Caretaker, Cleaning, &c.	Repairs.	Lighting and Heating.	Miscellaneous Working-expenses.	Total Working-expenses.			
A. EDUCATION BOARDS AND HIGH SCHOOL BOARDS.	£	£	£	£	£	£	£	£	£	£	£	£
Auckland Education Board ..	5,980	600	21	572	..	298	316	546	2,353	9,386	..	17,719
Taranaki Education Board—												
(a.) New Plymouth Technical School	3,437	131	83	171	122	164	30	130	831	1,233	..	5,501
(b.) Hawera Technical School ..	2,745	65	130	100	97	81	25	56	554	12,236	430	15,965
(c.) Stratford Technical School	764	36	7	10	8	7	3	30	101	12,121	..	12,986
(d.) Other technical schools and classes	57	29	1	2	..	1	3	21	57	..	..	114
Wanganui Education Board—												
(a.) Feilding Technical School (from 1/1/21 to 31/7/21)	166	..	..	3	..	..	44	50	97	5,367	..	5,630
(b.) Other technical schools and classes	300	28	..	13	..	30	40	31	142	612	40	1,094
Palmerston North High School Board	3,108	50	25	477	90	102	105	171	1,020	352	..	4,480
Hawke's Bay Education Board—												
Gisborne and Hastings Technical Schools	724	55	7	63	18	16	4	20	183	162	168	1,237
Wellington Education Board ..	70	..	7	22	6	..	5	7	47	48	..	165
Nelson Education Board—												
(a.) Westport Technical School	1,688	15	32	169	75	1	44	61	397	9,006	25	11,116
(b.) Other technical schools and classes	..	..	3	36	12	3	6	2	62	24	..	86
Canterbury Education Board ..	1,117	..	116	191	60	3	31	58	459	416	..	1,992
Canterbury College (in respect of School of Art)	3,518	255	..	127	225	13	166	219	1,005	92	..	4,615
Otago Education Board ..	37	..	..	..	9	..	3	..	12	..	..	49
Southland Education Board ..	114	..	8	36	..	..	1	..	45	..	..	159
Gore High School Board ..	207	..	..	51	..	..	7	9	67	..	..	274
Totals	24,032	1,264	440	2,043	722	719	833	1,411	7,432	51,055	663	83,182
B. TECHNICAL SCHOOL BOARDS AND MANAGERS.												
Auckland Technical School ..	11,178	703	280	1,317	730	252	198	600	4,080	8,261	..	23,519
"Elam" School of Art ..	1,493	200	131	66	..	16	44	31	488	80	..	2,061
Pukekohe Technical School (from 1/10/21 to 31/12/21)	423	6	31	19	20	1	20	9	106	3	..	532
Wanganui Technical School ..	7,338	192	43	1,309	240	20	46	789	2,639	2,565	3,638	16,180
Feilding Technical School (from 1/8/21 to 31/12/21)	684	6	..	2	..	9	47	29	93	7,249	..	8,026
Napier Technical School ..	4,955	166	78	706	144	18	112	442	1,666	2,279	7	8,907
Waipawa Technical School ..	142	..	3	..	..	1	5	2	11	50	..	203
Wellington Technical School ..	9,115	592	297	906	317	30	103	1,490	3,735	21,991	298	35,139
Petone Technical School ..	886	..	5	58	103	17	77	42	302	2	..	1,190
Masterton Technical School ..	1,900	11	28	161	93	75	120	274	762	160	..	2,822
Nelson Technical School ..	2,745	200	42	269	104	14	77	160	866	89	..	3,700
Christchurch Technical School ..	11,392	803	203	1,851	913	351	477	1,886	6,484	1,473	1,393	20,742
Kaipoi Technical School ..	83	..	1	17	18	..	6	69	111	..	..	194
Akaroa Technical School ..	105	..	2	23	6	..	6	12	49	3	..	157
Ashburton Technical School ..	3,073	70	54	330	158	42	50	221	925	5,103	163	9,264
Temuka Technical School ..	254	..	13	7	35	8	21	39	123	23	..	400
Timaru Technical School ..	1,954	65	57	155	100	10	101	84	572	183	..	2,709
Waimate Technical School ..	141	25	8	18	14	..	5	18	88	..	..	229
Pleasant Point Technical School ..	27	..	..	..	10	..	1	3	14	..	..	41
Fairlie Technical School ..	38	..	5	2	8	13	3	4	35	..	..	73
Dunedin Technical School ..	9,815	536	111	1,021	474	332	172	832	3,478	1,914	526	15,733
Oamaru Technical School ..	377	9	..	23	25	11	13	19	100	17	..	494
Milton Technical School ..	..	..	..	..	..	..	..	1	1	..	..	1
Invercargill Technical School ..	5,842	319	211	607	277	52	125	1,185	2,776	1,642	..	10,260
Totals	73,960	3,903	1,603	8,867	3,789	1,272	1,829	8,241	29,504	53,087	6,025	162,576
Grand totals ..	97,992	5,167	2,043	10,910	4,511	1,991	2,662	9,652	36,936	104,142	6,688	245,758

