

1929.
NEW ZEALAND.

E D U C A T I O N : MANUAL AND TECHNICAL EDUCATION.

[In continuation of E.-5, 1928.]

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

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1. EXTRACTS FROM THE FIFTY-SECOND ANNUAL REPORT OF THE MINISTER OF EDUCATION.

MANUAL INSTRUCTION.

Staffing.—On the 30th June, 1928, there was in the employ of the various Education Boards a total of 120 full-time specialist teachers engaged in giving instruction to senior pupils in woodwork, metalwork, and domestic subjects, besides twenty-three specialist instructors in elementary agriculture. These teachers were classified as under. Class VII is the highest, and in Division I are placed those teachers whose classification is based on academic or professional qualifications equivalent to at least a University diploma involving three years' preparation of University standard.

FULL-TIME CLASSIFIED TEACHERS IN MANUAL-TRAINING CLASSES AS AT 30TH JUNE, 1928.

Class.	Division I.		Division II.		Totals.
	Men.	Women.	Men.	Women.	
VII .. .. .	..	..	..	..	..
VI	1	..	4	6	11
V	8	..	17	8	33
IV	4	1	15	9	29
III	1	4	10	7	22
II	2	4	10	4	20
I	1	14	9	4	28
Totals, 1928	17	23	65	38	143
Totals, 1927	16	20	65	40	141

In this table are included nine teachers (four men and five women) on staffs of junior high schools and one supervisor of needlework in primary classes.

The average rates of salary on the 30th June, 1928, were as follows: Men, £360; woman, £224; both, £302.

The following are some particulars of the number of schools and the number of pupils receiving instruction in manual training during 1928:—

Elementary agriculture: Number of public primary schools, 1,939; number of pupils, 45,313.

Elementary science: Number of public primary schools, 40; number of pupils, 3,309.

Woodwork: Total number of pupils attending special centres was 21,643, of which 17,015 attended from public primary schools and 1,453 from private schools, the remainder attending from junior high schools, secondary schools, or secondary departments of district high schools.

Metalwork: Total number of pupils attending special centres was 1,173, of which 82 attended from public primary schools and 31 from private schools, the remainder attending from junior high schools, secondary schools, or secondary departments of district high schools.

Domestic subjects: Total number of pupils attending special centres was 21,449, of which 15,860 attended from public primary schools and 2,008 from private schools, the remainder attending from junior high schools, secondary schools, or secondary departments of district high schools.

Financial.—The total amount due by the Department to the Education Boards for the salaries and incidental expenses for the year 1928 was approximately £69,874, made up as follows :—

						£	£
Salaries—							
Full-time assistants	..	..	..	..	..	42,984	
Full-time student teachers	..	..	..	..	..	164	
Overtime	..	..	..	..	..	74	
Capitation for part-time teachers (including commercial instructors in district high schools)	..	..	..	..	..	1,283	
							44,505
Incidental allowances	..	..	..	..	..	..	10,189
Capitation grants	..	..	..	..	..	..	15,180
Total						..	£69,874

In addition, the Department provided handwork materials for use in 1928 costing some £9,065, and also refunded to Education Boards the actual receiving and distributing charges, amounting approximately to £1,346, involving a total expenditure of £10,411.

The above figures exclude salaries and incidental allowances payable in respect of manual-training classes conducted by Technical School Boards.

TECHNICAL EDUCATION.

GENERAL.

Number of Schools.—The number of technical high schools open during 1928 was fourteen, in addition to which there were seven organized technical or art schools offering full-day courses. From the 1st January, 1927, the New Plymouth Technical Day School was amalgamated with the New Plymouth High Schools, and the statistics as far as the full-time pupils are concerned are included in the secondary schools report.

Technical classes were conducted at twenty of the twenty-one centres referred to above, and also at eighteen other centres, the total number of centres being thirty-nine.

Attendance.—The following table shows the numbers in attendance at technical schools and classes in 1928 :—

	Free.	Other.	Total.
Total number of pupils on the roll of technical high and technical day schools at 30th June, 1928	6,992	222	7,214
Total number of students in attendance at other technical classes (<i>i.e.</i> , part-time and evening classes) during 1928	5,286	5,677	10,963
Grand total	12,278	5,899	18,177

In the technical high schools and technical day schools the total enrolments increased from 7,193 in 1927 to 7,817 in 1928, an increase of nearly 9 per cent.

In the evening and part-time day classes the apparent reduction in numbers as compared with the previous year is probably due mainly to the fact that the numbers for 1928 are those on the rolls of the schools at the 30th June, whereas in previous years the total enrolments for the whole year were included.

Staffing.—On the 30th June, 1928, there were 305 full-time assistant teachers on the staffs of technical schools, besides a large number of part-time teachers. There were also twenty-one full-time student teachers, ten being males and eleven females. The following table shows the classification of the 305 full-time assistant teachers, Class VII being the highest :—

Class.	Division I.		Division II.		Totals.
	Men.	Women.	Men.	Women.	
VII .. .. .	..	1	..	4	5
VI	7	7	6	7	27
V	22	6	15	23	66
IV	27	8	10	17	62
III	27	13	20	2	62
II	17	7	9	10	43
I	19	15	4	2	40
Totals, 1928	119	57	64	65	305
Totals, 1927	111	53	66	65	295

It will be seen from the above table that the main increase has been in the number of Division I teachers (graduates).

The average rates of salary on the 30th June, 1928, were as follows : Principals (male), £649 (excluding house allowance). Assistants—Men, £401 ; women, £261 ; both, £345. All teachers (principals and assistants)—Men, £427 ; women, £261 ; both, £365.

With the inclusion of manual-training teachers employed by Education Boards the average rates of salary for all teachers (including Principals of technical schools) graded under the Regulations for Manual and Technical Instruction were as follows : Men, £408 ; women, £249 ; both, £346.

EVENING TECHNICAL CLASSES AND PART-TIME DAY CLASSES.

Classes were held at thirty-eight centres, as compared with forty-one in the previous year. The number of individual students was as follows :—

In classes conducted by Technical School Boards	8,787
In classes conducted by Secondary Education Boards	193
In classes conducted by Education Boards	450
In classes conducted by High School Boards	1,134
In classes conducted by University College Boards	399
Total	10,963

NOTE.—Oamaru transferred from a Technical School Board to a High School Board.

Of these students 5,286 held Government free places, classified as follows :—

	Males.	Females.	Totals.
First year	815	474	1,289
Second year	744	376	1,120
Third year	766	453	1,219
Fourth year	608	379	987
Fifth year and over	451	220	671
	3,384	1,902	5,286

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

SEX AND AGE.

Sex.	Under 13 Years.	13 Years.	14 Years.	15 Years.	16 Years.	17 Years to 21 Years.	Over 21 Years.	Totals.
Males ..	59	115	489	960	1,245	3,488	650	7,006
Females ..	70	147	369	652	650	1,361	708	3,957
Totals	129	262	858	1,612	1,895	4,849	1,358	10,963

SUMMARY OF OCCUPATIONS OF STUDENTS.

	Number of Students.	Percentage of Total.	1927 Percentage of Total.
Various trades and industries	5,115	46·7	46·1
Agricultural pursuits	197	1·8	1·4
Professional pursuits	650	5·9	5·5
Clerical pursuits	2,253	20·6	20·7
Domestic pursuits	1,263	11·5	11·0
No occupation	947	8·6	9·8
Other occupations, not stated	538	4·9	5·5
Totals	10,963	100·0	100·0

TECHNICAL HIGH SCHOOLS, TECHNICAL DAY SCHOOLS, AND FULL-TIME DAY CLASSES.

At the 30th June, 1928, the numbers of pupils taking the various courses provided were as follows :—

Course.	Boys.	Girls.	Totals.	Percentage of Totals.	
				Boys.	Girls.
Industrial	2,034	..	2,034	51·8	..
Agricultural	359	..	359	9·1	..
Domestic .. .. .	..	1,019	1,019	..	31·0
Commercial	759	1,778	2,537	19·3	54·1
General	676	238	914	17·2	7·3
Art	102	249	351	2·6	7·6
Totals	3,930	3,284	7,214	100·0	100·0

It is to be noted that in some cases under the general course are included pupils preparing for the Engineering Preliminary Examination.

Of the total number of pupils (7,214) 6,992 held Government free places, classified as follows :—

	Boys.	Girls.	Totals.
First year	2,023	1,663	3,686
Second year	1,182	940	2,122
Third year	433	356	789
Fourth year	153	151	304
Fifth year	49	35	84
Sixth year	5	2	7
Totals	3,845	3,147	6,992

During 1928 4,120 new pupils were admitted, and of this number 3,849 were commencing their secondary education.

The following table shows the classification of pupils according to age at 30th June, 1928 :—

	Under 13 Years.	13 Years.	14 Years.	15 Years.	16 Years.	17 Years.	18 Years and over.	Totals.
Boys	152	789	1,382	992	404	158	52	3,930
Girls	151	716	1,096	759	342	140	81	3,284
Totals	303	1,505	2,478	1,751	746	298	133	7,214

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 and day schools for the year 1928 was approximately £188,913, made up as follows :—

	£	£
Salaries—		
Full-time principals and assistants	120,075	
Full-time student teachers	1,900	
Full-time teachers—overtime	9,542	
Capitation for part-time assistants and student teachers	22,507	
		154,024
Incidental allowances		44,799
		198,823
Less recoveries from tuition fees		9,910
Net amount		£188,913

The above figures include salaries and incidental allowances payable in respect of manual-training classes conducted by Technical School Boards.

2. ABRIDGED REPORT OF THE SUPERINTENDENT OF TECHNICAL INSTRUCTION AND THE INSPECTORS OF TECHNICAL SCHOOLS AND MANUAL-TRAINING CLASSES.

SIR,—

Education Department, Wellington, 8th August, 1929.

We have the honour to submit, in accordance with the regulations, the following report on manual and technical instruction for the year 1928.

We have, &c.,

W. S. LA TROBE.

M. DYER.

F. C. RENYARD.

W. S. AUSTIN.

The Director of Education, Wellington.

I. TECHNICAL INSTRUCTION.

ATTENDANCE.

The total number of students in part-time day and in evening classes was 10,963, of whom 5,286 held junior or senior free places and 5,677 paid fees. Of the total number, 1,172 had been attending day schools for primary instruction in the previous year. From Table J 8 appended to this report it will be seen that 6,207 students, being nearly 55 per cent. of the total, were seventeen years of age or over, while 1,249, or 11·5 per cent., were under fifteen years of age. Of this 11·5 per cent., however, a considerable number—probably at least one-third—were part-time day pupils included among the 947 persons of “no occupation” as given in Table J 7 appended to this report. It is probable, therefore, that less than 8 per cent. of the evening-class pupils were under fifteen years of age. Of this 8 per cent., those under fourteen years of age all held, under the regulations, a certificate of proficiency and were free-place holders.

It is noteworthy that the proportion of girls to boys in the evening classes is only about 4 to 7. This ratio has been decreasing in recent years. This increasing disparity is due mainly to the small and diminishing attendance of girls at technical classes in cookery, dressmaking, millinery, &c. The apparent reduction in numbers as compared with the previous year is probably due mainly to the fact that the numbers for 1928 are those on the roll of the schools at the 30th June, whereas in previous years the total enrolments for the year were included.

Tables A and B below give some indication of the way in which the attendance at technical schools has changed in recent years. Columns 1, 2, 3, 4, and 5 of Table A give the numbers according to ages enrolled in technical classes, apart from pupils in technical high schools (and, since 1926, in technical day schools) since the year 1917. Up to 1921 numbers of children attending from primary schools, public and private, for manual training were included, and swell the numbers in columns 1 and 2 for the earlier years. They are now counted in other returns as pupils taking manual training. There has, however, undoubtedly been a real diminution in recent years of the numbers of young children attending evening classes. The regulations have for many years permitted the attendance of children under fourteen years of age at evening technical classes only if they held certificates of proficiency. The reduction in numbers of young children is not, therefore, due to changes in regulations. It is probably due to the children continuing at day schools—secondary or technical—in preference to going to work and attending evening schools. Columns 6 and 7 of Table A below indicate clearly the trend in this direction, the first-year junior free pupils in technical high schools being practically all the leavers from primary schools of the year before, who continued their day training at technical high schools in the following year.

