

1948
NEW ZEALAND

MENTAL HOSPITALS OF THE DOMINION

(REPORT ON) FOR 1947

Presented to both Houses of the General Assembly pursuant to Section 79 of the Mental Defectives Act, 1911

The Hon. M. B. HOWARD, Minister in Charge of Mental Hospitals, Wellington.

MADAM,—

Wellington, 18th June, 1948.

I have the honour to present my annual report upon the work of the Mental Hygiene Division of the Health Department for the year ended 31st December, 1947.

STATISTICAL

At the end of the year there were 9,112 names of persons upon our registers, including 56 patients at Ashburn Hall private licensed institution and 790 patients who were absent on probation in the care of their relatives and friends.

In actual residence in Government hospitals on 31st December there were 8,267 persons, an increase of 93 as compared with a year before, and of this number 7,905 were subject to a reception order and 362 were voluntary boarders.

Admissions for the first time of patients and boarders totalled 1,747, an increase of 20 over the previous year, and of these 1,213 were the subject of a reception order and 534 were voluntary boarders. It is of interest that voluntary admissions continue to increase in number, and also proportionately with regard to total admissions.

Of all classes of admissions, 1,542 were discharged, or 68.59 per cent. calculated on the number admitted. It is not possible to consider that all of these were fully recovered, but 43.73 per cent. were considered to have recovered from their mental breakdowns, a proportion which may be considered very creditable.

VOLUNTARY BOARDERS

Year.	First Admission.			Not First Admission.			Total Admissions.			Transferred to Register of Patients.			Died.			Discharged.			Remaining on 31st December.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1912	6	17	23	0	0	0	6	17	23	1	3	4	0	0	0	4	3	7	1	11	12
1913	18	19	37	0	2	2	18	21	39	2	5	7	0	1	1	12	12	24	5	14	19
1914	17	19	36	3	2	5	20	21	41	7	5	12	1	1	2	11	15	26	6	14	20
1915	15	17	32	1	2	3	16	19	35	3	4	7	0	1	1	8	14	22	11	14	25
1916	13	23	36	5	8	13	18	31	49	4	4	8	1	2	3	14	14	28	10	15	25
1917	14	21	35	1	13	14	15	34	49	6	6	12	0	1	1	10	23	33	9	19	28
1918	23	38	61	5	11	16	28	49	77	1	4	5	2	2	4	15	30	45	19	32	51
1919	31	39	70	5	19	24	36	58	94	3	3	6	0	2	2	26	42	68	26	43	69
1920	26	38	64	16	12	28	42	50	92	3	4	7	1	2	3	33	33	66	31	54	85
1921	39	39	78	11	15	26	50	54	104	2	3	5	5	1	6	38	41	79	36	63	99
1922	47	38	85	10	16	26	57	54	111	6	5	11	4	4	8	40	48	88	43	60	103
1923	44	50	94	15	21	36	59	71	130	3	6	9	3	3	6	47	47	94	49	75	124
1924	38	44	82	16	20	36	54	64	118	4	8	12	6	3	9	39	48	87	54	80	134
1925	64	59	123	15	34	49	79	93	172	10	15	25	6	3	9	60	63	123	57	92	149
1926	71	60	131	11	29	40	82	89	171	10	11	21	7	2	9	49	71	120	73	97	170
1927	70	70	140	25	32	57	95	102	197	8	6	14	5	12	17	75	58	133	80	123	203
1928	120	94	214	37	39	76	157	133	290	8	10	18	10	8	18	102	97	199	117	141	258
1929	102	63	165	50	43	93	152	106	258	11	3	14	9	9	18	119	110	229	130	125	255
1930	152	84	236	41	35	76	193	119	312	15	9	24	8	6	14	130	79	209	170	150	320
1931	166	98	264	43	36	79	209	134	343	11	14	25	11	7	18	159	102	261	198	161	359
1932	150	85	235	50	40	90	200	125	325	24	32	56	14	5	19	190	108	298	170	141	311
1933	112	109	221	53	32	85	165	141	306	11	14	25	5	4	9	121	107	228	198	157	355
1934	132	90	221	56	33	89	188	123	311	7	11	18	10	6	16	152	99	251	217	164	381
1935	130	87	217	40	55	95	170	142	312	18	20	38	19	10	29	151	116	267	199	160	359
1936	98	99	197	62	44	106	160	143	303	21	20	41	7	10	17	137	111	248	194	162	356
1937	103	91	194	64	45	109	167	136	303	14	7	21	6	10	16	163	122	285	178	159	337
1938	111	105	216	60	53	113	171	158	329	11	15	26	11	8	19	144	125	269	183	169	352
1939	131	103	234	63	72	135	194	175	369	22	21	43	16	15	31	157	130	287	182	178	360
1940	128	124	252	65	63	128	193	187	380	18	18	36	10	12	22	176	167	343	171	168	339
1941	93	104	197	48	58	106	141	162	303	11	9	20	10	13	23	140	151	291	151	157	308
1942	88	108	196	44	74	118	132	182	314	14	15	29	15	8	23	124	160	284	130	156	286
1943	95	126	221	66	87	153	161	213	374	2	8	10	13	14	27	115	159	274	161	188	349
1944	146	168	314	70	104	174	216	272	488	4	7	11	11	10	21	172	243	415	190	200	390
1945	178	181	359	90	112	202	268	293	561	9	8	17	20	8	28	244	272	516	185	205	390
1946	233	229	462	80	137	217	313	366	679	4	10	14	15	7	22	283	348	631	196	206	402
1947	233	301	534	83	122	205	316	423	739	7	2	9	12	13	25	321	383	704	172	232	404

MENTAL INFIRMITY DUE TO OLD AGE

Attention is drawn to the increasing number of old people who are being cared for in mental hospitals. This age group in recent years has been forming a greater proportion of admissions, and it will be seen from Table IV that at 31st December there were resident 902 over seventy years of age and a further 1,397 between sixty and seventy years of age. A large proportion of these cases could be looked after in homes suitable for their own particular condition. They require very largely no specialized form of treatment for their mental condition, only sympathetic care and supervision, along with guidance into a more orderly and routine life which is so necessary for them.

The admission of many of these old people is due to a shortage of nursing staff generally and lack of other suitable homes for their care. I consider they are well cared for in our hospitals, but their presence in increasing numbers adds a considerable burden to our depleted nursing staff and is responsible very largely for the overcrowding of accommodation in our hospitals.

ADMISSION OF INFANTS

It is found that applications for admission of infants have also been increasing in recent years. Every effort has been made to have other arrangements made for mentally deficient children under three years of age. Parents or relatives, however, find that admission to children's or babies' homes is refused for various reasons, including staff shortage. At Nelson, Templeton Farm, and Levin Farm, where most of the children are cared for, the constant care and attention of even a few infants under three years of age is an added responsibility, particularly as the nursing staff have not been specially trained in the care of infants.

When it is mentioned that 83 children under the age of five years were resident at the end of the year, it will be appreciated that the number admitted each year in this group is showing a gradual increase.

DIETARY AND CLOTHING

The improvement in the supply of commodities generally has allowed of an increase of variety in the diet of patients. Every effort is being made at the same time to improve the standard and variety of patients' clothing. It is hoped that further improvements may be carried out and may become more noticeable this year.

FURNISHINGS OF WARDS

Although many of our older buildings may be considered out of date in their construction, &c., they are all capable of brightening up and of increased comfort, and steps have already been taken along these lines. Progress has been slow in some cases because of difficulty of supply, but again considerable improvement is now in sight.

PATIENTS' COMFORTS ALLOWANCE

A small weekly allowance to those patients capable of its appreciation, was agreed to during the year, and has been of considerable benefit to the patients. A large number of patients have been materially assisted in this way, and it has been a "worthwhile" expenditure, in that patients have been able to provide for themselves such personal articles as they themselves desired. In the canteens now instituted at all hospitals the variety of supplies is increased as is found desirable to the patients themselves.

BUILDING PROGRAMME

The rate of progress of our building programme has been much slower than expected. This is attributable to the shortage of labour and materials and also the fact that plans of many new buildings had to be redesigned with the object of reducing the quantities of basic materials, particularly steel, which is in such short supply. Progress has been made in the rebuilding of Porirua Hospital and the erection of villas at Lake Alice; but unfortunately this has not been rapid enough to alleviate our serious overcrowding.

It has not yet been possible to commence building at Cherry Farm ; but it is hoped that some villas will be started at an early date.

At Levin Farm, buildings have been altered to meet our requirements and we now have nearly 200 children in residence. Progress is also being made in the provision of further accommodation.

ALTERATIONS, ADDITIONS, AND IMPROVEMENTS

Capital expenditure on new works amounted to £195,588 during the year, and the following summary shows the principal items and hospitals at which this expenditure was incurred :—

(1) *Arondale* (£10,938).—Alterations to the byres and installation of milking-machines have been completed. New main boilers have been purchased. Improved bathing facilities have been provided for patients. Fire services have been improved. A new sports-ground and two grass tennis-courts have been provided and roading-work has been done.

(2) *Kingseat* (£8,936).—Two staff residences have been completed and six more are in course of construction. A bus shelter has been erected and fire services and roading have been improved.

(3) *Raventhorpe* (£10,925).—One new residence for staff has been erected. Extensive alterations to buildings have been made and heating of wards has been improved.

(4) *Tokamui* (£8,065).—Two buildings for occupational therapy and a hairdressers' salon are in course of construction. Two bus shelters have been erected. An area of land is being prepared for the erection of about twenty-four staff residences. Roading and fire-protection services have been improved.

(5) *Levin Farm* (£10,234).—An additional building has been purchased from the War Assets Realization Board for conversion into a central dining-room to be run on the cafeteria system. Buildings are being converted to meet requirements.

(6) *Porirua* (£58,335).—Installation of laundry machinery is proceeding. Two villas are nearing completion and a third is in course of construction. Fire-protection services have been extended and improved.

(7) *Nelson* (£1,518).—Alterations are being made to store-rooms in villas at Ngawhatu. Small laundry and drying-room has been erected at Nelson and a drying-room provided in the nurses' home at Ngawhatu. Roading has been extended.

(8) *Christchurch* (£4,369).—A new granary has been erected at Templeton Farm. Additions to administration offices and nurses' home are in course of construction. Ground is being prepared for a children's playground at Templeton Farm.

(9) *Seacliff* (£25,752).—A new wooden building is in course of erection to replace portion of old building rendered unsafe by land movement. Roading, water-supply, &c., has been carried out at Cherry Farm. Roading has been extended and improved at Waitati.

(10) *Lake Alice* (£56,007).—Two villas to accommodate fifty patients each are nearing completion, and six villas, each to accommodate eleven patients, are under construction. Development work on water-supply, roading, fencing, &c., is proceeding.

REGISTRATION OF STATE PSYCHIATRIC NURSES

The following have passed the State Final Psychiatric Examination, held in June and December, and are thereby qualified for State registration :—

Passed top for Dominion—June : Nurse C. G. Foster. December : Nurse M. M. Palmer.

Auckland—

Nurses : D. E. Metcalfe, J. V. Briggs, L. A. Horridge.

Kingseat—

Nurses : P. M. Cain, N. E. Brooks, J. Nicholson, J. I. Waddick.

Raventhorpe—

Nurse : M. Bayly.

Porirua—

Nurses : M. E. Armstrong, N. A. Ray, C. J. Hughes.

Nelson—

Nurses : *C. G. Foster, I. B. Hockey, M. Ruff, M. Tippen.

Christchurch—

Attendant : M. Flanagan.

Nurses : O. L. Holm, E. W. Learmonth, M. M. McRae, G. L. Whetton.