TABLE J5.—ASSETS AND LIABILITIES OF (a) THE TECHNICAL INSTRUCTION ACCOUNTS OF EDUCATION BOARDS AS CONTROLLING AUTHORITIES OF TECHNICAL SCHOOLS AND CLASSES, AND (b) TECHNICAL SCHOOL BOARDS AND MANAGERS, AS AT 31ST DECEMBER, 1921.

	Assets.			Liabilities.			Net Balances.	
	Cash Balances and Investments.	Amounts due to Board.	Total.	Cash Deficits.	Other Liabilities.	Total.	Cr.	Dr.
(a.) EDUCATION BOARDS.								
	£	£	£	£	£	£	£	£
Auckland	808	3,530	4,338	..	3,828	3,828	510	..
Taranaki	1,538	1,245	2,783	..	1,800	1,800	983	..
Wanganui .. .. .	..	4,049	4,049	1,392	3,261	4,653	..	604
Hawke's Bay	220	492	712	..	433	433	279	..
Wellington	187	119	306	..	306	306	..	..
Nelson* .. .. .	..	..	..	..	..	..	..	..
Canterbury .. .. .	..	286	286	286	..	286	..	..
Otago	966	55	1,021	..	1,021	1,021	..	..
Southland .. .. .	..	95	95	90	..	90	5	..
Totals	3,719	9,871	13,590	1,768	10,649	12,417	1,777	604
(b.) TECHNICAL SCHOOL BOARDS AND MANAGERS.								
Auckland Technical School .. .. .	..	20,845	20,845	1,377	17,595	18,972	1,873	..
"Elam" School of Art	431	97	528	..	13	13	515	..
Pukekohe Technical School	30	30	60	..	252	252	..	192
Wanganui Technical School .. .. .	..	3,336	3,336	804	144	948	2,388	..
Feilding Technical School .. .. .	..	115	115	306	56	362	..	247
Napier Technical School	529	631	1,160	..	257	257	903	..
Waipawa Technical School	181	1	182	..	..	..	182	..
Wellington Technical School	2,118	4,595	6,713	..	7,872	7,872	..	1,159
Petone Technical School	88	108	196	..	202	202	..	6
Masterton Technical School	1,206	650	1,856	..	11	11	1,845	..
Nelson Technical School	80	1,155	1,235	..	241	241	994	..
Christchurch Technical School	3,910	2,302	6,212	..	1,715	1,715	4,497	..
Kaipoi Technical School	131	99	230	..	..	..	230	..
Akaroa Technical School	48	139	187	..	71	71	116	..
Ashburton Technical School	679	1,130	1,809	..	762	762	1,047	..
Temuka Technical School	180	79	259	..	..	..	259	..
Timaru Technical School	1,349	701	2,050	..	248	248	1,802	..
Waimate Technical School	198	24	222	..	..	..	222	..
Pleasant Point Technical School	44	13	57	..	10	10	47	..
Fairlie Technical School	52	..	52	..	..	..	52	..
Dunedin Technical School	2,634	3,348	5,982	..	3,003	3,003	2,979	..
Oamaru Technical School .. .. .	..	46	46	15	18	33	13	..
Milton Technical School	58	..	58	..	1	1	57	..
Invercargill Technical School	820	1,401	2,221	..	231	231	1,990	..
Totals	14,766	40,845	55,611	2,502	32,702	35,204	22,011	1,604
Grand totals	18,485	50,716	69,201	4,270	43,351	47,621	23,788	2,208

* Statement not received in time for inclusion of figures.