The totals of columns 6 and 7, as shown in column 8, have increased by about 25 per cent. in the last ten years, but the numbers transferring straight from the primary school to the evening or part-time day classes have diminished by some 40 per cent., while those transferring to full-time technical high schools or technical day classes have increased in numbers by nearly 200 per cent.

Column 5 of Table A shows that whereas in 1917 the females outnumbered the males—due partly to war conditions, and partly to the inclusion of students attending classes in subjects of drawing and handwork for teachers' examinations, in which the women greatly outnumbered the men—in 1928 the number of male students was nearly twice as great as that of female students. This great change is, however, largely due to the fact that girls now receive in day schools the training in domestic and commercial subjects for which they went formerly to evening classes at the technical schools.

In this connection the totals of columns 6 and 7 in Table A below show that, whereas among transfers from the primary schools in 1917 to technical classes of all kinds the number of girls was 70 per cent. of the number of boys, in 1928 the ratio was 79 per cent., the average for the whole period being approximately 76 per cent. Leaving out technical-high-school pupils, the average for the period 1917–28 (inclusive) is 68·5 per cent. For technical-high-school pupils alone it is 82 per cent. The ratio of girl entrants to boy entrants, however, is considerably lower in technical schools than in secondary schools, where it reaches 91 per cent.

TABLE A.—NUMBER OF STUDENTS, ACCORDING TO AGES, ADMITTED TO CLASSES AT TECHNICAL SCHOOLS OTHER THAN TECHNICAL HIGH-SCHOOL CLASSES; ALSO PRIMARY SCHOOL “LEAVERS” JOINING TECHNICAL HIGH SCHOOLS IN THE NEXT YEAR.

Year.	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)
	Under 13 Years of Age.		13-15 Years of Age.		15-17 Years of Age.		Over 17 Years of Age.		Totals.		Students admitted who left a Primary School in the Previous Year.		Junior Free Place First-year Pupils in Technical High Schools.		Totals of Columns Six and Seven.		Totals of Columns Six and Seven
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Both Sexes.
1917 ..	423	377	1,601	1,399	2,649	2,330	3,996	5,625	8,669	9,731	1,347	929	595	627	2,273	1,556	3,829
1918 ..	386	423	1,812	1,526	2,459	2,060	3,573	4,671	8,230	8,680	1,302	910	700	711	2,002	1,621	3,623
1919 ..	413	487	1,931	1,488	2,640	2,099	4,305	4,587	9,289	8,661	1,581	936	821	710	2,402	1,646	4,048
1920 ..	454	543	1,773	1,475	2,624	2,138	4,700	4,921	9,551	9,077	1,353	856	759	588	2,112	1,444	3,556
1921 ..	561	664	1,529	1,526	2,864	2,061	3,980	3,647	8,934	7,898	1,350	790	945	758	2,295	1,548	3,843
1922 ..	214	205	1,039	869	2,269	1,586	3,537	2,543	7,059	5,203	1,016	720	1,213	929	2,229	1,649	3,878
1923 ..	185	189	1,249	1,050	2,217	1,486	3,706	2,981	7,357	5,706	1,048	824	1,512	1,117	2,560	1,941	4,501
1924 ..	218	204	1,036	929	2,559	1,739	4,328	3,231	8,141	6,102	1,024	850	1,476	1,202	2,500	2,052	4,552
1925*..	140	181	974	940	2,532	1,517	4,021	2,661	7,667	5,299	940	724	1,378	1,226	2,318	1,950	4,268
1926†..	170	205	937	728	2,685	1,375	3,979	2,602	7,771	4,910	1,037	616	1,960	1,631	2,997	2,247	5,244
1927†..	85	68	783	569	2,701	1,462	4,346	2,394	7,915	4,493	857	637	1,846	1,576	2,703	2,213	4,916
1928†..	59	70	604	516	2,205	1,302	4,138	2,069	7,006	3,957	700	472	2,023	1,663	2,723	2,135	4,858

* Epidemic year. † Technical day schools counted with technical high schools.

NOTE.—The 1928 figures show roll at the 30th June, 1928; not total enrolments as for previous years.

Table B gives figures bearing on the same question. It will be seen that the attendance of students from clerical, commercial, and other occupations largely followed by women has fluctuated about practically the same mean for the last sixteen years, while that of students from professions—more than 75 per cent. being teachers—has diminished largely, the teachers’ classes being excluded from the list since 1921, and students in diploma courses at the University colleges since 1925.

On the other hand, there has been a tendency for the entries of students from the engineering and building trades to increase, especially in the last four or five years, partly due to increased activity in these trades, but largely also to the operation of Apprenticeship Committees under the Apprentices Act, 1923.

The changes which have taken place in the work of the technical schools have thus been in the direction of making the training of boys for industrial occupations much more prominent, with a corresponding reduction in the attention given to general and continuation work, and to classes for amateurs.

TABLE B.—STUDENTS IN TECHNICAL CLASSES: NUMBERS ATTENDING FROM CERTAIN GROUPS OF OCCUPATIONS.

Year.	Commercial, &c.						Engineering and Building.						Total, Industrial and Commercial.	Professional.
	Clerical.	Shop and Warehouse.	Dressmaking, Millinery, &c.	Tailors and Tailoresses.	Printers, &c.	Total.	Engineers and Mechanics.	Electricians.	Plumbers and Metalworkers.	Woodworkers.	Painters and Plasterers, &c.	Total.		
1913 ..	1,752	1,144	230	84	151	3,361	638	238	601	535	162	2,174	5,535	2,880
1914 ..	1,874	1,187	267	118	170	3,616	644	228	622	521	136	2,151	5,767	2,820
1915 ..	1,996	1,307	241	100	176	3,820	699	214	441	454	126	1,934	5,754	3,285
1916 ..	2,207	1,422	262	127	147	4,165	745	248	377	384	117	1,871	6,036	2,382
1917 ..	2,382	1,373	249	102	176	4,282	784	261	351	315	124	1,835	6,117	3,294
1918 ..	2,173	1,295	227	68	151	3,914	826	316	290	289	101	1,822	5,736	2,684
1919 ..	1,911	1,295	227	102	130	3,665	961	278	362	346	109	2,056	5,721	2,754
1920 ..	2,146	1,300	245	85	119	3,895	876	476	546	506	79	2,483	6,278	2,997
1921 ..	2,214	1,042	240	131	130	3,757	900	408	577	539	107	2,531	6,288	1,134
1922 ..	1,957	1,203	264	86	79	3,589	701	359	511	428	186	2,185	5,774	872
1923 ..	1,972	858	135	83	83	3,131	754	420	634	519	69	2,396	5,527	1,002
1924 ..	2,209	966	168	81	110	3,534	757	446	667	713	103	2,686	6,220	1,187
1925 ..	2,183	928	125	78	125	3,439	757	428	847	827	155	3,014	6,453	858
1926 ..	2,513	1,016		197	147	3,873	812	488	811	905	190	3,206	7,079	800
1927 ..	2,573	1,063		198	188	4,022	979	444	828	971	193	3,415	7,437	676
1928 ..	2,253	1,090		154	175	3,672	912	375	740	825	218	3,070	6,742	650

NOTE.—The 1928 figures show roll at the 30th June, 1928; not total enrolments, as for previous years.

There are no special changes to report in connection with the staffing of technical classes, the quality and character of the instruction, and the provision of buildings, furniture, and equipment. The remarks in our report last year on these matters apply equally to the year now under review.

II. TECHNICAL HIGH SCHOOLS AND TECHNICAL DAY SCHOOLS.

ATTENDANCE.

The enrolment at technical high schools and technical day schools of full-time pupils taking courses under the Regulations for Manual and Technical Instruction was 7,214 at the 30th June, 1928, as compared with 6,720 at the corresponding date in the previous year. The enrolment of 7,214 included 3,930 boys and 3,284 girls.

Of the boys 2,034 took industrial courses, 359 agriculture, 759 commercial work, 676 a general course, and 102 an art course, all numbers being higher than for the previous year. Of the girls, 1,019 took the domestic course, 1,778 the commercial, 238 the general, and 249 the art course—higher numbers than for the previous year in the domestic and art courses, but slightly lower in the commercial and general courses.

STAFFING.

The full-time staff of the technical schools, including technical day schools and technical high schools, increased from 295 for 1927 to 305 for 1928, and the proportion of teachers with qualifications at least equivalent to the diploma of a University college increased from 55·6 per cent. to 57·8 per cent., the average salary being also slightly greater than in 1927. In 1920 the proportion of teachers with the higher qualifications was 41·6 per cent., so that a very marked improvement has taken place in the last eight years in the academic and professional qualifications of the teachers.

BUILDINGS AND EQUIPMENT.

Buildings and equipment have been maintained in good order and condition during the year, and some necessary additions have been made. The question as to how to provide for the large numbers enrolling in the four main centres must soon become very urgent, and the establishment of subsidiary schools in these centres has been discussed, but cannot be finally determined until the general policy in regard to post-primary education has been settled.

CHARACTER AND QUALITY OF THE INSTRUCTION.

In the main the teaching in the technical high schools and technical day schools is effective for its purpose, which is to provide the pupil with an all-round preparation for entering on some specific occupation. The tendency noted in our report last year for teachers to rely too much on tradition and too little on active investigation by the pupils themselves is not peculiar to technical high schools, but is peculiarly dangerous to the type of education which they should provide—a type that should have a particularly direct and intimate connection with and bearing on the life and industries of the people.

When inspecting the work of the teachers we too often find that men and women with good practical experience and a wide knowledge of industrial conditions are content, when they become teachers, gradually to lose contact with industry and to immerse themselves more and more in a formal and academic treatment of subjects in which in their earlier days they have shown a vital interest and a fecund knowledge, both intensely stimulating to the young student, and infinitely more effective educationally than mere pedagogical skill applied in the inculcation of ideas put forward by the teacher with the contemptuous ease of practised familiarity, and often, therefore, regarded by the pupils simply as pawns in a useless game.

The following tables give some particulars of certain courses in technical high schools, the periods quoted being those actually given in certain schools, it being impossible to show what, on the average, is the time devoted to each subject in each course.

The courses shown in Table C for schools A and B are those provided in large technical schools in the main centres for pupils who, though interested in engineering or industrial subjects, wish to matriculate in order to go on to the University to take higher courses leading to their chosen profession.

The course shown in Table C for school C is a general course as given for pupils in a technical high school in a country district where there is no other post-primary school. It necessarily approximates more closely to the general or professional course of the ordinary secondary school, all the boys, however, studying agriculture in all the years, and all the girls home science.

In Table D details are given of courses in several types of technical schools for boys preparing for apprenticeship in the various engineering trades. Schools A and B are large city schools, C and E schools in centres of intermediate size, and D is a school in a small country town. The courses are therefore thoroughly representative of the work done in technical high schools, and it will be seen that satisfactory provision is made for the general subjects—English, history and civics, mathematics, science, and drawing—while, in addition, a treatment is included of special subjects occupying about one-third of the time, and in all cases including applications of science and drawing to simple problems in the theory and practice of the mechanical trades.

In Table E similar details are given in regard to technical-high-school courses for boys intending to become builders or building tradesmen. Schools A, B, D are large city schools, while C is a school in a thriving country town.

In Table F agricultural courses are shown for four schools, A being a rural technical high school specializing in agriculture, though offering also a general course for boys and girls, a commercial course, and a domestic course for girls. In this school the prescriptions followed in the several branches of agricultural instruction are highly specialized, very practical, and well illustrated by work on the school farm, which is sufficiently large to enable practical work in animal husbandry to be done and observed, as well as the ordinary operations of cropping and agriculture. There is no set time for work on the farm, except for such routine operations as are carried on by the boys outside ordinary school hours. A large part of the class-work in animal husbandry and agriculture is conducted in the field, but the boys do not, in general, spend short periods of school-time in actual farm operations. One or two boys at a time may have a day off school to work on the farm, with the instructor or with the farm-manager. By adopting suitable class-room methods this can be done without interfering with the progress of the pupils in their classes. The work of the laboratory and class-room is in this way very closely interwoven with the field-work.

In school B, also in a country district, all the boys take some agricultural science, but some take more practical work in the first two years, though after the second year the course is directed towards satisfying the requirements of the Matriculation Examination, as indicated in Table C for school C.

In school C, Table F, which is a large city school, excellent laboratories and workshops are available, but the school lacks facilities for practical agriculture and field-work. The course is, however, attended largely by boys living on small farms in the suburban areas.