Seacliff—

Attendant : F. C. Brensell.

Nurses : M. J. Wallace, M. M. Palmer.

The following obtained partial passes :—

Auckland—

Nurse : H. R. Emery.

Christchurch—

Nurses : D. G. Harris, E. M. Jones.

* Passed with distinction.

APPRECIATION

It gives me pleasure to express my appreciation to the staff of the Division for their willing co-operation and assistance in the care of the patients under our charge during the year.

J. RUSSELL, Director.

AUCKLAND MENTAL HOSPITAL

Dr. BUCHANAN reports :—

I have the honour to present my annual report for the year ended 31st December, 1947.

The total number of cases under care was 1,936 and the average weekly number of residents was 1,311.

The shortage of medical, nursing, office, and domestic staffs has been a handicap. It has been most creditable that, in spite of this, we have been able to carry on as well as we have done.

Physical treatments on many of our patients continues to produce gratifying results and they are of great value on selected cases. Nursing-staff shortage has been a deterrent in carrying out more fully the treatment by leucotomy, but I hope that in the coming year we may be able to widen our field in this direction.

Occupational-therapy classes continue to fulfil a most satisfactory aid in our treatments—40 men and 82 women were discharged to their homes directly from these classes ; 56 men and 80 women were transferred therefrom to utility services in the hospital. A total of 249 new patients have attended the classes during the year.

The increasing number of admissions of senile cases makes the problem of bed accommodation increasingly difficult and adds a lot of extra responsibility to our already weakened nursing staff. Many of these old folk could be suitably looked after in other hospitals or homes than the mental hospital if outside nursing help was procurable.

Mantoux testing has been introduced as a routine, following the advice of Dr. Chisholm McDowell, of the Green Lane Chest Clinic. It is hoped that this will allay much expressed anxiety as to the exposure of staff to infection.

The appointment of a full-time Dental Officer is much appreciated, as also is the increase of dental equipment. It is to be hoped that before long an appropriate dental unit may be erected in the grounds and so avoid congestion in the dispensary.

We are fortunate now in having two Tutor Sisters, who are occupied in lecturing and supervising nursing technique in wards, and their duties also embrace the major part of dispensing until such time as we may obtain the services of a fully-trained Dispenser.

The acquisition of a 16 mm. projector is a great boon, firstly for staff training, and secondly in permitting pictures to be viewed in wards whose occupants cannot be allowed to attend the usual weekly 35 mm. screenings in the picture-hall.

A fine sports area is now formed, and though this encroaches on our farm land, it has been worth while because of the apparent pleasure it has given to both patients and staff.

Refrigerators for all kitchens are on order and many are already in use. Automatic sprinkler systems have been installed throughout the main building, Park House, and Male 3 Ward.

Maintenance has been carried out as far as practicable. However, the difficulty of procuring many materials has been a great handicap.

Once again I desire to express my sincere thanks to the various clubs and individuals who so willingly assist in making the lot of many of our patients happier and brighter. I would like specially to thank Mrs. Mathias and her band of helpers, who see to the stocking of the library.

We owe much to the interest taken by Mrs. Teape in assisting with our outings for the patients and to her regular visits as Official Visitor to this hospital. During December, Mrs. L. A. Hirst, J.P., Mrs. E. S. Winks, J.P., and Mr. F. Kay-Stratton were appointed as Official Visitors, and appear very interested in the work here.

In conclusion, I would like to record my thanks to the staff for their help and co-operation ; during these times their task is somewhat difficult.

KINGSEAT HOSPITAL

Dr. LEWIS reports :—

I have the honour to present the annual report for the year ended 31st December, 1947.

The total number of cases under care during the year was 1,036 ; of these, 974 were subjects of a reception order and 62 were voluntary boarders. The weekly average number resident during the year was 854. The admissions totalled 138 ; 106 were certified patients, of whom 24 were transfers from other institutions and 32 were voluntary boarders. Seventy-five persons were discharged during the year and 41 were transferred to other institutions. At the end of the year 38 persons were well enough to be on probation in the care of relatives or friends. Forty-nine persons died during the year.

There was a change of local administrator in the middle of the year, Dr. Tothill, the Medical Superintendent, leaving to take up the post of Deputy Director of the Division.

There has been a good variety of clinical types amongst the admissions, although seniles and unstable adolescents of somewhat inferior intelligence have predominated.

Electro convulsive therapy continues to be a very useful adjunct to psychotherapeutic measures, particularly in depressive states. Sub-coma insulin treatment has been used with success in suitable cases.

The general health of the patients has been good. The chronic patient population is ageing. The senile age group is becoming larger and for many years senility amongst our chronic population will be a problem. The hospital block cannot cope with the admissions and with all the physically infirm patients. On the female side a day-room downstairs in Villa 13 is used as a hospital ward ; now that barely meets the demand. A sluice-room, &c., is being provided which will give relief to the nursing staff and improve efficiency. A similar position is arising on the male side, and it is proposed to equip Villa 3 similarly. The erection of a villa for the infirm is contemplated.

A recreation-hall is an urgent necessity for the patients as well as for the staff, because this hospital is in the country thirty miles from Auckland and ten miles from the nearest township. There is no recreation-hall here, and for any gathering of patients for dancing, pictures, &c., a day-room or dining-room in one of the villas has to be used—such a room is totally inadequate. Another important requirement is a separate building providing living-quarters, mess-room, and kitchen for the male staff. Six additional staff houses are in course of erection at the settlement.

Occupational therapy has been carried on in the wards. We have a class now in both disturbed wards on the female side. It is gratifying to note that we are to have one separate occupational building in the near future.

The new Patients' Comforts Fund has been a success, not the least of the benefits being that the majority of patients appreciate having some money of their own in their pocket to spend as they wish.

There is still an acute shortage of male and female nursing staff—particularly the latter. A great deal of overtime is being worked, but it is a constant effort to provide reasonable coverage for the needs of our patients. The nursing staff has helped willingly, and on the patients' behalf I acknowledge that help.

One of our particular difficulties here in recruiting and holding staff is the distance we are from outside social amenities. To meet this a station wagon has been provided to supplement existing transport. A feeder service is run to Papakura after 5 p.m. and at midnight. The wagon is used to take parties to games, dances, pictures, &c. During the day the wagon is used for patients and other hospital requirements. This innovation has been a success and has been greatly appreciated by the staff.

Farming-operations have been carried on as usual.

The orchard promises more fruit than ever before. The production from the vegetable-garden has been satisfactory, but the abnormally wet spring necessitated much extra work.

I should like to express my thanks to the Official Visitor, Mrs. Moore, for her unceasing interest in the patients and the hospital. On behalf of our patients I wish to thank our many benefactors for gifts of money, clothing, books, &c., for bringing sports teams to our hospital, and for the excellent hospitality they have given when they have invited our patients to visit them.

I should also like to thank the clergy who visit our patients and conduct services.

To my medical colleagues, Doctors Crawshaw and Mulinder, I express my gratitude for their co-operation and help since I took over this hospital.

In conclusion, I wish to thank the whole staff for their good work during the year.

TOKANUI HOSPITAL

Dr. HUNTER reports :—

I have the honour to submit my annual report for the year ended 31st December, 1947.

The total number of cases under care during the year has been 939, with a weekly average of 772.

The admissions were 129 (70 men, 59 women). Of these, 110 (61 men, 49 women) were admitted for the first time, an increase of 5 over those of last year.

Discharges numbered 60 (20 men, 40 women), while there were 50 (20 men, 30 women) on probation. The number of transfers numbered 9 (4 men, 5 women).

Voluntary boarders treated were 67 (33 men, 34 women). Of these, 31 (16 men, 15 women) were first admissions, and discharges numbered 35 (14 men, 21 women).

The general health of the hospital has been good, deaths totalling 67 (38 men, 29 women), most of these occurring in our elderly patients group.

This year more early involutional melancholic types were admitted and, with electro convulsive therapy, improved rapidly and their hospitalization period was shortened.

At the end of August, Matron Semple retired from the hospital after many years of sterling service in promoting the welfare of the patients and hospital generally.

The staff shortage continues to be serious; both the nursing and the attendant staffs are approximately half of the authorized establishment. There does not appear to be any immediate prospect of improvement, as few girls seem to be interested in this type of nursing. When the proposed staff houses are built, the attendant staffing position should improve, as housing accommodation is the main item in which applicants are interested when applying for positions on our staff at the present time.

Occupational therapy is proving its worth in promoting the recovery of our patients, but is handicapped by the lack of sufficiently trained occupational therapists, and efforts are being made to overcome this difficulty. The two occupational therapy buildings are under construction, and will be ready for occupation within a few months.

The hairdressing-salon for the use of the women patients is nearing completion and should improve considerably the outlook of the women patients, and, along with the use of individual suitable dress material which is available now, will encourage them to take an interest in their personal appearance and so help their recovery.

The fire-fighting service has been improved by the use of an up-to-date fire engine with the necessary equipment. Staff are being instructed in the proper use of the equipment and are becoming efficient.

The manual-type telephone system installed when the hospital was opened has outlived its usefulness, and plans are being made to replace it with an up-to-date automatic-telephone system.

The drought periods during the last few years have shown the necessity for an adequate water-supply to the vegetable-gardens so that seeds and seedlings can survive planting and produce, throughout the year, the continuous supply of vegetables which are essential to the health and well-being of the patients and staff. The question of an increased water-supply to the gardens should be given early consideration.

The new laundry, engine-room, butcher's shop, and bake house, becomes more urgent as the number of patients and staff increase; the old buildings are too small to cope with the work to be done. This replacement was authorized in 1939, but the war has prevented it being carried out. We hope that the necessary buildings will be commenced as soon as practicable.

The patients' accommodation is overcrowded to the extent of two villas—that is, 50 men and 50 women—so that provision for further accommodation will require consideration very shortly.

A permit has been granted for the building of new cow-byres, which are very necessary, as the old buildings and equipment are below the standard for the production of milk under satisfactory hygienic conditions.

Amusements and recreation have been catered for as usual. Weekly dances and pictures, picnic parties, visits of bands and orchestras, and church services by various denominational ministers have been appreciated. The Te Awamutu Rotary Club continues to take an active interest in the welfare of the hospital, and this is much appreciated by both patients and staff.

In conclusion, I wish to express my thanks to all members of the staff for their help and co-operation in the work of the hospital.

PORIRUA HOSPITAL

Dr. HART reports :—

I have the honour to submit my report for the year ended 31st December, 1947.

The total number of cases under care during the year was 1,994, of which 1,627 were committed patients, 354 voluntary boarders, and 13 persons were remanded for observation.

Admissions for the year totalled 704, of which number 240 were voluntary boarders. The gradual increase of the admission rate to this hospital over recent years has been predominantly due to the increase in the number of voluntary boarders admitted. This is well shown in the comparison of the figures of five years ago, when 108 voluntary boarders were admitted in 1942, as against 240 admitted in 1947. The figures in relation to length of residence of those discharged fully recovered in comparison with other years is also worthy of note. In 1942 the percentage of those cases discharged recovered within three months of admission was 25 per cent., whereas in 1947 the percentage was 38 per cent. Two noteworthy trends are shown in the hospital statistics: firstly, that more people and a group or grade of mildly maladjusted people who formerly did not come to our hospitals are now seeking admission and treatment as voluntary boarders; and secondly, that the length of residence of these cases (patients and boarders) whom we were able to discharge fully recovered has been reduced. The latter change is no doubt due to the more modern methods of psychiatric treatment available in recent years.

During the year under review 491 persons (patients and boarders) were discharged, 114 cases died, and 16 patients were transferred to some of our other hospitals.