TABLE J6.—NUMBER OF STUDENTS ACCORDING TO AGES ADMITTED TO CLASSES OTHER THAN CLASSES AT TECHNICAL HIGH SCHOOLS DURING THE YEAR ENDED 31ST DECEMBER, 1921.

Education District.	Under 13 Years.		13-15 Years.		15-17 Years.		Over 17 Years.		Totals.		Students admitted during 1921 who left a Public School during 1920 (Included in Foregoing Totals).	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
Auckland	183	215	457	404	767	474	687	637	2,094	1,730	363	129
Taranaki	23	19	107	77	163	76	53	35	346	207	177	59
Wanganui	47	43	161	188	315	340	272	469	795	1,040	186	170
Hawke's Bay	43	50	75	121	103	119	164	105	385	395	53	25
Wellington	40	52	169	133	387	229	613	393	1,209	807	103	66
Nelson	52	80	61	67	80	83	122	166	315	396	48	45
Canterbury	137	160	369	382	668	458	1,287	1,203	2,461	2,203	278	214
Otago	5	2	87	61	283	160	628	478	1,003	701	116	56
Southland	31	43	43	93	98	122	154	161	326	419	26	26
Totals, 1921	561	664	1,529	1,526	2,864	2,061	3,980	3,647	8,934	7,898	1,350	790
Totals, 1920	454	543	1,773	1,475	2,624	2,138	4,700	4,921	9,551	9,077	1,353	856

NOTE.—The figures for 1920 include students attending teachers' classes, while the figures for 1921 do not include such students.

TABLE J7.—OCCUPATIONS OF STUDENTS IN ATTENDANCE AT TECHNICAL CLASSES OTHER THAN CLASSES AT TECHNICAL HIGH SCHOOLS DURING THE YEAR ENDED 31ST DECEMBER, 1921.

Occupations.	Auckland.	Taranaki.	Wanganui.	Hawke's Bay.	Wellington.	Nelson.	Canterbury.	Otago.	Southland.	Totals.
Agricultural pursuits	129	7	41	6	27	51	213	9	7	490
Professional pursuits	304	20	87	45	151	27	341	111	48	1,134
Clerical pursuits	340	45	198	117	513	48	506	339	108	2,214
Domestic pursuits	648	18	478	53	337	191	856	223	161	2,965
Students	1,001	254	316	309	173	246	1,297	177	192	3,965
Employed in shops or warehouses	197	50	186	33	133	33	228	120	62	1,042
Dressmakers, milliners, &c.	38	2	37	6	37	9	77	20	14	240
Tailors and tailoresses	41	..	13	1	17	1	36	20	2	131
Engineers and mechanics	176	41	109	41	102	25	247	128	31	900
Electricians	105	8	2	14	79	2	152	29	17	408
Plumbers, metal-workers, &c.	163	11	46	31	118	17	112	62	17	577
Woodworkers	180	30	21	10	93	14	113	67	11	539
Painters, plasterers, &c.	20	7	14	6	11	..	40	6	3	107
Printers, &c.	25	7	7	2	18	3	45	20	3	130
Skilled labourers	11	..	7	..	4	3	19	10	3	57
Labourers	33	2	27	6	14	8	52	5	9	156
Seamen	1	1	..	..	63	..	1	..	..	66
Engaged in various other trades and industries	106	17	106	60	53	27	111	97	17	594
Engaged in various public services	136	32	95	24	42	4	82	33	21	469
Occupations not stated	170	1	45	16	31	2	136	228	19	648
Totals	3,824	553	1,835	780	2,016	711	4,664	1,704	745	16,832

TABLE J8.—NUMBER OF PUPILS HOLDING GOVERNMENT FREE PLACES AT TECHNICAL CLASSES OTHER THAN CLASSES AT TECHNICAL HIGH SCHOOLS DURING THE YEAR ENDED 31ST DECEMBER, 1921.

