

1940.
NEW ZEALAND.

MENTAL HOSPITALS OF THE DOMINION.

(REPORT ON) FOR 1939.

Presented to both Houses of the General Assembly pursuant to Section 78 of the Mental Defectives Act, 1911.

The DIRECTOR-GENERAL to the Hon. H. T. ARMSTRONG, Minister in Charge of the Department of Mental Hospitals.

SIR,—

Wellington, 1st June, 1940.

I have the honour to present my annual report upon the work of the Department of Mental Hospitals for the year ending 31st December, 1939.

STATISTICAL.

There were 8,310 names of persons upon our registers at the end of the year, including 43 patients and boarders at Ashburn Hall licensed private institution and 578 patients and boarders who were absent on probation in the care of relatives or friends.

In actual residence in our eight State hospitals on 31st December there were 7,689 persons—an increase of 217 compared with the previous year—and of this number 7,360 were subject to a reception order, whilst 329 were voluntary boarders. There was an increase of 78 in the number of those admitted for the first time, and 340 ex-patients and boarders returned for further treatment.

Of all classes of admissions we were able to discharge 872, or 55.65 per cent. calculated upon the number admitted, but not more than 463, or 29.55 per cent., were fully recovered at the time of discharge. This figure falls considerably short of the true recovery rate, as patients who go on probation and do not send a medical certificate or report to the institution require to be discharged as “unrecovered.”

As pointed out in previous reports, it is necessary when considering the recovery rate to differentiate between the congenitally mentally defective cases and cases of acquired mental breakdown, and for this purpose these classes are divided in the following tables:—

(1) Mental Disorders.

	Male.	Female.	Total.	Male.	Female.	Total.
In mental hospitals, 1st January, 1939	..	..	..	3,225	2,844	6,069
Admitted for first time	535	508	1,043	..	..	..
Readmitted	139	165	304	674	673	1,347
Total under care during year	..	..	..	3,899	3,517	7,416
Discharged—						
Recovered	216	235	451	..	..	..
Not recovered	180	176	356	..	..	..
Died	237	196	433	633	607	1,240
Remaining in mental hospitals 31st December, 1939	..	..	..	3,266	2,910	6,176

(2) Mentally Deficient.

	Male.	Female.	Total.	Male.	Female.	Total.
In mental hospitals, 1st January, 1939	..	..	..	1,254	826	2,080
Admitted for first time	107	77	184	..	..	..
Readmitted	16	20	36	123	97	220
Total under care during year	..	..	..	1,377	923	2,300
Discharged	62	46	108	..	..	..
Died	30	28	58	92	74	166
Remaining in mental hospitals 31st December, 1939	..	..	..	1,285	849	2,134

Table No. 1, which includes voluntary boarders as well as committed patients, discloses that 807, or 77·4 per cent., calculated upon the number admitted for the first time, were discharged during the year, and of that number 451, or 43·2 per cent., had recovered.

In the same class, the ratio to population of the admissions, including Maoris, was 8·27 (males 8·15, females 8·39) per 10,000 mean population, and of first admissions 6·40 (males 6·47, females 6·34), so that 1,219 persons in the general population contributed one patient, and 1,574 contributed a patient admitted for the first time.

The congenitally defective, whose movements are shown in Table No. 2, do not recover, but 108 were able to be discharged to the care of friends and a number are capable of remunerative employment.

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	26
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	49	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

ALTERATIONS, ADDITIONS, AND IMPROVEMENTS.

Capital expenditure incurred upon new buildings, additions, and improvements during the year amounted to £175,426, and the following summary shows the major items making up the total :—

Auckland (£7,118).

- Additions have been made to the Nurses' Home.
- A store-room for occupational therapy work has been erected.
- A new hairdressing-saloon has been built.
- Improved bathing-facilities have been provided in F. 7 Ward.

Kingseat (£62,896).

- The Nurses' Home will be completed at an early date.
- The workshops block and departmental garages have been completed.
- Six villas have been renovated and painted during the year.
- Necessary roading, water-supply, and telephone services have been extended.
- Two male villas have been completed.

Tokamui (£9,922).

- The new villa for male patients will be completed at an early date.
- A new slaughterhouse and yards have been erected.
- Additional separate kitchens have been provided.
- The general roading has been improved during the year.

Porirua (£10,894).

- The new bakehouse and butcher's shop are now in occupation.
- Most of the equipment for the new boilerhouse and workshops block has been installed.
- A start has been made with an improved sewerage system.

Nelson and Ngawhata (£39,463).

- A new fire-service main has been installed at Nelson.
- The Nurses' Home is now in occupation.
- Three new male villas are nearing completion.
- A water-softening plant has been installed.
- Extensive roading-work has been carried out.

Hokitika (£26,793).

Two new villas have been completed and are now in occupation.
Alterations have been carried out in several wards.

Christchurch (£11,684).

A new workshops block has been erected.
Alterations in the kitchen block are now complete.
New garages have been erected.

Templeton Farm Colony (£5,568).

The new laundry is now in operation.
The general roading has been improved during the year.

Seacliff (£1,082).

Fire-alarm system and fire services have been improved.
The old boiler-house has been converted into an occupational centre and hairdresser's saloon.
At Waitati a new kitchen was built in F. 2 Ward.

Programme for Current Year.

No doubt our programme of improvements to existing buildings will require to be modified in view of war conditions, but the following are proposed :—

Auckland.—An occupational block for patients at M. 3 Ward.

It is hoped to commence the erection of a new boiler-house at another and more suitable site.

Kingscliff. Tenders are about to be let for the erection of seventeen cottages for married staff. An excellent site for the proposed settlement has been secured by the Department.

Tokanui. It is hoped to begin the erection of the new services block during the year. The present blocks are not well situated and are not large enough for the present needs of Tokanui.

Porirua.—Unavoidable delay in procuring machinery from abroad has held up the operation of the new service blocks, but they will be occupied by the end of the year.

The whole sewerage system is being overhauled and modernized.

It is intended to recondition the byres, which are almost fifty years old, and to install milking-machines. It is almost impossible to get sufficient suitable labour to hand-milk nowadays.

Nelson.—The old mental-hospital buildings in Nelson have almost come to the end of their possible usefulness, and a complete scheme of rebuilding is necessary. It is hoped to start this year.

Hokitika.—There is an urgent need for a new butcher's shop and bakehouse, and we should be able to commence this work before the end of the year.

Christchurch.—It is hoped to install some new equipment in the laundry and to erect an implement-shed at Templeton.

Seacliff.—The unstable ground has affected the cottage and some of the wards on the female side, and these will require extensive repairs to make them safe.

OCCUPATIONAL THERAPY.

For some years past, classes in handicrafts have been carried on at our hospitals, partly by voluntary workers and partly by experts who have received a small honorarium.

This work is now past the experimental stage, and has grown to such dimensions that it requires co-ordinated direction under professional trained Occupational Instructors.

Dr. Buchanan directed special attention to this matter on his recent visit to Great Britain, and on his representations Miss Inman, a graduate of Dr. Casson's School for Occupational Therapy, was appointed as Chief Occupational Instructor. It is intended that Miss Inman's duties will cover the whole of our hospitals, but in the meantime she is engaged at Auckland, where the greatest progress has been evident. In addition to the actual supervision of patients at work in the wards, an important part of the therapist's duty is to give lectures and practical training to the staff. The work carried on at the various hospitals may be summarized as follows :—

Auckland. The old Mount Albert Borough Council pumping-station has been reconditioned for use as a centre for male patients. A lathe and some other machinery has been installed, and the work done is of a very high order. The therapeutic results have been most encouraging. It is proposed to erect another centre for males of a difficult class near Male 3, and I feel sure that the small expenditure involved will be well justified.

The Auckland Hospital Auxiliary have done great service on the female side, and the large number of women patients who show great interest in the work is a testimony to the efficiency of the Instructor.

Kingscliff. Miss Waugh, working under the auspices of the Auckland Hospital Auxiliary, conducts a weekly handicraft class, which occupies 120 women patients. As Dr. Hunter says in his report, "Many of these were previously onlookers but are now active workers, with a corresponding improvement in their attitude towards life and their surroundings."

A gardening class has been started.

On the male side, the Rev. Jasper Calder carries on a handicrafts class with his well-known enthusiasm and has also had very good results.

Tokanui. An occupational class for women has been started, and 80 per cent. of the men are engaged in some kind of work.

A special feature at Tokanui has been the physical-development class for schizophrenics.

Porirua.—Four nurses were seconded for special instruction at the training college, and the Principal and Miss Hanham deserve our thanks for making this possible.

Regular classes are held in many handicrafts, and specialized instruction is directed towards the chronic patients, whose activities require guiding from destructive to constructive occupation.

The old workshops are being converted at very little cost into an occupational centre.

Hokitika.—The work here is carried on by some of the nurses, and the products which I have seen reflect great credit on them.

Christchurch.—Under Miss Bowron a considerable number of patients are usefully occupied and the results are most gratifying. The classes are centred in the new occupational block, and arrangements have been made to double the time given to instruction.

Seacliff.—Miss Miller continues to do good work as Instructress, and the Dunedin Branch of the Women's National Council carries on useful work in the wards. A full-time therapist is required here.

The institution of occupational therapy has been an unqualified success, and the results so far achieved and to be expected are such as to justify a much increased expenditure upon equipment and additional Instructors.

STAFF.

During the year we have had the utmost difficulty in getting sufficient nurses to maintain our staff at full establishment. The position in this regard has been so difficult that we have been unable to transfer patients to occupy newly erected villas.