The two serious problems of staff shortage and lack of patients' accommodation remain. At the close of the year the hospital was overcrowded by 343 patients and there was a nursing staff shortage of 65 officers. At various periods during the year the female nursing staff shortage was such that an adequate standard of care, supervision, and treatment was only maintained with the greatest of difficulties and with considerable strain on medical and nursing staff personnel.

In our hospital treatments we have continued to use electroplexy, electric narcosis, and sub-coma insulin as routine procedures, and the results continue to confirm the early promise of such therapies being the greatest forward step in recent years in psychiatric medicine.

The building programme for various reasons progresses somewhat slowly, Villas 6, 7, and 8 are nearing completion, but are still unoccupied, and the new laundry block awaits its machinery and equipment. Plans have been finalized for a female occupational-sewing-room block, hospital, and administration blocks.

A considerable amount of renovating has been carried out to buildings during the year and much progress has been made towards overcoming arrears of maintenance occasioned by the war. The exteriors of villas Montrose, Nairn, Kaumatua, Somerset, Weymouth, Rauta Block, H Cottage, and four officers' houses were painted. Some interior painting and renovations were also carried out in certain buildings. Refrigerators and additional cooking equipment were installed in the nurses' home, Rauta, and Lower Building blocks. A 16 mm. cinema projector was provided for the nurses' home, which apart from its entertainment value, is used for staff training to demonstrate anatomical nursing and treatment techniques. Three Zip heaters were installed and an acetone welding plant was added to the engineer's shop equipment.

During the year some refurnishing was undertaken in some of the older wards. This, along with the furniture and equipment purchased for the new villas, has materially improved this aspect of the hospital.

Activities in the hospital farm and gardens have continued as formerly, and during the year 229 tons of vegetables and 16½ tons of fruit were produced for hospital consumption.

The hospital is indebted to many individuals and organizations for the lively interest they have taken in patients' welfare. It is impossible to mention all, but we particularly wish to thank the Joint Council of the Order of St. John and the New Zealand Red Cross Society, who have donated sports equipment, provide a weekly cinema, weekly bus rides, and many extra comforts for ex-servicemen patients. A fortnightly picture entertainment is also arranged for by the Army Welfare Educational Service. We thank the Women's National Reserve for their continued support in forwarding money and goods for the benefit of women patients. The regular hampers sent by the Country Districts Sub-centre New Zealand Red Cross, Masterton, were much appreciated. The Commercial Travellers' Association, Returned Servicemen's Association, and various charitable organizations have contributed liberally towards patients' extra comforts, entertainment, and recreation. The New Zealand Blind Institute have maintained a kindly interest in the welfare of blind patients. In addition to the above, from Government money, bus rides, picnics, &c., have been provided for patients and some £560 per month is being distributed direct to patients as a comforts allowance, largely for personal spending.

The hospital continues, and will be for some years, in the throes of rebuilding, with its attendant difficulties and certain inconveniences. The total number of cases under care continues to rise each year and the building programme lags behind this rise; consequently, the overcrowding on 31st December, 1947, was greater than on 31st December, 1946.

This hospital cannot, as general hospitals, defer the admission of certain prospective patients because of staff and accommodation shortage.

In conclusion, I must thank the staff for having maintained a high standard of service, both medical and nursing, despite these difficulties.

NELSON MENTAL HOSPITAL

Dr. WILLIAMS reports:—

I have the honour to present my annual report for the year ended 31st December, 1947.

The number of patients under care during this period was 1,162. Of these 1,110 were admissions under reception orders and 52 were voluntary boarders. Admissions totalling 98 included four transferred from other mental hospitals, 37 under section 8 of the amendment of the Act, and 35 voluntary boarders. Fifty-eight, including 30 voluntary boarders, were discharged during the year. Twenty-nine were transferred to other mental hospitals. Deaths totalled 51.

Admission of children dropped to a mere trickle comparatively, because of diversion to Levin, which is fortunate, in view of the indifferent facilities here; though, otherwise, the site in Nelson has much to commend it.

The general health of the patients has been good, excepting for mild epidemics of mumps and of infective hepatitis.

Because of labour and other difficulties, which are general in the building world at present, little more than maintenance work has been possible. A number of amenities have been added, however. These include a new staff sitting-room at Nelson, washing and ironing machines, and a drying-room there also, which are most useful.

A drying-room has been installed in the nurses' home at Ngawhatu; and some improvements made to Matron's and Tutor Sisters' quarters. The kitchen at Dunoon for the male staff has been modernized and remodelled, with consequent better service. Tubular heaters were installed where required in staff bedrooms.

Fire-escapes have been added to El Nido, and a changed and improved form of fire-fighting facilities installed.

Staff changes have not been many really, though shortage on female nursing side persists. A full male staff has continued to buffer this position in some degree, and, generally speaking, we are fortunate indeed in our personnel. Their spirit is good and they have been genuinely co-operative in the best interests of the hospital and its patients.

Dr. Cameron transferred from Seacliff during the year. He is a welcome addition to the medical roster. Miss Ahlstrom has been appointed as Occupational Therapist and Miss Nilsson as Tutor Sister, and both are doing good work. Mr. Irving has been appointed Senior Clerk.

Farm activities have proceeded satisfactorily and revenue therefrom continues buoyant. Unfortunately staff shortages have persisted there, too, though the personal help of Mr. McPhail, the Farm Supervisor, and the efforts of Mr. Greig, Farm-manager, have greatly alleviated a trying state of affairs.

The amusements and recreation side has been reasonably successful.

The staff have had a monthly dance, and the annual ball was reinstated this year. Badminton, cricket, soccer, and bowls clubs have all been successful, though perhaps rather in the enthusiasm displayed than in the various championship ladders relevant.

Parties of patients have gone regularly to the pictures; fortnightly dances have been held; and visiting concert parties have been very kind also, and in this respect particular thanks are due to the Young People's Choir, and to Mr. Cole.

Mr. Croucher is to be thanked, too, for his continued generosity in supplying buses to the patients for their various picnics and visits to various sports meetings and other functions in the district.

I wish to express my appreciations also to the various ministers of religion for their attendance and work here; and also to the staff generally for their continued loyal help and co-operation.

SEAVIEW HOSPITAL

Dr. CHILDS reports—

I have the honour to submit my report for the year ended 1947.

The number of cases under care during the year was 560 (279 males and 281 females). The admissions numbered 24 (17 males and 7 females). There were 19 transfers (3 males and 16 females) and 4 voluntary boarders (2 male and 2 female). Patients discharged were 10 (5 males and 5 females), voluntary boarders 2 (1 male and 1 female), while there were 5 transfers (3 males and 2 females).

There were 21 deaths (12 males and 9 females). At the end of the year 10 males and 6 females were on probation.

The health of the patients generally has been good. The Grey River Hospital clinic has been held monthly; occasional visits have been made to the Westland Hospital and consultations held at this hospital.

Few of the cases admitted this year have been suitable for electric convulsive therapy.

A considerable part of the hospital estate has been taken over by the Public Works Department for the purpose of building an aerodrome.

The Medical Officer's cottage, owing to difficulties in obtaining supplies, has not yet been completed.

Through the good will of the Country Library Service a small well-equipped library is now at the benefit of the patients.

A sound projector was supplied by the Department during the year, and this is an acquisition. Good programmes have been shown to the patients, and it will be useful for teaching.

The usual routine of farming and gardening has been carried out satisfactorily. Maintenance work has been in progress throughout the year, but owing to shortage of supplies maintenance at times is difficult.

Recreation and amusement have been carried out as much as possible. There was a very successful picnic—the picnic is becoming the event of the year.

Thanks are due to the various local societies for entertaining the patients at the hospital, and in particular the Hokitika Band, which plays for the dances. I would also like to thank the various ladies' committees, the racing club, and others for inviting the patients to local functions.

The clergy have made frequent visits and held regular services.

Mr. Shand, Head Attendant, has retired after forty years' service with the Department, and good wishes are extended to him and Mrs. Shand.

Although the nursing shortage position was relieved to some extent during the year, it is now acute again on the female side, and for the first time the male side shows a considerable shortage.

I wish to thank the staff generally for their help during the year.

SUNNYSIDE HOSPITAL

Dr. McKILLOP reports:—

I have the honour to forward my report for the year ended 31st December, 1947.

The total number of committed patients under care was 1,710 (858 men, 852 women). Two hundred and forty-three patients (114 men, 129 women) were admitted and 6 men and 25 women were transferred from other institutions. One hundred and fifty-five patients (76 men, 79 women) were discharged and 48 patients were transferred, leaving 1,424 patients (736 men, 688 women), inclusive of 83 men and 87 women absent on probation, receiving treatment at the end of the year.

Eleven patients were admitted on remand for observation and 4 were committed, but the others were discharged after a short period of treatment.

Almost 40 per cent. of our total admissions applied voluntarily for treatment—138 patients (59 men, 79 women) came here under this section. Sixty-three men and 71 women were discharged, 3 men and 1 woman were committed as ordinary patients, and 1 man and 4 women died. Seventy-five voluntary boarders were receiving treatment on the 31st December, 1947.

The general health of the patients has been very satisfactory. There were 83 deaths (40 men, 43 women), most of the deaths being due to senile causes. We have at present almost three hundred patients over sixty years of age, and there is an increasing admission of senile cases, probably due to the difficulty of getting efficient help in the home to look after such cases.

Electric-shock therapy continues to give favourable results—134 patients were treated during the year, and 100 were discharged fit to resume their ordinary duties.

The addition of extra occupational officers has enabled this branch of therapy to be greatly extended. Work is now carried out in several of the wards and in the new occupational block. The supply of material has improved.

The difficulty in getting material has hampered not only our maintenance work, but also major works in the course of construction—*e.g.*, the nurses' sick-room and the extensions to the nurses' dining-room.

The additions to the office and the new granary at Templeton have been completed.

The programme of building for 1948 includes a tuberculosis block, female villa, nurses' home (Templeton), and an admission block.

Approval has been given to refurnish many of the wards in the old building, and this is now being done.

Clinics have been held at Timaru and Christchurch Hospitals and the attendances have been well maintained.

The farm and gardens have had a successful year and the supply of milk and vegetables has considerably improved.

The recreation of the patients has been carried out on the usual lines: the new asphalt tennis-court has been completed, and it is hoped during 1948 to have the bowling-green relaid and extended to full size.

I wish specially to thank the National Council of Women, the Mental Welfare Society, the Justices of the Peace Association, the Presbyterian Social Service Association, and many private individuals who have done so much to help our inmates.

The Official Visitors and the chaplains of various denominations have paid regular visits and have taken a keen interest in the progress of the institution.

We are fortunate in having a full male staff, but our nurses have had another very trying year. They have carried out their extra duties willingly and efficiently.

To the staff generally I tender my thanks for their loyal co-operation and assistance.

SEACLIFF HOSPITAL

Dr. BROWN reports :—

I have the honour to submit my report for the year ended 31st December, 1947.

During the year there were 1,203 persons (678 men and 525 women) under care. In that period 185 patients were admitted, 111 discharged, and 21 transferred to other hospitals.

In addition to these patients, 64 voluntary boarders were admitted and 62 were discharged.

The number of deaths was 53, and in 28 of these the cause of death was senile decay.