School D, in a country town in the centre of a dairying district, offers a two-years course, which is taken mainly by boys coming in from the surrounding dairy-farms. The school has no farm, and is unable, therefore, to deal adequately with subjects easily provided for in school A of Table F. The course, however, is very practical, and is becoming very popular with the sons of dairy-farmers. What the school sets out to do in this course is to give the boys some instruction in dairy science and in farm book-keeping, and some training in woodwork and metalwork. It differs from school C mainly in that it does not give any instruction in agriculture.

For boys living on farms, and able, therefore, to correlate their school-work with their farming experience the courses in schools B, C, and D possess considerable value, and are certainly preferable for many of these boys to a more general type of education. For the town boy who wishes to become a farmer the most suitable course is that offered by school A, which provides in its hostel and on its farm a thorough going farm atmosphere, and in its specialized courses very practical instruction, demonstrated on the farm itself, in the application of science to agriculture and husbandry.

TABLE C.—TECHNICAL HIGH SCHOOLS: GENERAL COURSE LEADING TO MATRICULATION AND ENGINEERING PRELIMINARY.

School	A.			B.			C.				
Year of course	1.	2.	3 and 4.	1.	2.	3 and 4.	1.	2.	3.	4.	5.
SUBJECTS.	Hours per Week	Hours per Week	Hours per Week	Hours per Week	Hours per Week	Hours per Week	Hours per Week	Hours per Week	Hours per Week	Hours per Week	Hours per Week
English	4.75	3.5	4.5	3.75	3.75	5.25	3.5	4.5	4.5	6.0	4.5
History and civics	1.5	2.75	3.75	2.25	2.25	..	1.5	2.5	3.0	1.25	3.5
Geography .. .. .	..	..	..	..	..	..	1.25	1.5	1.5	1.5	..
French	5.0	3.5	3.5	3.75	3.75	4.5	3.5	3.5	4.5	4.25	3.75
Latin .. .. .	..	..	..	..	..	..	3.0	3.75	..	3.0	1.75
Arithmetic	2.75	2.5	2.5	0.75	2.25	1.5	} 4.5	5.5	5.5	4.75	6.5
Algebra	2.75	2.5	2.75	3.0	2.25	2.0					
Geometry	1.25	1.5	2.5	3.0	2.25	2.0					
Trigonometry.. .. .	..	..	..	..	..	2.0					
Science .. .. .	..	..	..	..	..	..	2.5	2.0	0.75	2.5	..
Physics	2.75	2.5	4.5	4.5	4.5	4.5	..	..	..	..	2.0
Agriculture (boys) .. .. .	..	..	..	..	..	..	2.25	2.5	2.0	3.0	2.75
Home Science (girls) .. .. .	..	..	..	..	..	..	2.25	2.5	2.0	3.0	2.75
Drawing—											
Free .. .. .	..	..	..	0.75	0.75	0.75	1.5	1.5	2.5	1.5	1.25
Instrumental	2.75	2.5	3.0	0.75	0.75	1.5	..	..	..	..	..
Applied design .. .. .	..	1.5	..	..	..	..	..	..	..	..	..
Cookery (girls) .. .. .	..	..	..	..	..	..	1.5	..	..	..	..
Woodwork (boys) .. .. .	..	..	..	..	..	..	1.5	..	..	..	..
Metalwork	3.0	3.75	..	1.5	1.5	..	..	..	..	..	..
Handwork (boys) .. .. .	..	..	..	..	..	..	..	..	1.5	..	..
Hygiene (girls) .. .. .	..	..	..	..	..	..	..	..	1.5	..	..
Drill	2.0	2.0	1.5	2.0	2.0	2.0	..	..	..	..	..
Sports and games .. .. .	..	..	..	2.25	2.25	2.25	..	..	..	..	..
Totals, school week	28.5	28.5	28.5	28.25	28.25	28.25	..	..	..	..	..

TABLE D.—TECHNICAL HIGH SCHOOLS: INDUSTRIAL COURSE PREPARATORY TO APPRENTICESHIP IN MECHANICAL OR MOTOR ENGINEERING.

School	A.			B.			C.			D.		E.		
Year of course	1.	2.	3.	1.	2.	3.	1.	2.	3.	1.	2 and 3	1.	2.	3 and 4.
SUBJECTS.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.
English	5-25	3-5	3-0	2-25	3-0	2-5	5-5	3-8	4-6	3-75	3-75	4-75	4-0	2-0
History and civics	1-5	0-75	1-5	2-25	1-5	1-0	2-0	1-8	2-0	3-0	2-25	2-0	2-75	..
Geography .. .. .	..	..	..	..	..	1-0	..	..	..	..	..	..	..	..
Arithmetic	2-0	0-75	..	0-75	1-5	1-5	..	1-6	1-8	1-5	1-5	2-75	3-0	..
Algebra	1-5	..	..	3-25	2-25	1-5	1-6	1-8	1-6	..	..	2-0	2-0	} 3-75
Geometry	1-5	..	..	2-0	2-25	1-5	..	2-0	1-8	..	..	2-0	2-0	
Practical mathematics .. .. .	..	3-75	4-25	..	..	3-0	3-8	..	..	4-5	4-5	..	..	..
Mechanics .. .. .	..	2-13	2-25	..	..	..	..	2-0	1-6	..	..	..	..	2-45
Science—														
Physical science	5-0	..	..	4-5	4-5	4-5	3-0	1-6	..	3-0	3-0	2-5	3-75	..
Chemistry .. .. .	..	2-13	..	..	..	..	..	..	..	..	..	..	..	..
Electricity .. .. .	..	..	..	..	..	..	..	1-6	..	..	..	..	..	2-0
Drawing—														
Free .. .. .	..	..	..	..	..	..	..	..	..	..	..	1-5	..	..
Instrumental	3-0	3-75	2-5	4-5	3-0	..	..	..	2-0	3-0	4-5	2-5	3-3	5-0
Applied design and crafts .. .. .	..	..	..	..	..	..	3-8	4-5	1-8	..	..	..	..	..
Woodwork—Workshop practice .. .. .	..	..	..	..	..	..	..	..	..	2-25	..	2-0	..	..
Metalwork—Theory and practice	5-25	3-0	8-0	4-5	4-5	7-5	5-0	4-0	5-8	3-0	4-5	4-5	4-7	11-3
Workshop processes .. .. .	..	1-25	..	..	1-5	..	..	..	..	..	..	..	..	..
Steam .. .. .	..	1-5	1-5	} ..	..	..	..	..	..	..	1-5	..	1-0	..
Motors .. .. .	..	1-25	1-25		..	..	..	..	..	..	..	..	..	..
Technical electricity .. .. .	..	2-75	2-25	..	..	..	..	..	1-6	..	..	..	..	..
Book-keeping	1-5	..	..	..	..	..	..	..	..	1-5	..	..	..	..
Drill	2-0	2-0	2-0	2-0	2-0	2-0	2-5	2-5	2-5	2-0	2-0	1-0	1-0	1-0
Games and sports .. .. .	..	..	..	2-25	2-25	2-25	..	..	..	..	..	1-5	1-5	1-5
Totals, school week	28-5	28-5	28-5	28-25	28-25	28-25	27-5	27-5	27-5	27-5	27-5	29-0	29-0	29-0

TABLE E.—BUILDING-TRADES COURSE IN TECHNICAL HIGH SCHOOLS.

School	A.		B.						C.			D.		
Year of course	1.	2.	1.	1.	1.	2.	2.	3.	1.	2.	3.	1.	2.	3.
SUBJECTS.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.
English	4-5	3-5	5-25	4-75	4-0	4-0	4-5	1-25	6-6	3-8	4-6	3-0	3-75	2-5
History and civics	1-0	2-0	1-25	1-25	1-25	2-25	1-5	..	2-0	1-8	2-0	3-0	2-25	1-0
Geography .. .. .	..	..	1-5	1-25	1-5	..	..	..	..	..	..	..	..	1-0
Mathematics—														
Arithmetic .. .. .	..	..	..	2-75	2-5	..	..	..	..	1-8	1-8	1-5	1-5	..
Algebra .. .. .	..	5-5	1-25	2-75	4-25	3-0	2-5	1-25	1-6	1-6	1-6	..	..	..
Geometry .. .. .	..	..	..	..	..	..	..	..	..	2-0	1-8	..	..	..
Practical mathematics	5-5	..	4-0	..	..	..	1-25	..	2-6	..	..	4-5	4-5	..
Trigonometry .. .. .	..	..	..	..	..	1-5	..	1-5	..	..	..	..	..	..
Science—Physical	3-5	..	1-5	1-5	1-5	..	..	..	2-6	1-8	..	..	..	..
Mechanics .. .. .	..	3-0	..	..	..	1-5	1-25	2-75	..	1-0	0-8	3-0	3-0	3-0
Chemistry .. .. .	..	..	..	..	..	1-5	1-25	..	..	..	..	..	..	..
Electricity .. .. .	..	..	..	..	..	..	..	..	..	1-6	..	..	..	..
Technical electricity .. .. .	..	..	..	..	..	..	..	..	..	..	1-6	..	..	..
Drawing—														
Free, and workshop sketching	2-5	3-0	..	..	1-5	..	..	..	0-8	..	..	..	..	..
Instrumental and geometry	1-5	..	1-25	1-5	1-25	1-25	1-25	..	0-8	2-6	3-0	1-5	1-5	1-5
Building construction .. .. .	..	1-5	..	..	..	..	2-5	3-75	..	..	..	..	..	..
Drawing and principles of carpentry .. .. .	..	..	..	..	4-0	5-0	1-5	3-0	..	..	..	..	..	7-5
Design and crafts	1-5	1-5	1-25	3-0	..	..	..	..	1-6	..	2-6	..	..	1-5
Woodwork	2-0	4-0	5-5	4-0	3-5	5-0	7-5	13-0	5-0	4-8	3-0	7-5	7-5	6-0
Metalwork	2-0	..	2-5	2-5	..	1-5	1-5	..	1-0	1-8	..	..	..	..
Book-keeping .. .. .	..	..	1-25	1-25	1-25	..	..	..	..	1-8	..	..	..	..
Drill	2-0	2-0	2-0	2-0	2-0	2-0	2-0	2-0	2-5	2-5	2-5	2-0	2-0	2-0
Games, &c. .. .. .	..	..	..	..	..	..	..	..	0-4	0-4	0-4	2-25	2-25	2-25
Totals, school week	26-0	26-0	28-5	28-5	28-5	28-5	28-5	28-5	27-5	27-5	27-5	28-25	28-25	28-25

TABLE F.—AGRICULTURAL COURSES IN TECHNICAL HIGH SCHOOLS.

