

1915.  
NEW ZEALAND.

MENTAL HOSPITALS OF THE DOMINION  
(REPORT ON) FOR 1914.

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

CONTENTS.

	PAGE		PAGE
Introduction .. .. .	2	Single Patients .. .. .	4
Number of Patients on Register .. .. .	2	Private Care .. .. .	4
Their Distribution .. .. .	2	Accommodation .. .. .	4
Their Ratio to Population .. .. .	2	Farming Operations .. .. .	5
Admissions .. .. .	2	Financial Statement .. .. .	6
Their Ratio to Population .. .. .	2	The Staff .. .. .	6
Ratios compared with Australia .. .. .	3	Visits of Inspection .. .. .	6
Discharges and Deaths .. .. .	3	Medical Superintendents' Reports .. .. .	7
Causes of Insanity .. .. .	3	Appendix—	
Voluntary Boarders .. .. .	3	Statistical Tables .. .. .	10
Minors .. .. .	4		

The Hon. the MINISTER IN CHARGE OF DEPARTMENT FOR THE CARE OF MENTAL DEFECTIVES to His  
Excellency the GOVERNOR.

MY LORD,—Wellington, 30th July, 1915.  
• I have the honour to submit to Your Excellency the report of the Inspector-General of  
Mental Defectives for the year 1914.

I have, &c.,  
R. HEATON RHODES,  
Minister in Charge of Department for the Care of Mental Defectives

The INSPECTOR-GENERAL to the Hon. the MINISTER IN CHARGE OF THE DEPARTMENT FOR THE CARE OF MENTAL DEFECTIVES.

SIR,—

Wellington, 24th June, 1914.

I have the honour to present, pursuant to section 78 of the Mental Defectives Act, 1911, the report for the year ended 31st December, 1914.

The number of patients on the Mental Hospitals Register at the beginning of the year was 3,964 (m., 2,332; f., 1,632), and at the end 4,111 (m., 2,408; f., 1,703), an increase of 76 males and 71 females. The total number under oversight, care, or control was 4,856 (m., 2,858; f., 1,998), as against 4,805 (m., 2,816; f., 1,989) in the previous year, an increase of 51 (m., 42; f., 9); while the average number resident in our institutions during the year was 3,950 (m., 2,309; f., 1,641), as against 3,849 (m., 2,252; f., 1,597) in 1913, or 101 more in the year under review.

Distribution.

The 4,111 patients on the register at the end of the year were distributed as follows:—

	Males.	Females.	Total.
Auckland ... ..	558	359	917
Christchurch ... ..	338	324	662
Dunedin (Seacliff and Waitati) ... ..	528	388	916
Hokitika ... ..	190	62	252
Nelson ... ..	84	108	192
Porirua ... ..	519	422	941
Tokanui ... ..	94	...	94
Ashburn Hall (private mental hospital) ... ..	21	23	44
Absent on probation on 31st December, 1914 ... ..	76	17	93
	2,408	1,703	4,111

Ratio to Population.

The following calculations show the ratio of patients on the register at the end of the year to the estimated general population, both exclusive and inclusive of the Native race. The number of Maoris on the register was 27 only (m., 19; f., 8).

The proportion of total mentally defective to the total population was,—

Exclusive of Maoris ... ..	37.26 per 10,000, or 1 in 268
Inclusive of Maoris ... ..	35.88 " 1 in 279

The proportion of mentally defective males to the male population,—

Exclusive of Maoris ... ..	42.05 per 10,000, or 1 in 238
Inclusive of Maoris ... ..	40.50 " 1 in 247

The proportion of mentally defective females to the female population,—

Exclusive of Maoris ... ..	32.11 per 10,000, or 1 in 311
Inclusive of Maoris ... ..	30.90 " 1 in 324

In England and Wales the number of notified insane persons on the 1st January, 1914, stood to the estimated population (mean) in the proportion of 1 to 267, or 37.4 per 10,000, and in Ireland 1 to 175, or 57.1 per 10,000.

Admissions.

Exclusive of 24 patients (m., 17; f., 7) transferred from one institution to another, the admissions numbered 868 (m., 509; f., 359), or 84 (m., 43; f., 41) in excess of the admissions during 1913. Of the 868, those admitted for the first time to any mental hospital in New Zealand numbered 734 (m., 440; f., 294), and those not admitted for the first time 134 (m., 69; f., 65). To the first admissions 13 immigrants, who became insane within a year of landing, contributed. Of these, 6 men and 2 women came from the United Kingdom; 3 men and 1 woman (one of each sex had been previously insane) came from the Commonwealth; and there was 1 foreigner, who had been insane before. In addition, 2 New-Zealanders were admitted shortly after their return from residence abroad.

Ratio of Admissions to Population.

Excluding the Native race (10 male and 1 female) and all transfers, the proportion of admissions (whether first or not) and first admissions to the estimated general population (mean) stands respectively at 7.86 and 6.67 per 10,000; or, in other words, every 1,272 persons in the general population contributed an admission, and every 1,500 a first admission.

Year.	Ratio to 10,000 of Population of		Number of Persons in Population contributing	
	Admissions.	First Admissions.	One Admission.	One First Admission.
Quinquennial average, 1904-8 ... ..	7.01	5.71	1,426	1,751
Quinquennial average, 1909-13 ... ..	7.50	6.15	1,333	1,627
Decennial average, 1904-13 ... ..	7.27	5.94	1,375	1,683
1914 ... ..	7.86	6.67	1,272	1,500

In England and Wales during 1913 every 10,000 of the general population contributed 4.98 first admissions and 6.04 total admissions (idiot establishments excluded); in Scotland the ratio for total admissions was 7.78, and in Ireland 7.89.

*Ratios of Total Insane and Admissions to Population in Australia.*

Through the courtesy of the departmental chiefs I am able to give the information below. When going to press the returns had not been completed in the States omitted; and the figures for Queensland are an approximation, being calculated on the population returns for September.

		New South Wales.	Queensland.	Western Australia.	Tas- mania.
Ratio insane to population, 1 in ..	Male	..	242	258	..
	Female	..	341	510	..
	Totals	..	279	329	..
Insane to 10,000 of population ..	Male	42·3	41·0	38·7	26·2
	Female	31·8	29·2	19·6	26·5
	Totals	37·2	35·8	30·3	26·4
Population contributing one admission	Male	1,101	1,142	1,094	2,856
	Female	1,648	1,599	1,827	3,155
	Totals	1,310	1,314	1,327	2,962
Admissions from 10,000 of population	Male	9·08	8·75	9·14	3·57
	Female	6·07	6·25	5·47	3·16
	Totals	7·83	7·60	7·50	3·37

*Discharges and Deaths.*

Omitting transfers, where discharge from one institution is coincident with admission into another, the number of cases discharged from the mental hospitals was 440 (m., 240; f., 200), and the deaths numbered 281 (m., 193; f., 88). The total number under care during the year, deducting transfers, was 4,832 (m., 2,841; f., 1,991). The corresponding figures for the previous year were 426, 307, and 4,697 respectively.

Of the patients discharged, 369 (m., 207; f., 162) were classed as recovered. In 1913 the number discharged as recovered was 337 (m., 175; f., 162). The percentage of recoveries calculated upon admissions was 42·51 (m., 40·67; f., 45·12), as against 42·98 (m., 37·55; f., 50·94) in the previous year. In the summary of total admissions since 1876 the percentage of recovery works out at 39·93 (m., 37·48; f., 43·61).

In England and Wales (exclusive of idiot establishments) the rate for 1913 was 32·71, and in Scotland 35·4 per cent.

The percentage of deaths calculated on the average number resident was 7·11 (m., 8·36; f., 5·36), as against 7·98 (m., 8·70; f., 6·96) in 1913. Calculated on the total number under care (less transfers) the proportion per cent. in 1914 was 5·82 (m., 6·79; f., 4·42), as against 6·53 (m., 7·17; f., 5·67) in the previous year.

In England and Wales the percentage in 1913, calculated on the daily average number resident, was 9·33 (m., 10·18; f., 8·58).

A Coroner's inquest is held in every case of death in an institution, irrespective of the cause. Analysing Tables VI and XII in the appendix one finds that above 46 per cent. of those who died were over sixty years of age, and in over 23 per cent. uncomplicated senile decay was the cause of death. General paralysis contributed nearly 19 per cent. of the male and 13 per cent. of the total deaths. Consumption and other forms of tuberculosis also contributed 13 per cent. There was 1 death from enteric fever. Two patients committed suicide; for these regrettable events blame did not attach to the staff. There were no fatal accidents.

In England and Wales during 1913 the percentage of deaths due to tuberculosis was over 15, and to general paralysis of the insane was over 25 for males.

*Causes of Insanity.*

Table XIII has been remodelled to show combinations of causes. A stress seldom operates singly, and the cause assigned by relatives is generally the last straw, if not the first symptom. Hitherto the principal cause assigned was all that appeared, and this will explain the few associated factors disclosed by the table. The first column deals exclusively with cases alleged to be due to a single cause; the last column shows the total incidence (either alone or in association) of any cause; and the figures in the intermediate columns deal entirely with associated causes or factors.

It will be seen that heredity is acknowledged to contribute a fair proportion (about 19 per cent. of the known causes), though an absurdly low estimate; and the total incidence assigned to the toxic effect of alcohol and venereal disease is 21·7 and 9·6 per cent. respectively among males, after deducting cases in which there was no known cause. With respect to heredity, we may try to practise self-deceit and lull the conscience by laying the blame on the past generation, but what is to be said of alcoholism and venereal disease! Now as perhaps never before these social questions, always deserving serious consideration, become clamant for action. We are plunged in a dysgenic war; the gaps in our voluntary army are being filled by the best of our sons, and it behoves us who are left behind to do what we can to make the nation of the future worthy of the sacrifice.

*Voluntary Boarders.*

Persons labouring under mental defect, but capable of understanding the meaning of the procedure, may seek admission to a mental hospital as voluntary boarders. At the beginning of 1914 there were 21 (m., 6; f., 15) boarders in residence, and during the year 47 (m., 17; f., 30) were admitted. If a voluntary boarder should after admission show mental defect sufficiently pronounced and sustained to render it improper to classify him any longer as such, application for a reception order has to be made to a Magistrate. During the year 14 (m., 7; f., 7) were transferred from the voluntary to the ordinary register, and 2 died, while 31 (m., 9; f., 22) were discharged, leaving the total at the end of the year the same as at the beginning. The increasing number taking advantage of this provision of the Act, and the numerous expressions of gratitude on the part of voluntary boarders for the benefits received, is most encouraging.

*Minors.*

The procedure which permits of defective children being cared for without a reception order granted by a Magistrate was put into operation in the case of 3 boys and 3 girls. Two of the boys were transferred to the Home for Defectives, Richmond.

*Single Patients.*

There were 2 patients, both males, admitted under Part II of the Act. One of these was discharged, and the other was transferred to a mental hospital.