Early in the year the effects of the slipping ground, on which I commented in last year's report, on the buildings on the female side of the hospital became more obvious and frequent inspections were made, at my request, by officers of the Public Works Department. It eventually became necessary to make temporary safety measures for the day-room of F2 Ward and to proceed with the erection of a wooden structure to replace it. This work is advancing, and it is hoped to get the patients into it fairly soon. On the male side, which for a time seemed to be reasonably safe from the effects of the slip, there is now evidence that this is not the case, and that, in one part at least, there is cause for some apprehension. The trouble caused by the slipping ground is extensive and makes the satisfactory running of the hospital far from easy. The main sewer has broken on numerous occasions and, by the nature of the terrain through which it runs, repairs are difficult, involving arduous work, and are not always satisfactory. Breaks in the water-main from Double Hill Reservoir are an almost every-day occurrence. A second pump, electrically driven, at Evansdale is almost ready for use, and this should make the water-supply much more satisfactory.

Much maintenance work has been done, but difficulties with supplies and lack of staff have hindered the work and much remains to be done. The age of the hospital and its insecurity have made this work difficult, costly, and often unsatisfactory.

The farm has had a satisfactory year. In the early spring very heavy rains caused flooding, which ran through the vegetable-garden, washing away not only the planted crops, but also the topsoil, and the effects of this must necessarily limit the vegetable crops next year.

The effect of the modern forms of treatment is shown in the annual statistics. The number of admissions has not been less than average, but the number of patients discharged has shown an increase, an increase which has been cumulative over the last few years. This is shown by the fact that while in 1940 the average resident population was 1,014, in the year under review the number was 961. (Despite this decline in population, the hospital is still overcrowded by modern standards.) Mr. Murray Falconer, the Neuro-Surgeon at Dunedin Hospital, has performed leucotomy in a few more cases, and the results confirm my previous reports to you that successful results can be expected only in a limited number of cases. Electro convulsive therapy has undoubtedly played a large part in the increased discharge rate, but once again I would like to emphasize that none of these treatments in itself is sufficient. The care and attention which only a well-trained staff of psychiatric nurses can give is perhaps even more important than these mechanical aids to treatment.

Clinics conducted by the members of the medical staff were held in Invercargill, Gore, Balclutha, and Oamaru as well as in the Dunedin Public Hospital.

The problem of staffing the hospital is well known to you, and the remedy, if any, does not form part of this report. I can only put on record my appreciation of the members of the existing staff, who have worked long hours and done such a good job of work.

To a number of people not actually on the staff of the hospital I must record my gratitude for their help and interest. Mrs. R. E. S. Reeves, one of the Official Visitors, has visited consistently and has shown a sympathetic interest in our difficulties and an appreciation of what we have been able to do. Mr. A. Steven, not only an Official Visitor, but also Chaplain to the Patients and Prisoners Aid Society, has been the means of organizing various concert parties and bands who have entertained us during the year. His weekly visits are looked forward to by many patients. Mr. C. B. Barrowclough, the District Inspector, has been most helpful, and his work in regard to the individual patient who has a grievance has been most painstaking. Mr. I. Wilson, the local Presbyterian minister, has collected funds and established a library for the patients; for his efforts in that, as well as for the way he has carried out his pastoral duties, I have to thank him.

The close liaison between this hospital and the Otago Medical School has been maintained, and I am indebted to the Dean, Sir Charles Hercus, and to Professor D'Ath for much help.

I must thank all members of the staff for the good work done, despite many difficulties.

TABLE I.—SHOWING THE ADMISSIONS, READMISSIONS, DISCHARGES, AND DEATHS IN MENTAL HOSPITALS DURING THE YEAR 1947

					M.	F.	T.
In mental hospitals, 1st January, 1947	..	..	..	..	4,556	4,046	8,602
Admitted for the first time	..	..	597	616	1,213	719	790
Readmitted	..	..	122	174	296		
Total under care during the year	..	..	..	..	5,275	4,836	10,111
Discharged and died—							
Recovered	..	..	236	325	561	708	695
Not recovered	..	..	154	123	277		
Died	..	..	318	247	565		
(Not including transfer : males, 68 ; females, 162.)							
Remaining in mental hospitals, 31st December, 1947	..	..	..	..	4,567	4,141	8,708
Increase on 31st December, 1946	..	..	..	..	11	95	106
Average number resident during the year	..	..	..	..	4,309	3,753	8,062

TABLE II.—ADMISSIONS, DISCHARGES, AND DEATHS WITH THE MEAN ANNUAL MORTALITY AND PROPORTION OF RECOVERIES, ETC., PER CENT. ON THE ADMISSIONS DURING THE YEAR 1947

Hospitals.	In Hospitals on 1st January, 1947.			Admissions in 1947.									Total Number of Patients under Care.		
				Admitted for the First Time.			Not First Admissions.			Transfers.					
Avondale ..	M. 722	F. 638	T. 1,360	M. 141	F. 119	T. 260	M. 26	F. 40	T. 66	M. 11	F. 9	T. 20	M. 900	F. 806	T. 1,706
Kingseat ..	461	407	868	25	40	65	7	10	17	7	17	24	500	474	974
Raventhorpe ..	9	228	237	..	..	..	..	2	2	3	27	30	12	257	269
Tokanui ..	415	395	810	61	49	110	6	9	15	3	1	4	485	454	939
Levin Farm ..	95	..	95	37	17	54	..	..	..	10	22	32	142	39	181
Porirua ..	647	528	1,175	132	166	298	42	59	101	11	42	53	832	795	1,627
Nelson ..	599	448	1,047	25	30	55	1	4	5	4	..	4	629	482	1,111
Seaview ..	259	258	517	13	6	19	4	1	5	3	16	19	279	281	560
Sunnyside ..	738	698	1,436	99	107	206	15	22	37	6	25	31	858	852	1,710
Seacliff ..	592	426	1,018	56	72	128	21	24	45	9	3	12	678	525	1,203
Ashburn Hall*	19	20	39	8	10	18	..	3	3	1	..	1	28	33	61
Totals ..	4,556	4,046	8,602	597	616	1,213	122	174	296	68	162	230	5,343	4,998	10,341

Hospitals.	Discharged recovered.			Patients discharged, transferred, and died.											
				Discharged not recovered.			Transferred.			Died.			Total discharged, transferred, and died.		
Avondale ..	M. 53	F. 54	T. 107	M. 29	F. 20	T. 49	M. 13	F. 6	T. 19	M. 68	F. 61	T. 129	M. 163	F. 141	T. 304
Kingseat ..	16	16	32	5	9	14	7	34	41	30	16	46	58	75	133
Raventhorpe ..	..	1	1	..	2	2	3	34	37	..	3	3	3	40	43
Tokanui ..	12	31	43	8	9	17	4	5	9	37	29	66	61	74	135
Levin Farm ..	..	..	..	4	..	4	..	..	..	3	1	4	7	1	8
Porirua ..	80	105	185	33	34	67	10	6	16	69	39	108	192	184	376
Nelson ..	8	18	26	3	1	4	11	18	29	33	12	45	55	49	104
Seaview ..	2	3	5	3	2	5	3	2	5	12	9	21	20	16	36
Sunnyside ..	37	53	90	39	27	66	6	41	47	40	43	83	122	164	286
Seacliff ..	25	39	64	29	18	47	8	13	21	19	34	53	81	104	185
Ashburn Hall*	3	5	8	1	1	2	3	3	6	7	..	7	14	9	23
Totals ..	236	325	561	154	123	277	68	162	230	318	247	565	776	857	1,633

Hospitals.	In Hospitals on 31st December, 1947.			Average Number resident during the Year.			Percentage of Recoveries on Admissions during the Year.			Percentage of Deaths on Average Number resident during the Year.		
Avondale ..	M. 737	F. 665	T. 1,402	M. 674	F. 556	T. 1,230	M. 31.74	F. 33.96	T. 32.82	M. 10.08	F. 10.97	T. 10.49
Kingseat ..	442	399	841	444	382	826	50.00	32.00	39.02	6.76	4.19	5.57
Raventhorpe ..	9	217	226	9	216	225	..	50.00	50.00	..	1.39	1.33
Tokanui ..	424	380	804	408	364	772	17.91	53.45	34.40	9.07	7.97	8.55
Levin Farm ..	135	38	173	101	15	116	..	..	..	2.97	6.67	3.45
Porirua ..	640	611	1,251	612	519	1,131	45.97	46.67	46.37	16.18	7.51	9.55
Nelson ..	574	433	1,007	560	409	969	30.77	52.94	43.33	5.89	2.93	4.64
Seaview ..	259	265	524	253	260	513	11.76	42.86	20.83	4.74	3.46	4.09
Sunnyside ..	736	688	1,424	666	617	1,283	32.46	41.09	37.04	6.01	6.97	6.47
Seacliff ..	597	421	1,018	566	395	961	32.47	40.63	36.99	3.36	8.61	5.52
Ashburn Hall* ..	14	24	38	16	20	36	37.50	38.46	38.10	42.5	..	19.44
Totals ..	4,567	4,141	8,708	4,309	3,753	8,062	32.82	41.14	37.18	7.38	6.58	7.01

* Private mental hospital.

TABLE III.—NATIVE COUNTRIES

Countries.	Avondale.			Kingsseat.			Raven- thorpe.			Tokanui.			Levin Farm.			Porirua.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
England and Wales ..	86	69	155	63	53	116	..	20	20	40	43	83	1	2	3	73	71	144
Scotland ..	18	9	27	13	10	23	..	8	8	13	8	21	2	..	2	26	21	47
Ireland ..	15	12	27	17	14	31	1	8	9	18	13	31	..	..	..	18	18	36
New Zealand ..	473	497	970	275	279	554	8	160	168	296	278	574	126	34	160	446	451	897
Australian States ..	30	15	45	15	12	27	..	11	11	11	12	23	2	..	2	22	14	36
France ..	1	..	1	..	..	..	..	..	..	1	..	1	..	..	..	1	..	1
Germany ..	1	2	3	1	..	1	..	..	..	..	1	1	..	..	..	1	1	2
Austria ..	5	..	5	5	..	5	..	..	..	2	..	2	..	..	..	..	..	..
Norway ..	1	..	1	4	..	4	..	..	..	..	..	..	..	..	..	..	..	..
Sweden ..	3	1	4	2	1	3	..	..	..	..	..	..	..	..	..	..	..	..
Denmark ..	..	..	..	..	1	2	..	..	..	2	..	2	..	..	..	1	..	1
Italy ..	2	..	2	1	..	2	..	..	..	1	..	1	..	..	..	2	..	2
China ..	3	1	4	2	1	3	..	..	..	2	..	2	..	..	..	2	2	4
Maoris ..	34	23	57	15	11	26	..	..	..	30	16	46	4	..	4	34	25	59
Other countries ..	43	13	56	16	13	29	..	7	7	8	9	17	..	..	..	14	8	22
Unknown ..	22	23	45	13	4	17	..	3	3	..	..	..	..	2	2	..	..	..
Totals ..	737	665	1,402	442	399	841	9	217	226	424	380	804	135	38	173	640	611	1,251