School	A.			B.			C.			D.		
Year of course	1.	2.	3.	1.	2.	3.	1.	2.	3.	1.	2.	3.
SUBJECTS.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.	Hours per Week.
English	3.75	5.0	3.75	3.75	3.0	..	3.5	3.0	3.0	5.8	4.8	..
History and civics	1.5	1.5		1.5	1.25	..	2.5	3.0	3.0	2.0	1.8	..
French .. .. .	..	..	..	3.0	3.5	..	..	..	..	..	..	..
Geography	0.75	..	..	1.5	..	..	..	..	..	..	..	..
Geography—Agricultural .. .. .	..	..	..	..	..	..	..	..	..	..	0.8	..
Economics .. .. .	..	..	0.75	..	..	..	..	..	..	..	..	..
Book-keeping	1.5	1.75	1.0	2.25	2.25	..	3.0	3.0	3.0	1.8	2.0	..
Book-keeping—Farm .. .. .	..	..	..	..	..	..	..	..	..	..	..	..
Arithmetic	2.0	2.0	..	..	..	..	3.0	3.0	3.0	..	..	..
Algebra .. .. .	..	..	..	..	..	..	..	..	..	..	..	..
Mathematics .. .. .	..	..	..	4.5	4.25	..	..	..	..	..	..	..
Practical mathematics .. .. .	..	..	..	..	..	..	..	..	..	4.2	3.2	..
Drawing and mensuration	2.0	..	..	..	..	..	..	..	..	..	..	..
Drawing .. .. .	..	..	..	1.5	1.5	..	..	..	..	1.6	1.8	..
Science .. .. .	..	..	..	2.25	2.75	..	..	..	..	..	..	..
Physical science	4.0	..	..	..	..	..	..	..	..	2.6	1.8	..
Biology	1.5	..	..	..	..	..	..	..	..	..	..	..
Biology and zoology .. .. .	..	2.25	..	..	..	..	..	..	..	..	..	..
Zoology .. .. .	..	..	0.75	..	..	..	..	..	..	..	..	..
Physiology	0.75	..	..	..	..	..	..	..	..	..	..	..
Agriculture and animal hus- bandry	5.25	..	..	..	..	..	..	..	..	..	..	..
Agriculture .. .. .	..	2.0	2.75	2.25	2.0	..	3.0	3.0	3.0	..	..	..
Agricultural chemistry .. .. .	..	..	1.0	..	..	..	..	..	..	..	..	..
Dairy science .. .. .	..	1.0	..	..	..	..	..	..	..	3.0	3.0	..
Dairy science and botany .. .. .	..	..	..	..	..	..	3.0	3.0	3.0	..	..	..
Agricultural botany .. .. .	..	2.0	4.0	..	..	..	..	..	..	..	..	..
Animal husbandry .. .. .	..	2.0	4.5	..	..	..	..	..	..	..	..	..
Veterinary hygiene .. .. .	..	1.5	1.0	..	..	..	..	..	..	..	..	..
Wool-classing .. .. .	..	2.0	2.5	..	..	..	..	..	..	..	..	..
Technical electricity .. .. .	..	..	..	..	..	..	..	..	..	..	1.6	..
Farm engineering .. .. .	..	..	..	..	..	..	..	..	..	..	..	..
Metal and wood work .. .. .	..	..	..	3.0	2.75	..	..	..	..	..	..	..
Metalwork .. .. .	..	..	..	..	..	..	3.0	3.0	3.0	2.0	1.6	..
Woodwork	1.5	1.25	..	..	..	..	3.0	3.0	3.0	1.6	2.0	..
Saddlery .. .. .	..	..	3.0	..	..	..	..	..	..	..	..	..
Physical drill .. .. .	..	..	..	..	..	..	2.0	2.0	2.0	2.5	2.5	..
Sports and games	1.0	1.0	1.0	..	..	..	2.25	2.25	2.25	0.4	0.4	..
Singing	0.75	0.75	..	..	..	..	..	..	..	..	..	..
Totals, school week	26.25	26.0	26.0	25.5	24.25	..	28.25	28.25	28.25	27.5	27.5	..

III. MANUAL TRAINING.

ATTENDANCE.

The number of pupils receiving instruction in woodwork, metalwork, and domestic subjects at special manual-training centres rose from 39,098 in 1927 to 44,265 in 1928. Of this total, 7,816 came from junior and senior high schools and district high schools, and 3,492 from private schools. In advanced nature-study and elementary agriculture, involving practical work in experimental plots, 45,313 pupils in the upper division (Standards IV to VII) of 1,939 schools received instruction under the supervision of itinerant instructors, who visited the schools in general at least once in each term. These instructors also supervise the science teaching in the upper division of forty schools, generally situated in the cities, where provision cannot be made for instruction in elementary agriculture; in such schools some 3,300 pupils took the general elementary science course. It is noteworthy that approximately half the total number of these schools are situated in the Wellington District.

STAFFING.

At the close of the year there were in the service of the several Education Boards 143 classified instructors in manual-training subjects, including twenty-three instructors supervising the teaching of advanced nature-study and elementary agriculture. Twenty per cent. of the men and 38 per cent. of the women specialists possessed University degrees or equivalent qualifications entitling them to be classified as Division I teachers.

At thirteen technical schools teachers of woodwork, metalwork, and domestic subjects devoted part of their time to the instruction of classes from neighbouring primary and secondary schools. The headmaster of an isolated district high school took the instruction of his own woodwork classes. Where no more suitable method is possible, resort is had to local part-time teachers, and of these four men and twenty-seven women were employed during the year, the latter number including instructors in needlework at country schools where there is no woman teacher on the staff.

There is usually little difficulty in filling vacancies in the ranks of woodwork instructors. The system whereby in two of the larger cities qualified assistants are trained under experienced teachers continues to work well, and in most cases these men receive first consideration in the making of appointments, but it is found that many men in the trade are desirous of taking up teaching service, and the range of choice is generally extensive. Suitable men for positions as teachers of metalwork are much more difficult to obtain. Losses through marriage and from other causes are frequent on the domestic-subjects side; early in the year university-trained applicants for positions are usually sufficiently numerous, but later on it is found that the supply of the best-qualified teachers is not fully sufficient for the demand. Two women student teachers were in training at manual centres during the year. The student-teacher system is not favoured by the Department unless there is some definite intention on the part of the entrants to pass on to a period of training in the trade or at the University before taking up positions as teachers.

For the Handicraft Teachers' Examination an increasing number of candidates, particularly from the ranks of the present instructors in woodwork and metalwork, are presenting themselves. At the August examination seven candidates secured a pass or a partial pass in two of the three sections, two passed in the first section, and one completed the examination and was awarded the certificate. One of the candidates was specially mentioned for his work in chemistry.

BUILDINGS AND EQUIPMENT.

The only additional manual-training centre established during the year was that at Opunake; but new woodwork and cookery rooms were completed and brought into use at Foxton centre, and a woodwork-room at Mount Cook (Wellington) centre. Grants were authorized for new buildings and improvements in various quarters, and in some instances the necessary work was commenced. Thus provision was made for new centres at Ruawai, Newton East (Auckland City), Piopio, Featherston, Winton, and Wyndham; new buildings at Tauranga; the transfer of the practical rooms at Rotorua to the grounds of the junior high school; the leasing and equipment of woodwork and cookery rooms at Cromwell and Roxburgh; the erection of cookery-rooms at Martinborough and Southbridge, and of an additional woodwork-room at New Plymouth Boys' High School; and additions and improvements to the Normal (Christchurch), Fairlie, and Gore centres. The new block at the Marlborough Junior High School, including practical rooms for woodwork, metalwork, and cookery, was carried so near to completion as to be ready for use at the opening of the following year. Generally speaking, the workrooms and equipment at manual-training centres have been kept in good repair. In some districts the Education Boards have made desirable improvements, particularly in the kitchens, where floor-covering has been laid, and new cooking-appliances and general utensils installed in addition to or in replacement of existing equipment. The regulation grants to cover incidental working-charges are sufficiently liberal to enable improvements of this nature to be made, and there can be no excuse for disrepair of any kind in either buildings or equipment. As far as the teachers are concerned, it is the exception to find any who do not give regular attention to that part of the equipment for the care of which they are directly responsible. In some instances the janitors scrub the cookery-room floors neither sufficiently often nor sufficiently well.

Increasing use is being made of the woodwork, metalwork, and cookery rooms of technical schools where such can be spared for the accommodation of manual classes for which no room can be found at the ordinary centres. In this way provision is made not only for the overflow from the State primary schools, but also for classes from large private schools, and even for classes from secondary schools.

CHARACTER AND QUALITY OF INSTRUCTION.

Under the present system of central manual-training centres the special teachers of woodwork, metalwork, and domestic subjects are for the most part isolated, and they are therefore at some disadvantage with respect to a proper correlation with the general work of the schools from which their classes are drawn. In view of such a disadvantage it is surprising to find how few are the exceptions to a very high standard of keenness in work and faithfulness to duty. Practical education of the kind undertaken at the centres has a very strong natural appeal for the pupils, and it is largely due to the high enthusiasm displayed by the children that the teachers maintain a corresponding interest in work which might otherwise become distasteful because of its monotony. Moreover, there is some indication that the teachers are gaining a wider conception of the value of their subjects with respect to the influence of the training upon the general education of the child; unfortunately, however, the conditions, particularly the factor of separation, are not favourable to a full development in this direction, but it is hoped that the definite directions laid down in the Department's new syllabus with regard to co-operation along certain lines will serve to bring the specialist instructor into closer touch with the general staff. In the past the conduct of the work at the centre has been too formal in its nature, and too limited in its scope, with a tendency to follow trade procedure rather than to consider the special educational possibilities. When the ideal arrangement is realized, and every school of any considerable size has its own practical room, and perhaps its "literary morning and manual afternoon," the specialist teacher, as a member of the staff, will be much better placed. In our junior high schools the conditions have moved towards the ideal, for there the specialist is one of the staff, a fair allowance of time is given to the practical side, and suitable articulation is arranged for. The attention given to manual training in high schools continues to increase, but it is found that the necessity for allocating sufficiently long periods to practical work has not always been fully understood; in general, the pupils should be given at least two hours for any one practical lesson, and if manual work is to be considered of any importance at all it should at least be worth the slight inconvenience caused by some little dislocation of the time-table.

HANDWORK AND MANUAL TRAINING IN THE SCHOOLS.

The practical work in elementary agriculture, dairy science, and general science taken by the higher classes of primary and district high schools is for general purposes designated manual training. It is conducted under the supervision of itinerant agricultural instructors in the employ of the Education Boards. In 1928, as in the previous year, there were twenty-three instructors, distributed throughout the education districts as follows: Auckland, 4; Taranaki, 3; Wanganui, 3; Hawke's Bay, 2; Wellington, 3; Nelson, 1; Canterbury, 3; Otago, 3; Southland, 1. The supervising instructors give particular attention to the secondary departments of district high schools, and in a more general way direct the work on their side in the higher classes of the primary schools. In some districts they are required also to assist the teachers of lower classes with respect to nature-study generally. Their advice is eagerly sought by teachers and School Committees in laying out or making improvements in the school-grounds. Under the guidance of some of the instructors forestry on a comparatively large scale is becoming an important feature in connection with the work of their schools; and the majority take a large share in organizing and directing such out-of-school activities as those connected with home-garden and calf-rearing competitions, and boys' and girls' agricultural-club work.

For the purposes of handwork-training taken by classes which do not attend manual-training centres the Department continues to supply material to the Boards for distribution to the schools. The total cost for the year, including all incidental charges, was approximately £10,400. Included in this amount is the cost of a special supply for use in preparatory classes, where handwork now takes a predominant place as an instrument of general education. Experimental investigations are being made with a view to ascertaining to what extent light woodwork might be taken with advantage as a desk occupation in small country schools that are not within reach of manual-training centres. The proposal is to issue a small set of tools and workboards to selected teachers considered capable of handling this branch of handwork with sufficient skill to make it a valuable addition to the teaching-aids employed in developing both manual ability and intellectual acuity, but no definite steps will be taken until the investigations now in progress have been completed.

In the special classes established for the better handling of retarded children manual activity is the main foundation upon which such education as is possible is based. For the use of these classes various kinds of equipment have been provided, and year by year supplies of suitable material are sent out. Such of the older pupils as are considered capable of attempting advanced work attend manual-training centres, if these should be within convenient reach.

3. DETAILED TABLES RELATING TO MANUAL AND TECHNICAL INSTRUCTION.

SECTION A.—FULL-TIME PUPILS.

TABLE J 1.—AVERAGE ATTENDANCE, ROLL NUMBERS, AND NUMBER OF GOVERNMENT FREE-PLACE HOLDERS AND PUPILS LIVING AWAY FROM HOME.

School.	Roll Numbers.				Average Attendance for 1928.	Number of 1927 Pupils on Roll at beginning of 1928.	Number of New Pupils admitted during 1928.	Number of New Pupils who commenced their Secondary Education in 1928.	Number of Free Pupils on Roll at 30th June, 1928.			Number of Pupils living away from Home to attend School.	
	At 1st March, 1928.	At 30th June, 1928.	At End of 1928.	Total Enrolments for 1928.					Junior.	Senior.	Total.	Boarding at School Hostels.	Boarding elsewhere.
Auckland Technical School ..	993	1,008	803	1,008	974	435	573	561	896	101	997	..	41
Elam School of Art ..	52	65	51	74	42	34	40	25	22	15	37	..	1
Hamilton Technical School ..	361	322	265	373	291	160	213	196	282	36	318	..	22
Pukekohe Technical School ..	251	235	205	258	213	137	121	112	179	47	226	..	9
New Plymouth Technical School*	..	..	..	..	..	..	..	..	..	..	..	..	..
Hawera Technical School ..	331	318	269	346	246	200	146	132	216	91	307	3	7
Stratford Technical School ..	291	275	226	296	255	183	113	112	176	95	271	..	26
Wanganui Technical School ..	578	553	494	601	506	315	286	258	404	124	528	72	20
Feilding Technical School ..	197	195	169	208	178	118	90	83	129	58	187	42	..
Palmerston North Technical School	283	266	195	297	223	85	212	177	232	25	257	2	7
Napier Technical School ..	255	265	268	268	216	115	153	146	217	36	253	..	8
Masterton Technical School ..	138	125	94	146	106	65	81	75	102	23	125	..	6
Wellington Technical School ..	784	694	552	833	630	347	486	455	601	79	680	..	7
Nelson Technical School ..	44	41	35	44	29	26	18	16	31	10	41	..	2
Westport Technical School ..	138	124	106	143	113	101	42	37	91	29	120	..	6
Greymouth Technical School ..	264	247	233	275	230	152	123	110	171	73	244	19	4
Christchurch Technical School	1,002	931	816	1,028	855	504	524	491	779	139	918	47	22
Canterbury College School of Art	161	170	146	170	150	78	92	75	109	21	130	..	9
Ashburton Technical School ..	171	173	156	186	141	62	124	118	150	23	173	..	7
Timaru Technical School ..	123	115	100	130	104	58	72	66	101	12	113	..	3
Dunedin Technical School ..	588	622	438	630	505	303	327	321	507	94	601	..	17
Invercargill Technical School ..	488	470	440	503	412	219	284	283	410	56	466	..	27
Totals	7,493	7,214	6,061	7,817	6,419	3,697	4,120	3,849	5,805	1,187	6,992	185	251

* Included in secondary-school returns.