Conditions of service are exceedingly good. Hours have been shortened to under forty-two per week, leave is liberal, and pay compares favourably with other occupations open to young women. It is small comfort to us to know that a precisely similar state of affairs exists in mental hospitals in Great Britain, where conditions of service have also been improved in late years. Advertising in the press and by radio has resulted in a certain number of fresh applications, but the position of our permanent establishment does not improve to any great extent. We have engaged the wives of men who have gone on active service, and taken other measures, without any material alteration in the position, and it may become necessary to look farther afield, possibly to Canada, where I understand there is some likelihood of obtaining recruits for the service.

T. G. GRAY, Director-General.

AUCKLAND MENTAL HOSPITAL.

DR. BUCHANAN reports:—

The total number of cases under care during the year was 1,826, with a weekly average of 1,311. The total admissions numbered 403—under certification 142 males, 150 females; by transfer 11 males, 3 females; on remand 6 males, 5 females; and as voluntary boarders 50 males and 36 females.

During the year 162 patients (71 males, 91 females) and 66 voluntary boarders (44 males, 22 females) were discharged. Transfers to other hospitals numbered 50 (29 males, 21 females). Deaths totalled 90.

At the end of the year 196 patients were on probation, 52 on full parole, and 179 on limited parole.

I append figures relative to the Psychiatric Clinic held at the Auckland Public Hospital by Drs. Hunter, Macky, and myself:—

		Tuesdays.	Thursdays (Dr. Hunter).	Total.
(1) Number of separate persons seen	..	M. 206 F. 23	144 5	350 28
		229	149	378
(2) Number of				
(a) First visits	..	.. 172	149	331
(b) Subsequent consultations	..	.. 615	374	989
		787	523	1,310
(3) Sources of reference—				
Pensions Department	..	.. 151	121	272
Prisons Department	..	.. 18	..	18
Police Department	..	.. 8	..	8
Medical practitioners	..	.. 20	12	32
Voluntary calls	..	.. 16	2	18
Public hospital	..	.. 7	12	19
Social Welfare League	..	.. 1	..	1
Porirua Mental Hospital	..	.. 1	..	1
Christchurch Mental Hospital	..	.. 1	..	1
Mental Hospitals Department, Wellington	..	.. 1	..	1
Department of Labour	..	.. 1	..	1
Valuation Department	..	.. 1	..	1
Evelyn Firth Home	..	.. 2	..	2
Officer Commanding, Northern Military Com- mand	..	.. 1	2	3
		229	149	378

The Inebriates' Home at Roto Roa Island was visited regularly by both Dr. Macky and myself. The health of the patients has generally been good.

Much work has been done during the year in the development of the occupational work on both sides of the hospital.

The buildings connected with the old pumping-station have been repaired and made into work-rooms for the men. A lathe, circular saw and drill, jig saw, and planer have been installed in one room, and they are in constant use. At the end of the year the average number of male patients occupied in the manufacture of furniture, toys, &c., was 38.

The classes for the women are held in the dayrooms of Wards F. 5, F. 8, and F. 9. The average number employed at the end of the year was 120.

It must be understood that no patient is taken away from essential or routine work to fill up the classes; in fact, it is otherwise—*i.e.*, patients who show improvement and are capable of undertaking increased responsibility are taken from the classes and used to help in the running of the institution.

The work is progressing encouragingly, but there is still much to do to fully develop the scheme to the extent whereby nearly all patients will be usefully employed.

I look forward to the arrival from England of Miss Inman, who has been specially trained in this work, and who will act as Instructress to both the members of the staff and the patients.

An administrative office and lecture-room have been built under M. 5 Ward for the use of the Instructress.

The main office, being too small and congested for present needs, necessitated a change over of offices. The rooms previously occupied by the Assistant Medical Officers and Head Attendant and part of a male dormitory were altered so as to render them suitable as administrative offices. The Assistant Medical Officers are now utilizing the former clerical offices.

The annual bazaar, which was opened by yourself, was a success both financially and as a day of entertainment to the patients. The sum of £195 (approximately) was realized. I wish to extend my grateful thanks to the many firms and individuals who made donations to our bazaar.

It was with deep regret that we learned of the death of Mrs. A. E. Armitage, who was associated with this hospital as an Official Visitor for twenty-three years. She is much missed by both the patients and the staff.

Mrs. Teape was appointed in her place. She had already done much work for us as a member of the Auckland Hospital Auxiliary.

Many members of our staff have been called upon for duty overseas. I wish them all good luck and a quick return.

KINGSEAT MENTAL HOSPITAL.

DR. HUNTER reports:—

The total number of patients under care during the year was 626 (322 males and 304 females), with a weekly average of 580. Patients admitted for the first time numbered 5 (3 males and 2 females). Patients admitted by transfer numbered 46 (28 males and 18 females). Transfers to other hospitals numbered 8 (5 males and 3 females). There were 4 patients discharged (2 males and 2 females) and there were 13 deaths (11 males and 2 females).

The total number of voluntary boarders under care during the year was 10 (7 males and 3 females), with a weekly average of 5. Boarders admitted for the first time numbered 5 (males). One voluntary boarder (male) was discharged, and there were no deaths.

The general health of both patients and staff has been excellent.

This year has been one of continuous activity. Two new villas each to house fifty male patients have been completed and equipped. Tenders for the erection of a Nurses' Home have been called, and the building commenced in April. This building was to have been completed fifteen months from commencement, but owing to Defence work construction was stopped for about six weeks, so that the date of completion will be extended.

The adequate storage of our water-supply has been somewhat of a problem in the past, but the building of a 300,000 gallon storage reservoir at present in the course of construction should give us a good supply for fire-fighting should it ever be required.

The service block, consisting of a laundry, butchery, bakery, and artisans' workshops, has been completed and equipped. These units have been in use since July of this year. The laundry has been very much appreciated by all members of the hospital, especially when one looks back to the old laundry, which had very few facilities for the work it was required to undertake.

The admission and treatment centre has been completed and equipped. Since August direct admissions have been taken, and both relatives and patients have remarked on the cheery outlook, the feeling of freedom, and the lack of visible restraint which they feel. This must react favourably upon their mental outlook and help considerably in the treatment of our nervous and mentally ill.

Following the practice of renovating a certain number of villas each year, the renovation of Villas 1, 2, 3, and 4 has been completed, and the use of pastel shades in the painting of the sitting-rooms and dormitories has a pleasing effect and makes the rooms seem warmer and more homelike.

The increasing number of patients and staff has created a difficulty, in that there is no suitable place of entertainment at the hospital. Concerts, church services, and dances necessitate the using of three rooms in a villa and the transportation of seating-accommodation. The only satisfactory solution appears to be the provision of a recreation-hall, preferably with cinema facilities.

The opening of the new villas and the admission centre coincided with the outbreak of the present war, and this has created a shortage of staff, both male and female, with the result that we have been unable to open the new villas. Of the thirty-four male attendant staff, eight have enlisted, and three of these are at present on active service overseas.

The patients on the whole are happy and contented, and appreciative of their parole privileges, which have been extended to all patients as consistent with their mental conditions and the public safety. They are fully occupied in constructional work on the farm and in the grounds, in the gardens, laundry, and in the sewing room.

Mr. McFarlane, Public Works Department, has taken his usual active interest in the progress of the hospital, and for his many useful and practical suggestions I am very thankful.

A weekly clinic is conducted at the Auckland Public Hospital. One hundred and forty-nine new cases were seen, whilst there were 523 attendances. New cases were referred by the Pensions Department, 121; medical practitioners, 12; hospital, 12; military authorities, 2; spontaneous, 2.

I would like to welcome Dr. and Mrs. I. R. Gray to Kingsseat. Dr. Gray has been appointed Assistant Medical Officer.

During the year, Mr. Tibble, our Chief Clerk, was transferred to Tokanui Mental Hospital, and his place was taken by Mr. M. S. Moss, of Head Office. I would like to congratulate them both on their promotion.

TOKANUI MENTAL HOSPITAL.

Dr. TOTBILL reports:—

The total number of cases under care during the year was 795, which includes 37 voluntary boarders.

Admissions numbered 121, of whom 6 were transfers from other institutions and 19 voluntary boarders.

The discharges were 38 patients under certificate, 14 voluntary boarders, and 9 transferred.

There were 37 deaths, heart-disease being the predominant cause.

At the end of the year 691 patients, including 44 on probation and 17 voluntary boarders, remained on the register.

Cardiazol treatment has been given to a number of patients. Approximately 80 per cent. of the male patients are engaged in some form of occupation. An occupational therapy class has been commenced for the women.

During the year considerable improvements have been carried out in the various buildings.

Several wards are at present doing their own cooking, and during this year all but two wards will have an independent kitchen service. The officers' quarters are now in occupation, and the glasshouse has been completed. The new slaughterhouse would have been in use but for the delay in obtaining steel meat-rails. Tar-sealing of the front drive is in progress. It is hoped that work will soon be commenced on the new laundry block, as the increase in patients makes this most imperative.

A farm workers' villa is in the course of construction.

Developmental work continues on the farm, and the dairy herd was tuberculin tested.

The usual sports and entertainments were provided.

PORIRUA MENTAL HOSPITAL.

Dr. LEWIS reports:—

The total number of cases under care during the year was 1,999; of these, 1,771 were the subjects of a reception order; 218 were voluntary boarders, and 10 were remanded for observation. The admissions totalled 443 during the year, of whom 336 were certified patients and 107 were voluntary boarders; in addition, 9 were admitted on remand. We discharged 202 patients during the year, and 78 were well enough mentally to be on probation in the care of relatives or friends at the end of the year. There were 130 deaths during the year, and 22 were transferred to other institutions.

