Mental Hospital, Essondale.

ANNUAL REPORT

OF THE

MENTAL HOSPITALS

OF THE

PROVINCE OF BRITISH COLUMBIA

FOR THE YEAR 1915

THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA.

PRINTED BY
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VICTORIA, B.C.:
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1916.

Entrance to Grounds, New Westminster.

To His Honour FRANK STILLMAN BARNARD,

Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned respectfully submits herewith the Annual Report of the Medical Superintendent of the Mental Hospitals for the year 1915.

THOMAS TAYLOR,

Provincial Secretary.

Provincial Secretary's Office,
February, 1916.

Patients' Day-room, New Mental Hospital, Essondale. (West Wing.)

Members of the Provincial Mental Hospitals and Colony Farm Staffs who have joined the Colours.

Major C. E. Doherty. D. D. Freeze, M.O.

Lieutenant R. Cullen.

Sergeant J. O'Reilly. Sergeant D. Montgomery.

Corporal H. Hoult.

HONOUR ROLL.

✠

KILLED IN ACTION.

✠

S. McCOMBE,
Private, 104th Westminster Fusiliers.

J. McDONALD,
Trooper, British Columbia Horse.

L. BUNDY,
Private, 104th Westminster Fusiliers.

F. UPHAM,
Reservist, Somerset Light Infantry.

W. H. WILLIAMS,
Private, 104th Westminster Fusiliers.

Private A. Talbot.
Private E. Orme.
Private W. D. Patchell.
Private T. Woodburn.
Private T. E. Morris.
Private D. Price.
Private D. Hughes.
Private W. McVie.
Private A. McLennan.
Private F. E. Frankum.
Private A. N. Campbell.
Private A. Hall.

Private W. Crystall.
Private J. Loban.
Private E. Dickie.
Private F. Upham.
Private J. McDonald.
Private S. McCombe.
Private W. H. Williams.
Private A. M. Miller.
Private L. Bundy.
Private G. Farrant.
Private W. Robertson.

Private J. Davidson.
Private S. Wickham.
Private A. Milne.
Private H. A. Sparrow.
Private W. Ronald.
Private J. Robertson.
Private G. Davidson.
Private R. McKechnie.
Private H. Lonsdale.
Prinate H. W. Strong.
Private A. E. Smith.

Officers at New Westminster.

C. E. Doherty, M.D., C.M., *Medical Superintendent.*
J. G. McKay, M.D., C.M., *Acting Medical Superintendent.*
H. C. Steeves, M.D., C.M., *Assistant Medical Superintendent.*
A. L. Crease, M.D., C.M., *Assistant Physician and Pathologist.*

T. H. Cambridge, *Bursar.*
M. H. McCabe, *Assistant Bursar.*
C. H. Gooding, *Correspondence Clerk.*
W. E. Hunt, *Clinical Clerk.*
Maria Fillmore, *Matron.*
R. Rees, *Steward and Storekeeper.*
Rev. R. Lennie, Church of England, } *Chaplains.*
Rev. H. P. Bessette, O.M.I., Roman Catholic, } *Chaplains.*

W. F. Johnston, *Engineer.*
F. Spooner, *Acting Chief Male Attendant.*
Thomas Cormack, *Carpenter.*
A. Campbell, *Plasterer and Mason.*
H. Bailey, *Farmer.*
J. Booth, *Gardener.*
D. Sclater, *Painter.*
W. F. Beggs, *Tailor.*
E. B. Jones, *Laundryman.*
R. C. McDonald, *Shoemaker.*

Officers at Essondale and Colony Farm.