TABLE J 2.—CLASSIFICATION OF PUPILS ON THE ROLL AT 30TH JUNE, 1928, ACCORDING TO YEAR OF ATTENDANCE.

School.	First Year.		Second Year.		Third Year.		Fourth Year.		Fifth Year.		Sixth Year.		Totals.		Grand Totals.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Auckland Technical School ..	305	296	168	134	42	43	13	6	1	..	..	..	529	479	1,008
Elam School of Art ..	5	26	1	11	4	8	1	3	..	5	..	1	11	54	65
Hamilton Technical School ..	105	84	57	36	19	10	6	5	..	..	..	..	187	135	322
Pukekohe Technical School ..	63	47	43	28	11	19	10	4	8	2	..	..	135	100	235
New Plymouth Technical School*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hawera Technical School ..	70	54	41	55	32	24	18	18	3	3	..	..	164	154	318
Stratford Technical School ..	67	43	32	35	31	26	15	17	2	7	..	..	147	128	275
Wanganui Technical School ..	158	87	123	47	51	28	25	12	13	1	6	2	376	177	553
Feilding Technical School ..	49	33	30	23	16	16	12	11	2	3	..	..	109	86	195
Palmerston North Technical School	55	116	35	35	4	15	1	3	..	2	..	..	95	171	266
Napier Technical School ..	90	54	41	39	21	10	5	..	3	2	..	..	160	105	265
Masterton Technical School ..	36	33	16	16	8	10	1	5	..	..	..	..	61	64	125
Wellington Technical School ..	263	137	117	91	42	29	7	7	1	..	..	..	430	264	694
Nelson Technical School ..	6	9	10	6	4	1	..	3	1	1	..	..	21	20	41
Westport Technical School ..	18	22	31	21	11	7	6	4	1	2	..	1	67	57	124
Greymouth Technical School ..	65	44	43	32	22	12	13	10	2	4	..	..	145	102	247
Christchurch Technical School ..	283	201	185	116	62	43	15	14	8	4	..	..	553	378	931
Canterbury College School of Art	17	75	8	35	5	15	..	7	..	2	..	6	30	140	170
Ashburton Technical School ..	46	61	20	23	5	12	1	4	..	1	..	..	72	101	173
Timaru Technical School ..	34	22	24	23	2	7	1	2	..	..	..	..	61	54	115
Dunedin Technical School ..	171	150	106	93	37	33	6	22	2	2	..	..	322	300	622
Invercargill Technical School ..	151	123	71	67	26	19	3	5	3	1	1	..	255	215	470
Totals	2,057	1,717	1,202	966	455	387	159	162	50	42	7	10	3,930	3,284	7,214

* Included in secondary-school returns.

SECTION A.—FULL-TIME PUPILS—continued.

TABLE J 3.—CLASSIFICATION OF PUPILS ON THE ROLL AT 30TH JUNE, 1928, ACCORDING TO COURSES OF INSTRUCTION.

School.	Industrial.		Agricultural.		Domestic.		Commercial.		General.		Art.		Totals.		Grand Totals.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Auckland Technical School	279	..	33	..	..	190	122	281	95	8	..	..	529	479	1,008
Elam School of Art .. ..	..	..	..	..	..	..	..	..	..	..	11	54	11	54	65
Hamilton Technical School	116	..	27	..	..	42	44	93	..	..	..	..	187	135	322
Pukekohe Technical School	34	..	9	..	..	15	26	46	66	39	..	..	135	100	235
New Plymouth Technical School*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hawera Technical School	44	..	14	..	..	26	43	76	63	52	..	..	164	154	318
Stratford Technical School	22	..	72	..	..	48	12	40	41	40	..	..	147	128	275
Wanganui Technical School	74	..	29	..	..	35	68	107	205	35	..	..	376	177	553
Feilding Technical School .. ..	..	..	48	..	..	48	..	38	61	..	..	..	109	86	195
Palmerston North Technical School ..	87	..	..	..	..	73	8	87	..	..	..	11	95	171	266
Napier Technical School	76	..	20	..	..	25	51	78	9	..	4	2	160	105	265
Masterton Technical School	50	..	..	..	..	22	11	42	..	..	..	..	61	64	125
Wellington Technical School	303	..	..	..	..	55	55	185	25	6	47	18	430	264	694
Nelson Technical School	21	..	..	..	..	7	..	11	..	2	..	..	21	20	41
Westport Technical School	17	..	..	..	..	..	20	29	30	28	..	..	67	57	124
Greymouth Technical School	55	..	..	..	..	15	9	60	81	27	..	..	145	102	247
Christchurch Technical School	370	..	58	..	..	144	125	234	..	..	..	..	553	378	931
Canterbury College School of Art ..	..	..	..	..	..	..	..	..	..	..	30	140	30	140	170
Ashburton Technical School	43	..	21	..	..	46	8	54	..	1	..	..	72	101	173
Timaru Technical School	50	..	..	..	..	18	11	36	..	..	..	..	61	54	115
Dunedin Technical School	237	..	..	..	..	91	79	187	..	..	6	22	322	300	622
Invercargill Technical School	156	..	28	..	..	119	67	94	..	..	4	2	255	215	470
Totals	2,034	..	359	..	..	1,019	759	1,778	676	238	102	249	3,930	3,284	7,214

* Included in secondary-school returns.

TABLE J 4.—NUMBER OF PUPILS WHO COMMENCED THEIR POST-PRIMARY EDUCATION IN 1928, ACCORDING TO AGE AT DATE OF ADMISSION.

School.			Ages.										
			Under Thirteen Years.		Thirteen Years.		Fourteen Years.		Fifteen Years and Over.		Totals.		Grand Totals.
			Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Auckland Technical School	49	55	123	137	93	69	19	16	284	277	561		
Elam School of Art .. ..	..	..	2	2	1	8	1	11	4	21	25
Hamilton Technical School	12	14	41	40	38	22	18	11	109	87	196		
Pukekohe Technical School	3	3	18	9	28	26	14	11	63	49	112		
New Plymouth Technical School*	..	..	..	..	..	..	..	..	..	..	..
Hawera Technical School	10	12	28	18	26	20	10	8	74	58	132		
Stratford Technical School	7	13	32	14	24	16	4	2	67	45	112		
Wanganui Technical School	33	13	71	49	46	20	17	9	167	91	258		
Feilding Technical School	14	3	20	17	11	9	5	4	50	33	83		
Palmerston North Technical School ..	4	10	29	42	13	43	10	26	56	121	177		
Napier Technical School	10	4	31	22	37	23	12	7	90	56	146		
Masterton Technical School	1	5	14	11	19	11	8	6	42	33	75		
Wellington Technical School	24	35	112	88	102	52	32	10	270	185	455		
Nelson Technical School	1	1	2	5	3	3	..	1	6	10	16		
Westport Technical School	6	8	6	9	2	3	1	2	15	22	37		
Greymouth Technical School	7	6	30	18	25	18	3	3	65	45	110		
Christchurch Technical School	35	31	118	90	95	65	40	17	288	203	491		
Canterbury College School of Art ..	..	8	5	24	7	21	1	9	13	62	75	
Ashburton Technical School	3	4	17	22	21	35	9	7	50	68	118		
Timaru Technical School	1	1	8	8	20	12	12	4	41	25	66		
Dunedin Technical School	31	26	72	74	61	41	7	9	171	150	321		
Invercargill Technical School	19	21	72	56	51	40	14	10	156	127	283		
Totals	270	273	851	755	723	557	237	183	2,081	1,768	3,849		

* Included in secondary-school returns.

SECTION A.—FULL-TIME PUPILS—*continued*.
TABLE J 5.—CLASSIFICATION OF PUPILS ON ROLL AT 30TH JUNE, 1928, ACCORDING TO AGES.

School.	Under Thirteen Years.		Thirteen Years.		Fourteen Years.		Fifteen Years.		Sixteen Years.		Seventeen Years.		Eighteen Years and over.		Totals.		Grand Totals.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Auckland Technical School ..	10	18	107	111	215	175	148	133	36	32	10	7	3	3	529	479	1,008
Elam School of Art ..	..	..	2	2	1	8	2	10	2	8	1	7	3	19	11	54	65
Hamilton Technical School ..	3	2	33	39	68	38	53	35	23	15	6	4	2	1	187	135	322
Pukekohe Technical School ..	3	3	19	13	40	36	34	28	20	10	16	9	3	1	135	100	235
New Plymouth Technical School*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hawera Technical School ..	11	12	31	27	33	46	43	31	30	27	11	6	..	5	164	154	318
Stratford Technical School ..	5	4	22	22	56	28	29	34	22	22	13	9	..	9	147	128	275
Wanganui Technical School ..	12	5	68	38	121	57	82	38	50	21	31	14	12	4	376	177	553
Feilding Technical School ..	6	1	24	11	30	28	23	20	15	16	6	8	5	2	109	86	195
Palmerston North Technical School ..	4	11	27	45	29	48	27	43	6	14	1	10	1	..	95	171	266
Napier Technical School ..	9	5	33	23	54	38	41	27	15	8	6	4	2	..	160	105	265
Masterton Technical School ..	..	2	11	7	24	22	16	18	9	10	1	5	..	..	61	64	125
Wellington Technical School ..	12	11	72	58	179	106	123	62	34	22	8	5	2	..	430	264	694
Nelson Technical School ..	1	1	3	6	6	5	6	3	4	3	1	2	..	..	21	20	41
Westport Technical School ..	4	3	12	13	18	16	17	13	12	6	4	5	..	1	67	57	124
Greymouth Technical School ..	4	3	24	17	51	31	41	24	19	16	6	9	..	2	145	102	247
Christchurch Technical School ..	16	10	100	87	192	127	161	98	54	44	24	7	6	5	553	378	931
Canterbury College School of Art ..	..	8	7	30	9	36	7	23	..	16	1	7	6	20	30	140	170
Ashburton Technical School ..	..	..	12	9	22	42	24	23	11	20	3	5	..	2	72	101	173
Timaru Technical School ..	1	1	7	9	23	16	23	17	5	8	2	3	..	..	61	54	115
Dunedin Technical School ..	31	27	95	85	124	113	46	46	21	12	4	12	1	5	322	300	622
Invercargill Technical School ..	21	23	80	64	87	80	46	33	16	12	3	2	2	1	255	215	470
Totals ..	152	151	789	716	1,382	1,096	992	759	404	342	158	140	52	81	3,930	3,284	7,214

* Included in secondary-school returns.

SECTION A.—FULL-TIME DAY PUPILS—continued.

TABLE J 6.—DESTINATION OF FULL-TIME PUPILS WHO LEFT THE TECHNICAL HIGH OR DAY SCHOOL DURING OR AT THE END OF 1928.