The usual psychiatric work has been carried on outside the hospital, regular bi-weekly visits being made to the Wellington General Hospital, where the out-patients' clinic and the male and female psychiatric wards have continued to provide a useful service. The Palmerston North General Hospital has been visited each month, and some cases have been seen in some Government institutions. The number of separate cases seen in the course of this work was 212 in-patients at Wellington Hospital, 99 out-patients at Wellington Hospital, 66 patients at Palmerston North Hospital, and 10 other cases. Total cases seen outside this hospital, 387.

During the year the new carpenter's, painters', and bootmaker's shops in the new boiler-house block were occupied. The installation of the boilers has been completed, but unfortunately there has been difficulty in getting the copper piping required to connect up our new boilers with the existing hospital reticulation. We have not been able to occupy the new baker's and butcher's shop block as there are still minor details to be completed; however, there is every prospect of these buildings being occupied early in the New Year. The old carpenter's shop will make a satisfactory occupational block, and we hope to have some simple alterations completed at an early date.

More active steps have been taken with the new sewerage scheme, and the completion of this very necessary work is in sight.

Convulsive therapy (Cardiazol) was commenced during the year. The results from the small number of cases already treated are very promising, and we feel that this special form of treatment is going to have a definite place in the active treatment of a certain type of case. Up to the present we have confined its use to a particular form of schizophrenia (the catatonic). However, we may find it to be useful in certain other cases of an inactive type. This treatment is not so elaborate as the insulin treatment; the time taken on each day of treatment is quite short. It is not without some risk, but this can be reduced to a minimum with proper safeguards. In this respect I should like to thank Dr. Bradbury, of the staff of Wellington Hospital, for his help in making a physical investigation of each case before treatment is commenced.

Occupational therapy can be a very active and effective form of treatment both by itself and as an adjunct to other forms of treatment. With a view to improving further the scope and variety of our occupational work, four nurses paid weekly visits to the Wellington Training College for special instruction in this type of work.

Regular classes have been held during the year for weaving, spinning, basketry, and various handicrafts. A number of our chronic patients work happily at the routine occupations of the hospital, but the specialized work is for recent cases and for those chronic patients who either do little or whose activities require guiding from a somewhat destructive nature to a constructive one. A variety of attractive occupations and an occupational centre away from the patients' wards are both essential in getting the best results with the more difficult cases.

The other forms of recognized therapy have been carried on, and with the increase in medical staff individual treatment for cases has been more easily carried out.

A certain number of the male nursing staff has enlisted for service both overseas and for the home defence. Their places are being filled by temporary staff.

The strength of the female nursing staff has been much nearer our establishment figure than was the case last year, and since early in the year it has not been necessary for the nursing staff to work overtime.

At the beginning of the year four new junior Assistant Medical Officers joined the staff — Drs. Medicott, Calvert, Daly, and Houghton. This has relieved the shortage which existed last year and given us the opportunity to build up a medical team of reasonable size.

The work on the flower, orchard, and vegetable gardens has continued satisfactorily; considerable attention has been paid to the vegetable garden in recent years, and the production this year has shown an increase on last year's figures.

I regret to have to record the death, after a long illness, of Miss Duncan, an Assistant Matron of this hospital. She was an excellent nurse and an efficient administrator. Her passing was a distinct loss to the hospital.

NELSON MENTAL HOSPITAL.

DR. WILLIAMS reports:—

The total number of patients under care during this period was 903, of whom 880 were held under a reception order, while 22 were voluntary boarders and 1 was on remand for observation.

There were 83 admissions, 10 of these being voluntary boarders and 13 being admitted under section 8 of the Amendment Act. Twenty-two, including 7 voluntary boarders, were discharged during the year, and 7 were transferred to other mental hospitals. Forty-four died, 28 being males and 16 females. Disorders due to advancing years formed a large proportion of the causes of death.

Many of the buildings at Nelson are in a state of great age and extreme disrepair and not now suitable as mental-hospital wards. Rebuilding is urgently necessary, then, either at Nelson or elsewhere, and it should be done on a scale sufficient to include those defectives at present resident at Ngawhatu, as it is hardly desirable to retain so many defectives in what is primarily a hospital for the psychotic. It seems to me that the situation in Nelson for such an institution for the mentally defective is quite a good one, and the site, too, is adequate. Also, we have built up a staff capable of and accustomed to nursing this class of patient, and some of them are very good indeed.

The health of the patients has been reasonably good.

A fairly extensive building programme has been carried on during the year, the principal items being the construction of three new male villas and of a Nurses' Home. The completion of the latter has been delayed because of difficulties attendant on the war. Extensive and damaging floods towards the end of the year aggravated this state of affairs, but it is hoped to occupy the Nurses' Home early in the New Year.

Much maintenance, repair, and painting work has been done at Nelson and at Ngawhatu, and many works and improvements of a minor nature have been carried out.

Some attempt has been made to institute occupational therapy classes for those not otherwise employable, and some success has been achieved. It has been difficult to secure suitable Instructors, although these members of the staff who have been doing this work have done very well. Obviously the acquisition of a full-time qualified officer would be a step well justified. We have at the moment no suitable centre for classes, but I hope that this will be remedied in some degree, if perhaps only temporarily, when the old Nurses' Home becomes vacated for the new.

The telephone system, although it has been improved slightly, is still extremely unsatisfactory, and its working depends on the presence in the vicinity of the central exchange of the Head Attendant or some officer who might more profitably be employed elsewhere.

HOKITIKA MENTAL HOSPITAL.

DR. CHILDS reports :

At the commencement of the year the patients on the register numbered 452. The admissions proper were 23, while 54 males and 60 females were received on transfer.

The discharges numbered 12, transfers to other institutions 24, and deaths 21.

The total number under treatment was 589, and the number remaining on the register at the end of the year 532.

There were 8 voluntary boarders on the register at the beginning of the year, 8 were admitted during the year, and 10 discharged.

The general health of the patients has been very satisfactory. Cardiazol treatment was carried out on a small number of patients, but as the majority had been in hospital for a considerable period the results, although in most cases beneficial, were on the whole somewhat disappointing.

Two modern villas, one male and one female, were erected and occupied during the year, the patients admitted being transfers from Seachiff. This has allowed of better classification, and in consequence more individual freedom, and already some benefit may be seen.

A small nursery glasshouse in conjunction with a new flower-garden was completed during the year in order to increase the supply of flowers for the wards, while a number of trees and shrubs have been planted around the estate.

The usual routine of farming, draining, and gardening has been carried out, 7 acres of land being drained, cleared, and left fallow, while 7 acres left fallow last year were sown in grass. In addition, the farm gangs have been busy making roads to and around the new villas.

The gardening gang has taken in extra ground.

The painting gang has been fully occupied during the year, and the usual maintenance work carried out. This is steadily increasing as the institution grows in size.

A monthly clinic has been held at Greymouth. Westland Hospital has been visited when required, while it is noticed that the tendency is gradually increasing to come direct to the hospital for advice.

CHRISTCHURCH MENTAL HOSPITAL.

DR. McKILLOP reports :—

On the 1st January, 1939, there were 1,385 patients (778 males, 607 females) on the register. During the year 238 patients (119 males, 119 females) were admitted and 28 patients were transferred from other institutions. Discharges totalled 142 (68 males, 74 females), and there were 1,651 persons under care during the year.

In addition, 79 voluntary boarders (38 males, 41 females) were admitted. Twenty-eight male and 36 female voluntary boarders were discharged, 71 remaining for further treatment. In all, 141 voluntary boarders received treatment during 1939.

The total death-rate was very low : there were 73 deaths (32 males, 41 females), the chief cause of death being senile decay.

The results of the cardiazol treatment, carried out for the first time in this hospital, may be considered quite satisfactory. Eight cases received treatment. One appears to have made a complete recovery, while six have shown improvement varying from slight improvement to such a degree that the relatives consider that they are back to normal. One case showed no change. One case has been discharged as “recovered,” one as “relieved,” two are on probation, and the others remain here.

Since 1927 the Wassermann reaction has been done on the case of every person admitted since that date. Ninety-four males out of 1,352, and 12 females out of 1,100, gave a positive reaction. Figures for males only :—

Year.			Total Tested.	Negative.	Positive.	Year.			Total Tested.	Negative.	Positive.
1927	..	..	88	81	7	1934	..	..	115	109	3
1928	..	..	94	86	12	1935	..	..	110	105	5
1929	..	..	112	96	16	1936	..	..	83	78	5
1930	..	..	136	125	11	1937	..	..	96	95	1
1931	..	..	139	125	14	1938	..	..	94	91	3
1932	..	..	104	96	8	1939	..	..	91	88	3
1933	..	..	94	88	6						

The results are very interesting : the peak years 1928 to 1931, and the very low figures during the past few years, show the incidence of the disease in the war period and the efficacy of the treatment carried out in recent years of causal factor.

Many works of major importance have been completed. At Templeton most up-to-date laundry machinery has been installed and is now in operation. This has greatly relieved the congestion in the Sunnyside laundry.

The main drive has been tar-sealed, and we hope to have the roads at Jenkins Farm ready for sealing this year.

A new villa has been pegged out at Jenkins Farm. I consider that a new villa for girls should be built at Templeton.

At Sunnyside the renovations, installations of new ovens and boilers, have been completed.