*Private Care.*

In the last report attention was drawn to the penalties to which any one was liable who undertook the oversight, care, or control of a mentally defective person without notification (section 122), and to the prohibition (section 123) against two or more such persons being cared for in the same house except (subsection (6)) in the case of a general hospital or a special hospital not kept for gain. It is well that these facts should be known. Persons of average common-sense receiving payment for the oversight, care, or control in private of a mentally defective patient should know that the law is being transgressed, and should seek information. In future prosecutions the Department will not be satisfied with merely drawing attention to the requirements of the Act and asking for a nominal penalty.

*Accommodation, &c.*

The position with regard to buildings is as follows:—

*Auckland.*—Auxiliary No. 2 (female) for noisy and troublesome patients, taking them out of the main building, has been occupied. The accommodation is for 75. A day-room and dormitory added to the women's side, main building, have been occupied. Auxiliary No. 3, for 100 male patients, is nearing completion. A cottage has been built for the Assistant Medical Officer, who now resides in it. The removal of the noisy patients has altered the character of the main building on the women's side, and the wards lately occupied by these patients have been altered, thoroughly renovated, and adapted for an infirmary. Thus bit by bit the whole of the main building will be modernized.

*Porirua.*—A large extension of day-room space, Ward No. 1 (male) and A Ward (female). The block of buildings for a reception-house, sick-hospital, and nurses' home is progressing favourably. The accommodation on the women's side is considerably taxed, but will be relieved almost immediately by transfer to Tokanui. The women's unit at that hospital is now being furnished for that purpose. The drying-closets in the laundry have been found inadequate for requirements, and an extension is now being carried out. Mechanical water-filters have been set up.

*Tokanui.*—A unit for 50 males has been completed and another started. A reservoir with 75,000 gallons capacity is being constructed on the nearest hill to the present buildings. Water will be pumped from the present pumping-station. The electric light has been installed. Some minor buildings have been erected for the farm and for the accommodation of the married staff.

*Sunnyside.*—A nurses' home for those employed in the main building, with accommodation for 50, is well advanced, and promises to be a comfortable and picturesque building. Its occupation will relieve an equal number of single rooms in the main building for the accommodation of patients. The block of buildings now in progress will be approached from Martin's Lane, and will be employed as a reception-house, sick-hospital, and nurses' home. The general design is the same as at Porirua, the accommodation being for 25 each, males and females, in the reception block, and 25 each in the hospital portion, with suitable day-rooms, verandas, &c. The advent of electric light derived from the Lake Coleridge supply has been a great boon. We are using the current for heating some of the single rooms, and also for power purposes. The main hall has been much improved by the introduction of windows where possible, and the scheme of redecoration has been carried out with considerable skill and taste. An addition to D Ward is about to be undertaken, and a report has been made with regard to the introduction of the Vigilant automatic fire-alarm.

*Seacliff.*—A reception cottage for males, corresponding to the reception cottage for females which has been successfully in use for a number of years, is about ready for occupation, and is eminently suitable for its purpose. It would be hardly possible to obtain a more beautiful site for this building. On the women's side a building is well advanced which will add largely to the dormitory and single-room accommodation. In the planning of this building additions in the near future have been kept in view. When this is occupied one of the dormitories on the front of the main building will be adapted for a day-room, as was done some years ago on the male side. A considerable extension has been made to the nurses' home. The comfort and convenience of the new dining-room for male attendants must appeal to them. On account of the decided falling-off in patients capable of milking, machine milking has been installed. The bakehouse has been fitted with breadmaking machinery.

*Nelson.*—As I stated before, this hospital is old, and, having been built of wood, which has served its time, needs to be gradually rebuilt in some permanent material. Plans and specifications have been drawn up, and tenders are about to be called for the first instalment of this work—namely, a kitchen block in brick and a small reception hospital (removed from the main building) also in brick. Meantime a temporary ward attached to the auxiliary is in course of construction. To this temporary ward will be removed in turn the inmates of any particular ward being rebuilt. New stables, barn, and byres are urgently needed, and a start has been made.

*Hokitika.*—This is also a wooden building, the life of which has undoubtedly been prolonged by scrupulous attention to cleanliness and by executing repairs promptly. A concrete fire cut-off has been carried through the centre of the main building, and less important ones will follow. These will largely minimize the danger of any fire that may break out becoming extensive.

*Home for Defectives, Richmond.*—The Education Department, from whom we originally took over this estate, has arranged with us to retake it. They are building accommodation for a special school for girls, and in due course we will betake ourselves to Tokanui, as the extent of this estate is really too small for our purposes. However, in order to add to the safety of the more helpless in case of fire, the dining-room downstairs was extended and converted into a dormitory, to which the boys were removed.

### Farming Operations.

The following summary of expenditure and receipts in connection with the farms at the mental hospitals demonstrates another successful year:—

Dr.	£	s.	d.	Cr.	£	s.	d.
To Salaries and wages .. .. .	4,199	16	1	By Cash sales of produce, &c. .. .	6,640	5	6
Feed .. .. .	3,136	2	5	Value of produce grown on farms and			
Seeds, &c., manures .. .. .	1,043	2	1	consumed in the mental hospitals..	14,942	13	11
Implements, harness, repairs, &c. ..	778	7	4				
Stock .. .. .	637	2	11				
Rents, rates, &c. .. .. .	883	16	8				
Fencing, roading, &c. .. .. .	278	19	3				
Harvesting, threshing, &c. .. ..	114	18	4				
Railages .. .. .	113	9	6				
Buildings .. .. .	61	7	2				
Sundries.. .. .	421	14	1				
Balance .. .. .	9,914	3	7				
	<u>£21,582</u>	<u>19</u>	<u>5</u>				
					<u>£21,582</u>	<u>19</u>	<u>5</u>

The value of produce consumed is shown at wholesale rates ruling in the particular district. Compared with the previous year, the cash sales increased by £803 and the value of produce consumed by £313. The credit balance of the year's transactions was £695 higher. The fluctuation is partly accounted for by the addition of Tokanui.

Hereunder is a statement of expenditure on individual farms:—

—	Auckland.	Christchurch.	Seacliff.	Hokitika.	Nelson.	Porirua.	Tokanui.	Total.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Salaries and wages	250 0 0	510 0 0	2,181 0 0	136 15 9	248 15 0	386 15 0	486 10 4	4,199 16 1
Feed ..	193 12 3	241 1 7	1,606 3 4	25 14 3	16 13 7	907 19 6	144 17 11	3,136 2 5
Seeds, &c., manures	158 15 1	112 3 2	216 5 0	24 19 7	104 18 10	221 8 0	204 12 5	1,043 2 1
Implements, harness, repairs, &c.	33 17 3	169 8 3	221 1 2	5 4 0	38 17 0	86 4 4	223 15 4	778 7 4
Stock ..	5 0 0	142 17 2	24 3 0	65 4 5	106 8 0	95 10 10	197 19 6	637 2 11
Rent, rates, &c. ..	..	431 11 3	336 17 11	..	..	115 7 6	..	883 16 8
Fencing, roading, &c.	10 4 6	90 13 2	82 19 5	..	20 15 4	63 7 1	10 19 9	278 19 3
Harvesting, threshing, &c.	..	54 0 6	..	..	11 2 9	..	49 15 1	114 18 4
Railage ..	..	18 12 4	57 8 6	..	..	..	37 8 8	113 9 6
Buildings ..	..	36 7 2	35 0 0	..	..	..	..	61 7 2
Sundries ..	32 6 3	187 6 0	142 4 7	..	..	59 17 3	..	421 14 1
Totals ..	683 15 4	1,994 0 7	4,893 2 11	257 18 0	547 10 6	1,936 9 6	1,355 19 0	11,668 15 10

The statement of receipts is extended in the following table:—

Mental Hospital.	Produce sold for Cash.	Value of Produce consumed.	Total.
	£ s. d.	£ s. d.	£ s. d.
Auckland ... .. .	691 1 3	2,670 1 3	3,361 2 6
Christchurch ... .. .	1,935 2 1	3,112 9 4	5,047 11 5
Seacliff ... .. .	2,201 1 10	4,433 19 5	6,635 1 3
Hokitika ... .. .	...	427 1 5	427 1 5
Nelson ... .. .	258 2 9	1,044 13 9	1,302 16 6
Porirua ... .. .	1,440 13 3	2,460 15 6	3,901 8 9
Tokanui ... .. .	114 4 4	793 13 3	907 17 7
Totals...	6,640 5 6	14,942 13 11	21,582 19 5

These returns are highly satisfactory, for if they did not pay the cost of management the farms would remain an essential part of our system. In their beauty and spaciousness and in their varied interests we have a suitable environment for the treatment of mental disorder, and, while providing open-air occupation and recreation for patients, they ensure a plentiful supply of fresh wholesome food.

*Financial Statement.*

The details of expenditure are given in Tables XX and XXI. Circulars were issued at the beginning of the war drawing attention to the necessity of postponing expenditure which was not regarded as urgent. Even when issuing these one realized that our ordinary expenditure did not go beyond necessities, and that no appreciable economies could be exercised. The reductions were in the items surgery and dispensary (2½d. per head), wines, spirits, &c. (¾d.), and farms (6s. 3½d.). On the other hand, the new scale of salaries raised that item by £1 3s. 6d. per patient, and the remaining items were influenced by the rise of prices from August onwards, the advance per patient being as follows: Provisions, £1 1s. 2d.; bedding and clothing, 3s. 7½d.; fuel, light, &c., 3s. 1¾d.; building and repairs, 2½d.; and miscellaneous, 8s. 5¾d.: the net result being an increase of £2 13s. 7d. per patient. The factors making for increase in the cost of maintenance being those influencing the cost of living, there has been as a natural consequence a drop in the amounts paid for patients, amounting over all the patients to 7s. 11¾d. per head per annum. Deducting receipts of all kinds, the total cost per patient exceeded the cost in 1913 by £3 2s. 7½d. Including the items in Table XX, the net cost per patient was £30 4s. 6¼d., or £3 4s. 0¼d. in excess of that for the previous year.

*The Staff.*

On the whole, the work of the staff has been well done under trying circumstances. A number of good men volunteered for service with the Expeditionary Forces, and their places had to be taken by probationers; and the difficulty of getting suitable single men under present circumstances has merely to be stated to be appreciated. In the past we required single men to remain in the service for two years before marrying, in order to have at night a sufficient number on the premises in case of fire; but the time-restrictions with regard to marriage have been cancelled in the emergency, notwithstanding the regulation that no married man permanently appointed to the Public Service is to receive less than £140 per annum. Of the male staff 11·7 per cent. are at the front or in training. The proportion rises to 15·7 per cent. when those over forty years of age are excluded. Last year I wrote at some length on the paramount necessity for discipline in the interest of the patients, and of the slackness which becomes inevitable when local control is lessened. The Medical Superintendents in conference saw you upon this subject, and also interviewed the Commissioner. It was suggested that the nursing staff should be regarded as probationers until the senior examination was passed, a minimum of three years. In that period nurses or attendants may be deemed to have shown their suitability for the work, temperamentally and otherwise, and would pass into the permanent service after an examination on subjects dealing mainly with the practical side of their duties. The superannuation deductions would be made during the probationary period, which would count as service, as is now done with respect to the first year. This will require legislation, but as the end in view is entirely in the interests of the patients one may safely presume that there will be no opposition.