C. E. Doherty, M.D., C.M., *Medical Superintendent.*
J. G. McKay, M.D., C.M., *Acting Medical Superintendent.*

Gowan S. Macgowan, *Bursar.*
C. Fletcher, *Assistant Bursar.*
J. McK. Heiliger, *Clinical Clerk.*
J. B. Pumphrey, *Steward and Storekeeper.*
R. Graham, *Engineer.*
Rev. C. Yates, Church of England, } *Chaplains.*
Rev. F. X. Teck, Roman Catholic, } *Chaplains.*
G. Mathewson, *Chief Attendant.*
T. Mowbray, *Electrician.*
J. B. Foster, *Cook.*
A. A. Killen, *Painter and Decorator.*

E. B. Stinchcombe, *Nurseryman.*
A. G. Parrott, *Plumber.*
A. Hogg, *Carpenter.*
E. Fitzgerald, *Plasterer and Mason.*
S. F. Hambly, *Baker.*
J. Hargie, *Laundryman.*
A. Robinson, *Barber.*
Malcolm Stewart, *Acting Farm Supt.*
G. Hambly, *Dairy Department.*
J. Simmons, *Record Clerk.*
W. C. Robertson, *Engineer.*
J. McMurdo, *Blacksmith.*

Kitchen, New Mental Hospital, Essondale.

REPORT OF MEDICAL SUPERINTENDENT

FOR THE YEAR ENDING DECEMBER 31ST, 1915.

PROVINCIAL MENTAL HOSPITAL,
ESSONDALE, B.C.,
January, 31st, 1916.

The Honourable the Provincial Secretary,
Victoria, B.C.

SIR,—Owing to the continued absence of your Medical Superintendent with the Canadian Army Medical Corps, I, as Acting Medical Superintendent, have the honour to submit to you the Forty-fourth Annual Report of the Provincial Hospital for the Insane, New Westminster, and the Mental Hospital, Essondale, B.C.

But, sir, permit me, before going further, to call your attention to the large number of our staffs who have answered the call of our King and country since the opening of hostilities in 1914. Five of these noble fellows have answered their last call; some others have been invalided home, and the balance are now at the front or in training for overseas service. Through the medium of this report I wish to extend to the friends and relatives of those killed in action my most sincere sympathy; to the others, our best wishes and hopes that they may return to us unscathed except by honour well earned.

Embodied in this report are the usual tables from the heads of the various departments, which give in a concise manner the work that has been carried on under them. From the accounting staff which will be shown, in tabulated form, the movement of the Hospital population, as well as a strict accounting of all moneys received and disbursed during the year. In this report you will note that, although the Hospitals are kept separate in every way, we have a combined report, and classify our tables as "A" and "B," so that it may be simplified to as great an extent as possible.

During the past year there have been a great many changes among the male members of our staffs, who have resigned to enlist for overseas service, and their places have been given whenever possible to married men, or those who have been rejected as medically unfit. These numerous changes have necessarily made the work of the staff more difficult, but not in any way insurmountable, as those who have been unable to enlist have given us every assistance possible.

Our admissions during the year have shown a marked decrease over those of 1914, and this is undoubtedly due, to a great extent, to the fact that there has been no immigration to the Province.

The total number committed was 332, consisting of 221 males and 111 females. Of these, 270 were suffering from a first attack, 46 from a second attack, 14 from a third attack, and 2 from a fourth attack.

The social state of those admitted was as follows: Single 166; married, 144; widowed, 16; divorced, 3; unknown, 3.

In religion, 245 were Protestants, 73 were Roman Catholics, 12 were heathen, and of 2 the religion was unknown.

The total number discharged outright during the year was 174, showing a percentage of 52.7 on our admissions.

CAUSES.

Owing to the fact that we have not a man to devote his whole time to the work of obtaining histories for statistical purposes, it is rather difficult for us in many cases to obtain authentic information as to the primary causes. Furthermore, a great many people hesitate to give a family history, possibly through a feeling of false pride, and then, again, there is quite a large percentage of foreigners in our admissions who are unable to speak the English language sufficiently well to give the necessary data.

Nevertheless, we have obtained an hereditary history in 23 per cent. of our admissions, which goes to corroborate my opinion that heredity is paramount from an etiological standpoint. Alcohol accounts for less than 7 per cent. This is a smaller percentage than usual, and I personally believe that the use of spirituous liquors is on the decrease.