The female receiving home has been completely painted and renovated, and similar work is now being carried out on the male side.

The reticulation of the new water-supply has been completed and we are now assured of a copious supply for all purposes.

The new workshops' block has been completed, and this has allowed the occupational therapy building to be used for the purpose for which it was intended. This affords employment for quite a number of patients, and many, previously unemployed, now take a keen interest in basketwork, fretwork, enamel-work, and simple handicrafts. A hairdressing-room has been added to the occupational block and will greatly benefit the female patients.

The farm and gardens have had a very successful year. We have been able to dispose of much surplus produce to other institutions and to outside firms. A large area at Templeton has been set aside for garden purposes, and this is at present providing a very heavy crop of vegetables. It is intended to increase the Sunnyside gardens similarly so that increased vegetable-supplies may be available.

The clinic at the Christchurch Hospital has been held weekly and the numbers attending have increased. Timaru has been visited monthly and many new patients have attended.

We have had a full medical staff, and the arrival of Drs. Heath and O'Reilly has greatly lightened the work of the medical staff.

SEACLIFF MENTAL HOSPITAL.

DR. BROWN reports:—

At the beginning of the year there were 1,116 patients on the register. During the year, 177 patients were admitted, 79 were discharged, and 102 were transferred to other hospitals, whilst 40 voluntary boarders were under care, of whom 38 still remain. There were 78 deaths.

At the end of the year there were resident 1,005 patients and 32 boarders. Fifty female patients and 44 male patients were transferred to Hokitika Mental Hospital towards the end of the year.

The engineering and artisan staffs have been fully occupied in making the necessary repairs and renovations. The combination of old buildings and the slipping ground make our maintenance work very heavy. At Seacliff a new brick dining-room for F. 1 Ward, replacing that destroyed by fire last year, has been completed and is in use. At Waitati the new kitchen in F. 1 Villa has been in use for some time and there has been, consequently, a marked improvement in the meals. That ward has been divided into two parts to provide separate dining and sitting room accommodation, and completely repainted and refurnished. The kitchen in F. 2 Villa is practically completed and will be in use very shortly. With its completion each ward on the female side at Waitati will have its own kitchen.

The farm has had a satisfactory year. The grounds have been well looked after by the gardener, and the gardens have furnished an abundance of fresh vegetables at all times of the year.

The completion of the hairdressing-room and the appointment of a hairdresser for the female patients has proved most valuable. Apart from the improvement in the appearance of the female patients as a whole, it is proving most valuable from the point of view of treatment.

The insulin treatment of cases of schizophrenia, started in the middle of last year, has been continued, and thirty cases have now been treated by this method. With a series of this number I am still hesitant to put our results in statistical form, but it may be said, roughly, that one-third of these cases has left hospital, one-third has shown what may be termed an "institutional improvement," and one-third has shown no response to the treatment. In no case where in the judgment of the medical staff the patient was considered to have a reasonable chance of recovery by the ordinary methods of treatment was the insulin treatment used, and, on the other hand, some cases were given the treatment when it was considered that they had little or no chance of improving under it. Under these circumstances it is very gratifying to be able to discharge one-third of the patients treated. Reports published from time to time from overseas have indicated a higher recovery rate than this, but one feels that these cases have been selected with regard to their suitability for insulin treatment. In our series of cases of less than eighteen months' duration, 71 per cent. showed a full remission and 86 per cent. were able to leave hospital. I repeat my dislike of expressing our results in figures at this stage, but I quote these to emphasize the need for early treatment. There is a tendency, a very natural one, for relatives to agree to insulin treatment only when everything else has failed. As to the permanency of the results it is too soon to give an opinion, but none of the patients whom we have discharged has returned to the hospital, and all those we are able to keep in touch with are doing well. The first of these patients to be discharged had been in a condition of stupor for five years; I have seen him from time to time since he left the hospital and there has been no obvious deterioration in his condition.

The cases which have been classified as institutional improvements are, of course, far from well, but have improved to a stage where they are more easily nursed, are able to look after their own needs, to employ themselves usefully, and to enjoy the recreations and entertainments of the hospital.

Another year's experience confirms the opinion I expressed in my last report that insulin therapy is a marked advance in the treatment of the schizophrenic patient. It has its dangers, but when the gloomy prognosis of most of these cases is considered I think that the risks are well worth while.

A few cases of schizophrenia have been treated with cardiazol, but I am not yet in a position to report on them.

I am greatly indebted to Professor D'Ath, of the Otago Medical School, for much help in the laboratory investigation of these cases, and to Dr. Thomson, Medical Superintendent of the Dunedin Public Hospital, and his staff for assistance in the radiological and cardiological examinations.

As formerly, I visited the psychiatric wards and held an out-patient clinic twice weekly in the Dunedin Public Hospital. I also held a monthly clinic in the Oamaru Public Hospital. Dr. Hay, my Deputy Superintendent, conducted a monthly clinic in the Invercargill Public Hospital. An increasing use of his services on his visits there has been made by the Borstal Institute in the examination of problem cases there.

Mr. G. B. Burroweough, the District Inspector, Mrs. R. E. S. Reeves and Mr. A. Steven, the Official Visitors, have visited us from time to time and have shown a keen interest in the patients.

Attendants E. Pichana, T. W. Olsen, and W. J. Shaw have been granted special leave and are shortly leaving with the Second Expeditionary Force. I wish them good health and a speedy return.

The advent of Dr. McLean and Dr. Milne relieved the burden of my other two medical officers. I would thank Dr. Hay, my deputy, for his valued assistance. Dr. McLachlan has been the medical officer in immediate charge of the insulin treatment, and a thesis on the insulin treatment of schizophrenia which he presented to the University of New Zealand for the M.D. degree has been accepted.

MENTAL NURSES.

In November the usual examination was held for the registration of mental nurses, when the following passed:—

Passed top for Dominion: Nurse K. G. Alexander (Porirua).

Auckland: Attendants—E. W. Bowie, C. H. Driver, S. Dubourdieu, G. Duncan, R. C. Hickey, R. H. Smith, G. H. Sullivan, D. H. Suttie, W. J. Williamson, H. A. L. Wright*. Nurses—J. M. Anderson, A. S. Brittain.

Papakura: Attendants—O. P. Amore*, H. R. Clifford, H. G. Eastwood, P. A. Hunter, H. H. Kindleysides, T. Parkinson. Nurses—W. E. S. Hargreaves, M. Bool, H. M. Dunning, A. S. S. Pulman.

Takapuna: Attendants—C. H. Allen, R. L. Brewer, W. A. George, R. Hood, D. M. McCabe, A. L. Mills, M. J. Phillips, S. E. Pratt. Nurses—A. M. Fry, G. H. Buss, M. K. McArthur, M. E. Thomas*, G. F. Oakden, L. P. D. Duncan, H. M. Duncan, M. M. Prince, E. D. McMahon*, M. J. Armstrong*.

Porirua: Attendants—T. H. Costley, R. B. Daly, C. J. Forrest, P. J. Grace, J. A. Ivey, S. R. G. Jones, V. J. Meates*, J. S. Wyrill. Nurses—K. G. Alexander*, I. A. Challis*, C. R. Dolan, M. E. M. Hardie, D. L. Milne, E. Robb, N. M. Smith, E. V. M. Williams.

Nelson: Attendants—R. F. Blanch, W. H. Chase*, R. L. Edmonds*, S. G. Page, G. T. Snook, A. J. Walters. Nurses—E. V. Andrews, C. J. Cunningham, T. M. Fowler, D. T. Hawkins, E. D. M. Lloyd, J. J. McMillan, I. A. Rogers, N. A. Ryan.

Hokitika: Attendants—G. W. Barrowman, A. J. Cooper, O. F. J. Fowler, K. P. Haurahan, M. J. Holloway*, K. F. O'Brien, D. M. Oldham, J. A. Roberts, W. G. Veale, F. J. Wallace, Nurses—E. A. Chandler*, A. McIlhatton.

Christchurch: Attendants—R. M. Arnott, R. F. S. Buckley, W. Cameron, E. H. Dudley, W. A. Ferguson, L. G. Grant, L. C. Jolly*, W. R. Mackrell, T. A. Moran, F. A. Newell, W. A. Partridge*, W. Ritchie, P. W. Shannahan, J. V. Snee, S. A. Young*. Nurses—R. M. Barrett*, I. Clark, P. J. Devlin, M. J. Frisby, F. E. Hallins, E. L. Kearney*, S. J. Masters, A. R. Sayer, M. J. Smith, E. M. Sullivan.

Templeton Farm: Institution Officers (Male)—A. A. Allen, F. G. J. Ashby, P. S. Cocks, I. L. G. Jolly, M. A. Vincent, G. T. Wylie. Institution Officers (Female)—K. A. Archer, H. B. Croxford*.

Needleff: Attendants—A. L. Aitcheson, F. H. Aitcheson, W. O. Buchler, T. Casserly, D. Pyffe, G. D. Hawkins, D. A. Ireland, C. E. Ives, W. H. Legal, W. S. Nicoll, J. Sullivan. Nurses—A. Burke, H. P. Burns, L. I. Carruthers, W. J. Currie*, W. R. Devlin, M. H. Gilboa*, E. M. Grant, N. J. Hamilton, E. M. P. Hislop, G. W. Knox, J. Millar, P. C. Ockim, M. D. Pickup*, I. E. Taylor, A. C. Trezise, H. A. Troy*, N. Wallace, T. Wyber.

* Passed with distinction.