I would again draw attention to the position of officers in this Department with regard to superannuation. With few exceptions their salary is paid partly in cash and partly by allowances in the nature of salary. It is readily acknowledged that no one would accept the positions at the cash salary alone, as that is considerably lower than the ruling wage; but the probationer before making application does a small sum, in which he adds the cost of living to the salary, and then decides that the salary is good enough. To place him in the same position as an officer in any other Department, all that is required is to add the value of the allowances in the nature of salary (accommodation and food) to the cash salary, and deduct the value of the allowances so assessed when payment is made. The deductions for superannuation would then be made from the total salary, and the retiring-allowance would be proportional to that of officers in other Departments, and not unfairly and illogically lower.

The following nurses and attendants, having served the necessary period and had the necessary training, had their names placed on the Register of Mental Nurses on passing the Senior Examination: Agnes Barr, Ethel Winifred Bellamy, Annie Bennett, Clarice Eagle, Annie Julia Eggeling, Jane Pearson Ellwood, Jeannie C. M. Emerson, Mary Gallie, Johannah Kelly, Maud Morris, Mary McDonald, Esther Jane Potter, Margaret Richardson, James Devine, Robert Henry Gray, William McKenzie, Robert Ryce, Alfred Charles Henry Scott.

*Visits of Inspection.*

The following are in addition to the visits paid by District Inspectors and Official Visitors, whose interest in the work and solicitude for the patients is most helpful. On each visit the patients had full opportunity to converse with me, and, if so requested, in private. All possibly rational complaints were investigated, and these were remarkably few, and were found almost invariably to be due to the mental condition of the patient. The general health and condition of the patients was satisfactory.

*Auckland.*—Visited in January, February, April, June, September, 1914, and January, March, and May, 1915. The removal of the turbulent women patients to a special building, and the near prospect of removing to a separate building a similar class of male patients, will alter the whole character of the main building, and will neutralize to a considerable extent its initial error of being placed too near public roads. These facts, together with the gradual modernizing of the main building, will give it an air of comfort, which must react beneficially on the patients. It must be a source of satisfaction to Dr. Beattie, after years of work carried out under difficulties, to find things running more smoothly. It will not be long before further additions will be needed, owing to the expansion of Auckland; and probably the first instalment will take the shape of a nurses' home, liberating in the wards a number of rooms now occupied by the staff.

*Sunnyside.*—Visited in March, April, July, August, November, 1914, and February, March, and June, 1915. Of late, Dr. Gow's health has been indifferent, and I believe the staff has exercised a special effort to lighten the anxieties of his position. Dr. Lee, who was anxious to offer his services

at the beginning of the war, loyally set aside his personal desires in this matter until he could be more easily spared, and I cannot allow the genuine good work he has done to pass without a word of commendation. The reports of Mr. Smail, who is a daily visitor, are very encouraging. Miss O'Flynn, the Sub-Matron, returned to the Old Country to offer her services to the Red Cross. The installation of electric light has added to the general cheerfulness of the wards.

*Seacliff*.—Visited in March, April, July, August, November, 1914, and in March and June, 1915. Considerable building operations are being carried out by our own staff, assisted by temporary employees. Fifty women patients are at Waitati; but as it will be more expedient and economical to group all the women patients at Seacliff for some years to come, they will be retransferred in due course. A felt want is a unit for "criminal" patients, though persons of this class needing segregation from others are very few. In practice one finds that the majority of patients committed under Part IV of the Act are among the better-conducted; there are a few noteworthy exceptions, and these are a source of great anxiety and cost. On the other hand, there are some cases, chiefly epileptics and paranoiacs, just as dangerous as the special cases alluded to, but differing technically in classification merely because they were placed under supervision in time. The Camp was purchased to accommodate both classes, but in deference to the objections raised in the district it was and is used as an overflow establishment for well-conducted patients. We should now build a secure place at Waitati to take the more dangerous not alone from Seacliff, but, as far as practicable, from other institutions. Dr. Buchanan, the Senior Assistant Medical Officer, left with the Expeditionary Force and was succeeded by Dr. Gray.

*Hokitika*.—Visited in March, July, September, 1914, and in June, 1915. Nothing calling for particular comment. Since the Corporation abattoirs have been opened we have bought our own cattle, and the once indifferent meat-supply is now good.

*Nelson*.—Visited in March, November, December, 1914, and April this year. The scheme for gradual rebuilding foreshadowed last year has been put in hand, temporary building being in progress to house those displaced as each section of the old building is pulled down. The site for the reception hospital has been prepared sufficiently far from the main building and the public road to ensure privacy. I mentioned in my last report that Dr. and Mrs. Howard had taken over the management of the Richmond Home, and am pleased to add there was no break in the continuity of the kindly parental care of the boys. I regret to report that Dr. Howard died recently; but the home continues in the capable hands of Mrs. Howard, Dr. Jeffreys acting as Visiting Medical Officer.

*Porirua*.—Visited in January, March, May, August, December, 1914, and in February and April this year; moreover, owing to Dr. McKillop, the senior assistant, having left with the Expeditionary Force, and the general difficulty in getting medical officers, Dr. Gribben, the Deputy Inspector-General, has recently been doing relief duty. The buildings in progress now will give accommodation for 100, and a number of patients will be transferred soon to Tokanui. The additional day-rooms are a great boon.

*Tokanui*.—Visited in February, April, May, September, December, 1914, and in January and May, 1915. The neat cottages of the married staff and the grassed undulations give the approach quite a settled appearance. Further metalling of the Te Mawhai Road is urgently needed; a lot of good work has been done, but to obtain its benefit it needs completing. Steam is now being led into the main kitchen, and the temporary kitchen will soon be abandoned. The bakehouse is in use. The drought last season was severely felt; and the progress on the farm, though on the whole satisfactory, was somewhat checked by the serious illness of Mr. Alexander, the Farm-manager, of whose whole-hearted energy and devotion in the service of the Department, when health permitted it, I cannot speak too highly.

*Ashburn Hall*.—Visited in March, April, July, August, 1914, and March and June, 1915. On each occasion this licensed institution was in excellent order.

#### Conclusion.

In concluding the report on the work of another year, I have to thank you for the substantial building programme authorized, which is now well on the way, and for your support in all matters for the betterment of the institutions and patients.

I have also to express my indebtedness to the Superintendents and staffs of the hospitals and the Head Office staff for a record of work well done. The duties have been particularly arduous for the senior officers owing to the number of their colleagues who have gone to the front, and there has been no complaint. I would have been surprised had there been complaint under the circumstances; nevertheless, the fact that there was not is gratifying.

FRANK HAY.

## MEDICAL SUPERINTENDENTS' REPORTS.

### AUCKLAND MENTAL HOSPITAL.

WE had 223 admissions during 1914, of whom 134 were male and 89 female. The number discharged and died was 196, leaving a total residue of 923, of whom 60·78 per cent. were male and 39·2 were female.

The recovery-rate was above the average—52·9 per cent. of males and 44·9 per cent. of females.

The death-rate was 8·8 per cent. The number of deaths was 80, and of these 16 were due to general paralysis, 12 to phthisis, and 12 to senile decay. For the first time for some years no deaths were due to typhoid fever.

The chief causes of the insanity were heredity, alcohol, senility, and syphilis.

During the year our work was much hampered by overcrowding. On the female side this has now been removed by the opening of the new auxiliary. The male auxiliary will be completed in a few months; on its completion a total reorganization will be effected on both sides, and a very much improved classification adopted.

The drainage scheme, which will ultimately connect us with the new city drainage, is progressing, and should be completed before the end of next year. Our water-supply is good, but the hot-water service has long required remodelling.

The year has been one of hard work under very trying circumstances. During the latter part of the year nurses and attendants were more readily available than had been the case for some years. I regret, however, that the old type has apparently died out. Few of the nurses stay long enough to undergo a proper training; and the work for the most part, especially on the female side, has been much below the standard that one should reasonably anticipate. Our reliance has still to be placed upon those who joined us years ago, and who all along have exhibited interest and fidelity.

My thanks are due to Dr. Tizard, whose knowledge of the work and whose devotion to it have given me a pleasure that I have for years been denied. Our thanks are also due to the District Inspector and the Official Visitors for their continued interest and support; to the proprietors of the *Herald*; to Mr. A. Macpherson for his control of the religious services; and to several city bands and bowling clubs for contributing to the amusement and recreation of our patients. Special thanks are also due to Miss Fleming, who for some years has provided us with a weekly cab for patients' use.

R. M. BEATTIE.

#### SUNNYSIDE MENTAL HOSPITAL.

At the beginning of 1914 there were 652 patients on the books, of whom 339 were males and 313 females. During the year there were admitted 89 males and 57 females, and at the end of the year there were remaining 683, an increase of 31 patients for the year.

There were 51 deaths, which gives a death-rate of 7·5 on the average number resident.

The recovery-rate was less than usual. There were 50 recoveries—30 males and 20 females—giving a rate of 34·4 on admissions.

Following on my remarks of last year about lack of accommodation and the requirements, I am glad to be able to record that the nurses' home is well under way, and will be finished during the present year. This will release about fifty single rooms, which it is our intention to use not for the noisy, but for the better-class patients, thus giving the deserving a degree of privacy which I feel sure will be appreciated. Besides this, the Public Works Department have in course of erection a large reception and hospital block on the newly acquired site off Martin's Lane. This building when finished will give us much assistance in classification, and also in modern methods of treatment both of the acute mental cases and also of the ordinary sick cases which are bound to occur amongst a population such as ours.

The plans are prepared for the additions to D Ward, and the building will be gone on with as soon as possible.

We are now using the Lake Coleridge electric supply as far as we have wired, and we are still pushing on with the wiring. The whole electric supply is furnishing us with much food for thought, as in the new building we propose to eliminate other sources of lighting, heating, and power as much as possible.

The fire-alarm system is inadequate and untrustworthy, and a new system is urgently required.

The general health of the patients has been good, and there have been few incidents of note during the year. The annual picnic, fortnightly dances, concerts, cricket, football, and bowling matches have been greatly appreciated by the patients. Thanks are due to the outsiders who have participated in these, and also to the picture and theatre proprietors for free passes for patients to their entertainments.

During most of the year I have been ably assisted by Dr. Lee, who has proved himself loyal and capable, and to him and the staff in general I tender my sincere thanks for their assistance during the year.

W. BAXTER GOW, M.D.

#### SEACLIFF MENTAL HOSPITAL.

In the beginning of the year there were 924 patients and at the close 946. Exclusive of transfers from other institutions, 162 patients were admitted, and 82 were discharged, relieved or recovered—being just over half the number admitted.