Countries.	Nelson.			Seaview.			Sunnyside.			Seaciff.			Ashburn Hall (Private Mental Hospital).			Totals.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
England and Wales ..	37	33	70	24	20	44	36	41	77	33	22	55	1	..	1	394	374	768
Scotland ..	20	9	29	9	4	13	15	9	24	31	23	54	2	..	2	149	101	250
Ireland ..	8	3	11	10	6	16	12	6	18	20	9	29	..	..	..	119	89	208
New Zealand ..	450	355	805	186	192	378	646	605	1,251	477	357	834	10	22	32	3,393	3,230	6,623
Australian States ..	9	7	16	5	10	15	11	15	26	13	4	17	1	1	2	119	101	220
France ..	..	..	..	..	..	..	2	..	2	1	..	1	..	..	..	3	..	3
Germany ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	4	10
Austria ..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	13	..	13
Norway ..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	6	..	6
Sweden ..	..	..	..	1	..	1	..	..	..	2	..	2	..	..	..	8	2	10
Denmark ..	4	..	4	1	..	1	..	..	..	1	..	1	..	1	1	9	1	10
Italy ..	2	1	3	3	..	3	..	..	..	..	..	..	..	..	..	9	2	11
China ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	4	15
Maoris ..	17	14	31	1	2	3	6	5	11	..	..	..	..	..	..	141	96	237
Other countries ..	6	1	7	19	31	50	8	7	15	8	6	14	..	..	..	122	95	217
Unknown ..	19	10	29	..	..	..	..	..	..	11	..	11	..	..	..	65	42	107
Totals ..	574	433	1,007	259	265	524	736	688	1,424	597	421	1,018	14	24	38	4,567	4,141	8,708

TABLE IV.—AGES OF PATIENTS ON 31ST DECEMBER, 1947

Ages.	Avondale.			Kingsseat.			Raven- thorpe.			Tokanui.			Levin Farm.			Porirua.			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
From 1 to 5 years	3	..	3	..	..	..	1	1	2	10	3	13	1	..	1	
.. 5 .. 10	1	1	2	1	2	3	..	..	5	7	12	17	8	25	2	6	8	
.. 10 .. 15	7	1	8	6	4	10	..	..	5	8	13	20	3	23	3	10	13	
.. 15 .. 20	27	7	34	21	11	32	..	1	14	7	21	32	9	41	17	33	50	
.. 20 .. 30	100	83	183	23	36	59	1	4	54	54	108	44	13	57	83	87	170	
.. 30 .. 40	164	116	280	59	58	117	..	19	87	70	157	12	1	13	158	98	256	
.. 40 .. 50	147	123	270	78	75	153	1	33	67	74	141	..	1	1	107	97	204	
.. 50 .. 60	110	161	271	91	83	174	4	64	63	66	129	..	..	..	127	100	227	
.. 60 .. 70	106	101	207	98	81	179	2	60	62	69	57	126	..	..	85	95	180	
.. 70 .. 80	49	45	94	52	36	88	1	28	29	48	28	76	..	..	50	62	112	
.. 80 .. 90	14	15	29	6	12	18	..	5	9	7	16	..	..	..	7	23	30	
Upwards of 90 years	
Unknown	12	12	24	4	1	5	..	3	2	1	3	..	..	..	..	..	..
Totals	737	665	1,402	442	399	841	9	217	226	424	380	804	135	38	173	640	611	1,251

TABLE IV.—AGES OF PATIENTS ON 31ST DECEMBER, 1947—*continued*

Ages.	Nelson.			Seaview.			Sunnyside.			Seacliff.			Ashburn Hall (Private Mental Hospital).			Totals.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
From 1 to 5 years	23	19	42	..	..	..	11	10	21	1	..	1	..	..	..	50	33	83.
„ 5 „ 10	52	31	83	..	..	..	29	22	51	7	..	7	..	..	..	114	77	191
„ 10 „ 15	53	31	84	..	..	..	42	22	64	2	..	4	..	..	..	139	85	224
„ 15 „ 20	33	25	58	1	2	3	69	43	112	6	10	16	..	..	2	221	151	372
„ 20 „ 30	61	45	106	15	16	31	166	116	282	72	36	108	3	3	6	622	493	1,115
„ 30 „ 40	102	57	159	41	33	74	105	112	217	110	57	167	1	1	2	839	622	1,461
„ 40 „ 50	67	51	118	40	40	80	112	94	206	133	67	200	2	..	2	754	655	1,409
„ 50 „ 60	68	72	140	56	64	120	80	97	177	107	85	192	2	2	4	708	794	1,502
„ 60 „ 70	66	60	126	71	74	145	76	100	176	97	91	188	1	7	8	671	726	1,397
„ 70 „ 80	36	35	71	28	22	50	38	59	97	50	55	105	3	5	8	355	375	730
„ 80 „ 90	4	5	9	3	6	9	7	12	19	11	14	25	2	2	4	63	101	164
Upwards of 90 years	1	1	2	..	..	..	..	1	1	1	2	3	..	2	2	2	6	8
Unknown	8	1	9	2	5	7	1	..	1	..	..	..	..	..	..	29	23	52
Totals	574	433	1,007	259	265	524	736	688	1,424	597	421	1,018	14	24	38	4,567	4,141	8,708

TABLE V.—LENGTH OF RESIDENCE OF PATIENTS DISCHARGED “RECOVERED” DURING 1947

Length of Residence.	Avondale.			Kingsseat.			Raven- thorpe.			Tokanui.			Levin Farm.			Porirua.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 1 month	2	4	6	..	..	..	..	..	..	..	..	..	..	2	3	5
From 1 to 3 months	13	8	21	..	..	2	2	..	..	..	..	..	..	18	27	45
„ 3 „ 6	6	2	8	5	2	7	..	2	3	5	..	..	..	23	31	54
„ 6 „ 9	10	18	28	3	3	6	..	1	5	6	..	..	..	13	18	31
„ 9 „ 12	5	9	14	3	3	6	..	2	9	11	..	..	..	7	9	16
„ 1 „ 2 years	12	6	18	1	3	4	..	4	6	10	..	..	..	9	9	18
„ 2 „ 3	3	2	5	1	2	3	..	2	4	6	..	..	..	1	5	6
„ 3 „ 5	1	2	3	1	1	2	..	1	1	1	..	..	..	..	3	3
„ 5 „ 7	3	3	1	..	1	..	1	1	2	..	..	..	4	..	4
„ 7 „ 10	1	..	1	..	..	1	1	..	..	..	1	..	1
„ 10 „ 12	1	1	..	..	..	..	..	..
„ 12 „ 15	1	1	..	..	..	2	..	2
Over 15 years	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	53	54	107	16	16	32	..	1	1	12	31	43	..	80	105	185

Length of Residence.	Nelson.			Seaview.			Sunnyside.			Seacliff.			Ashburn Hall (Private Mental Hospital).			Totals.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 1 month	1	..	1	..	..	..	..	..	2	..	2	..	..	..	..	7	7	14
From 1 to 3 months	..	1	1	..	1	1	4	3	7	8	8	2	2	2	4	37	52	89
" 3 " 6	1	1	..	..	9	5	14	1	1	2	1	3	4	47	48	95
" 6 " 9	5	5	1	..	10	16	26	8	13	21	..	..	..	46	78	124
" 9 " 12	..	3	..	3	1	..	3	10	13	7	6	13	..	..	..	31	46	77
" 1 " 2 years	..	1	4	5	..	1	5	10	15	7	7	14	..	..	..	39	46	85
" 2 " 3	..	1	3	4	..	1	1	3	4	..	3	3	..	..	..	9	23	32
" 3 " 5	2	2	..	..	1	2	3	..	1	1	..	..	..	3	13	16
" 5 " 7	..	1	1	2	..	..	2	1	3	..	..	..	..	..	..	9	6	15
" 7 " 10	1	1	..	..	..	2	2	..	..	..	..	..	..	2	4	6
" 10 " 12	1	1	..	..	..	..	..	..	..	2	2
" 12 " 15	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	3	..	3
Over 15 years	2	..	2	..	..	..	..	..	..	3	..	3
Totals	8	18	26	2	3	5	37	53	90	25	39	64	3	5	4	236	325	561

TABLE VI.—CAUSES OF DEATH, 1947

Causes.	Avondale.			Kingseat.			Raven- thorpe.			Tokanui.			Levin Farm.			Porirua.		
I.—GENERAL DISEASES	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Tuberculosis—																		
General				1	..	1	..	..		1	..	5	..	..		5	..	6
Lungs	4	3	7	1	..	1	..	..		1	4	5	..	..		4	3	7
Cancer				3	2	5	..	2	2				..	..		
Toxæmia	3	2	5	..	1	1	..	..		2	1	3	..	..		
Septicæmia	1	2	3	..	..	..	..	..		1	..	1	..	..		1	..	1
Diabetes .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
Meningitis .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
Congenital debility .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
Rheumatic fever .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
II.—DISEASES OF THE NERVOUS SYSTEM																		
Exhaustion .. .. .	..	..	..	1	..	1	..	..		..	..	..	..	..		1	..	1
Exhaustion of mania .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		5	..	5
General paralysis of the insane .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		1	..	1
Cerebral hæmorrhage	13	12	25	..	1	1	..	1	1	1	..	1	..	..		..	1	1
Cerebral thrombosis	1	..	1	1	..	1	..	..		1	..	1	..	..		..	1	1
Cerebral tumour .. .. .	..	..	..	1	..	1	..	..		..	..	..	..	..		..	..	..
Epilepsy	3	..	3	..	..	..	..	..		2	1	3	..	..		..	1	1
Organic brain-disease	2	2	4	..	..	..	..	..		..	..	..	..	..		..	..	..
Huntingdon's chorea .. .. .	..	..	..	..	..	..	..	..		1	..	1	..	..		..	..	..
III.—DISEASES OF THE RESPIRATORY SYSTEM																		
Pneumonia—																		
Broncho	3	11	14	1	..	1	..	..		4	4	8	1	1	2	2	2	4
Hypostatic	1	5	6	..	2	2	..	..		..	..	..	..	..		..	..	..
Lobar .. .. .	..	2	2	1	..	1	..	..		..	..	..	..	..		..	..	..
Bronchitis .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
Pulmonary—																		
Edema .. .. .	..	..	..	..	1	1	..	..		..	..	..	..	..		..	..	..
Embolism .. .. .	..	2	2	..	..	..	..	..		..	..	..	..	..		..	..	..
Infarct .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
Pleurisy .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
Laryngeal spasm .. .. .	..	..	..	..	..	..	..	..		..	1	1	..	..		..	..	..
IV.—DISEASES OF THE CIRCULATORY SYSTEM																		
Heart-disease	29	15	44	14	1	15	..	..		7	9	16	..	..		23	9	32
Arterio-sclerosis .. .. .	..	..	..	..	..	..	..	..		6	..	6	..	..		7	..	7
Syphilitic aortitis	1	..	1	..	..	..	..	..		..	..	..	..	..		..	..	..
V.—DISEASES OF THE DIGESTIVE SYSTEM																		
Gastric ulcer .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
Peritonitis	1	..	1	..	..	..	..	..		..	..	..	..	..		..	..	..
Colitis .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	1	1
Intestinal obstruction	1	..	1	..	..	..	..	..		..	..	..	..	..		..	..	..
Pyloric stenosis .. .. .	..	..	..	..	..	..	..	..		..	1	1	..	..		..	..	..
VI.—DISEASES OF THE URINARY SYSTEM																		
Uræmia .. .. .	..	..	..	..	..	..	..	..		..	..	..	..	..		..	..	..
Nephritis	1	..	1	..	..	..	..	..		..	..	..	..	..		..	..	..
VII.—OLD AGE																		
Senile decay	1	1	2	3	5	8	..	..		11	6	17	..	..		19	15	34
VIII.—EXTERNAL CAUSES																		
Asphyxia .. .. .	..	..	..	1	2	3	..	..		..	..	..	1	..	1	..	..	..
Suicide .. .. .	..	..	..	..	..	..	..	..		..	1	1	..	..		..	2	2
Shock .. .. .	..	..	..	1	1	2	..	..		..	..	..	..	..		..	..	..
Accidentally killed	1	..	1	..	..	..	..	..		..	..	..	..	..		..	..	..
IX.—Died whilst on probation	2	4	6	1	..	1	..	..		..	1	1	1	..	1	1	4	5
Totals	68	61	129	30	16	46	..	3	3	37	29	66	3	1	4	69	39	108