School.	Continued Full-time at other Technical or Secondary Schools.		University College.		School Teaching or Training College.		Clerical.				Engineering, Surveying, and Architecture.		Various Trades and Industries.		Shop and Warehouse.		Farming.		Home.		Other occupations.		Not known.		Totals, Columns 2-14.							
	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)		(11)		(12)		(13)		(14)					
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.		
Auckland Technical School ..	11	12	..	..	..	..	4	13	1	1	..	..	56	31	27	..	76	5	31	40	19	1	9	103	1	15	74	75	282	300	
Elam School of Art ..	..	..	..	..	..	..	1	..	2	..	..	..	7	4	..	..	..	..	..	..	1	..	..	3	1	5	..	11	6	29	
Hamilton Technical School ..	6	5	..	..	..	..	..	..	1	..	..	..	16	5	..	..	32	4	10	8	38	1	..	5	..	..	1	2	97	72	
Pukekohe Technical School ..	8	10	..	2	..	..	..	2	..	..	1	..	9	3	1	..	4	..	5	1	33	..	..	23	1	..	1	..	58	38	
New Plymouth Technical School*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hawera Technical School ..	5	15	..	1	4	3	3	13	..	2	8	3	23
Stratford Technical School ..	3	2	..	..	..	..	..	8	2	1	..	..	4	..	..	..	11	..	9	3	20	..	1	33	1	2	3	1	60	52	..
Wanganui Technical School ..	16	6	6	2	..	..	..	15	3	7	..	3	18	13	2	..	16	1	17	9	25	..	8	41	3	..	15	4	131	84	..
Feilding Technical School ..	2	2	1	..	..	..	..	1	..	1	..	..	6	5	..	..	1	..	2	5	29	1	7	24	..	1	3	1	52	38	..
Palmerston North Technical School	..	3	..	..	..	..	..	2	..	..	..	..	3	2	..	..	8	..	7	4	11	..	..	37	4	2	8	1	42	47	..
Napier Technical School ..	2	..	..	..	..	..	..	3	..	1	..	..	..	4	4	..	19	..	17	5	9	..	1	31	..	..	17	2	76	52	..
Masterton Technical School ..	2	2	..	..	..	..	..	..	..	..	..	..	10	2	10	..	13	4	4	11	8	..	1	13	..	..	2	1	39	43	..
Wellington Technical School	10	62	..	..	..	..	..	4	3	3	..	..	30	29	27	..	80	26	20	11	14	..	3	51	14	3	55	28	246	156	..
Nelson Technical School ..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	5	..	..	..	2	..	2	..	..	3	..	..	..	..	9	3	..
Westport Technical School ..	5	3	..	..	..	..	..	5	..	..	..	..	..	..	5	..	8	..	9	2	5	..	..	12	..	..	8	..	42	20	..
Greymouth Technical School ..	7	4	2	1	4	..	1	14	3	2	..	21	1	3	4	4	..	5	34	46	59	..
Christchurch Technical School ..	9	19	2	..	..	..	..	4	3	..	1	1	29	29	41	..	62	19	45	10	46	..	30	97	4	1	22	18	288	182	..
Canterbury College School of Art	1	1	1	..	3	17	12	5	5	7	8	16	42
Ashburton Technical School ..	2	2	..	1	4	2	3	..	6	13	6	..	2	16	..	2	6	6	28	39
Timaru Technical School	2	7	1	6	..	10	2	3	2	5	14	1	1	26	26
Dunedin Technical School ..	8	8	2	1	..	..	..	..	..	..	..	..	34	11	26	..	34	22	18	4	13	..	..	44	16	7	40	38	160	151	..
Invercargill Technical School	2	2	2	..	1	13	10	11	..	19	6	11	8	23	70	26	12	103	116
Totals ..	101	161	11	7	23	34	74	19	18	5	5	10	157	288	169	..	429	90	224	153	341	8	77	730	51	43	290	210	1,869	1,597

* Included in secondary-school returns.

SECTION B.—PART-TIME STUDENTS.

TABLE J7.—CLASSIFICATION OF STUDENTS ON THE ROLL AT 30TH JUNE, 1928, ACCORDING TO OCCUPATIONS.

Names of Technical Schools or Classes.	Engineers and Mechanics.	Electricians.	Plumbers, Metal-workers, &c.	Woodworkers.	Painters, Plasterers, &c.	Printers, &c.	Agricultural Pursuits.	Professional Pursuits.	Clerical Pursuits.	Domestic Pursuits.	Dressmakers, Milliners, &c.	Employed in Shops or in Ware-houses.	Engaged in various other Trades and Industries.	Labourers.	No Occupations.	Occupations not stated.	Totals.
Auckland ..	175	38	152	112	23	55	3	55	235	23	14	184	85	2	95	107	1,358
Elam School of Art ..	1	1	4	3	12	..	1	17	12	25	5	12	30	..	45	..	168
Pukekohe ..	..	..	..	..	..	..	22	..	4	..	..	..	..	..	..	..	26
Hamilton ..	27	21	12	24	..	..	5	36	99	60	1	37	16	..	13	..	351
Whangarei ..	4	..	12	..	..	..	..	..	6	31	..	9	..	..	6	..	68
Onehunga, Rotorua, Thames, Waihi	..	1	6	..	..	..	1	19	18	69	3	14	3	..	..	..	134
New Plymouth ..	28	12	17	10	6	8	8	25	69	8	9	26	4	..	39	19	288
Hawera ..	..	..	..	48	15	..	..	5	..	..	3	..	..	..	..	..	5
Wanganui ..	32	11	28	..	..	..	..	17	47	52	3	20	15	3	13	9	313
Feilding ..	1	..	1	1	..	1	4	7	14	22	2	27	3	..	4	3	90
Palmerston North ..	25	23	20	20	3	9	16	21	166	57	8	83	47	1	89	3	591
Napier ..	17	7	25	15	3	2	2	30	50	30	..	32	6	..	11	2	231
Gisborne ..	16	16	16	..	..	1	2	11	10	28	1	7	5	..	7	5	125
Dannevirke ..	..	..	7	26	..	2	16	8	23	47	5	18	3	..	5	12	193
Masterton ..	14	3	11	..	..	..	..	..	487	123	27	65	57	1	73	37	1,651
Wellington ..	131	121	148	189	60	10	..	122	63	14	4	29	20	4	7	6	246
Petone ..	18	3	34	24	16	..	2	2	20	8	1	13	6	..	19	..	113
Lower Hutt ..	7	12	..	23	..	1	2	1	..	..	..	..	..	..	..	..	11
Blenheim ..	..	..	11	..	..	2	3	18	40	192	2	13	13	1	62	..	409
Nelson ..	18	16	20	7	2	..	..	10	5	26	1	21	3	..	3	2	73
Westport ..	1	..	1	..	..	..	..	15	..	18	..	3	1	1	26	..	65
Motueka, Takaka ..	..	..	..	..	..	1	1	11	31	18	..	17	4	..	3	3	140
Greymouth ..	23	7	12	9	..	..	..	48	402	147	26	170	57	30	200	39	1,597
Christchurch ..	156	27	85	125	8	48	29	28	27	14	21	38	41	3	64	93	399
Canterbury College School of Art	3	..	1	27	9	10	2	46	9	20	1	26	9	2	87	..	208
Ashburton ..	3	3	9	3	1	..	28	9	32	27	3	26	26	8	15	1	220
Timaru ..	9	6	16	25	5	4	4	..	36	..	..	..	..	..	..	39	39
Kaipoi ..	..	..	..	..	..	..	30	..	..	15	..	..	1	..	..	..	47
Temuka ..	..	..	..	1	..	..	..	..	..	13	..	..	..	..	..	..	13
Southbridge ..	..	..	..	..	..	..	..	9	34	39	..	17	3	..	..	3	121
Oamaru ..	1	..	..	11	1	1	2	76	240	73	15	148	86	4	37	140	1,282
Dunedin ..	178	41	74	93	45	19	13	22	55	54	2	47	28	1	24	15	333
Invercargill ..	22	6	18	28	9	1	1	1	28	10	..	5	1	..	..	..	48
Gore ..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	912	375	740	825	218	175	197	650	2,253	1,263	154	1,090	565	61	947	538	10,963

SECTION B.—PART-TIME STUDENTS—continued.

TABLE J 8.—CLASSIFICATION OF STUDENTS ON THE ROLL AT 30TH JUNE, 1928, ACCORDING TO AGES.

Names of Technical Schools or Classes.																									
Under Thirteen.		Thirteen Years.		Fourteen Years.		Fifteen Years.		Sixteen Years.		Seventeen Years.		Eighteen Years.		Nineteen Years.		Twenty Years.		Twenty-one Years.		Over Twenty-one.		Totals.		Grand Totals.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
..	
Auckland	1	2	23	14	84	53	204	60	219	62	204	37	121	18	92	11	62	10	24	6	47	4	1,081	277	1,358
Elam School of Art.	12	8	3	6	7	7	9	5	10	6	9	2	9	8	6	7	3	1	1	..	11	38	80	168	
Pukekohe .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hamilton .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whangarei .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Onehunga, Rotorua, Thames, Waikato	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hawera .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wanganui .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Feilding .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Palmerston North	4	..	8	11	27	41	46	58	45	47	43	56	41	37	27	24	8	4	5	3	32	24	286	305	
Napier .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gisborne .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dannevirke .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Masterton .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wellington	1	7	5	11	23	23	130	58	218	70	241	53	210	45	138	34	69	14	28	6	123	144	1,186	1,651	
Petone	2	1	5	16	24	17	26	19	21	12	24	7	20	6	16	1	14	1	4	..	10	..	166	80	
Lower Hutt .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blenheim .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nelson	9	24	14	26	33	33	28	40	21	30	18	18	14	6	10	4	9	5	..	..	15	52	171	238
Westport .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Motueka, Takaka .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Greymouth .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Christchurch .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Canterbury College School of Art	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ashburton .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timaru .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaipoi .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Temuka .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Southbridge .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oamaru .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin	18	12	16	12	78	34	114	57	150	55	146	50	139	46	94	17	70	9	23	7	87	48	935	347	
Invercargill	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gore .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	59	70	115	147	489	369	960	652	1,245	650	1,190	519	928	382	676	219	375	126	319	115	650	708	7,006	3,957	10,963

SECTION B.—PART-TIME STUDENTS—continued.

TABLE J9.—FREE PUPILS (ACCORDING TO YEARS OF ATTENDANCE) AND OTHER STUDENTS ON ROLL AT 30TH JUNE, 1928.

Names of Technical Schools or Classes.	Free Pupils.										Other Pupils.				Grand Totals.	Number of Students who having left a Public or Private Primary School or Forms I or II of a Junior High School during 1927, were admitted to Classes during 1928. (Included in foregoing Totals.)			
	Junior.				Senior.						Totals.		Other Pupils.			Males.	Females.	Totals.	
	First Year.		Second Year.		First Year.		Second Year.		Third Year and Over.		Males.	Females.							
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.									
Auckland ..	163	69	129	48	151	54	98	30	51	8	592	209	489	68	1,358	112	54	166	
Elam School of Art ..	8	2	4	..	3	2	3	2	1	2	19	8	61	80	168	8	2	10	
Pukekohe ..	..	..	..	..	..	..	..	..	..	..	..	..	26	..	26	..	..	..
Hamilton ..	18	11	23	..	15	12	26	17	20	9	102	57	108	84	351	18	11	29	
Whangarei ..	6	22	..	..	4	8	..	..	..	..	10	30	18	10	68	6	16	22
Onehunga, Rotorua, Thames, Waihi ..	7	24	3	20	2	2	..	1	..	4	12	51	12	59	134	8	45	53	
New Plymouth ..	23	6	8	12	15	23	8	15	10	6	64	62	95	67	288	23	6	29	
Hawera ..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5	..	..	..
Wanganui ..	19	11	17	8	6	12	7	7	7	6	56	44	140	73	313	9	6	15	
Feilding ..	4	1	5	5	2	5	1	3	3	8	15	22	21	32	90	4	3	7	
Palmerston North ..	51	47	42	46	34	51	30	42	30	25	187	211	99	94	591	51	47	98	
Napier ..	10	2	6	6	12	6	11	6	7	3	46	23	77	85	231	14	3	17	
Gisborne ..	11	14	7	4	8	8	2	4	..	..	28	30	48	19	125	14	14	28
Dannevirke ..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	7	..	..	..
Masterton ..	9	3	18	6	16	12	14	10	8	10	65	41	45	42	193	9	3	12	
Wellington ..	82	26	80	22	104	38	125	50	109	25	500	161	686	304	1,651	35	16	51	
Petone ..	26	31	6	12	8	15	3	7	4	4	47	69	119	11	246	27	24	51	
Lower Hutt ..	20	15	8	3	10	4	5	1	3	..	46	23	27	17	113	13	11	24	
Blenheim ..	..	..	..	..	..	..	..	..	..	..	..	..	11	..	11	..	..	..
Nelson ..	20	37	35	33	14	21	10	15	5	8	84	114	87	124	409	19	37	56	
Westport ..	3	2	3	1	..	6	1	3	..	4	7	16	13	37	73	6	2	8	
Motueka, Takaka ..	2	1	..	..	7	1	6	7	..	2	15	11	11	28	65	..	..	..
Grey mouth ..	4	1	1	3	7	7	6	2	6	2	24	15	64	37	140	..	..	..
Christchurch ..	144	42	161	25	151	55	121	51	85	28	662	201	497	237	1,597	126	42	168	
Canterbury College School of Art ..	11	11	8	13	14	18	7	18	5	10	45	70	119	165	399	11	11	22	
Ashburton ..	14	20	9	21	8	13	7	19	6	8	44	81	49	34	208	14	20	34	
Timaru ..	..	5	15	10	13	5	11	6	4	11	67	37	85	31	220	22	7	29
Kaipoi ..	..	..	..	..	..	..	..	..	..	..	..	..	28	11	39	..	..	..
Temuka ..	..	..	..	..	..	..	..	..	..	..	..	..	32	15	47	14	12	26
Southbridge ..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	13	..	..	..
Oamaru ..	5	11	12	7	4	2	3	4	3	4	27	28	20	46	121	3	10	13	
Dunedin ..	107	44	106	41	127	55	88	40	63	22	491	202	444	145	1,282	109	52	161	
Invercargill ..	24	16	38	22	29	18	13	16	18	8	122	80	79	52	1,333	25	18	43	
Gore ..	..	..	..	..	2	..	2	3	3	3	7	6	5	30	48	..	..	..
Totals ..	815	474	744	376	766	453	608	379	451	220	3,384	1,902	3,622	2,055	10,963	700	472	1,172	