APPENDIX.

TABLE I. SHOWING THE ADMISSIONS, READMISSIONS, DISCHARGES, AND DEATHS IN MENTAL HOSPITALS DURING THE YEAR 1939.

					M.	F.	T.	M.	F.	T.
In mental hospitals, 1st January, 1939					4,296	3,501	7,797
Admitted for the first time					511	482	993
Readmitted					92	113	205
Total under care during the year					4,899	4,096	8,995
Discharged and died—				
Recovered					147	181	328
Not recovered					132	125	257
Died					251	209	460
(Not including transfers—Males, 143 ; females, 116).					530	515	1,045
Remaining in mental hospitals, 31st December, 1939					4,369	3,581	7,950
Increase over 31st December, 1938					73	80	153
Average number resident during the year					4,196	3,320	7,426

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 1939.

Mental Hospitals.		In Mental Hospitals on 1st January, 1939.			Admissions in 1939.									Total Number of Patients under Care.		
					Admitted for the First Time.			Not First Admissions.			Transfers.					
		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Auckland	..	721	613	1,334	119	125	244	23	25	43	11	3	14	374	766	1,640
Kingscat	..	291	284	575	3	2	5	..	..	..	23	18	46	322	304	626
Tokanui	..	319	337	656	38	48	86	5	5	10	6	..	6	368	390	758
Porirua	..	845	590	1,435	132	119	251	32	38	70	3	7	15	1,017	754	1,771
Nelson	..	454	354	808	26	17	43	4	4	8	11	11	22	455	386	881
Hokitika	..	212	240	452	11	9	20	2	1	3	51	60	114	279	310	589
Christchurch	..	778	607	1,385	102	94	196	17	25	42	13	12	23	913	733	1,651
Seacliff	..	663	453	1,116	77	63	140	9	14	23	9	5	14	753	535	1,293
Ashburn Hall (private mental hospital)	..	13	23	36	3	5	8	..	1	1	..	..	..	16	29	45
Totals	..	4,296	3,501	7,797	511	482	993	92	113	205	143	116	259	5,042	4,212	9,254

Mental Hospitals.		Patients discharged, transferred, and died.												In Mental Hospitals on 31st December, 1939.		
		Discharged recovered.			Discharged not recovered.			Transferred.			Died.						Total discharged, transferred, and died.
		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Auckland	..	42	54	96	29	37	66	29	21	50	28	53	81	128	165	293
Kingscat	..	2	2	4	..	..	..	5	3	8	11	2	13	13	7	23
Tokanui	..	10	19	29	6	3	9	8	1	9	13	19	37	42	22	84
Porirua	..	42	44	86	23	18	41	10	12	22	77	33	115	151	112	263
Nelson	..	5	5	10	4	1	5	4	3	7	23	16	41	41	25	66
Hokitika	..	6	1	7	2	3	5	13	11	24	11	10	21	32	25	57
Christchurch	..	24	33	57	44	41	85	23	11	34	29	41	70	120	113	236
Seacliff	..	15	22	37	24	18	42	49	53	102	48	29	77	136	122	258
Ashburn Hall (private mental hospital)	..	1	1	2	..	4	4	2	1	3	1	1	2	4	7	11
Totals	..	147	181	328	132	125	257	143	116	259	251	209	460	673	631	1,304

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.		
		M.	F.	T.	M.	F.	T.	M.	F.	T.
Auckland	..	675	540	1,215	29.58	36.60	32.33	4.15	9.82	6.66
Kingscat	..	294	286	580	66.66	100.00	80.00	3.74	0.70	2.24
Tokanui	..	306	331	637	23.26	35.85	30.21	5.88	5.74	5.81
Porirua	..	815	583	1,398	25.61	28.02	26.79	9.45	6.52	8.23
Nelson	..	436	336	772	16.66	23.81	19.64	6.42	4.76	5.70
Hokitika	..	205	238	443	46.15	10.00	30.43	5.37	4.20	4.74
Christchurch	..	710	550	1,260	20.17	27.73	23.95	4.08	7.45	5.55
Seacliff	..	652	434	1,086	17.44	28.57	22.70	7.36	6.68	7.09
Ashburn Hall (private mental hospital)	..	13	22	35	33.33	16.66	22.22	7.69	1.55	5.71
Totals	..	4,106	3,320	7,426	24.38	30.42	27.38	6.11	6.30	6.19

TABLE III.—NATIVE COUNTRIES.

Countries.	Auckland.			Kingsseat.			Tokanui.			Porirua.			Nelson.			Hokitika.			Christchurch.			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.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
England and Wales	121	65	186	55	52	107	37	39	76	132	90	222	42	33	75	22	22	44	67	52	119	54	28	82	3	1	4	T.
Scotland	26	15	41	12	5	17	13	5	18	37	16	53	21	12	33	8	7	15	22	14	36	39	28	67	3	1	4	F.
Ireland	24	19	43	17	19	36	15	13	28	31	18	49	11	5	16	14	10	24	22	16	38	21	14	35	..	..	..	T.
New Zealand ..	452	428	880	150	170	320	221	248	469	562	469	1,031	341	284	625	164	195	339	658	508	1,166	474	324	798	5	19	24	T.
Australian States	34	22	56	15	12	27	9	14	23	32	19	51	8	10	18	11	8	19	13	13	26	14	8	22	1	1	2	F.
France	0	1	1	..	..	..	1	0	1	0	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	T.
Germany	2	0	2	1	0	1	2	1	3	2	3	5	1	2	3	2	0	2	1	1	2	3	1	4	..	..	..	F.
Austria	7	1	8	6	0	6	3	0	3	..	..	..	1	0	1	1	0	1	1	..	..	..	..	..	..	..	..	T.
Norway	1	0	1	4	0	4	2	0	2	1	1	2	1	0	1	1	0	1	1	0	1	..	..	..	..	..	..	F.
Sweden	1	0	1	1	2	3	0	1	1	1	0	1	1	0	1	2	0	2	..	..	..	2	0	2	..	..	..	T.
Denmark	..	..	..	1	0	1	2	1	3	2	1	3	5	0	5	1	0	1	..	..	..	1	0	1	..	..	..	F.
Italy	3	0	3	0	1	1	1	0	1	2	0	2	0	1	1	3	0	3	..	..	..	..	..	..	..	..	..	T.
China	3	3	6	1	0	1	1	0	1	4	1	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	F.
Maoris	14	19	33	5	0	5	9	21	30	40	17	57	7	2	9	..	..	..	6	5	11	1	0	1	..	..	..	T.
Other countries	41	14	55	16	10	26	10	5	15	15	6	21	3	0	3	3	0	3	3	3	6	3	2	5	..	..	..	F.
Unknown	17	14	31	20	26	46	4	0	4	4	0	4	12	12	24	16	43	59	..	..	..	10	8	18	..	..	..	T.
Totals	746	601	1,347	304	297	601	326	348	674	865	642	1,507	454	361	815	247	285	532	793	612	1,405	622	413	1,035	12	22	34	4,369 3,581 7,950

TABLE IV.—AGES OF PATIENTS ON 31st DECEMBER, 1939.

Ages.	Auckland.			Kingseat.			Tokanui.			Porirua.			Nelson.			Hokitika.			Christchurch.			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.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
From 1 to 5 years	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
" 5 " 10 "	3	0	3	..	..	..	1	1	2	0	2	2	13	5	18	0	1	1	6	4	10	0	3	3	..	..	..
" 10 " 15 "	10	5	15	..	..	..	1	5	6	1	8	9	15	8	23	0	2	2	49	22	71	1	3	4	..	..	..
" 15 " 20 "	23	25	48	4	0	4	4	15	5	4	15	19	42	13	55	1	2	3	67	40	107	1	1	2	..	..	..
" 20 " 30 "	117	63	180	17	15	32	45	52	97	112	76	188	94	49	143	5	4	9	115	75	190	22	11	33	..	..	..
" 30 " 40 "	136	128	264	37	46	83	58	48	106	166	114	280	54	58	112	43	28	71	100	75	175	135	42	177	2	1	3	
" 40 " 50 "	158	135	293	58	51	109	40	78	118	179	134	313	41	61	102	35	62	97	111	83	194	109	83	192	2	1	3	
" 50 " 60 "	142	118	260	76	86	162	71	78	149	199	149	348	49	72	121	70	82	132	125	98	223	128	100	228	1	4	5	
" 60 " 70 "	88	84	172	72	57	129	64	45	109	119	72	191	55	50	105	44	59	103	53	70	123	85	84	169	0	7	7	
" 70 " 80 "	41	29	70	34	28	62	23	28	51	50	43	93	25	21	46	28	21	49	26	35	61	46	41	87	6	2	8	
" 80 " 90 "	8	2	10	2	4	6	2	1	3	15	11	26	6	5	11	1	0	1	8	4	12	10	5	15	0	4	4	
Upwards of 90 "	2	0	2	1	0	1	..	..	..	0	1	1	..	..	..	..	..	..	1	0	1	2	1	3	..	..	..
Unknown	18	12	30	3	9	12	2	4	6	1	1	2	6	1	7	2	4	6	..	..	..	0	3	3	..	..	..
Totals	746	601	1,347	304	297	601	326	348	674	865	642	1,507	454	361	815	247	285	532	793	612	1,405	622	413	1,035	12	22	34	4,369 3,581 7,950

TABLE V.—LENGTH OF RESIDENCE OF PATIENTS DISCHARGED "RECOVERED" DURING 1939.