During the year 22 voluntary patients were under treatment, and 18 voluntaries were discharged.

The general health of the patients has been good. There were 57 deaths, being practically 5 per cent. of the total number under treatment. More than half the deaths were among patients between sixty and ninety years of age. Apart from senile decay, the main cause of death was general paralysis—viz., 10 cases. There was one case of suicide—a quiet demented patient, who had been trusted on parole for many years, unexpectedly hanging himself—without any apparent cause.

Extensive and important improvements in the accommodation for patients and staff have been undertaken during the year, and are nearing completion. These include a new ward to accommodate about 50 women patients, a large cottage annex for about 15 of the more sensitive or curable male patients, bedrooms for 20 nurses, and a large dining-room for the attendants.



On the side of recreation, a large, attractive, open pavilion has been put up facing the bowling-green.

A great improvement has been effected in the bakery by installing an up-to-date plant. A milking-machine apparatus, set up in the main farm buildings, is also doing excellent work.

The most urgent needs which ought to be met in 1915 are—(1) Improved bathing facilities; (2) suitable accommodation for patients suffering from tuberculosis; (3) a separate quarter for so-called "criminal lunatics"; (4) further accommodation for female patients; (5) additions and improvements to the main kitchen.

Farm and garden returns for the year have been very satisfactory. There has been some falling-off in the fishing returns, and steps have been taken to improve this source of food-supply, which has become doubly important owing to the war.

The Orokonui Branch Mental Hospital has been well and harmoniously run by Dr. Ross and his staff; but more means should be provided for the adequate development of this institution, as it could then further relieve Seacliff.

The Camp Auxiliary at the Peninsula continues to be well conducted.

I have to thank Dr. Gray, Dr. Ross, and other colleagues for their loyal help and support at all times.

Religious services have been held by various denominations throughout the year.

The thanks of the authorities are due to the Otago Daily Times and Witness Company and to the Evening Star Company for newspapers supplied free, and also to other donors and entertainers who have contributed to the amenities of our institutions.

F. TRUBY KING.

### PORIRUA MENTAL HOSPITAL.

During the year 1914 the total number of patients under treatment was 1,159, and the average number resident 908. We commenced with 892 on the register, and ended with 946 (523 males and 423 females). Of the 267 patients admitted, 219 (138 males and 81 females) were admitted for the first time. 127 patients were discharged recovered, which makes a recovery-rate of slightly over 48 per cent. of the number admitted. Fifty-six patients died, a ratio of 6.16 per cent. of the average number in residence. The recovery-rate was 8 per cent. and the death-rate  $1\frac{1}{2}$  per cent. less than in the previous year.

I observe that after the declaration of war there was a decline in the average number of admissions per month as far as male patients were concerned, but a fairly well-marked increase in the number of female patients admitted. The numbers dealt with, however, are too small to warrant me in coming to any conclusion on the question whether the war has had any appreciable influence on the incidence of insanity in this part of the Dominion.

Dr. McKillop, who has done very good work at this mental hospital since October, 1911, as Senior Assistant Medical Officer, and who had had training and experience in military duty in England, obtained leave in August to join the New Zealand Military Force. He received a commission in the Army Medical Corps of the Expedition which went to Samoa. He subsequently returned to Wellington and joined the Second Reinforcements which proceeded to Egypt.

Dr. Simpson, the Junior Medical Officer, whose value I appreciated, was transferred to Christchurch Mental Hospital at the end of January. His position here was not filled except for a short time during April and May, when Dr. Davie acted as locum tenens. The difficulty of obtaining medical men to fill vacancies on the staff which was felt in the first half of the year was greatly accentuated on the outbreak of war. When Dr. McKillop joined the Army in August I was left without any resident assistant. None was obtainable, but, fortunately, Dr. Graham Robertson, who had just given up general practice in this district, offered to act as a non-resident assistant, which he continued to do until the end of the year.

No changes in the higher officials of the various departments of the institution have taken place. Two new appointments were sanctioned—a Sub-Matron and an assistant head attendant. The former was filled by Miss Hamil, who was a charge nurse at Seacliff, and the latter by Mr. James Brown, who was charge night attendant here. Both, I believe, will do good service in their new positions, which were designed to give more effective supervision of the nursing staff.

Among the attendants, changes were brought about by the war. Seven of them on the permanent staff and several of the probationers joined the New Zealand Forces which went to the front, and it is pleasing to note that one of the latter—W. Singleton—has been awarded the Distinguished Service Medal. Another probationary attendant—A. E. Gascoigne, a young man of exceptional promise—who enlisted was killed in action at the Dardanelles.

During the year the two large day-rooms referred to last year—one for male and one for female patients—were in course of building, and have since been completed and occupied. The site for the new auxiliary block containing wards for recent cases and invalids was prepared. I trust that this important addition will be completed and ready for use before the end of 1915, as our present accommodation, especially for female patients, is overtaxed.

The general health of the patients has been good. No epidemic of consequence or serious accident has occurred.

GRAY HASSELL.

APPENDIX.

TABLE I.—SHOWING THE ADMISSIONS, READMISSIONS, DISCHARGES, AND DEATHS IN MENTAL HOSPITALS DURING THE YEAR 1914.

					M.	F.	T.	M.	F.	T.
In mental hospitals, 1st January, 1914	..	..	..	..				2,332	1,632	3,964
Admitted for the first time	..	..	..	..	440	294	734	}	526	366
Readmitted	..	..	..	..	69	65	134			
Transfers..	..	..	..	..	17	7	24			
Total under care during the year	..	..	..	..				2,858	1,998	4,856
Discharged and died—										
Recovered	..	..	..	..	207	162	369	}	450	295
Relieved	..	..	..	..	27	29	56			
Not improved	..	..	..	..	23	16	39			
Died	..	..	..	..	193	88	281			
Remaining in mental hospitals, 31st December, 1914	..	..	..	..				2,408	1,703	4,111
Increase over 31st December, 1913	..	..	..	..				76	71	147
Average number resident during the year	..	..	..	..				2,309	1,641	3,950

TABLE II.—ADMISSIONS, DISCHARGES, AND DEATHS, WITH THE MEAN ANNUAL MORTALITY AND PROPORTION OF RECOVERIES, ETC., PER CENT. ON THE ADMISSIONS, ETC., DURING THE YEAR 1914.

Mental Hospitals.	In Mental Hospitals on 1st January, 1914.			Admissions in 1914.									Total Number of Patients under Care.		
				Admitted for the First Time.			Readmitted.			Total.					
Auckland .. .. .	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Christchurch .. .. .	552	344	896	120	69	189	14	20	34	134	89	223	686	433	1,119
Dunedin (Seacliff) .. .. .	339	313	652	74	45	119	15	12	27	89	57	146	428	370	798
Hokitika .. .. .	546	378	924	79	68	147	12	10	22	91	78	169	637	456	1,093
Nelson .. .. .	202	68	270	9	8	17	4	3	7	13	11	24	215	79	294
Porirua .. .. .	96	101	197	16	17	33	4	5	9	20	22	42	116	123	239
Tokanui .. .. .	485	407	892	138	81	219	28	20	48	166	101	267	651	508	1,159
Ashburn Hall (private mental hospital)	89	..	89	..	..	..	8	..	8	8	..	8	97	..	97
Totals .. .. .	23	21	44	4	6	10	1	2	3	5	8	13	28	29	57
2,332 1,632 3,964				440 294 734			86 72 158			526 366 892			2,858 1,998 4,856		

Mental Hospitals.	Patients discharged and died.									In Mental Hospitals on 31st December, 1914.					
	Discharged recovered.			Discharged not recovered.			Died.						Total discharged and died.		
Auckland .. .. .	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Christchurch .. .. .	71	40	111	3	2	5	51	29	80	125	71	196	561	362	923
Dunedin (Seacliff) .. .. .	30	20	50	9	5	14	35	16	51	74	41	115	354	329	683
Hokitika .. .. .	23	30	53	14	22	36	43	15	58	80	67	147	557	389	946
Nelson .. .. .	7	5	12	2	2	4	12	7	19	21	14	35	194	65	259
Porirua .. .. .	2	7	9	..	1	1	11	3	14	13	11	24	103	112	215
Tokanui .. .. .	72	55	127	18	12	30	38	18	56	128	85	213	523	423	946
Ashburn Hall (private mental hospital)	..	..	..	2	..	2	1	..	1	3	..	3	94	..	94
Totals .. .. .	2	5	7	2	1	3	2	..	2	6	6	12	22	23	45
207 162 369				50 45 95			193 88 281			450 295 745			2,408 1,703 4,111		

Mental Hospitals.	Average Number resident during the Year.			Percentage of Recoveries on Admissions during the Year.			Percentage of Deaths on Average Number resident during the Year.			Percentage of Deaths on the Admissions.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Auckland .. .. .	553	350	903	52.99	45.45	50.00	9.22	8.29	8.86	33.06	32.95	36.36
Christchurch .. .. .	336	320	656	34.09	35.09	34.52	10.42	5.00	7.77	39.77	28.07	35.17
Dunedin (Seacliff) .. .. .	524	378	902	25.84	40.00	32.31	8.21	3.97	6.43	48.31	20.00	35.37
Hokitika .. .. .	196	62	258	53.85	45.45	50.00	6.12	11.29	7.36	92.31	63.64	79.17
Nelson .. .. .	82	102	184	11.76	31.82	23.08	13.41	2.94	7.61	64.71	13.64	35.90
Porirua .. .. .	501	407	908	44.17	55.00	46.01	7.58	4.42	6.17	23.31	18.00	21.29
Tokanui .. .. .	94	..	94	..	..	..	1.06	..	1.06	..	..	..
Ashburn Hall (private mental hospital)	23	22	45	40.00	83.33	63.64	8.70	..	4.44	40.00	..	13.18
2,309 1,641 3,950				40.67 45.12 42.51			8.36 5.36 7.11			37.92 24.51 32.37		

TABLE III.—AGES OF ADMISSIONS.