Education District.	Jr. 1st.		Jr. 2nd and 3rd.		Sr. 1st.		Sr. 2nd.		Sr. 3rd and 4th.		Totals.		Grand Total.
	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	P.	G.	
Auckland	141	70	70	31	61	24	58	24	25	22	355	171	526
Taranaki	35	50	14	24	9	25	6	14	..	1	64	114	178
Wanganui	57	76	19	45	29	48	17	25	6	25	128	219	347
Hawke's Bay	17	21	16	9	13	8	6	8	5	6	57	52	109
Wellington	104	66	76	53	92	56	57	43	23	27	352	245	597
Nelson	49	34	24	26	15	32	7	18	6	6	101	116	217
Canterbury	240	163	170	100	120	95	72	72	30	54	632	484	1,116
Otago	99	53	87	29	57	41	56	28	20	16	319	167	486
Southland	31	39	21	25	33	31	23	24	11	21	119	140	259
Totals for 1921	773	572	497	342	429	360	302	256	126	178	2,127	1,708	3,835
Totals for 1920 .. .. .	..	..	..	..	..	..	..	..	..	..	2,134	1,832	3,966

TABLE J9.—TECHNICAL HIGH SCHOOLS.—COURSES TAKEN BY STUDENTS DURING THE YEAR 1921.

School.	Courses of Instruction, and Number and Sex of Students.												Grand Total.
	Industrial.		Agricultural.		Domestic.		Commercial and General.		Art.		Totals.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Auckland	197	..	52	..	..	51	54	139	..	..	303	190	493
Pukekohe .. .. .	..	..	12	..	..	13	38	63	..	..	50	76	126
Hawera	23	..	8	..	..	..	45	88	..	..	76	88	164
Stratford .. .. .	..	..	30	20	..	..	51	64	..	..	81	84	165
Wanganui	75	..	29	..	..	30	127	93	..	..	231	123	354
Feilding .. .. .	..	..	..	..	..	..	22	20	..	..	22	20	42
Napier	76	..	22	..	..	41	32	88	..	..	130	129	259
Hastings .. .. .	..	..	..	..	..	..	42	59	..	..	42	59	101
Wellington	147	..	..	..	..	17	32	117	..	4	179	138	317
Westport	23	..	..	..	..	..	..	..	..	..	23	..	23
Christchurch	217	..	42	..	..	87	42	161	..	..	301	248	549
Dunedin	99	..	30	..	..	67	62	163	..	..	191	230	421
Invercargill	94	..	18	..	..	79	41	103	..	..	153	182	335
Totals, 1921	951	..	243	20	..	385	588	1,158	..	4	1,782	1,567	3,349
Totals, 1920	839	..	232	..	..	330	413	945	1	6	1,485	1,281	2,766

TABLE J10.—NUMBER OF CANDIDATES WHO ENTERED FOR AND WHO PASSED THE TECHNOLOGICAL EXAMINATIONS OF THE CITY AND GUILDS OF LONDON INSTITUTE, 1921.

Subjects of Examination.	Number of Entries.	Number of Passes.	Subjects of Examination.	Number of Entries.	Number of Passes.
Telephony—			Mechanical engineering— <i>continued.</i>		
Grade I	1	..	Division II, Final	2	1
Final	1	1	Structural engineering—Grade I ..	1	..
Telegraphy—			Motor-car engineering—		
Grade I	1	..	Grade I	13	10
Final	1	1	Grade II	4	2
Electrical engineering—			Cabinetmaking—		
Grade I	81	48	Grade I	13	11
Grade II (first paper)	20	11	Final	1	1
Grade II (second paper)	12	5	Carpentry and joinery—		
Final	1	1	Grade I	31	17
Electrical installation work —			Grade II	4	1
Grade I	13	6	Woodwork—		
Final	3	3	First year, scheme A	2	1
Plumbers' work—			First year, scheme B	6	3
Grade I	4	4	Final	6	4
Grade II (practical)	12	4	Metalwork, first year	1	..
Grade II (whole examination) ..	..	4*	Dressmaking	4	4
Principles of leadwork—Final ..	..	1	Plain needlework	1	1
Plumbers' work—Final (whole examination))	6	3	Plain cookery	18	14
Mechanical engineering—					
Division I, Grade I	22	11	Totals, 1921	362	204
Division I, Grade II	7	2			
Division II, Grade I	61	26	Totals, 1920	292	185
Division II, Grade II	9	3			

* Includes one gold medal awarded to one of the two candidates from the overseas dominions, colonies, and India, who obtained the highest number of marks in the practical test.

Approximate Cost of Paper.—Preparation, not given; printing (855 copies), £18 10s.