Length of Residence.	Auckland.			Kingseat.			Tokanui.			Porirua.			Nelson.			Hokitika.			Christchurch.			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.	M.	F.	T.	M.	F.	T.	M.	F.	T.			
Under 1 month	3	0	3	..	..	..	1	0	1	1	0	1	..	..	..	1	0	1	1	0	1	2	3	5	..	..	6	0	6
From 1 to 3 months	4	7	11	..	..	..	1	2	3	8	3	11	..	..	..	1	0	1	3	4	7	5	8	13	..	..	19	19	38
" 3 " 6 "	1	5	6	..	..	..	2	2	4	11	13	24	0	1	1	0	1	1	8	10	18	5	8	13	0	1	27	41	68
" 6 " 9 "	4	9	13	..	..	..	3	3	6	3	8	11	0	1	1	..	..	..	3	4	7	2	6	8	1	0	16	31	47
" 9 " 12 "	7	7	14	..	..	..	0	6	6	4	5	9	0	1	1	..	..	..	2	3	5	2	0	2	..	..	15	21	36
" 12 " 2 years	13	17	30	..	..	..	2	5	7	7	8	15	3	2	5	2	0	2	3	6	9	3	4	7	..	..	33	42	75
" 2 " 3 "	4	6	10	..	..	1	0	1	1	1	5	6	2	0	2	1	0	1	0	1	1	0	1	1	..	..	9	13	22
" 3 " 5 "	4	2	6	..	..	..	1	0	1	6	1	7	0	1	1	1	0	1	3	2	5	0	1	1	..	..	15	6	21
" 5 " 7 "	1	1	2	..	..	2	..	..	..	..	..	..	0	1	1	..	..	..	0	2	2	1	0	1	..	..	2	6	9
" 7 " 10 "	1	0	1	..	..	1	..	..	..	0	1	1	..	..	..	..	..	..	1	1	2	1	0	1	..	..	4	1	6
" 10 " 12 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
" 12 " 15 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
" 15 " 18 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Over 15 years	..	..	..	..	..	..	..	..	..	1	0	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	0	1
Totals	42	54	96	2	2	4	10	19	29	42	44	86	5	5	10	6	1	7	24	33	57	15	22	37	1	1	2	147	181	328

TABLE VI.—CAUSES OF DEATH, 1939.

Causes.	Auckland.	Kingseat.	Tokanui.	Porirua.	Nelson.	Hokitika.	Christchurch.	Seacliff.	Ashburn Hall (Private Mental Hospital).	Total.
I.—GENERAL DISEASES.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.
Tuberculosis—										
General	1	1	0	2	3	1	1	0	1	0
Lungs	0	3	0	1	2	0	3	1	0	2
Cancer	0	2	1	1	2	0	0	2	1	1
Furunculosis	0	1	1	1	1	0	1	1	0	1
Typhoid	0	1	1	0	1	0	2	0	1	0
Toxaemia	0	1	1	0	1	0	1	1	0	1
Diabetes	0	1	1	0	1	0	1	1	0	1
Syphilis	0	1	1	0	1	0	1	1	0	1
Bacillary dysentery	0	1	1	0	1	0	1	1	0	1
Addison's Disease	0	1	1	0	1	0	1	1	0	1
Hymphadenoma	0	1	1	0	1	0	1	1	0	1
Chronic pancreatitis	0	1	1	0	1	0	1	1	0	1
Hæmorrhagic jaundice	0	1	1	0	1	0	1	1	0	1
Osteo-myclitis	0	1	1	0	1	0	1	1	0	1
II.—DISEASES OF THE NERVOUS SYSTEM.										
Mania, exhaustion from	0	1	0	1	0	1	0	2	1	0
Melancholia, exhaustion from	1	2	1	0	1	0	2	0	1	0
General paralysis of the insane	2	2	1	0	6	4	1	0	2	0
Cerebral syphilis	1	0	1	0	1	0	1	0	1	0
Cerebral hæmorrhage	2	3	2	0	1	1	1	0	0	3
Cerebral thrombosis	2	2	1	0	0	1	0	1	1	0
Organic brain-disease	1	0	1	0	1	0	1	0	1	0
Epilepsy	2	1	1	3	3	0	4	1	1	0
Post Encephalitic Parkinsonism	1	0	1	0	1	0	1	0	1	0
Meningitis, tubercular	1	0	1	0	1	0	1	0	1	0
Cerebral œdema, alcoholic	1	0	1	0	1	0	1	0	1	0
Huntingdon's chorea	1	0	1	0	1	0	1	0	1	0
III.—DISEASES OF THE RESPIRATORY SYSTEM.										
Pneumonia—										
Lobar	1	3	0	4	1	4	0	1	1	1
Broncho	3	7	6	3	5	1	3	1	1	0
Hypostatic	1	0	1	0	0	1	0	2	1	0
Bronchitis	1	2	1	0	2	0	0	1	1	0
Empyema	1	0	1	0	1	0	0	3	1	0
Pulmonary œdema	1	0	1	0	1	0	0	3	1	0
IV.—DISEASES OF THE CIRCULATORY SYSTEM.										
Heart-disease	3	5	2	0	6	6	11	7	1	3
Arterio-sclerosis	1	1	2	0	4	2	1	0	6	8
Coronary thrombosis	1	0	4	2	1	0	1	0	6	1
V.—DISEASES OF THE DIGESTIVE SYSTEM.										
Enteritis	0	2	1	0	1	0	0	2	1	1
Intestinal obstruction	0	1	1	0	0	1	0	2	1	1
Cholecystitis	0	1	1	0	0	1	0	2	1	1
VI.—DISEASES OF THE GENITO-URINARY SYSTEM.										
Nephritis	0	2	1	0	1	1	2	1	1	0
Uræmia	0	2	1	0	1	1	2	1	1	0
VII.—OLD AGE.										
Senile decay	3	11	2	0	4	2	20	4	7	5
VIII.—EXTERNAL CAUSES.										
Suicide	0	1	1	0	1	0	0	1	1	1
During insulin treatment, "Natural causes"	0	1	1	0	1	0	0	1	1	1
IX.—DIED WHILST ON PROBATION	2	1	1	0	6	5	1	0	1	0
Totals	28	53	11	2	18	19	77	38	28	16
	11	10	29	41	48	29	1	1	251	209

TABLE VII.—PRINCIPAL ASSIGNED CAUSES OF INSANITY, 1939.

Causes.	Auckland.		Kingseat.		Tokanui.		Porirua.		Nelson.		Hokitika.		Christchurch.		Seacliff.		Ashburn Hall (Private Mental Hospital).		Totals.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Alcohol ..	5	4	..	..	1	1	9	4	..	..	1	0	6	1	5	0	..	..	27	10
Arterio-sclerosis ..	3	1	..	..	1	1	2	4	..	..	..	..	2	0	4	3	0	1	12	10
Climacteric ..	0	5	..	..	0	2	0	5	0	1	..	..	..	..	0	3	..	..	0	16
Congenital ..	12	18	0	1	8	4	16	10	14	8	..	..	44	32	10	3	..	..	104	76
Constitutional ..	29	26	..	..	..	..	40	29	..	..	3	3	..	..	..	..	..	..	72	58
Encephalitis ..	..	..	..	..	..	..	0	1	..	..	..	..	0	1	..	..	..	..	0	2
Epilepsy ..	4	3	..	..	3	3	7	3	..	..	3	1	4	2	7	0	..	..	28	12
Heredity ..	5	9	..	..	7	15	11	14	4	0	3	3	17	11	..	..	0	2	47	54
Ill health ..	3	2	..	..	0	3	..	..	..	..	..	..	..	..	..	..	..	..	3	5
Involution ..	6	10	..	..	3	1	1	18	2	0	..	..	..	..	..	..	..	..	16	51
Mental stress ..	13	19	..	..	11	11	2	0	4	1	0	2	2	12	2	8	..	..	55	69
Organic brain-disease ..	2	1	..	..	0	1	..	..	0	1	..	..	10	19	1	0	..	..	3	3
Parkinsonism ..	..	..	..	..	..	..	1	0	..	..	..	..	..	..	..	..	..	..	1	0
Post operative ..	1	0	..	..	..	..	1	0	..	..	..	..	..	..	..	..	..	..	2	0
Previous attack ..	23	25	..	..	0	2	32	38	2	4	2	1	7	11	17	26	0	2	83	109
Puberty or adolescence ..	2	1	..	..	2	1	0	1	1	1	..	..	9	9	3	3	..	..	17	16
Puerperal ..	0	6	..	..	0	2	0	5	0	1	..	..	0	1	..	..	0	1	0	16
Senility ..	25	19	3	1	6	6	25	20	3	3	..	..	15	19	16	9	3	0	96	77
Syphilis ..	9	0	..	..	..	..	12	4	..	..	1	0	2	0	4	0	..	..	28	4
Toxic ..	..	..	..	..	..	..	4	1	..	..	..	..	0	1	2	3	..	..	6	5
Traumatic ..	0	1	..	..	1	0	1	0	0	1	..	..	1	0	..	..	..	..	3	2
Transfers ..	11	3	28	18	6	0	8	7	11	11	54	60	16	12	9	5	..	..	143	116
Totals ..	153	153	31	20	49	53	172	164	41	32	67	70	135	131	95	82	3	6	746	711

TABLE VIII.—SHOWING THE ADMISSIONS, DISCHARGES, AND DEATHS FROM 1ST JANUARY, 1876, TO 31ST DECEMBER, 1939 (EXCLUDING TRANSFERS).