Ages.	Auckland.	Christchurch.	Dunedin (Seacliff).	Hokitika.	Nelson.	Portlana.	Tokanui.	Ashburn Hall (Private Mental Hospital).	Total.
Under five years									
From 5 to 10 years	M. F. T. .. .. .	M. F. T. 0 1 1	M. F. T. 1 0 1	M. F. T. .. .. .	M. F. T. 2 0 2	M. F. T. 1 2 3	M. F. T. .. .. .	M. F. T. .. .. .	M. F. T. 1 0 1
" 10 " 15 "	" 1 0 1	" 7 2 9	" 1 2 3	" 3 3 6	" 2 2 4	" 6 4 10	" 1 0 1	" 1 0 1	2 1 3
" 15 " 20 "	" 3 11 14	" 18 12 30	" 23 21 44	" 4 4 8	" 4 4 5	" 32 20 52	" 1 0 1	" 1 0 1	3 4 7
" 20 " 30 "	" 30 21 51	" 26 11 37	" 20 13 33	" 2 2 4	" 6 3 9	" 46 32 78	" 2 0 2	" 1 2 3	19 21 40
" 30 " 40 "	" 29 24 53	" 12 10 22	" 12 17 29	" 1 1 2	" 1 1 2	" 32 19 51	" 1 0 1	" 1 2 3	112 82 194
" 40 " 50 "	" 26 16 42	" 11 9 20	" 14 13 27	" 0 1 1	" 1 1 2	" 18 14 32	" 3 0 3	" 0 2 2	132 94 226
" 50 " 60 "	" 24 10 34	" 6 8 14	" 10 6 16	" 3 0 3	" 0 2 2	" 15 3 18	" 1 0 1	" 0 2 2	92 69 161
" 60 " 70 "	" 14 1 15	" 6 4 10	" 7 3 10	" .. .. .	" .. .. .	" 12 5 17	" .. .. .	" .. .. .	72 50 122
" 70 " 80 "	" 4 4 8	" 2 0 2	" 2 1 3	" .. .. .	" .. .. .	" 1 1 2	" .. .. .	" .. .. .	47 22 69
" 80 " 90 "	" 1 0 1	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	34 18 52
" 90 " 100 "	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	6 2 8
" 100 " 105 "	" 2 1 3	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	.. .. .
Unknown	" 0 1 1	" 1 0 1	" .. .. .	" .. .. .	" .. .. .	" 3 1 4	" .. .. .	" .. .. .	2 1 3
Transfers	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	" .. .. .	4 2 6
Totals	134 89 223	89 57 146	91 78 169	13 11 24	20 22 42	166 101 267	8 0 8	5 8 13	526 366 892

TABLE IV.—DURATION OF DISORDER ON ADMISSION.

	Auckland.	Christchurch.	Dunedin (Seacliff).	Hokitika.	Nelson.	Portlana.	Tokanui.	Ashburn Hall (Private Mental Hospital).	Total.
First Class (first attack and within 3 months on admission)	M. F. T. 104 48 152	M. F. T. 46 25 71	M. F. T. 39 24 63	M. F. T. 7 7 14	M. F. T. 3 6 9	M. F. T. 108 52 160	M. F. T. .. .. .	M. F. T. 2 2 4	M. F. T. 309 164 473
Second Class (first attack above 3 months and within 12 months on admission)	" 7 5 12	" 8 6 14	" 7 9 16	" 2 1 3	" 4 2 6	" 6 6 12	" .. .. .	" 2 4 6	36 33 69
Third Class (not first attack, and within 12 months on admission)	" 13 20 33	" 23 17 40	" 24 24 48	" 4 3 7	" 3 7 10	" 30 25 55	" .. .. .	" 1 1 2	98 97 195
Fourth Class (first attack or not, but of more than 12 months on admission)	" 10 15 25	" 11 9 20	" 19 18 37	" .. .. .	" 7 7 14	" 19 17 36	" .. .. .	" 0 1 1	66 67 133
Transfers	" 0 1 1	" 1 0 1	" 2 3 5	" .. .. .	" 3 0 3	" 3 1 4	" 8 0 8	" .. .. .	17 5 22
Totals	134 89 223	89 57 146	91 78 169	13 11 24	20 22 42	166 101 267	8 0 8	5 8 13	526 366 892



TABLE VII.—CONDITION AS TO MARRIAGE.

						Admission.			Discharges.			Deaths.		
						M.	F.	T.	M.	F.	T.	M.	F.	T.
AUCKLAND—						86	33	119	45	21	66	23	9	32
Single ..	..	..	..	..	..	38	43	81	22	17	39	21	13	34
Married ..	..	..	..	..	..	10	12	22	3	4	7	6	7	13
Widowed ..	..	..	..	..	..	..	..	..	2	0	2	1	0	1
Unknown ..	..	..	..	..	..	0	1	1	2	0	2	..	..	..
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	134	89	223	74	42	116	51	29	80
CHRISTCHURCH—						55	20	75	19	7	26	20	5	25
Single ..	..	..	..	..	..	26	27	53	10	11	21	10	4	14
Married ..	..	..	..	..	..	5	10	15	2	4	6	5	7	12
Widowed ..	..	..	..	..	..	2	0	2	8	3	11	..	..	..
Unknown ..	..	..	..	..	..	1	0	1	..	..	..	..	..	..
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	89	57	146	39	25	64	35	16	51
DUNEDIN (Seacliff)—						63	42	105	24	29	53	21	6	27
Single ..	..	..	..	..	..	23	25	48	9	21	30	17	6	23
Married ..	..	..	..	..	..	3	8	11	2	1	3	5	3	8
Widowed ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unknown ..	..	..	..	..	..	2	3	5	2	1	3	..	..	..
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	91	78	169	37	52	89	43	15	58
HOKITIKA—						7	5	12	5	3	8	9	2	11
Single ..	..	..	..	..	..	5	5	10	4	4	8	2	1	3
Married ..	..	..	..	..	..	1	1	2	..	..	..	1	3	4
Widowed ..	..	..	..	..	..	..	..	..	..	..	..	0	1	1
Unknown ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	13	11	24	9	7	16	12	7	19
NELSON—						13	9	22	2	2	4	6	3	9
Single ..	..	..	..	..	..	3	12	15	0	5	5	5	0	5
Married ..	..	..	..	..	..	1	1	2	..	..	..	..	..	..
Widowed ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unknown ..	..	..	..	..	..	3	0	3	0	1	1	..	..	..
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	20	22	42	2	8	10	11	3	14
PORIRUA—						97	36	133	52	23	75	15	6	21
Single ..	..	..	..	..	..	59	58	117	28	38	66	17	7	24
Married ..	..	..	..	..	..	7	6	13	5	5	10	6	5	11
Widowed ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unknown ..	..	..	..	..	..	3	1	4	5	1	6	..	..	..
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	166	101	267	90	67	157	38	18	56
TOKANUI—						..	..	..	2	0	2	..	..	..
Single ..	..	..	..	..	..	..	..	..	..	..	..	1	0	1
Married ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Widowed ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unknown ..	..	..	..	..	..	8	0	8	..	..	..	..	..	..
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	8	0	8	2	0	2	1	0	1
ASHBURN HALL (private mental hospital)—						3	3	6	2	4	6	1	0	1
Single ..	..	..	..	..	..	1	2	3	1	0	1	..	..	..
Married ..	..	..	..	..	..	1	1	2	1	1	2	..	..	..
Widowed ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unknown ..	..	..	..	..	..	0	2	2	0	1	1	1	0	1
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	5	8	13	4	6	10	2	0	2
TOTALS—						324	148	472	151	89	240	95	31	126
Single ..	..	..	..	..	..	155	172	327	74	96	170	73	31	104
Married ..	..	..	..	..	..	28	39	67	13	15	28	23	25	48
Widowed ..	..	..	..	..	..	2	0	2	10	3	13	1	1	2
Unknown ..	..	..	..	..	..	17	7	24	9	4	13	1	0	1
Transfers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	..	..	..	..	..	526	366	892	257	207	464	193	88	281

TABLE VIII.—NATIVE COUNTRIES.

Countries.	Auckland.	Christchurch.	Dunedin (Seaciff).	Hokitika.	Nelson.	Porirua.	Tokanui.	Ashburn Hall (Private M.H.).	Total.
England and Wales	M. F. T. 144 85 229	M. F. T. 101 100 201	M. F. T. 100 59 159	M. F. T. 36 13 49	M. F. T. 13 25 38	M. F. T. 153 98 251	M. F. T. 26 0 26	M. F. T. 5 6 11	M. F. T. 578 386 964
Scotland	28 18 46	24 21 45	96 66 162	13 7 20	5 7 12	44 28 72	4 0 4	6 4 10	220 151 371
Ireland	73 50 123	49 45 94	84 65 149	47 9 56	12 15 27	56 60 116	13 0 13	..	334 244 578
New Zealand	190 175 365	149 142 291	218 167 385	57 24 81	66 55 121	202 205 407	39 0 39	9 12 21	930 780 1710
Australian States	30 12 42	11 8 19	21 20 41	11 4 15	1 3 4	25 13 38	2 0 2	0 1 1	101 61 162
France	2 0 2	..	..	..	..	1 0 1	..	..	3 0 3
Germany	7 2 9	3 1 4	10 1 11	6 0 6	1 0 1	4 5 9	1 0 1	1 0 1	33 9 42
Austria	10 1 11	1 1 2	1 0 1	..	..	0 1 1	4 0 4	..	16 3 19
Norway	4 0 4	2 0 2	4 1 5	1 0 1	0 2 2	1 0 1	1 0 1	..	13 3 16
Sweden	6 1 7	3 0 3	3 0 3	6 0 6	1 0 1	6 4 10	1 0 1	..	26 5 31
Denmark	3 0 3	2 2 4	2 2 4	..	..	6 0 6	1 0 1	..	14 4 18
Italy	4 0 4	2 0 2	1 0 1	7 0 7	0 1 1	4 0 4	..	..	18 1 19
China	3 0 3	1 0 1	11 0 11	6 0 6	..	2 0 2	..	..	23 0 23
Maoris	11 2 13	1 1 2	..	..	2 1 3	4 4 8	1 0 1	..	19 8 27
Other countries	24 1 25	5 8 13	6 8 14	4 0 4	2 3 5	15 5 20	1 0 1	1 0 1	58 25 83
Unknown	22 15 37	..	..	0 8 8	..	..	..	..	22 23 45
Totals	561 362 923	354 329 683	557 389 946	194 65 259	103 112 215	523 423 946	94 0 94	22 23 45	2408 1703 4111

TABLE IX.—AGES OF PATIENTS ON 31ST DECEMBER, 1914.

Ages.	Auckland.	Christchurch.	Dunedin (Seaciff).	Hokitika.	Nelson.	Porirua.	Tokanui.	Ashburn Hall (Private M.H.).	Total.
From 1 to 5 years	M. F. T. 1 1 2	M. F. T. 2 1 3	M. F. T. 1 0 1	M. F. T. 1 0 1	M. F. T. 5 1 6	M. F. T. 2 2 4	M. F. T. 6 0 6	M. F. T. 2 0 2	M. F. T. 1 0 1
" 5 " 10 "	4 1 5	0 1 1	1 3 4	..	6 1 7	6 7 13	..	..	10 5 15
" 10 " 15 "	9 11 20	8 5 13	3 5 8	..	8 2 10	8 10 18	..	..	17 13 30
" 15 " 20 "	68 42 110	42 34 76	59 46 105	7 3 10	19 9 28	86 46 132	6 0 6	2 0 2	37 33 70
" 20 " 30 "	121 70 191	87 70 157	123 75 198	45 13 58	15 22 37	114 95 209	31 0 31	1 0 1	289 180 469
" 30 " 40 "	125 105 230	70 80 150	125 92 217	42 13 55	15 30 45	106 99 205	20 0 20	2 7 9	537 345 882
" 40 " 50 "	124 65 189	60 66 126	104 74 178	36 10 46	16 24 40	105 92 197	16 0 16	7 6 13	505 426 931
" 50 " 60 "	59 40 99	46 44 90	75 49 124	30 11 41	13 15 28	62 45 107	11 0 11	4 6 10	468 337 805
" 60 " 70 "	28 19 47	34 24 58	56 35 91	19 8 27	5 4 9	27 24 51	3 0 3	5 3 8	300 210 510
" 70 " 80 "	7 5 12	5 4 9	10 10 20	2 1 3	1 0 1	7 3 10	..	1 1 2	177 117 294
Upwards of 80 years	15 3 18	..	..	12 6 18	0 4 4	..	7 0 7	..	33 24 57
Unknown	..	..	..	..	..	..	..	..	34 13 47
Totals	561 362 923	354 329 683	557 389 946	194 65 259	103 112 215	523 423 946	94 0 94	22 23 45	2408 1703 4111

TABLE X.—LENGTH OF RESIDENCE OF PATIENTS WHO DIED DURING 1914.