SECTION C.—ALL PUPILS—FULL-TIME AND PART-TIME.

TABLE J 10.—TABLE SHOWING COMBINED ROLL NUMBERS AT DAY AND EVENING CLASSES AT 30TH JUNE, 1928.

Controlling Body.	Schools and Classes.	Technical High and Day Schools.			Other Technical Classes.			Totals.		Grand Totals.
		Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	
Technical School Board	Auckland Technical School	529	479	1,008	1,081	277	1,358	1,610	756	2,366
"	Elam School of Art	11	54	65	80	88	168	91	233	333
"	Pukekohe Technical School	135	100	235	26	..	26	161	100	261
"	Hamilton Technical School	187	135	322	210	141	351	397	276	673
"	Hawera Technical School	164	154	318	..	5	5	164	159	323
"	Stratford Technical School	147	128	275	..	..	..	147	128	275
"	Wanganui Technical School	376	177	553	196	117	313	572	294	866
"	Felding Technical School	109	86	195	36	54	90	145	285	429
"	Napier Technical School	160	105	265	123	108	231	283	213	496
"	Wellington Technical School	430	264	694	1,186	465	1,651	1,616	729	2,345
"	Petone Technical School	..	..	..	166	80	246	166	246	412
"	Nelson Technical School	21	20	41	171	238	409	192	258	450
"	Westport Technical School	67	57	124	20	53	73	87	110	197
"	Christchurch Technical School	553	378	931	1,159	438	1,597	1,712	816	2,528
"	Ashburton Technical School	72	101	173	93	115	208	165	216	381
"	Greymouth Technical School	145	102	247	88	52	140	233	154	387
"	Timaru Technical School	61	54	115	152	68	220	213	122	335
"	Kaipoi Technical School	..	..	..	28	11	39	28	39	67
"	Temuka Technical School	..	..	..	32	15	47	32	15	47
"	Dunedin Technical School	322	300	622	935	347	1,282	1,257	647	1,904
"	Invercargill Technical School	255	215	470	201	132	333	456	347	803
High School Board	Whangarei Technical School	..	..	..	28	40	68	28	40	68
"	New Plymouth Technical School	..	..	..	159	129	288	159	129	288
"	Palmerston North Technical School	..	..	..	286	305	591	381	476	857
"	Dannevirke Technical School	95	171	266	7	..	7	7	..	7
"	Blenheim Technical School	..	..	..	11	..	11	11	..	11
"	Oamaru Technical School	..	..	..	47	74	121	47	74	121
"	Gore Technical School	..	..	..	12	36	48	12	36	48
University College Board	Canterbury College School of Art	30	140	170	164	235	399	194	375	569
Secondary Education Board	Masterton Technical School	61	64	125	110	83	193	171	147	318
Education Board	Auckland (Onehunga, Rotorua, Thames, Waihi)	..	..	..	24	110	134	24	110	134
"	Hawke's Bay (Gisborne)	..	..	..	76	49	125	76	49	125
"	Wellington (Lower Hutt)	..	..	..	73	40	113	73	40	113
"	Nelson (Motueka, Takaka)	..	..	..	26	39	65	26	39	65
"	Canterbury (Southbridge)	..	..	..	..	13	13	..	13	13
Totals	Totals	3,930	3,284	7,214	7,006	3,957	10,963	10,936	7,241	18,177

SECTION C.—ALL PUPILS—FULL-TIME AND PART-TIME—continued.

TABLE J 11(A).—RECEIPTS BY CONTROLLING AUTHORITIES FOR THE YEAR ENDED 31st DECEMBER, 1928.

Name of School.	Receipts from Government.						Other Receipts.						Total Receipts.			
	Salaries and Allowances (Full-time, Part-time, and Student Teachers).	Incidental Allowances.	Buildings, Sites, Equipment, and Rent.	Maintenance of Buildings.	Subsidies on Voluntary Contributions.	Miscellaneous.	Total Receipts from Government.	Voluntary Contributions.	Fees.		Scholarships.	Miscellaneous.		Transfers from Other Accounts.	Hostel Receipts.	Total Other Receipts.
									Tuition.	Other—e.g. Material Typing.						
Under Technical School Boards—																
Auckland ..	£ 17,844	£ 3,979	£ 1,473	£ 127	£ 1,071	£ ..	£ 24,494	£ 171	£ 859	£ 63	£ 27	£ 2,281	£ ..	£ 44	£ 3,401	£ 27,895
Elam School of Art ..	1,589	1,268	34	5	..	..	1,628	..	574*	9	..	16	..	..	643	2,271
Pukekohe ..	4,371	1,987	..	178	..	41	5,858	3	133	53	..	159	..	..	348	6,206
Hamilton ..	6,951	1,987	..	..	..	61	9,366	..	336	10	20	319	..	..	685	10,051
Hawera ..	4,276	1,162	229	..	..	..	5,667	..	15	..	..	221	..	..	236	5,903
Stratford ..	4,540	1,319	45	..	100	..	6,004	..	38	..	..	112	..	..	150	6,154
Wanganui ..	9,987	2,421	206	..	148	..	12,762	53	525	..	..	1,368	..	..	6,144	18,092
Feilding ..	3,855	1,058	14	33	26	..	4,986	60	73	..	..	99	..	..	2,810	7,796
Napier ..	4,346	1,157	265	..	79	..	5,847	383	186	18	..	570	..	..	1,157	7,004
Waipawa† ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wellington ..	16,448	2,703	131	59	..	5	19,346	313	1,869	316	205	6,063‡	..	..	8,766	28,112
Petone ..	663	74	36	..	5	..	778	71	109	..	..	90	..	..	270	1,048
Nelson ..	2,809	828	16	104	50	26	3,833	50	147	..	..	227	..	..	424	4,257
Westport ..	3,176	910	141	..	95	152	4,474	22	74	3	..	110	..	..	209	4,683
Christchurch ..	18,966	4,810	50	487	343	42	24,698	548	1,167	205	..	3,476	..	1,739	7,135	31,833
Ashburton ..	4,100	1,178	55	..	74	..	5,407	44	151	14	..	250	..	..	459	5,866
Greymouth ..	4,704	1,314	58	..	282	85	6,358	72	90	..	..	877	..	774	1,813	8,171
Timaru ..	3,228	740	92	59	72	..	4,276	110	234	96	..	152	..	..	592	4,868
Kaipoi ..	48	..	..	..	..	..	48	17	42	..	..	27	..	..	86	134
Temuka ..	..	..	..	..	..	..	..	30	59	..	..	23	..	..	112	112
Waimate† ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin ..	12,398	3,331	3,726	118	370	..	19,943	186	947	238	132	882	..	..	2,385	22,328
Invercargill ..	8,521	2,290	1,796	63	171	..	12,841	119	207	16	57	1,304	..	..	1,703	14,544
Under High School Boards—																
Whangarei ..	51	28	..	..	..	..	79	..	58	..	..	9	..	..	67	146
New Plymouth ..	4,326	708	..	..	6	..	5,040	..	192	33	..	168	..	..	393	5,433
Palmerston North ..	6,415	1,364	84	35	60	5	7,963	224	637	81	..	265	..	..	1,207	9,170
Dannevirke ..	57	6	..	..	10	..	73	10	28	..	..	12	..	..	50	123
Blenheim ..	88	7	..	..	15	..	110	10	26	..	..	8	..	..	44	154
Oamaru ..	212	..	155	..	36	..	403	34	69	..	..	6	..	..	109	512
Gore ..	88	..	..	..	14	..	102	25	41	..	..	..	..	..	66	168
Under University College Board—																
Canterbury College School of Art ..	4,086	520	..	..	..	..	4,606	31	734	..	..	770	..	..	1,535	6,141
Under Secondary Education Board—																
Masterton ..	3,130	807	150	55	..	..	4,142	100	107	..	..	197	..	..	404	4,546
Under Education Boards—																
Auckland Small Centres ..	258	..	..	..	..	..	258	..	60	25	..	303	..	..	388	646
Hawke's Bay Small Centres ..	254	..	..	..	20	..	274	40	115	..	..	14	..	..	169	443
Wellington Small Centres ..	339	73	..	..	..	..	412	56	31	..	..	..	..	..	87	499
Nelson Small Centres ..	..	..	6	..	..	..	6	..	15	..	..	14	..	..	29	35
Canterbury Small Centres ..	23	..	5	..	..	..	28	..	16	..	..	..	..	..	16	44
Totals ..	152,147	36,042	9,134§	1,323	3,047	417	202,110	2,782	9,964	1,180	441	20,392	44	8,475	44,092	245,388

* Includes £305 from Elam Trust.

† Figures not available.

‡ Includes £4,000 from Wellington City Council.

§ Does not include payments made to Public Works Department.

SECTION C.—ALL PUPILS—FULL-TIME AND PART-TIME—continued.

TABLE J 11(B).—PAYMENTS BY CONTROLLING AUTHORITIES FOR THE YEAR ENDED 31ST DECEMBER, 1928.