In hospitals, 31st December, 1875	..	..	..	..	..	M.	F.	T.
Admissions ..	..	..	..	..	..	482	254	736
						24,731	19,180	43,911
Discharged—						25,213	19,434	44,647
Recovered ..	..	..	..	..	M.	F.	T.	
Not recovered ..	..	..	..	..	8,616	7,627	16,243	
Died ..	..	..	..	..	2,671	2,397	5,068	
					9,557	5,829	15,386	
						20,844	15,853	36,697
Remaining on 31st December, 1939..	..	..	..	..	..	4,369	3,581	7,950

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

					Males.	Females.	Both Sexes.
Recovered ..	..	..	..	..	34·17	39·25	36·38
Not recovered ..	..	..	..	..	10·59	12·33	11·35
Died ..	..	..	..	..	37·91	29·99	34·46
Remaining ..	..	..	..	..	17·33	18·43	17·81
					100·00	100·00	100·00

1917	470	374	844	171	152	323	32	20	52	6	5	11	205	113	318	2,611	1,904	4,515	2,543	1,825	4,368	36-38	40-64	38-27	8-06	6-19	7-28
1918	437	402	839	142	141	283	17	36	53	12	12	24	274	174	448	2,603	1,943	4,546	2,602	1,899	4,501	32-49	35-07	33-73	10-53	9-16	9-95
1919	512	371	883	190	147	337	37	44	81	9	13	22	212	130	342	2,667	1,980	4,647	2,620	1,907	4,527	37-11	39-62	38-17	8-09	6-82	7-55
1920	455	418	873	162	148	310	27	37	64	6	10	16	210	166	376	2,717	2,037	4,754	2,674	1,980	4,654	35-63	35-32	35-51	7-85	8-40	8-08
1921	479	402	881	178	193	371	30	21	51	15	9	24	204	117	318	2,772	2,099	4,871	2,723	2,031	4,754	37-23	47-88	42-11	7-38	5-76	6-69
1922	453	386	839	156	157	313	32	20	52	10	8	18	211	184	395	2,816	2,116	4,932	2,747	2,062	4,809	34-44	40-67	37-31	7-67	8-92	8-21
1923	442	366	808	168	151	319	42	38	80	15	5	20	194	131	325	2,839	2,157	4,996	2,789	2,079	4,868	33-00	41-25	39-48	6-95	6-30	6-67
1924	446	377	823	152	128	280	30	42	72	9	11	20	221	95	316	2,873	2,258	5,131	2,808	2,146	4,953	34-08	33-95	34-02	7-87	4-42	6-37
1925	445	430	875	144	175	319	29	37	66	23	17	40	201	123	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	508	439	947	136	145	281	27	35	62	15	25	40	207	147	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	531	414	945	157	128	285	40	42	82	14	9	23	217	132	349	3,147	2,526	5,673	3,022	2,373	5,395	29-56	30-91	30-16	7-17	5-65	6-47
1928	506	450	956	115	134	249	40	40	80	17	13	30	207	161	368	3,274	2,628	5,902	3,120	2,459	5,579	22-72	29-77	26-04	6-63	6-55	6-59
1929	549	407	956	145	144	289	30	28	58	22	16	38	227	153	380	3,399	2,694	6,093	3,215	2,495	5,710	26-41	35-37	30-23	7-06	6-13	6-65
1930	621	474	1,095	138	128	266	28	34	62	31	23	54	251	172	423	3,572	2,811	6,383	3,342	2,590	5,932	22-22	27-00	24-29	7-51	6-64	7-15
1931	587	476	1,063	127	120	247	29	30	59	29	30	59	221	199	420	3,753	2,908	6,661	3,503	2,696	6,199	21-64	25-21	23-37	6-31	7-39	6-76
1932	587	484	1,071	141	160	301	39	42	81	38	41	79	219	169	388	3,903	2,980	6,883	3,681	2,738	6,419	24-02	33-05	28-10	5-97	6-17	6-06
1933	563	554	1,117	117	144	261	35	27	62	28	22	50	221	124	345	4,065	3,217	7,282	3,809	2,932	6,741	20-78	25-99	23-36	5-80	4-23	5-16
1934	479	504	983	114	146	260	64	72	136	..	..	..	233	203	436	4,133	3,300	7,433	3,899	3,039	6,938	23-80	28-97	26-45	5-98	6-68	6-28
1935	567	502	1,069	117	136	253	72	55	127	..	..	..	229	206	435	4,282	3,405	7,687	4,003	3,111	7,114	20-63	27-09	23-67	5-72	6-66	6-11
1936	553	556	1,109	121	149	270	105	96	201	..	..	..	252	213	465	4,357	3,503	7,860	4,093	3,195	7,288	21-88	26-80	26-76	6-18	6-66	6-38
1937	557	567	1,124	180	179	359	121	110	231	..	..	..	261	236	497	4,352	3,545	7,897	4,112	3,272	7,384	32-32	31-57	31-94	6-35	7-21	6-73
1938	527	575	1,102	170	210	380	140	135	275	..	..	..	273	274	547	4,296	3,501	7,797	4,129	3,287	7,416	32-26	36-52	34-48	6-61	8-33	7-38
1939	603	595	1,198	147	181	328	132	125	257	..	..	..	251	209	460	4,369	3,581	7,950	4,106	3,320	7,426	24-38	30-42	27-38	6-11	6-30	6-19
	24,731	19,180	43,911	8,616	7,627	16,243	2,671	2,397	5,068	..	..	..	9,557	5,829	15,386	..	..	..	..	..	..	..	..	..	..	..	..

Excluding transfers between institutions—2,868 males, 2,280 females.

TABLE XI.—DEBITS FOR THE FINANCIAL YEAR, 1939-40.

	Auckland.		Kingsseat.		Tokauui.		Porirua.		Nelson.		Hokitika.		Christchurch.		Seaford.		Head Office.		Totals.	
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
Salaries, including overtime ..	61,020	3 2	25,650	15 2	38,466	17 6	77,575	11 5	37,910	19 5	26,161	1 9	73,038	0 9	72,020	10 10	8,972	0 5	421,416	0 5
Official Visitors ..	44	2 0					25	0 0			10	10 0	25	4 0					104	16 0
Advertising, books, &c. ..	17	12 8	30	3 11			14	5 11	12	15 11	33	15 8	20	10 5	49	14 2	88	17 9	290	1 9
Bacteriological research ..	77	17 0			9	19 6	114	14 0	0	10 6	0	10 6	3	19 8					207	11 2
Bedding and clothing ..	4,868	16 10	2,118	19 0	2,321	19 8	4,981	9 2	2,721	17 2	3,127	14 6	5,393	7 11	4,347	2 0			30,081	6 3
Buildings, including additions, &c. ..	972	13 11	117	4 4	536	7 11	548	7 11	267	12 11	270	9 5	864	1 5	1,119	4 0			4,686	1 10
Dental services ..	0	17 6	8	15 3	3	7 6	5	6 6	11	18 1	7	3 10	134	17 8	18	10 3			190	16 7
Farms, maintenance of ..	1,238	8 2	1,389	8 11	3,296	11 5	2,039	13 6	969	2 6	345	4 3	1,189	7 3	7,141	1 0			17,608	17 0
Fencing, draining, and roading ..	20	16 4	78	1 1	204	15 11	128	9 3	30	8 11	17	10 7	59	18 1	162	1 10			702	2 0
Freight, cartage, and transport ..	94	10 4	189	10 8	285	2 9	215	5 11	371	8 10	52	5 1	512	16 5	357	19 2			2,078	19 2
Fuel, light, water, &c. ..	7,739	7 0	3,021	8 6	4,433	12 3	6,858	16 1	5,922	18 2	2,251	7 1	7,571	19 1	5,810	10 7	46	4 0	43,656	2 9
Funeral expenses ..	41	17 6	36	15 0	71	10 0	70	10 0	101	17 5	27	0 0	79	5 0	104	10 0			533	4 11
Furniture and fittings ..	462	11 2	509	19 6	164	15 7	694	9 11	480	8 10	264	17 1	474	0 2	277	17 4	43	0 11	3,372	0 6
Gardens and shrubberies ..	63	16 5	39	19 7	61	8 9	18	15 11	15	1 10	14	12 6	115	12 9	21	19 0			351	6 9
Laundry ..	237	1 9	226	16 0	299	16 10	418	10 7	163	10 8	89	6 10	352	11 6	315	12 6			2,094	6 8
Legal and inquiry costs ..	13	15 6					1	5 0											15	0 6
Machinery, repairs, and stores ..	125	6 3	103	13 1	106	0 7	165	16 7	143	12 10	33	8 11	193	6 11	158	12 5			1,029	17 7
Medical fees ..	661	14 8	2	2 0	111	1 0	759	10 6	68	17 0	58	8 0	431	6 3	327	1 6			2,420	0 11
Motor-vehicles—																				
Maintenance of ..	19	7 10	44	3 9	80	0 0	257	4 7	98	0 4	23	13 0	271	2 2	231	2 3			1,024	13 11
Purchase of ..									207	7 6									207	7 6
Nursing staff uniforms ..	241	8 11	114	12 3	140	11 1	364	14 2	165	2 6	166	9 1	491	19 5	570	13 3			2,195	10 8
Office equipment ..	14	4 6	3	11 4			0	8 11	2	9 0	4	13 6	0	15 6			3	8 7	29	11 4
Patients' expenses connected with—																				
Gratuities ..	13	8 4	0	1 6	2	15 0	77	1 10	117	13 5	14	2 6	3	1 8	27	9 8			255	13 11
Friends ..															50	0 0			50	0 0
Recreation ..	977	19 2	360	17 2	551	13 8	1,095	6 5	542	3 4	403	8 2	886	4 5	825	15 8			5,643	8 0
Transfers ..	22	10 3	0	1 8	22	5 0	73	5 10	16	14 7	7	18 3	91	16 7	251	14 11			486	7 1
Postages, telegrams, &c. ..	146	2 10	67	1 0	84	12 0	173	15 9	46	15 5	28	0 0	129	12 4	179	9 11	134	15 6	990	4 11
Printing and stationery ..	210	0 3	101	16 10	106	19 7	211	4 5	97	0 3	71	14 0	230	11 9	145	0 2	76	2 10	1,250	10 1
Rations ..	16,882	2 0	8,417	10 3	8,249	13 6	21,954	17 6	11,202	12 4	6,248	4 10	18,865	6 4	11,215	9 10			103,035	16 7
Rents and rates ..									7	12 7			518	16 8	4	0 0	654	13 7	1,185	2 10
Stores ..	730	13 2	475	3 9	431	5 2	721	3 3	600	6 3	646	15 5	999	14 6	873	15 3			5,468	16 9
Surgery and dispensary, drugs, &c. ..	297	5 6	165	4 9	120	4 2	543	1 9	115	6 2	138	18 1	331	17 3	288	16 3			2,000	13 11
Telephone services ..	73	8 5	175	13 10	97	9 4	177	5 2	58	9 1	35	12 0	135	18 4	208	14 1	116	19 5	1,079	9 8
Transfer and removal expenses ..	11	1 4	4	17 5	6	18 9	11	2 5	1	16 2	6	18 9	19	7 4	31	11 2			130	13 4
Travelling-allowances ..	85	2 8	96	18 4	57	12 7	77	11 2	78	4 5	50	4 10	63	1 3	188	10 10	100	19 8	798	5 9
Travelling-expenses, ..	136	6 1	21	9 4	19	9 6	107	4 6	22	0 0	29	16 1	92	17 8	151	12 7	143	8 2	724	3 11
Treatment in general hospitals—																				
Patients ..	73	3 6	69	4 0	12	14 0	142	6 6	0	10 0	3	13 6	58	10 0	115	16 0			475	17 6
Staff ..	5	12 6	10	13 0			9	7 0	17	10 0			2	2 0	1	0 0			46	4 6
Contingencies and miscellaneous ..	58	7 6			3	16 0	62	19 4	61	5 5	15	0 0	55	12 9	114	16 9	0	10 6	372	18 3
Totals ..	97,689	12 11	43,690	2 2	60,573	12 0	120,695	18 8	62,591	19 9	40,651	8 0	113,708	13 2	108,307	15 2	10,381	1 4	658,290	3 2