Length of Residence.	Auckland.			Christchurch.			Dunedin (Seacliff).			Hokitika.			Nelson.			Porirua.			Tokanui.			Ashburn Hall (Private M.H.).			Total.			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.				
Under 1 month	4	6	10	4	1	5	5	2	7	1	1	2	1	0	1	6	3	9	1	0	1	2	1	3	34	21	13	34
From 1 to 3 months	10	3	13	1	2	3	3	1	4	..	..	..	2	0	2	4	1	5	..	..	..	..	..	20	7	27		
" 3 " 6 "	4	0	4	6	2	6	3	1	4	..	..	..	1	0	1	4	1	5	..	..	..	..	..	18	4	22		
" 6 " 9 "	6	0	6	1	0	1	1	0	1	..	..	..	1	0	1	..	..	..	..	..	..	..	..	9	0	9		
" 9 " 12 "	4	0	4	3	0	3	2	1	3	1	1	1	0	1	1	5	0	5	..	..	..	..	..	15	3	18		
" 1 " 2 years	7	3	10	8	0	8	10	1	11	2	0	2	1	0	1	3	3	6	1	0	1	2	0	2	34	7	41	
" 2 " 3 "	7	1	8	0	1	1	1	1	2	..	..	..	1	1	2	..	..	..	..	..	..	..	..	12	3	15		
" 3 " 5 "	5	0	5	1	3	4	5	0	5	..	..	..	1	1	2	2	0	7	..	..	..	..	..	17	6	23		
" 5 " 7 "	0	6	6	2	0	2	1	1	2	2	2	4	..	..	..	1	3	4	..	..	..	..	..	4	11	15		
" 7 " 10 "	1	2	3	0	2	2	1	1	2	..	..	..	..	..	..	0	1	1	..	..	..	..	..	4	8	12		
" 10 " 12 "	1	1	2	3	0	3	1	0	1	2	1	3	0	1	1	2	0	2	..	..	..	..	..	9	3	12		
" 12 " 15 "	0	2	2	2	0	2	5	0	5	..	..	..	1	0	1	..	..	..	..	..	..	..	..	8	2	10		
Over 15 years ..	1	4	5	4	5	9	5	5	10	2	2	4	3	0	3	6	4	10	..	..	..	..	..	21	20	41		
Died while absent on trial	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2		
Totals ..	51	29	80	35	16	51	43	15	58	12	7	19	11	3	14	38	18	56	1	0	1	2	0	2	193	88	281	

TABLE XI.—LENGTH OF RESIDENCE OF PATIENTS DISCHARGED "RECOVERED" DURING 1914.

Length of Residence.	Auckland.			Christchurch.			Dunedin (Seacliff).			Hokitika.			Nelson.			Porirua.			Tokanni.			Ashburn Hall (Private M.H.).			Total
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
Under 1 month	1	0	1	1	0	1	1	0	1	1	1	2	..	..	..	20	4	24	..	..	..	..	..	..	
From 1 to 3 months	23	12	35	11	8	19	7	12	19	..	..	..	..	..	..	22	14	36	..	..	..	1	2	3	
" 3 " 6 "	15	10	25	10	4	14	9	7	16	3	0	3	1	3	4	11	17	28	..	..	..	1	2	3	
" 6 " 9 "	9	6	15	3	3	6	2	1	3	1	2	3	1	3	4	6	7	13	..	..	..	..	..	..	
" 9 " 12 "	2	2	4	3	0	3	2	3	5	1	2	3	..	..	..	3	2	5	..	..	..	0	1	1	
" 1 " 2 years	12	6	18	1	4	5	1	3	4	1	0	1	0	1	1	5	7	12	..	..	..	..	..	..	
" 2 " 3 "	2	2	4	..	..	..	0	1	1	..	..	..	..	..	..	2	1	3	..	..	..	..	..	..	
" 3 " 5 "	2	1	3	0	1	1	1	3	4	..	..	..	..	..	..	2	1	3	..	..	..	..	..	..	
" 5 " 7 "	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	0	2	2	..	..	..	..	..	..	
" 7 " 10 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	0	1	..	..	..	..	..	..	
" 10 " 12 "	1	0	1	1	0	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
" 12 " 15 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Over 15 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Not insane ..	3	0	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Totals ..	71	40	111	30	20	50	23	30	53	7	5	12	2	7	9	72	55	127	..	..	..	2	5	7	

TABLE XII.—CAUSES OF DEATH.

Causes.	Auckland.	Christchurch.	Dunedin (Seacliff).	Hokitika.	Nelson.	Porirua.	Tokanui.	Ashburn Hall.	Total.
	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.
<i>General Diseases—</i>									
Enteric fever .. ..	..	..	..	..	..	0 1	..	..	0 1
Influenza .. ..	..	..	..	..	0 1	..	..	..	0 1
<i>Tuberculosis—</i>									
Of lung (not acute) ..	7 5	0 4	5 3	1 0	..	2 5	..	..	15 17
Acute phthisis .. ..	..	..	..	..	0 1	..	..	..	0 1
Acute miliary tuberculosis ..	..	..	2 1	..	..	..	..	..	2 1
Syphilis .. ..	..	..	..	..	..	0 1	..	..	0 1
Cancer .. ..	1 1	0 1	..	..	..	3 0	..	..	4 2
Diabetes .. ..	1 0	..	0 1	..	..	..	..	..	1 1
Anæmia, pernicious .. ..	1 0	..	0 1	..	..	..	..	..	1 1
Purpura hæmorrhagica .. ..	..	0 1	..	..	..	..	..	..	0 1
Toxæmia, general .. ..	..	..	0 1	..	..	..	..	..	0 1
Alcoholism .. ..	..	0 1	..	..	..	..	..	..	0 1
<i>Diseases of the Nervous System—</i>									
Locomotor ataxy .. ..	..	..	1 0	..	..	..	..	..	1 0
Cerebral hæmorrhage, apoplexy	1 0	1 0	4 2	1 1	1 0	0 1	..	..	8 4
Softening of the brain .. ..	..	..	..	1 0	..	..	..	..	1 0
Paraplegia, spastic .. ..	..	1 0	..	..	..	..	..	..	1 0
Hemiplegia .. ..	..	..	..	0 1	..	..	..	..	0 1
General paralysis of insane ..	16 0	2 0	10 0	..	1 0	7 0	..	..	36 0
Acute delirium .. ..	..	..	..	..	..	1 0	..	1 0	2 0
Mania, exhaustion from .. ..	2 1	1 1	1 0	..	..	..	..	..	4 2
Melancholia, exhaustion from ..	2 1	1 0	..	..	..	1 1	..	..	4 2
Epilepsy .. ..	2 2	1 0	1 0	2 0	..	1 0	..	..	7 2
Organic brain-disease .. ..	5 6	2 0	..	..	..	1 0	..	1 0	9 6
<i>Diseases of the Respiratory System—</i>									
Broncho pneumonia .. ..	..	1 0	0 1	..	..	..	..	..	1 1
Lobar pneumonia .. ..	0 1	2 0	1 0	1 0	2 1	1 0	..	..	7 2
Pulmonary congestion .. ..	..	1 1	..	..	..	..	..	..	1 1
Empyema .. ..	..	..	..	..	1 0	..	..	..	1 0
<i>Diseases of the Circulatory System—</i>									
Pericarditis .. ..	..	..	0 1	..	..	..	..	..	0 1
Valvular disease of the heart ..	..	1 0	2 1	1 0	1 0	..	..	..	5 1
Fatty degeneration of the heart ..	..	0 1	..	..	..	..	..	..	0 1
Aneurism .. ..	..	..	..	..	..	1 0	..	..	1 0
Atheroma .. ..	..	..	1 0	..	..	..	..	..	1 0
<i>Diseases of the Digestive System—</i>									
Enteritis, simple (and diarrhœa) ..	..	..	1 1	..	..	..	..	..	1 1
Gastro-enteritis .. ..	0 1	..	..	..	1 0	..	..	..	1 1
Gastritis .. ..	..	1 0	..	..	..	..	..	..	1 0
Duodenal ulcer .. ..	..	1 0	..	..	..	..	..	..	1 0
Intestinal obstruction .. ..	1 0	..	..	..	..	1 0	..	..	2 0
<i>Diseases of the Genito-urinary System—</i>									
Bright's disease .. ..	..	1 0	1 1	..	2 0	..	..	..	4 1
Cystitis .. ..	..	1 0	..	..	..	..	..	..	1 0
<i>Diseases of Skin and Cellular Tissue—</i>									
Senile gangrene .. ..	..	..	1 0	..	..	1 0	..	..	2 0
<i>Old Age—</i>									
Senility .. ..	7 5	10 5	12 2	2 0	..	16 7	..	..	47 19
<i>External Causes—</i>									
Suicide, asphyxia by hanging ..	..	1 0	1 0	..	..	..	..	..	2 0
<i>Ill-defined Causes—</i>									
Syncope, heart-failure .. ..	4 5	5 1	..	2 4	1 0	2 2	1 0	..	15 12
General debility, marasmus, asthenia .. ..	..	1 0	..	..	..	..	..	..	1 0
Died while absent on trial .. ..	1 1	..	..	..	1 0	..	..	..	2 1
Totals .. ..	51 29	35 16	43 15	12 7	11 3	38 18	1 0	2 0	193 88



TABLE XIII.—CAUSES OF MENTAL DEFECT AMONG ADMISSIONS (LESS TRANSFERS), SHOWING THE CORRELATIONS OR COMBINATIONS OF PRINCIPAL OR CONTRIBUTORY CAUSES AND ASSOCIATED FACTORS.