TABLE VI.—CAUSES OF DEATH, 1947—*continued*

Causes.	Nelson.			Seaview.			Sunnyside.			Seacliff.			Ashburn Hall (Private Mental Hospital).			Total.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
I.—GENERAL DISEASES																		
Tuberculosis—																		
General	3	..	3	..	..	..	1	..	1	..	..	3	..	..	..	5	..	5
Lungs	2	..	2	..	..	..	..	2	2	1	2	3	..	..	..	14	12	26
Cancer	1	..	1	1	..	1	..	..	..	..	3	3	..	..	..	9	10	19
Toxæmia .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	4	9
Septicæmia	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
Diabetes	1	..	1	..	..	..	1	..	1	..	..	..	..	..	..	4	..	4
Meningitis	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Congenital debility	1	1	2	2	1	3	..	..	..	..	..	..	..	..	..	3	2	5
Rheumatic fever .. .. .	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	1	1
II.—DISEASES OF THE NERVOUS SYSTEM																		
Exhaustion .. .. .	..	..	..	..	..	..	2	..	3	..	..	..	..	..	..	1	..	1
Exhaustion of mania .. .. .	..	..	..	..	..	..	2	1	3	..	..	..	..	..	..	3	1	4
General paralysis of the insane .. .. .	..	..	..	..	..	..	1	1	2	..	1	1	..	..	..	6	2	8
Cerebral hæmorrhage .. .. .	..	..	..	..	..	..	4	4	8	1	2	3	..	..	..	20	20	40
Cerebral thrombosis .. .. .	..	..	..	..	1	1	1	..	1	1	..	1	..	..	..	5	2	7
Cerebral tumour .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Epilepsy	2	..	2	1	..	1	1	..	1	..	1	1	..	..	..	9	3	12
Organic brain-disease .. .. .	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	3	3	6
Huntingdon's chorea .. .. .	..	..	..	..	..	..	..	..	..	..	1	1	1	1	..	1	1	2
III.—DISEASES OF THE RESPIRATORY SYSTEM																		
Pneumonia—																		
Broncho	1	..	1	1	..	1	..	3	3	1	..	1	..	..	..	14	21	35
Hypostatic .. .. .	..	..	..	..	..	..	..	9	9	..	..	..	..	..	..	1	16	17
Lobar	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
Bronchitis .. .. .	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	1	..	1
Pulmonary—																		
Edema .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Embolism .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
Infarct .. .. .	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	1	..	1
Pleurisy .. .. .	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1	1
Laryngeal spasm .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
IV.—DISEASES OF THE CIRCULATORY SYSTEM																		
Heart-disease	7	2	9	3	2	5	18	14	32	3	3	6	..	..	..	104	55	159
Arterio-sclerosis .. .. .	..	..	..	..	..	..	1	1	2	1	..	1	3	..	3	18	1	19
Syphilitic aortitis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
V.—DISEASES OF THE DIGESTIVE SYSTEM																		
Gastric ulcer .. .. .	..	..	..	..	..	..	2	..	2	..	..	..	..	..	..	2	..	2
Peritonitis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Colitis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Intestinal obstruction .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Pyloric stenosis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
VI.—DISEASES OF THE URINARY SYSTEM																		
Uremia .. .. .	..	..	..	..	..	..	3	..	3	1	..	1	..	..	..	4	..	4
Nephritis	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
VII.—OLD AGE																		
Senile decay	10	9	19	3	4	7	1	4	5	9	19	28	3	..	3	60	63	123
VIII.—EXTERNAL CAUSES																		
Asphyxia .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
Suicide .. .. .	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	1	2	3
Shock .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
Accidentally killed .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
IX.—Died whilst on probation	1	..	1	..	..	..	2	2	4	1	1	2	..	..	..	9	12	21
Totals	33	12	45	12	9	21	40	43	83	19	34	53	7	..	7	318	247	565

TABLE VII.—PRINCIPAL ASSIGNED CAUSES OF INSANITY, 1947

Causes.	Avondale.			Kingsseat.			Raven- thorpe.			Tokanui.			Levin Farm.			Porirua.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Alcohol	4	..	4	1	..	1	..	..	..	1	..	1	..	..	..	3	..	3
Anaurosis .. .. .	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	7	11	18
Arterio-sclerosis	8	12	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cerebral tumour .. .. .	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..
Chorea .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Congenital	17	10	27	7	9	16	..	..	..	8	6	14	37	17	54	11	11	22
Climacteric .. .. .	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
Constitutional	48	28	76	8	18	26	..	2	2	29	32	61	..	..	..	55	62	117
Drug addiction .. .. .	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..
Encephalitis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Epilepsy	7	..	7	2	2	4	..	..	..	2	1	3	..	..	..	2	..	2
Exhaustion .. .. .	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6
Heredity .. .. .	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	1	..	1
Ill health .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	6
Involution	1	..	1	..	..	..	..	..	..	..	4	4	..	..	..	8	15	23
Mental stress	6	15	21	..	1	1	..	..	..	..	..	..	..	..	..	9	3	12
Organic brain-disease	28	1	29	..	..	..	..	..	..	..	..	..	..	..	..	42	59	101
Previous attack	26	41	67	7	10	17	..	..	..	..	..	..	..	..	..	..	..	..
Puberty or adolescence .. .. .	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal .. .. .	..	3	3	..	2	2	..	..	..	..	1	1	..	..	..	..	5	5
Senility	13	38	51	5	7	12	..	..	..	18	12	30	..	..	..	27	49	76
Syphilis	6	3	9	..	..	..	..	..	..	1	..	1	..	..	..	4	1	5
Toxic—exhaustive psychosis, &c. ..	3	2	5	..	..	..	..	..	..	8	2	10	..	..	..	..	..	..
Transfers	11	9	20	7	17	24	3	27	30	3	1	4	10	22	32	11	42	53
Totals	178	168	346	39	67	106	3	29	32	70	59	129	47	39	86	185	267	452

Causes.	Nelson.			Seaview.			Sunnyside.			Seacliff.			Ashburn Hall (Private Mental Hospital).			Totals.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Alcohol .. .. .	..	..	..	1	..	1	..	..	..	4	2	6	1	..	1	15	2	17
Anaurosis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1
Arterio-sclerosis	5	2	7	..	..	..	9	8	17	..	..	..	..	..	..	29	33	62
Cerebral tumour .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Chorea .. .. .	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	1	1
Congenital	8	5	13	1	..	1	34	23	57	3	4	7	..	..	..	126	85	211
Climacteric .. .. .	..	3	3	..	..	..	..	..	..	..	..	..	..	..	..	..	7	7
Constitutional	1	6	7	4	3	7	22	29	51	15	12	27	3	4	7	185	196	381
Drug addiction .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Encephalitis .. .. .	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	1
Epilepsy .. .. .	..	2	2	1	1	2	1	3	4	2	1	3	..	..	..	17	10	27
Exhaustion .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Heredity	3	2	5	..	..	..	1	..	1	..	..	..	..	..	..	7	6	13
Ill health .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	2	3
Involution .. .. .	..	..	..	1	..	1	3	4	7	..	2	2	..	1	1	7	15	22
Mental stress	4	4	8	..	..	..	4	12	16	18	27	45	..	..	..	40	74	114
Organic brain-disease .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37	4	41
Previous attack .. .. .	..	3	3	4	1	5	16	18	34	21	24	45	1	4	5	117	160	277
Puberty or adolescence .. .. .	..	1	1	..	..	..	..	4	4	..	..	1	..	..	..	..	3	3
Puerperal .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	16
Senility	5	6	11	5	2	7	23	27	50	15	22	37	3	3	6	114	166	280
Syphilis .. .. .	..	..	..	..	..	..	1	..	1	3	..	3	..	..	..	15	4	19
Toxic—exhaustive psychosis, &c. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	4	15
Transfers	4	..	4	3	16	19	6	25	31	4	3	7	1	..	1	63	162	225
Totals	30	34	64	20	23	43	120	154	274	86	99	185	9	13	22	787	952	1,739

TABLE VIII.—SHOWING THE ADMISSIONS, DISCHARGES, AND DEATHS FROM
1ST JANUARY, 1876, TO 31ST DECEMBER, 1947 (EXCLUDING TRANSFERS)

							M.	F.	T.
In hospital, 31st December, 1875	..	..	..	..	..	..	482	254	736
Admissions	..	..	..	..	..	..	29,624	24,773	54,397
							30,106	25,027	55,133
Discharged—							M.	F.	T.
Recovered	..	..	..	..	9,902	9,529	19,431		
Not recovered	..	..	..	..	3,667	3,350	7,017		
Died	..	..	..	..	11,970	8,007	19,977		
							25,539	20,886	46,425
Remaining on 31st December, 1947	..	..	..	..	..	..	4,567	4,141	8,708

TABLE IX.—SUMMARY OF TOTAL ADMISSIONS: PERCENTAGE OF CASES SINCE THE
YEAR 1876

—				Males.	Females.	Both Sexes.
Recovered	..	..	..	32·89	38·07	35·24
Unrecovered	..	..	..	12·18	13·39	12·73
Died	..	..	..	39·76	31·99	36·23
Remaining	..	..	..	15·17	16·55	15·80
				100·00	100·00	100·00