TABLE XIA.—CREDITS FOR THE FINANCIAL YEAR, 1939-40.

	Auckland.			Kingseat.			Tokanui.			Porirua.			Nelson.			Hokitika.			Christchurch.			Seacliff.			Head Office.			Total.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
*Receipts from maintenance	18,769	12	3	11,891	17	8	7,022	17	9	28,211	14	1	12,740	13	2	5,363	14	1	15,607	1	6	22,973	11	5	..	..	..	122,581	15	11
Contribution from Social Security Fund	27,601	4	11	12,899	18	2	13,946	1	11	32,570	7	10	16,782	19	2	9,995	8	2	28,545	5	11	23,658	13	11	..	..	..	166,000	0	0
Receipts from farms	..	..	..	673	6	9	2,169	12	5	4,376	15	3	1,948	12	3	13	16	2	2,950	0	10	4,156	7	3	..	..	..	17,699	9	7
Miscellaneous]	..	..	..	7,040	16	2	3,514	10	8	10,524	16	10	3,914	10	1	2,905	12	7	8,408	6	10	7,831	3	10	128	5	3	48,256	14	11
Totals	..	..	..	54,085	0	1	30,475	18	11	72,717	17	5	35,386	14	8	18,278	11	0	55,510	15	1	58,619	16	5	128	5	3	354,537	6	5

* 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.		Surgery and Dispensary.		Miscellaneous.		Total Cost per Patient. (a)		Contributions from Social Security Fund.		Other Re-payments. (b)		Net Cost per Patient. (b)		Net Cost Previous Year.		Decrease in 1939-40.		Increase in 1939-40.	
		£	s. d.	£	s. d.	£	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	1,311	46	10 10	3	14 3	0	14 10	0	18 11	5	18 1	12	17 6	0	4 6	3	11 3	74	10 2	21	6 6	5	17 8	47	6 0	43	3 5	..	..	4	2 7
Kingseat	592	43	6 6	3	11 7	0	4 0	2	6 11	5	2 1	14	4 5	0	5 7	4	14 11	73	16 0	21	6 6	9	12 5	42	17 6	39	10 8	..	..	3	6 10
Tokanui	655	58	14 6	3	17 0	0	16 1	5	0 8	6	15 5	12	11 11	0	3 8	4	10 4	92	9 7	21	6 6	12	15 5	58	7 8	55	13 9	..	..	2	13 11
Porirua	1,327	50	16 0	3	5 3	0	7 2	1	6 9	4	9 10	14	7 7	0	7 1	4	1 2	79	0 10	21	6 6	7	16 4	49	18 0	48	12 11	..	..	1	5 1
Nelson	790	47	19 9	3	8 11	0	6 9	1	4 6	7	9 10	14	7 3	0	2 11	4	8 3	86	4 7	21	6 6	7	8 3	50	9 8	53	12 1	3	2 5	..	..
Hokitika	471	55	10 10	6	12 10	0	11 6	4	14 8	4	15 7	13	5 3	0	5 11	4	9 7	79	6 2	21	6 6	6	7 8	58	15 9	65	12 4	6	16 7	..	..
Christchurch	1,335	54	14 2	4	0 10	0	12 11	0	17 10	5	13 5	14	2 7	0	5 0	4	16 9	85	3 6	21	6 6	8	10 2	55	6 10	56	13 0	1	6 2	..	..
Seacliff	1,104	65	15 7	3	18 9	1	0 3	6	9 4	5	5 3	10	3 3	0	5 3	5	4 3	98	2 1	21	6 6	10	17 2	65	18 5	63	16 6	2	1 11	..	..
Head Office	7,785	1	3 1	..	..	..	..	..	..	0	0 1	..	..	..	..	0	3 6	1	6 8	..	..	0	0 4	1	6 4	1	10 5	0	4 1	..	..
Total average cost	7,785	54	2 8	3	17 3	0	12 0	2	5 3	5	12 2	13	4 8	0	5 2	4	12 0	84	11 2	21	6 6	8	9 5	54	15 3	54	4 9	..	..	0	10 6

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

TABLE XIII.—EXPENDITURE OUT OF PUBLIC WORKS FUND ON MENTAL HOSPITAL BUILDINGS, ETC., DURING THE FINANCIAL YEAR ENDED 31ST MARCH, 1940.

Mental Hospitals.		Net Expenditure for Year ended 31st March, 1940.
Auckland	£	7,118
Christchurch	£	17,252
Hokitika	£	26,793
Nelson and Stoke	£	39,469
Porirua	£	10,894
Kingsseat	£	62,896
Seacliff	£	1,082
Tokanui	£	9,922
Total	£	175,426

TABLE XIV.—TOTAL EXPENDITURE OUT OF PUBLIC WORKS FUND FOR BUILDINGS AND EQUIPMENT AT EACH MENTAL HOSPITAL FROM 1ST JULY, 1877, TO 31ST MARCH, 1940.

Mental Hospitals.	1877-1930.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.	Total Net Expenditure 1st July, 1877, to 31st March, 1940.
Auckland	£	£	£	£	£	£	£	£	£	£	£	£
Christchurch	226,670	3,372	621	676	155	2,321	307	842	5,658	907	7,118	248,647
Dunedin (The Camp)	267,343	23,993	4,650	7,960	3,481	23,489	12,397	23,970	16,397	6,784	17,252	407,716
Hokitika	49,114	14,764	8,381	3,107	8,753	5,629	2,739	7,580	2,097	1,140	26,793	4,891
Hornby	11,102	..	..	..	..	..	..	..	..	..	..	130,097
Motuhi Island	561	..	..	..	..	..	..	..	..	..	..	11,102
Napier	147	..	..	..	..	..	..	..	..	..	..	561
Nelson and Stoke	97,806	26,494	3,339	2,680	12,251	28,552	18,307	16,218	2,234	15,458	39,469	147
Puhiitahi (Kingsseat)	..	16,130	16,433	10,278	35,438	29,784	21,973	65,192	52,144	71,149	62,896	262,808
Seacliff	286,796	8,914	3,065	414	6,618	4,888	1,453	2,958	570	2,527	1,082	381,417
Tokanui	179,000	27,787	7,164	2,918	6,295	3,797	12,682	18,839	2,855	6,903	9,922	319,285
Waitati	21,312	9,557	936	516	..	..	..	..	..	..	..	278,162
Wellington	29,641	..	..	..	..	..	..	..	..	..	..	32,321
Wellington (Porirua)	341,645	3,129	1,349	207	29	170	..	6,510	20,502	23,948	10,894	29,641
Totals	1,516,028	134,140	45,938	28,756	73,020	98,630	69,858	142,109	102,457	128,816	175,426	2,515,178

Approximate Cost of Paper.—Preparation, not given; printing (500 copies), £34.

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