Causes and Associated Factors of Mental Defect among Admissions during 1914.	Total Incidence of each Cause assigned without any Correlated Cause or Factor.		Heredity.	Congenital.	Deprivation of Special Senses.	Previous Attack.	Critical Periods.	Child-bearing.	Mental Stress.	Physiological Defect and Error.	Toxic.	Traumatic.	Diseases of Nervous System.	Other Bodily Diseases.	Total Incidence of each Cause or Factor either Alone or in Combination.
	M.	F.													
Heredity .. .. .	69	77	..	..	0 1	0 1	..	..	1 1	..	0 1	..	..	..	70 81
Congenital .. .. .	41	42	..	..	..	..	0 1	..	..	..	..	..	..	..	41 43
Deprivation of special sense .. .. .	..	..	0 1	..	..	..	..	..	..	..	..	..	..	..	0 1
Previous attack .. .. .	35	28	0 1	..	..	..	..	..	..	..	..	..	..	..	35 29
Critical periods—															
Puberty and adolescence .. .. .	14	12	..	0 1	..	..	..	..	..	..	..	..	..	..	14 13
Climacteric .. .. .	1	25	..	..	..	..	..	0 2	..	..	..	..	..	..	1 27
Senility .. .. .	69	37	..	..	..	..	..	..	..	..	..	..	..	..	69 37
Child-bearing—															
Puerperal state .. .. .	0	27	..	..	..	..	..	..	..	..	0 1	..	..	..	0 28
Mental stress—															
Sudden : Shock .. .. .	0	1	..	..	..	..	..	..	..	..	..	..	..	..	0 3
" Grief .. .. .	0	2	..	..	..	..	..	..	..	..	..	..	..	..	
Prolonged : Worry, domestic .. .. .	1	4	..	..	..	..	..	..	..	..	..	..	..	..	
" " financial .. .. .	3	0	1 0	..	..	..	..	..	..	..	..	..	..	..	27 21
" Religious excite- ment .. .. .	0	2	..	..	..	..	0 1	..	..	..	..	..	..	..	
" Solitude .. .. .	10	3	..	..	..	..	0 1	..	..	..	..	..	..	..	
" Nature undefined .. .. .	11	9	0 1	..	..	..	..	..	..	..	..	..	..	..	1 0
Physiological defect and error—															
Privation .. .. .	1	0	..	..	..	..	..	..	..	..	..	..	..	..	
Over-exertion, physical .. .. .	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1 1
Masturbation .. .. .	4	0	..	..	..	..	..	..	..	..	..	..	..	..	4 0
Sexual excess .. .. .	2	2	..	..	..	..	..	..	..	..	..	..	..	..	2 2
Toxic—															
Alcohol .. .. .	97	14	0 1	..	..	..	..	1 0	..	..	..	..	1 0	..	99 15
Drug habit .. .. .	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1 1
Lead-poisoning .. .. .	1	0	..	..	..	..	..	..	..	..	..	..	..	..	1 0
Tuberculosis .. .. .	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1 1
Enteric fever .. .. .	0	1	..	..	..	..	..	..	..	..	..	..	..	..	0 1
Syphilis (acquired) .. .. .	44	4	..	..	..	..	..	1	..	..	..	..	..	..	44 5
Constipation .. .. .	0	1	..	..	..	..	..	..	..	..	..	..	..	..	0 1
Traumatic—															
Injury .. .. .	9	2	..	..	..	..	..	..	..	..	..	..	..	..	9 2
Diseases of nervous system—															
Organic brain-disease .. .. .	2	0	..	..	..	..	..	..	..	..	..	..	..	..	2 0
Epilepsy .. .. .	18	9	..	..	..	..	..	..	..	1 0	..	..	..	..	19 9
Apoplexy .. .. .	2	0	..	..	..	..	..	..	..	..	..	..	..	..	2 0
Chorea .. .. .	0	1	..	..	..	..	..	..	..	..	..	..	..	..	0 1
Neurosis (undefined) .. .. .	1	0	..	..	..	..	..	..	..	..	..	..	..	..	1 0
Other bodily diseases—															
Anæmia, pernicious .. .. .	1	0	..	..	..	..	..	..	..	..	..	..	..	..	1 0
Goitre .. .. .	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1 1
Arterio sclerosis .. .. .	1	0	..	..	..	..	..	..	..	..	..	..	..	..	1 0
Bright's disease .. .. .	1	0	..	..	..	..	..	..	..	..	..	..	..	..	1 0
Rheumatism .. .. .	1	0	..	..	..	..	..	..	..	..	..	..	..	..	1 0
Ill health (undefined) .. .. .	9	22	..	..	..	..	..	..	..	..	..	..	..	..	9 22
Unknown .. .. .	52	19	..	..	..	..	..	..	..	..	..	..	..	..	52 19

TABLE XIV.—FORMER OCCUPATION OF PATIENTS.

Occupations.										Occupations.									
Auckland.	Christchurch.	Dunedin (Seacliff).	Hokitika.	Nelson.	Porirua.	Tokanui.	Ashburn Hall (Private Mental Hospital).	Total.		Auckland.	Christchurch.	Dunedin (Seacliff).	Hokitika.	Nelson.	Porirua.	Tokanui.	Ashburn Hall (Private Mental Hospital).	Total.	
MALES.																			
Apiarists .. ..	1	1						2	Journalists .. ..							3		3	
Aboriginals .. ..	1					2		3	Labourers .. ..	55	31	32	6	7	59			190	
Bakers, &c. .. ..	1				1	4		6	Malster .. ..						1			1	
Banker .. ..						1		1	Master mariners .. ..	1		1			2			4	
Barman .. ..	1					1		2	Medical practitioner .. ..						1			1	
Billiardmarker .. ..						1		1	Merchant .. ..		1							1	
Blacksmith .. ..		1						1	Mill hands .. ..	1					1			2	
Boardinghouse-keeper .. ..		1						1	Miners .. ..	3		4	2					9	
Bootmakers .. ..						2		2	Minors .. ..			2						2	
Bricklayer .. ..	1					1		2	Musicians .. ..	3	1				1			5	
Brickmaker .. ..		1						1	No occupation .. ..	4	4	5		4	7	2		26	
Bushmen .. ..			1			2		3	Old-age pensioners .. ..	2		2			7			11	
Butcher .. ..					1			1	Painters .. ..				1		2			3	
Cabman .. ..		1						1	Plasterer .. ..			1						1	
Caretakers .. ..			1			1		2	Plumbers .. ..	1	1	1			1			4	
Carpenters and joiners .. ..	6	1				4		11	Porters .. ..	2								2	
Carters, drivers, &c. .. ..			1	1		4		6	Rabbitter .. ..	1								1	
Caterer .. ..				1				1	Rigger .. ..		1							1	
Chairmaker .. ..		1						1	Saddlers .. ..			2			1			3	
Civil servants .. ..						3		3	Sailmaker .. ..		1							1	
Clerks, accountants, &c. .. ..	1	5	1	1		3		11	Schoolboy .. ..					1				1	
Coach-trimmer .. ..		1						1	Seamen .. ..	2	2			1	2			7	
Compositors .. ..	1	1				2		4	Settlers .. ..	2								2	
Cooks .. ..	2	2	1			5		10	Shearer .. ..			1						1	
Cooper .. ..		1						1	Shepherd .. ..			1			1			2	
Cycle mechanic .. ..			1					1	Shipwright .. ..	1								1	
Drapers, &c. .. ..	1					2		3	Shop assistants .. ..			1			2			3	
Draughtsman .. ..	1							1	Slaughterman .. ..						1			1	
Dealer .. ..		1						1	Stewards .. ..	1					1			2	
Dredge hand .. ..			1					1	Stock agent .. ..	1								1	
Engine-driver .. ..		1						1	Stonemason .. ..	1								1	
Engineers .. ..	1	1	3			2		7	Storekeepers .. ..	1					4			5	
Farmers .. ..	18	16	9	1	2	14	3	63	Storemen .. ..			2						2	
Farm hands .. ..	2	3	1		1	3		10	Student .. ..		1							1	
Fishermen .. ..		1				2		3	Sweep .. ..		1							1	
Fishmonger .. ..		1						1	Tailors .. ..						3			3	
Fitter .. ..						1		1	Teamster .. ..	1								1	
Flour-miller .. ..			1					1	Territorials .. ..	1					1			2	
Fruit-hawker .. ..			1					1	Transfers .. ..		1	2			3	8		14	
Gardeners .. ..	2	2	3			1		8	Travellers .. ..		1	1						2	
Gasfitters .. ..	2							2	Upholsterer .. ..			1						1	
Glass-cutter .. ..		1						1	Warder .. ..	1					1			1	
Grocers .. ..	1		1					2	Watchmaker .. ..	1								1	
Grooms .. ..	2	1						3	Weaver .. ..			1						1	
Gum-diggers .. ..	4							4	Wharfinger .. ..			1						1	
Hairdresser .. ..			1					1	Totals .. ..	134	89	91	13	20	166	8	5	526	
Hotelkeepers .. ..		1			1			2											
Jockey .. ..			1					1											
FEMALES.																			
Barmaid .. ..		1						1	No occupation .. ..		1	6		3	8		1	19	
Cook .. ..		1						1	Old-age pensioner .. ..	1								1	
Domestic duties .. ..	80	27	63	11	15	85	3	284	Professional singer .. ..	1								1	
Dressmakers .. ..			1		1	2		4	Servant .. ..		1							1	
Factory hand .. ..						1		1	Schoolgirl .. ..		1							1	
Housekeeper .. ..		1						1	School-teachers .. ..			1		1	1		1	4	
Housemaid .. ..					1			1	Tailoress .. ..						1			1	
Housewives .. ..		24						24	Transfers .. ..	1		3			1		2	7	
Industrial school .. ..		1						1	Typistes .. ..		1				1			2	
Maori .. ..	1							1	Waitresses .. ..	2								2	
Minors .. ..			2					2	Totals .. ..	89	57	78	11	22	101		8	366	
Music-teacher .. ..			1					1											
Nurses .. ..	1		1			2	1	5											

TABLE XV.—SHOWING THE ADMISSIONS, DISCHARGES, AND DEATHS, WITH THE MEAN ANNUAL MORTALITY AND PROPORTION OF RECOVERIES PER CENT. OF THE ADMISSIONS FOR EACH YEAR SINCE 1ST JANUARY, 1876.