TABLE X.—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, 1906

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.			
	M.	F.	T.	M.	F.	T.		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
1906	395	264	659	157	126	283	85	231	1,900	1,306	3,206	1,823	1,265	3,088	39.75	47.73	42.94	8.01	6.71	7.48
1907	359	241	600	139	209	348	146	222	1,931	1,331	3,240	1,853	1,285	3,136	44.73	57.68	49.84	9.08	4.98	7.39
1908	426	318	744	180	146	326	74	222	1,997	1,417	3,414	1,894	1,346	3,240	42.25	55.91	43.82	7.81	5.50	6.85
1909	419	297	716	179	140	319	68	204	2,043	1,465	3,548	1,970	1,404	3,374	42.72	57.24	43.74	6.90	4.84	6.00
1910	474	314	788	182	145	327	97	203	2,160	1,510	3,670	2,028	1,445	3,473	38.40	46.18	41.50	9.17	6.71	8.15
1911	448	317	765	163	168	331	105	283	2,220	1,536	3,756	2,105	1,496	3,601	36.38	53.00	43.27	9.41	7.02	8.41
1912	458	381	839	141	325	466	87	280	2,272	1,640	3,913	2,146	1,551	3,697	40.17	37.01	37.74	8.99	5.61	7.57
1913	466	318	784	175	162	337	111	307	2,323	1,632	3,964	2,202	1,597	3,849	37.55	50.94	42.98	8.70	6.96	7.98
1914	509	359	868	207	162	369	27	288	2,408	1,703	4,111	2,309	1,641	3,950	40.67	45.12	42.51	8.36	5.36	7.11
1915	450	361	811	202	157	359	112	280	2,448	1,752	4,200	2,391	1,703	4,094	44.89	43.21	41.88	7.19	4.52	6.94
1916	518	361	879	160	171	331	80	289	2,555	1,820	4,375	2,431	1,768	4,251	39.40	47.37	37.66	8.42	4.52	6.80
1917	470	374	844	171	152	323	113	318	2,611	1,904	4,515	2,543	1,868	4,368	36.48	40.64	38.27	8.06	6.19	7.28
1918	437	402	839	142	141	283	174	448	2,603	1,943	4,546	2,602	1,899	4,501	32.49	35.07	33.73	0.53	9.16	9.95
1919	512	371	883	190	147	337	130	372	2,667	1,980	4,647	2,620	1,907	4,527	37.11	39.62	38.17	18.09	6.82	7.55
1920	435	418	853	162	148	310	307	376	2,772	2,099	4,871	2,723	2,081	4,654	35.23	47.88	42.11	7.85	5.40	6.68
1921	479	402	881	178	193	371	318	325	2,816	2,116	4,932	2,747	2,079	4,868	38.44	40.67	37.31	7.07	8.92	8.21
1922	453	386	839	156	137	313	320	318	2,859	2,157	4,966	2,789	2,079	4,868	38.44	40.67	37.31	6.95	8.30	6.67
1923	446	377	823	152	128	280	300	325	2,889	2,157	4,966	2,789	2,079	4,868	38.44	40.67	37.31	7.07	8.92	8.21
1924	508	439	947	136	145	281	316	325	2,936	2,236	5,172	2,830	2,146	4,953	34.08	33.95	34.02	7.87	4.42	6.37
1925	531	414	945	157	128	285	340	324	2,921	2,336	5,257	2,830	2,203	5,033	32.36	40.69	36.45	7.45	5.57	6.43
1926	506	450	956	115	134	249	349	354	3,044	2,423	5,467	2,926	2,287	5,213	26.18	30.75	29.67	6.16	6.42	6.77
1927	549	407	956	145	114	259	361	345	3,174	2,526	5,673	3,022	2,378	5,395	29.56	30.91	30.16	7.17	5.65	6.47
1928	521	474	995	138	128	266	380	368	3,279	2,628	5,902	3,120	2,459	5,710	26.41	35.37	26.04	6.63	6.55	6.59
1929	587	484	1,071	141	160	301	39	423	3,399	2,694	6,093	3,215	2,495	5,710	26.41	35.37	26.04	6.63	6.55	6.59
1930	621	474	1,095	138	128	266	380	368	3,399	2,694	6,093	3,215	2,495	5,710	26.41	35.37	26.04	6.63	6.55	6.59
1931	587	484	1,071	141	160	301	39	423	3,399	2,694	6,093	3,215	2,495	5,710	26.41	35.37	26.04	6.63	6.55	6.59
1932	563	554	1,117	144	201	345	42	520	3,420	2,753	6,173	3,242	2,508	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1933	579	483	1,062	127	120	247	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1934	479	504	983	114	146	260	42	520	3,420	2,753	6,173	3,242	2,508	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1935	567	502	1,069	111	136	253	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1936	553	556	1,109	121	149	270	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1937	527	573	1,124	180	179	359	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1938	557	575	1,102	170	210	380	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1939	603	505	1,108	147	181	328	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1940	553	505	1,058	148	183	331	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1941	603	637	1,241	128	186	314	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1942	563	641	1,212	146	197	343	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1943	600	658	1,306	138	223	361	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1944	600	763	1,363	137	218	355	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1945	645	715	1,372	165	295	460	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1946	655	788	1,433	183	270	453	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1947	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1948	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1949	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1950	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1951	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1952	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1953	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1954	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1955	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1956	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1957	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1958	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1959	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1960	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1961	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519	5,966	26.41	35.37	26.04	7.06	6.13	6.65
1962	719	700	1,509	236	325	561	423	378	3,486	2,811	6,297	3,266	2,519							

TABLE XI.—DEBITS FOR FINANCIAL YEAR 1947-48

	Avondale, Auckland.			Kingseat, Papakura.			Raventhorpe, Papakura.			Tokanui, Te Awamutu.			Levin.			Porirua.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Salaries, including overtime	108,843	6	0	61,810	11	8	13,320	14	3	59,421	3	5	10,981	9	1	121,496	1	0
Official Visitors ..	26	19	8	..	..	..	..	..	..	..	..	..	..	..	..	6	5	0
Advertising, books, &c.	38	6	1	61	12	9	14	16	2	36	0	11	28	1	6	41	17	0
Bacteriological research	15	15	0	2	7	0	..	..	..	13	8	0	..	..	..	240	13	7
Bedding and clothing	11,498	7	1	10,666	0	1	3,099	18	7	4,927	14	0	4,459	2	6	22,716	12	4
Buildings, including additions, &c.	2,231	3	2	1,362	18	6	233	13	6	1,825	8	6	243	4	6	496	0	1
Compensation under Workers' Compensation Act	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dental services	542	9	5	27	17	8	77	14	10	48	15	11	25	7	0	40	18	3
Expenses of medical officers and occupational therapists from United Kingdom to New Zealand	..	..	..	522	11	8	..	..	..	..	..	..	..	..	..	..	..	..
Farms, maintenance of	2,117	18	11	2,098	8	7	70	1	1	6,392	2	3	271	16	8	4,098	16	0
Fencing, draining, and roading	94	2	4	61	11	5	..	..	..	108	17	7	7	17	10	163	15	2
Freight, cartage, and transport	182	19	11	444	13	2	190	16	11	432	10	2	36	4	9	489	17	7
Fuel, light, water, &c.	10,199	9	4	5,641	8	1	1,631	12	8	5,851	9	1	1,631	8	8	11,404	18	3
Funeral expenses ..	55	0	0	115	0	0	10	0	0	57	0	0	..	..	..	40	0	0
Furniture and fittings	2,040	11	1	2,115	10	1	2,155	11	10	1,400	18	9	2,825	18	11	5,287	7	11
Gardens and shrubberies	165	7	8	123	15	8	69	10	4	143	6	3	63	11	6	143	4	0
Grants to widows or relatives of deceased officers	170	16	8	..	..	..	..	..	..	..	..	..	..	..	..	136	13	4
Laundry ..	463	7	10	1,027	10	5	125	6	8	516	11	6	72	12	9	887	15	1
Machinery repairs and stores	541	15	8	384	5	2	514	12	10	1,593	10	10	73	2	6	526	4	7
Medical fees ..	772	9	7	196	4	10	4	7	6	221	13	9	156	17	0	953	5	10
Motor-vehicles—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maintenance of ..	55	8	1	291	8	7	124	1	3	516	12	9	25	19	0	392	7	4
Purchase of ..	492	6	0	254	13	6	..	..	..	407	0	2	..	..	..	..	..	..
Nursing staff uniforms	342	12	10	239	3	9	25	12	9	239	1	10	12	1	6	451	16	9
Office equipment ..	75	12	8	0	8	8	3	13	6	44	13	11	7	6	9	47	10	11
Patients, expenses connected with—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Comforts ..	3,048	7	10	2,050	10	3	152	14	7	1,451	1	11	450	0	0	2,339	5	7
Friends ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gratuities ..	4	8	6	..	..	..	..	..	..	2	10	0	..	..	..	60	0	0
Recreation ..	1,762	8	3	805	8	3	105	18	7	930	15	3	227	4	8	1,746	8	1
Transfer ..	5	2	2	..	..	..	61	16	0	1	5	9	12	7	3	28	14	10
Payment of monetary equivalent of leave due to deceased officers	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Postages, telegrams, &c.	165	4	6	115	15	2	62	5	0	166	9	3	57	1	8	304	14	1
Printing and stationery	398	12	3	230	12	1	123	18	6	228	13	8	98	18	5	331	17	7
Rations ..	27,635	17	6	16,576	18	6	6,990	12	4	10,645	16	3	3,797	1	3	30,643	11	0
Rents and rates ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Staff training: expenses incidental thereto	..	..	..	83	17	9	..	..	..	190	10	0	83	7	5	83	6	3
Stores ..	3,574	4	0	2,533	16	0	648	18	6	637	2	0	936	3	6	2,104	17	10
Surgery and dispensary	1,828	16	8	1,093	6	4	378	14	9	953	10	5	127	2	8	2,418	4	3
Telephone services ..	126	10	6	252	11	3	251	16	2	183	12	10	28	17	2	243	9	5
Transfer and removal expenses	84	9	2	189	1	1	2	18	10	139	0	10	182	15	11	231	3	5
Travelling-allowances	90	11	0	103	15	9	..	..	..	107	12	6	..	..	..	42	2	7
Travelling-expenses ..	575	9	0	71	4	3	5	19	11	135	5	8	24	6	4	291	19	2
Treatment in general hospitals—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patients ..	54	0	0	38	0	0	..	..	..	17	9	6	..	..	..	52	10	0
Staff ..	11	12	0	..	..	..	3	0	0	5	11	6	..	..	..	..	..	..
Contingencies and miscellaneous	102	19	2	65	2	5	3	4	0	33	12	1	1	2	10	478	12	10
Totals ..	180,434	17	6	111,658	0	4	30,464	1	10	100,027	19	0	26,948	11	6	211,412	16	11

TABLE XI.—DEBITS FOR THE FINANCIAL YEAR 1947-48—continued

	Nelson.			Seaview, Hokitika.			Sunnyside, Christchurch.			Seacliff.			Head Office, Wellington.			Totals.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Salaries, including overtime	76,793	13	9	46,308	0	4	119,996	0	1	108,087	17	0	13,081	3	11	740,140	0	6
Official Visitors	..	..	..	..	..	..	14	10	10	..	..	..	..	..	..	47	15	6
Advertising, books, &c.	38	4	0	18	19	5	23	15	1	147	18	4	234	0	0	683	11	3
Bacteriological research	8	8	0	..	..	..	119	5	2	78	4	6	..	..	..	478	1	3
Bedding and clothing	9,882	17	0	8,982	13	1	10,223	10	0	11,683	11	0	..	..	..	98,140	5	8
Buildings, including additions, &c.	596	10	1	471	16	4	2,372	4	2	969	7	0	3	3	3	10,805	9	1
Compensation under Workers' Compensation Act	..	..	..	..	..	..	..	..	..	200	0	0	..	..	..	200	0	0
Dental services	49	4	4	16	6	0	32	15	11	21	12	7	..	..	..	883	1	11
Expenses of medical officers and occupational therapists from United Kingdom to New Zealand	..	..	..	..	..	..	..	..	..	..	..	..	130	12	6	633	4	2
Farms, maintenance of	2,073	17	5	1,263	18	7	2,907	8	8	3,684	5	7	..	..	..	24,978	13	9
Fencing, draining, and roading	10	9	2	100	10	5	102	15	9	48	2	4	..	..	..	698	2	0
Freight, cartage, and transport	369	1	0	82	8	7	531	15	4	889	3	3	..	..	..	3,649	10	8
Fuel, light, water, &c.	7,442	16	9	3,430	8	5	12,871	13	3	9,758	18	4	125	17	3	69,990	0	1
Funeral expenses	93	0	0	89	5	0	67	12	0	10	5	0	..	..	..	537	2	0
Furniture and fittings	1,638	14	9	644	13	1	3,110	5	11	2,900	5	7	93	2	7	24,213	0	6
Gardens and shrubberies	298	10	10	74	8	10	255	14	0	81	4	7	..	..	..	1,418	13	8
Grants to widows or relatives of deceased officers	..	..	..	90	1	8	..	..	..	..	..	..	..	..	..	397	11	8
Laundry	361	4	1	227	13	3	535	10	10	255	4	8	..	..	..	4,422	17	1
Machinery repairs and stores	228	10	4	108	11	11	872	0	5	507	6	9	..	..	..	5,350	1	0
Medical fees	149	10	9	47	9	6	526	6	4	353	9	11	..	..	..	3,381	15	0
Motor-vehicles—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maintenance of	155	10	3	125	0	8	514	9	8	446	14	10	..	..	..	2,647	12	5
Purchase of	626	15	3	492	6	0	..	..	..	1,454	8	9	..	..	..	3,727	9	8
Nursing staff uniforms	381	19	11	261	17	11	426	18	0	467	13	10	..	..	..	2,848	19	1
Office equipment	12	2	11	2	10	8	157	4	2	4	15	9	11	8	8	367	8	7
Patients, expenses connected with—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Comforts	920	15	10	711	3	11	1,562	19	2	1,387	13	6	..	..	..	14,074	12	7
Friends	..	..	..	..	..	..	..	..	..	50	0	0	..	..	..	50	0	0
Gratuities	248	17	5	2	4	0	..	..	..	21	17	8	..	..	..	339	17	7
Recreation	885	16	0	533	3	3	1,508	14	2	1,436	13	5	..	..	..	9,942	9	11
Transfer	93	8	5	15	4	3	114	3	6	17	12	10	..	..	..	349	15	0
Payment of monetary equivalent of leave due to deceased officers	..	..	..	..	..	..	..	..	..	2	14	1	..	..	..	2	14	1
Postages, telegrams, &c.	84	10	2	47	4	0	143	5	6	237	18	10	118	15	7	1,503	3	9
Printing and stationery	299	1	1	182	7	9	344	13	8	318	17	5	229	0	5	2,786	12	10
Rations	18,600	4	9	11,407	17	4	24,061	0	7	23,280	19	1	..	..	..	173,639	18	7
Rents and rates	11	6	11	..	..	..	520	15	0	4	0	0	353	2	11	889	4	10
Staff training: expenses incidental thereto	83	9	10	173	13	3	..	..	..	..	..	..	6	1	3	704	5	9
Stores	140	9	4	1,118	2	0	2,245	15	10	2,449	19	1	..	..	..	17,989	8	1
Surgery and dispensary	1,138	19	7	559	4	10	1,255	18	5	1,169	18	5	20	1	4	10,943	17	8
Telephone services	..	..	..	196	8	2	164	8	4	260	18	7	53	1	1	1,877	12	4
Transfer and removal expenses	282	12	6	139	13	2	140	6	9	..	..	..	165	18	0	1,557	19	8
Travelling-allowances	87	16	5	48	16	9	216	13	6	400	16	1	375	11	10	1,473	16	5
Travelling-expenses	84	6	4	51	5	1	66	10	7	817	8	2	626	1	9	2,749	16	3
Treatment in general hospitals—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patients	..	..	..	..	..	..	..	..	..	6	15	0	..	..	..	168	14	6
Staff	..	..	..	..	..	..	..	..	..	2	10	0	..	..	..	22	13	6
Contingencies and miscellaneous	98	8	3	23	15	7	170	11	5	369	6	3	258	6	8	1,605	1	6
Totals	125,987	2	3	78,049	3	0	188,177	12	0	174,286	8	0	15,885	9	0	1,243,332	1	4