Name of School.	Salaries and Allowances (Full-time, Part-time, and Student Teachers).	Sites, Buildings, Equipment, and Rent.	Working Expenses.						Other Expenditure.	Transfers to other Accounts.	Hostel Payments.	Total Expenditure.
			Office Salaries.	Office Expenses (including Advertising and Printing).	Material for Class use.	Maintenance of Buildings, Grounds, and Equipment.	Caretaking and Cleaning.	Lighting, Heating, and Water.	Miscellaneous.			
	£	£	£	£	£	£	£	£	£	£	£	£
Under Technical School Boards—												
Auckland ..	17,705	10,476	632	411	1,554	583	614	352	47	704	..	33,078
Elam School of Art ..	1,668	41	156	90	119	26	130	52	..	..	..	2,282
Pukekohe ..	4,422	188	90	119	262	333	243	65	438	5	..	6,165
Hamilton ..	7,018	695	100	112	493	166	234	71	119	20	..	9,028
Hawera ..	4,283	741	70	136	152	142	269	43	3	171	..	6,010
Stratford ..	4,483	254	58	79	97	40	408	81	78	24	320	5,922
Wanganui ..	10,193	418	366	291	742	760	337	105	580	351	3,767	17,910
Feilding ..	3,711	114	140	124	93	69	349	69	95	293	2,457	7,514
Napier ..	4,392	495	291	120	270	169	184	180	102	303	..	6,506
Waipawa* ..	..	..	..	..	..	..	..	..	..	..	..	..
Wellington ..	16,746	2,855	784	403	1,322	244	731	526	427	1,973	..	26,011
Petone ..	664	51	160	16	50	26	106	49	..	..	..	1,122
Nelson ..	2,783	153	167	80	376	170	104	40	123	..	..	3,996
Westport ..	3,253	330	150	77	278	62	239	116	232	..	..	4,737
Christchurch ..	19,233	589	1,021	592	1,363	679	1,192	335	286	3,220	2,827	31,337
Ashburton ..	4,238	393	143	121	284	195	193	72	91	51	..	5,781
Greymouth ..	4,735	3,048	183	97	175	172	234	92	626	276	2,365	12,003
Timaru ..	3,132	303	130	149	318	348	136	54	125	..	..	4,695
Kaipoi ..	61	..	25	3	22	..	9	7	7	..	..	134
Temuka ..	62	..	..	2	..	6	17	18	..	..	..	105
Waimate* ..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin ..	12,485	4,546	647	304	858	123	699	291	459	448	..	20,860
Invercargill ..	8,646	267	478	264	628	153	602	161	597	728	..	12,824
Under High School Boards—												
Whangarei ..	168	..	20	4	24	..	29	..	..	..	..	245
New Plymouth ..	4,627	356	45	100	549	53	199	52	44	..	..	6,025
Palmerston North ..	6,797	2,079	332	170	377	110	189	137	284	22	..	10,497
Dannevirke ..	67	..	..	..	14	..	..	2	1	..	..	84
Blenheim ..	87	..	..	..	40	..	..	..	..	..	..	127
Oamaru ..	242	156	54	39	11	1	14	3	..	..	..	520
Gore ..	75	51	35	4	..	..	..	8	..	..	..	173
Under University College Board—												
Canterbury College School of Art ..	4,362	86	341	121	124	30	474	199	139	25	..	5,901
Under Secondary Education Board—												
Masterton ..	3,200	305	75	62	277	101	102	161	59	..	..	4,342
Under Education Boards—												
Auckland Small Centres ..	356	..	..	..	31	..	..	..	26	..	..	413
Hawke's Bay Small Centres ..	308	..	50	11	30	6	8	8	..	..	..	421
Wellington Small Centres ..	324	..	70	13	5	2	6	6	..	..	..	426
Nelson Small Centres ..	..	..	..	2	13	..	..	3	6	..	..	24
Canterbury Small Centres ..	32	..	5	1	..	..	..	..	..	..	..	38
Totals ..	154,558	28,990	6,818	4,117	10,951	4,769	8,051	3,358	4,994	8,614	11,736	246,956

* Figures not available.

SECTION D.—MANUAL INSTRUCTION.

TABLE J 12.—STATEMENT OF RECEIPTS AND PAYMENTS BY EDUCATION BOARDS FOR THE YEAR ENDED 31ST DECEMBER, 1928, IN RESPECT OF CLASSES FOR MANUAL INSTRUCTION AND ELEMENTARY HANDWORK.

Receipts.

Education Board.	Receipts from Government.							Other Receipts.					Total Receipts.
	Salaries (Full-time and Part-time).	Conveyance of Instructors and Pupils.	Capitation and Incidental Allowances.	Refunds in connection with Handwork Supplies.	Sites, Buildings, Rent, and Equipment.	Subsidies on Voluntary Contributions.	Total Government Receipts.	Voluntary Contributions.	Sales of Material.	Payments by Pupils for Material.	Miscellaneous.	Total other Receipts.	
Auckland	£ 13,606	£ 2,307	£ 9,284	£ 367	£ 116	£ ..	£ 25,680	£ ..	£ 182	£ 934	£ 15	£ 1,131	£ 26,811
Taranaki	2,976	912	1,169	80	218	..	5,355	..	9	145	5	159	5,514
Wanganui	2,953	905	1,286	122	27	..	5,293	29	18	186	34	267	5,560
Hawke's Bay	3,670	825	2,094	104	60	..	6,753	..	4	254	42	300	7,053
Wellington	5,610	765	3,022	169	4,892	..	14,458	..	..	448	34	482	14,940
Nelson	887	361	643	59	250	..	2,200	..	..	24	..	24	2,224
Canterbury	7,462	1,188	3,250	111	156	..	12,167	..	..	463	75	538	12,705
Otago	4,014	492	1,779	..	..	..	6,285	11	..	205	50	266	6,551
Southland	2,250	118	1,128	53	1,000	5	4,554	81	8	157	..	246	4,800
Totals	43,428	7,873	23,655	1,065	6,710	5	82,745	121	221	2,816	255	3,413	86,158

Payments.

Education Board.	Salaries.		Sites, Buildings, Equipment, and Rent.	Conveyance of Instructors and Pupils.	Working-expenses.					Total Expenditure.	
	Manual-training Teachers.	Elementary Needlework Teachers.			Office Salaries.	Other Office Expenses.	Class Material and other Incidentals.	Caretaking and Cleaning.	Miscellaneous.		Total Working-expenses.
	Auckland	£ 13,691	£ 1,621	£ 810	£ 2,432	£ 1,254	£ 299	£ 5,926	£ 947	£ 118	£ 8,544	£ 27,098
Taranaki	3,030	276	573	1,261	185	39	817	107	..	1,148	6,288
Wanganui	2,953	337	266	974	230	70	796	..	..	1,096	5,626
Hawke's Bay	3,828	245	863	944	315	50	1,152	..	..	1,517	7,397
Wellington	5,583	208	4,905	868	500	104	2,557	..	30	3,191	14,755
Nelson	888	182	286	558	100	40	239	..	..	379	2,293
Canterbury	7,444	320	740	1,747	390	176	1,667	360	6	2,599	12,850
Otago	4,038	353	64	373	350	100	2,404	..	..	2,854	7,882
Southland	2,313	372	1,043	197	450	60	867	..	51	1,428	5,353
Totals	43,768	3,914	9,550	9,354	3,774	938	16,425	1,414	205	22,756	89,342

SECTION D.—MANUAL INSTRUCTION—continued.

TABLE J 13.—SOME PARTICULARS RELATING TO PUPILS ATTENDING SPECIAL MANUAL-TRAINING CENTRES DURING THE YEAR ENDED 31ST DECEMBER, 1928.

Education District.	Number of Manual-training Centres.	Number of Pupils attending from																Total Number of Pupils in Attendance.			Total Number of Classes in Weekly Attendance.		
		Primary Schools.				Secondary Departments of District High Schools.				Forms I, II, and III of Junior High Schools.				Secondary Schools.									
		Wood-work.	Metal-work.	Domestic Subjects.	Wood-work.	Metal-work.	Domestic Subjects.	Wood-work.	Metal-work.	Domestic Subjects.	Wood-work.	Metal-work.	Domestic Subjects.	Wood-work.	Metal-work.	Domestic Subjects.	Wood-work.	Metal-work.	Domestic Subjects.	Wood-work.	Metal-work.	Domestic Subjects.	
Auckland	29	4,812	55	4,551	402	18	398	962	253	1,247	40	10	289	427	31	575	6,643	349	7,060	366	14	405	
Taranaki	7	999	..	895	18	..	10	..	..	..	22	..	15	133	..	148	1,172	..	1,068	47	..	47
Wanganui	10	1,161	..	1,007	102	..	141	..	..	..	58	46	..	94	..	145	1,415	46	1,293	72	2	65
Hawke's Bay	7	1,119	..	1,023	58	..	43	..	..	..	139	23	107	152	..	129	1,468	23	1,302	66	3	67
Wellington	15	2,333	..	2,127	99	..	109	132	217	162	287	56	224	104	..	214	2,955	273	2,836	100	12	99	
Nelson	8	591	27	602	71	13	79	..	..	..	..	..	..	52	..	86	714	40	767	40	3	44
Canterbury	24	3,321	..	3,159	209	..	286	..	..	..	62	95	..	465	..	505	4,057	95	3,950	145	4	173
Otago	15	1,640	..	1,596	117	..	111	149	148	133	199	199	178	..	..	120	2,105	347	2,138	89	11	108
Southland	4	1,039	..	900	49	..	49	..	..	..	..	..	..	26	..	86	1,114	..	1,035	44	..	44
Totals	119	17,015	82	15,860	1,125	13	1,226	1,243	618	1,542	807	429	813	1,453	31	2,008	21,643	1,173	21,449	969	49	1,052	

The total number of primary schools earning capitation for elementary science and elementary agriculture in each district was as follows: Auckland, 471; Taranaki, 168; Wanganui, 190; Hawke's Bay, 166; Wellington, 217; Nelson, 116; Canterbury, 298; Otago, 211; Southland, 142; total, 1,979. The total number of pupils involved was 48,622.

SECTION E.—GENERAL SUMMARY.

TABLE J14.—SOME PARTICULARS RELATING TO MANUAL AND TECHNICAL INSTRUCTION FOR THE YEAR 1928.

Technical Instruction.

1. Number of technical high schools and technical day schools offering full-time courses (excluding New Plymouth)	1927. 21	1928. 21
2. Number of pupils on roll of technical high schools and technical day schools at 30th June	6,720	7,214
3. Number of free pupils on roll of technical high schools and technical day schools at 30th June	6,455	6,992
4. Number of centres at which other technical classes were held (evening and part-time day)	41	38
5. Number of students attending evening or part-time day classes at 30th June	12,408*	10,963
6. Number of free pupils attending evening or part-time day classes at 30th June	5,699*	5,286
7. Number of full-time teachers, exclusive of principals, on staffs at 30th June	295	305
8. Approximate amounts payable by Government for—		
(a) Salaries and allowances (including part-time and overtime and manual-training teachers on staffs of technical schools)	£ 146,200	£ 154,000
(b) Incidental allowances	43,150	44,800
	189,350	198,800
Less recoveries from tuition fees	10,200	9,900
	179,150	188,900
9. Total expenditure by Government for financial year	219,343	225,060
Including—		
(a) Consolidated Fund	187,192	198,803
(b) Education purposes loan	30,060	23,281
(c) Subsidies on voluntary contributions	2,091	2,976
<i>Manual Instruction.</i>		
10. Number of primary manual-training centres	119	119
11. Number of full-time teachers on staffs controlled by Education Boards at 30th June	141	143
12. Approximate amounts payable by Government for—		
(a) Salaries and allowances (including part-time and overtime, and excluding manual training teachers on staffs of technical schools)	£ 42,400	£ 44,500
(b) Incidental allowances	9,750	10,200
(c) Capitation for agriculture, science, and elementary needlework classes	14,500	15,200
(d) Handwork supplies	10,380	10,400
13. Total expenditure by Government for financial year on account of—		
(a) Salaries, incidentals, capitation, and handwork material	80,798	87,086
(b) Education purposes loans	3,068	5,266

* Total enrolments for 1927.

Approximate Cost of Paper.—Preparation, not given; printing (980 copies), £47.

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SECTION E - GENERAL SUMMARY

11--SOME PARTICULARS RELATING TO MATHEMATICS AND TECHNICAL INSTRUCTION FOR THE YEAR 1932

Technical Instruction

1031	Number of technical day schools during the year	21
8,730	Number of pupils in technical day schools at year end	
8,438	Number of pupils in technical day schools during the year	
43	Number of technical day schools during the year	
10,308	Number of pupils in technical day schools during the year	
2,308	Number of pupils in technical day schools during the year	
308	Number of pupils in technical day schools during the year	
2	Number of pupils in technical day schools during the year	
10,308	Number of pupils in technical day schools during the year	
2,308	Number of pupils in technical day schools during the year	
308	Number of pupils in technical day schools during the year	
2	Number of pupils in technical day schools during the year	

11--SOME PARTICULARS RELATING TO MATHEMATICS AND TECHNICAL INSTRUCTION FOR THE YEAR 1932

1031	Number of technical day schools during the year	21
8,730	Number of pupils in technical day schools at year end	
8,438	Number of pupils in technical day schools during the year	
43	Number of technical day schools during the year	
10,308	Number of pupils in technical day schools during the year	
2,308	Number of pupils in technical day schools during the year	
308	Number of pupils in technical day schools during the year	
2	Number of pupils in technical day schools during the year	
10,308	Number of pupils in technical day schools during the year	
2,308	Number of pupils in technical day schools during the year	
308	Number of pupils in technical day schools during the year	
2	Number of pupils in technical day schools during the year	

11--SOME PARTICULARS RELATING TO MATHEMATICS AND TECHNICAL INSTRUCTION FOR THE YEAR 1932