Year.	Admitted.			Discharged.			Died.		Remaining 31st December in each Year.		Average Numbers resident.		Percentage of Recoveries on Admissions.		Percentage of Deaths on Average Numbers resident.	
	Recovered.			Relieved.												
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.
1876	221	117	338	129	79	208	17	8	25	12	12	48	519	264	783	491
1877	250	112	362	123	57	180	20	9	29	9	9	63	581	291	872	541
1878	247	131	378	121	68	189	14	14	28	6	6	68	638	319	957	601
1879	248	151	399	112	76	188	15	13	28	11	11	71	695	361	1,056	666
1880	229	149	378	100	67	167	36	25	61	5	2	7	729	396	1,125	703
1881	232	127	359	98	65	163	41	36	77	7	9	63	769	406	1,175	747
1882	207	152	359	95	59	154	49	32	81	12	12	60	827	442	1,269	796
1883	255	166	421	102	78	180	13	20	33	10	9	65	892	483	1,375	860
1884	238	153	391	89	77	166	17	9	26	12	12	30	938	514	1,452	911
1885	294	160	454	95	76	171	10	5	15	20	20	92	981	542	1,523	965
1886	207	165	372	99	60	159	11	17	28	8	8	20	1,009	604	1,613	984
1887	255	161	416	103	78	181	34	17	51	27	27	101	1,041	640	1,681	1,045
1888	215	146	361	116	92	208	31	28	59	4	4	78	1,053	648	1,696	1,034
1889	230	161	391	98	53	146	23	17	40	35	35	111	1,074	687	1,761	1,045
1890	230	160	390	98	53	146	23	17	40	35	35	111	1,074	687	1,761	1,045
1891	234	201	435	88	74	162	33	24	57	41	41	130	1,115	734	1,849	1,083
1892	231	158	389	89	76	165	21	17	38	8	2	10	1,154	763	1,917	1,125
1893	281	179	460	101	89	190	17	12	29	9	9	118	1,239	810	2,039	1,172
1894	320	256	576	107	76	183	15	11	26	55	84	139	1,308	860	2,168	1,241
1895	379	302	681	105	77	182	24	19	43	128	139	267	1,329	885	2,214	1,313
1896	296	170	466	104	70	174	25	16	41	42	42	143	1,390	925	2,315	1,347
1897	300	244	544	102	73	175	26	32	53	43	43	148	1,440	990	2,430	1,411
1898	355	258	613	114	110	224	13	23	36	104	47	151	1,472	1,008	2,480	1,438
1899	264	247	511	88	99	187	15	25	40	7	42	49	1,512	1,045	2,557	1,487
1900	335	263	598	103	96	199	39	10	49	25	65	90	1,581	1,091	2,672	1,534
1901	373	224	597	125	104	229	40	17	57	33	3	36	1,654	1,119	2,773	1,622
1902	352	192	544	135	99	234	26	15	41	10	9	19	1,715	1,133	2,848	1,671
1903	340	237	577	141	101	245	41	25	66	84	12	96	1,771	1,188	2,959	1,741
1904	454	240	694	157	106	263	24	13	37	9	2	11	1,801	1,237	3,038	1,780
1905	399	280	679	149	121	270	45	32	77	23	21	44	1,886	1,276	3,121	1,796
1906	401	277	678	157	136	293	28	22	50	6	14	50	1,900	1,306	3,206	1,823
1907	421	279	700	160	139	299	31	19	50	53	32	55	1,909	1,331	3,240	1,851
1908	434	325	759	180	146	326	9	13	22	9	6	15	2,063	1,465	3,548	1,970
1909	447	376	823	179	170	349	17	22	39	29	68	97	2,083	1,465	3,548	1,970
1910	639	371	1,010	182	145	327	30	29	59	164	55	219	2,160	1,510	3,670	2,028
1911	455	322	777	163	168	331	23	16	39	11	7	18	2,201	1,536	3,752	2,105
1912	593	394	987	184	141	325	17	44	61	146	18	164	2,273	1,640	3,913	2,146
1913	543	349	892	175	162	337	35	48	83	78	36	114	2,332	1,632	3,964	2,252
1914	526	366	892	207	162	369	27	29	56	88	281	1,806	2,408	1,703	4,111	2,309
	13,990	8,721	21,711	4,866	3,803	8,669	983	813	1,796	1,237	850	2,087	3,978	1,806	5,794	

In mental hospitals, 1st January, 1876  
In mental hospitals, 1st January, 1914

M. 482  
F. 254  
T. 736  
2,408 1,703 4,111



TABLE XIX.—TOTAL EXPENDITURE, OUT OF PUBLIC WORKS FUND, FOR BUILDINGS AND EQUIPMENT AT EACH MENTAL HOSPITAL FROM 1ST JULY, 1877,  
TO 31ST MARCH, 1915.

Mental Hospitals.		1877-1907.	1907-8.	1908-9.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.	1914-15.	Total Net Expenditure, 1st July, 1877, to 31st March, 1915.
Auckland	..	£ 105,434	£ 253	£ 1,318	£ 1,524	£ 463	£ 105	£ 135	£ 8,908	£ 23,434	£ 141,574
Reception-house at Auckland	..	5	463	62	1,788	2,531	105	105	..	..	5,059
Motuhi Island	..	..	..	..	..	..	..	..	..	..	561
Takanui	..	..	..	..	..	166	4,303	21,935	8,974	10,379	45,637
Wellington	..	29,351	198	107	..	..	..	..	..	..	29,656
Wellington (Porirua)	..	120,797	2,370	2,247	10,348	8,121	1,762	9,550	1,951	6,552	163,698
Christchurch	..	115,086	2,018	4,144	1,133	1,063	412	4,867	616	5,107	134,436
Seacliff	..	145,104	1,314	5,598	2,797	4	1,480	5,382	3,257	7,413	172,349
Waitati	..	321	252	87	..	..	442	4,007	1,634	911	7,654
Dunedin (The Camp)	..	3,913	919	59	..	..	..	..	..	..	4,891
Napier	..	147	..	..	..	..	..	..	..	..	147
Hokitika	..	3,465	..	..	256	6	..	..	..	..	3,727
Richmond	..	1,097	..	..	..	..	..	..	..	..	1,097
Nelson	..	17,075	200	1,675	1,992	353	200	200	200	200	22,095
Totals	..	541,805	7,987	15,297	19,888	12,707	8,809	46,181	26,001	53,996	732,621

TABLE XX.—SHOWING THE EXPENDITURE FOR THE YEAR 1914.

Items.	Auckland.	Christchurch.	Dunedin (Seacliff).	Hokitika.	Nelson.	Porirua.	Tokanui.	Total.
Inspector-General*	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Deputy Inspector-General and Assistant Inspector*	..	..	..	..	..	..	..	1,000 0 0
Clerks*	..	..	..	..	..	..	..	742 13 6
Medical fees*	..	..	..	..	..	..	..	1,137 14 3
Contingencies*	..	..	..	..	..	..	..	1,394 9 0
Official visitors	25 4 0	2 2 0	16 16 0	4 4 0	4 4 0	25 4 0	..	637 15 6
Superintendents	734 10 0	737 10 0	698 0 0	253 15 0	530 0 0	700 0 0	679 3 4	77 14 0
Assistant Medical Officers	389 15 10	306 13 0	1,022 11 8	212 8 4	22 11 8	464 8 2	..	4,332 18 4
Visiting Medical Officers	..	..	..	..	..	..	..	2,206 0 4
Clerks	355 12 6	407 10 0	448 6 8	..	118 15 0	397 18 4	..	212 8 4
Matrons	249 15 8	142 10 0	159 5 0	92 18 4	131 10 0	147 10 0	..	1,728 2 6
Attendants and servants	8,648 15 5	10,264 18 7	14,549 15 4	2,965 0 8	2,459 0 3	13,297 8 2	2,823 2 3	923 9 0
Rattons	8,489 12 4	7,992 7 11	8,874 15 6	3,040 15 11	2,061 13 8	8,415 18 8	1,519 9 11	55,008 0 8
Fuel, light, water, and cleaning	1,921 19 8	3,089 10 7	2,690 5 6	81 15 3	537 19 7	2,411 18 8	306 11 10	40,394 13 11
Bedding and clothing	2,496 12 0	2,776 11 0	3,267 11 1	265 19 7	373 19 3	2,485 10 2	306 0 6	11,040 1 1
Surgery and dispensary	102 14 9	135 2 3	231 0 5	..	41 13 4	181 11 7	11 12 5	11,972 3 7
Wines, spirits, ale, and porter	12 0 0	5 14 0	5 4 0	4 4 4	..	11 15 4	0 5 0	703 14 9
Farm	433 7 6	1,089 5 11	2,676 9 11	44 6 6	286 18 8	1,462 14 10	1,581 1 0	35 2 8
Buildings and repairs	411 4 4	679 9 6	2,329 14 5	35 9 9	286 4 1	642 11 0	108 3 4	7,574 4 4
Necessaries, incidental, and miscellaneous	2,687 8 6	4,677 3 7	5,875 19 3	665 15 4	970 13 5	3,757 18 2	845 9 10	4,492 16 5
Totals	26,958 12 6	32,306 8 4	42,845 14 9	7,662 13 0	7,825 2 11	34,402 7 1	8,180 19 5	165,094 10 3
Repayments, sale of produce, &c.	9,307 6 2	8,714 10 9	13,800 1 4	1,465 7 10	1,595 9 0	11,376 2 2	527 12 7	46,786 9 10
Actual cost	17,651 6 4	23,591 17 7	29,045 13 5	6,197 5 2	6,229 13 11	23,026 4 11	7,653 6 10	118,308 0 5

\* Not included in Table XXI.

TABLE XXI.—AVERAGE COST OF EACH PATIENT PER ANNUM.

	Light, Fuel, Water, and Cleaning.	Surgery and Dispensary.	Wines, Spirits, Ale, and Porter.	Farm.	Buildings and Repairs.	Necessaries, incidental, and miscellaneous.	Total Cost per Patient.	Repayments for Maintenance.	Total Cost per Head, less Receipts of all kinds previous Year.	Total Cost per Head, less Receipts of all kinds previous Year.	Decrease in 1914.	Increase in 1914.
Mental Hospital.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Auckland	9 7 0	11 9 13	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11
Christchurch	12 3 8	18 1 7	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11	18 12 11
Dunedin (Seacliff)	9 15 11	13 13 6	13 13 6	13 13 6	13 13 6	13 13 6	13 13 6	13 13 6	13 13 6	13 13 6	13 13 6	13 13 6
Hokitika	11 15 8	17 15 0	17 15 0	17 15 0	17 15 0	17 15 0	17 15 0	17 15 0	17 15 0	17 15 0	17 15 0	17 15 0
Nelson	11 4 1	16 11 1	16 11 1	16 11 1	16 11 1	16 11 1	16 11 1	16 11 1	16 11 1	16 11 1	16 11 1	16 11 1
Porirua	9 5 4	16 3 3	16 3 3	16 3 3	16 3 3	16 3 3	16 3 3	16 3 3	16 3 3	16 3 3	16 3 3	16 3 3
Tokanui	10 6 5	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6
Averages	10 6 5	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6	16 9 6

TABLE XXIA.

Including first five items in Table XX	..	..	..	..	..	..	..	..	..	..	..	..
--	----	----	----	----	----	----	----	----	----	----	----	----

TABLE XXIB.

Richmond Home for Feeble-minded Patients on probation at The Camp	13 9 8	41 3 6	2 5 5	2 14 9	2 19 4	5 14 7	7 17 7	76 5 1	8 18 8	67 6 5	63 10 10	60 15 0	2 15 10
	14 16 4	32 11 6	1 13 0	2 17 7	0 5 5	5 1 1	7 15 5	61 16 11	..	..	61 16 11	53 0 2	8 16 9

Approximate Cost of Paper.—Preparation, not given; printing (1,000 copies), £21 10s.