TABLE XI.A.—CREDITS FOR THE FINANCIAL YEAR 1947-48

	Avondale, Auckland.	Kingseat, Papakura.	Raventhorpe, Papakura.	Tokanui, Te Awamutu.	Levin Farm, Levin.	Porirua.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Receipts from maintenance*	985 1 6	724 8 0	..	898 2 11	..	1,344 0 0
Receipts from farms ..	1,396 12 3	2,100 10 0	..	3,735 12 6	..	1,652 14 0
Miscellaneous ..	9,239 19 8	5,141 19 5	1,445 15 9	6,680 11 7	911 15 3	10,594 17 6
Totals ..	11,621 13 5	7,966 17 5	1,445 15 9	11,314 7 0	911 15 3	13,591 11 6
	Nelson.	Seaview, Hokitika.	Sunnyside, Christchurch.	Seacliff.	Head Office, Wellington.	Total.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Receipts from maintenance*	332 5 1	1,245 8 6	1,507 6 10	1,921 2 4	..	8,957 15 2
Receipts from farms ..	1,995 14 11	1,076 1 5	5,805 17 9	5,461 13 1	..	23,224 15 11
Miscellaneous ..	7,059 17 8	4,182 15 7	10,159 4 8	9,553 2 9	202 6 0	65,172 5 10
Totals ..	9,387 17 8	6,504 5 6	17,472 9 3	16,935 18 2	202 6 0	97,354 16 11

* Outstanding accounts as at 31st March, 1939.

TABLE XII.—AVERAGE COST OF EACH PATIENT PER ANNUM

Mental Hospital.	Average Number resident (inclusive of Boarders).	Salaries.	Bedding and Clothing.	Buildings and Repairs.	Farm.	Fuel, Light, Water, and Cleaning.	Provisions.
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Avondale, Auckland	1,314	70 15 4	8 15 0	1 14 0	1 12 3	7 15 3	21 0 8
Kingseat, Papakura	849	56 7 2	12 11 3	1 12 1	2 9 5	6 12 11	19 10 6
Raventhorpe, Papakura	230	50 13 4	13 9 7	1 0 4	0 6 1	7 1 11	30 7 11
Tokanui, Te Awamutu	799	62 1 3	6 3 4	2 5 8	8 0 0	7 6 6	13 6 6
Levin Farm, Levin	138	73 13 0	32 6 3	1 15 3	1 19 5	11 16 5	27 10 4
Porirua	1,255	76 7 5	18 2 0	0 7 11	3 5 4	9 1 9	24 8 4
Nelson	979	65 13 8	10 1 11	0 12 2	2 2 4	7 12 1	19 0 0
Seaview, Hokitika	515	82 4 5	17 8 10	0 18 4	2 9 1	6 13 3	22 3 0
Sunnyside, Christchurch	1,357	82 6 3	7 10 8	1 15 0	2 2 10	9 9 8	17 14 7
Seacliff	987	92 1 2	11 16 9	0 19 8	3 14 8	9 17 9	23 11 9
Head Office, Wellington	8,423	1 10 8	..	..	..	0 0 4	..
Total average cost	8,423	74 16 5	11 13 0	1 5 8	2 19 4	8 6 2	20 12 4

—	Surgery and Dispensary.	Miscel- laneous.	Total Cost per Patient (a).	Repay- ments (b).	Net Cost per Patient (b).	Net Cost previous Year.	Decrease in 1947-48.	Increase in 1947-48.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Avondale, Auckland	1 7 10	24 6 0	137 6 4	8 1 11	129 4 5	110 1 7	..	19 2 10
Kingseat, Papakura	1 5 9	31 1 3	131 10 4	8 10 7	122 19 9	91 7 1	..	31 12 8
Raventhorpe, Papakura	1 12 11	27 17 0	132 9 1	6 5 9	126 3 4	90 4 1	..	35 19 3
Tokanui, Te Awamutu	1 3 10	24 16 9	125 3 10	13 0 9	112 3 1	98 19 1	..	13 4 0
Levin Farm, Levin	0 18 5	45 6 6	195 5 7	6 12 2	188 13 5	163 8 8	..	25 4 9
Porirua	1 18 6	34 17 11	168 9 2	9 15 2	158 14 0	141 11 0	..	17 3 0
Nelson	1 3 3	22 8 5	128 13 10	9 5 0	119 8 10	106 18 5	..	12 10 5
Seaview, Hokitika	1 1 9	18 12 4	151 11 0	10 4 3	141 6 9	119 10 8	..	21 16 1
Sunnyside, Christchurch	0 18 6	16 15 11	138 13 5	11 15 4	126 18 1	116 3 11	..	10 14 2
Seacliff	1 3 8	33 6 3	176 11 8	15 4 3	161 7 5	138 13 8	..	22 13 9
Head Office, Wellington	0 0 1	0 6 8	1 17 9	0 0 6	1 17 3	2 0 6	0 3 3	..
Total average cost	1 6 0	26 13 4	147 12 3	10 9 11	137 2 4	118 1 5	..	19 0 11

NOTES.—(a) Cost does not include interest and depreciation on land, buildings, &c. (b) Receipts from maintenance shown in Table XI.A not included.

TABLE XIII.—EXPENDITURE OF PUBLIC WORKS FUND ON MENTAL HOSPITALS BUILDINGS, ETC., DURING THE FINANCIAL YEAR ENDED 31ST MARCH, 1948

Mental Hospitals.					Net Expenditure for Year ended 31st March, 1948.
					£
Avondale, Auckland	..	..	..	..	10,938
Sunnyside, Christchurch	..	..	..	..	4,369
Seaview, Hokitika	..	..	..	..	509
Nelson and Stoke	..	..	..	..	1,518
Porirua	..	..	..	..	58,335
Kingseat	..	..	..	..	8,936
Seacliff	..	..	..	..	25,752
Tokanui	..	..	..	..	8,065
Marton	..	..	..	..	56,007
Levin	..	..	..	..	10,234
Raventhorpe	..	..	..	..	10,925
					195,588

TABLE XIV.—TOTAL EXPENDITURE OF PUBLIC WORKS FUND FOR BUILDING AND EQUIPMENT AT EACH MENTAL HOSPITAL FROM 1ST JULY, 1877, TO 31ST MARCH, 1948

Mental Hospitals.	1877-1938.	1938-39.	1939-40.	1940-41.	1941-42.	1942-43.
	£	£	£	£	£	£
Avondale, Auckland ..	240,622	907	7,118	2,659	885	327
Sunnyside, Christchurch ..	383,680	6,784	17,252	13,326	6,815	1,885
The Camp, Dunedin ..	4,891	..	..	..	..	..
Seaview, Hokitika ..	102,164	1,140	26,793	10,233	23,944	3,842
Hornby ..	11,102	..	..	..	..	..
Motuihi Island ..	561	..	..	..	..	..
Napier ..	147	..	..	..	..	..
Nelson and Stoke ..	207,881	15,458	39,469	34,119	11,957	1,010
Kingsseat, Puhitahi ..	247,372	71,149	62,896	45,095	25,052	3,569
Seacliff ..	315,676	2,527	1,082	707	1,855	1,301
Tokanni ..	261,337	6,903	9,922	13,662	2,128	112
Waitati ..	32,321	..	..	..	..	..
Wellington ..	29,641	..	..	..	..	..
Porirua, Wellington ..	373,541	23,948	10,894	6,843	7,191	3,485
Marton ..	..	..	..	..	..	..
Levin ..	..	..	..	..	..	..
Raventhorpe ..	..	..	..	..	..	..
Totals ..	2,210,936	128,816	175,426	126,644	79,827	15,531

Mental Hospitals.	1943-44.	1944-45.	1945-46.	1946-47.	1947-48.	Total Net Expenditure 1st July, 1877, to 31st March, 1948.
	£	£	£	£	£	£
Avondale, Auckland ..	1,983	2,504	7,307	10,972	10,938	286,222
Sunnyside, Christchurch ..	2,210	766	701	2,683	4,369	440,471
The Camp, Dunedin ..	..	..	..	..	..	4,891
Seaview, Hokitika ..	125	180	43	1,250	509	170,223
Hornby ..	..	..	..	..	..	11,102
Motuihi Island ..	..	..	..	..	..	561
Napier ..	..	..	..	..	..	147
Nelson and Stoke ..	4	37	1	5,840	1,518	317,294
Kingsseat, Puhitahi ..	637	424	1,487	3,985	8,936	470,602
Seacliff ..	..	6,526	24,918	16,155	25,752	396,499
Tokanni ..	1	1	1	..	8,065	302,132
Waitati ..	..	..	..	..	..	32,321
Wellington ..	..	..	..	..	..	29,641
Porirua, Wellington ..	83,253	20,623	45,866	67,503	58,335	701,482
Marton ..	519	6,680	44,696	48,276	56,007	156,178
Levin ..	..	..	83,967	239	10,234	94,440
Raventhorpe	107,567	10,925	118,492
Totals ..	88,732	37,741	208,987	264,470	195,588	3,532,698

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