On 204 of our admissions we made Wassermann tests, and of these 12.25 per cent. were positive, thus showing that lues accounts for more than alcohol; and, furthermore, we have had a positive reaction in all cases of general paresis.

In summing up the above facts, I believe that any one who is familiar with psychiatry will agree with me that greater care should be observed, and a broader education given to the coming generation, so that matrimony would be looked upon from a psychological standpoint for the betterment of the species, both mentally and physically.

The steps that are now being taken in public schools, especially in the larger centres, to keep the physical condition of the children up to a high standard, and also the appointment of special instructors, or teachers, to direct the work of backward children, cannot help but have a beneficial effect upon the future generations.

After the war is over there will undoubtedly be a large immigration to Canada, and unless great care is effected at ports of entry we will have an unlimited number of mentally deficients entering our midst. These will be not only a burden, but their offspring must necessarily be weaklings, as it is as true in the higher as well as the lower animal kingdoms that "like begets like."

TREATMENT.

The psychological world still keeps pace with the other branches of medical science in its attempt to alleviate the mentally diseased, so that they again may take their place in the outside world, or where this is not possible, to at least alleviate their condition and bring them up to a standard whereby they may be more or less self-supporting, and it is along these lines that it is just as essential the public should be educated as it is with other hereditary and infectious diseases.

You will notice that in our tables a great many cases give a history of heredity, not necessarily of insanity, but of eccentricities and neurotic conditions which are the precursors of mental enfeeblement, and we are now endeavouring, through the systematic use of the Binet-Simons test, to form some definite table as to the extent of the mental development, and also the amount of deterioration that takes place after prolonged, excited, or depressed periods, as it is unreasonable to suppose that these conditions can exist without leaving more or less of a mental scar.

We still continue the use of the various psychoses tests, and also, during the past year, have done Wassermann tests on 204 of our 332 admissions, and hope to be able during the coming year to do a routine Wassermann test on all admissions, as it is only by systematic examinations that a definite conclusion can be arrived at.

Scenes from Farm and Nursery.

We have not as yet attempted the use of the Swift-Ellis treatment in paresis, as up to the present time the results obtained have hardly justified us in doing so; but if the reports from the larger research laboratories are favourable, we will administer it in selected cases during the coming year.

The systematic use of our hydro-therapeutic department in acute and depressed cases has given us most gratifying results, and has absolutely done away with the use of various forms of mechanical restraint which used to be considered a necessity. Furthermore, the routine use of hypnotics has now been decreased to a minimum.

The foregoing remarks on treatment apply, unfortunately, to only a small percentage of our admissions; the greater number must necessarily be treated in a different manner, as it really amounts to a re-education which can only be obtained by diversified occupations, and we are at present in a position, by having at our disposal, considerable acreage consisting of our farm, nursery, and lawns, to offer employment to our patients which is not only congenial, but curative, in that the great majority after a short time show an interest which no indoor occupation would stimulate to the same degree. Having these opportunities relieves us of the necessity of indoor instructions, such as schooling and mechanical training, that is now in vogue in many institutions where their area is unfortunately limited. This has been called to my attention particularly through the interchanging of reports throughout Canada and the United States.

AMUSEMENTS.

It is the duty of any institution whose object is the care of the mentally afflicted not only to endeavour to find suitable employment for the individual cases, but also during their leisure hours to surround them with amusements and entertainments that will awaken in them an interest foreign to their psychological states. During the summer months this is simplified by the use of our recreation-grounds, where they are at liberty to enter into such games as tennis, cricket, football, bowling, etc., and each Saturday afternoon we give open-air concerts. During the winter months it is more difficult. Owing to the inclement weather our amusements must necessarily be indoors, and concerts and dances are given weekly. We are especially indebted to the Department of Agriculture, who has kindly placed at our disposal their large Kinematograph machine, as well as many of their films, and I have also made arrangements with the Film Exchange whereby we can get a regular supply of films at a low cost. This form of entertainment is not only instructive, but pleasing.

EXPENDITURE.

Fully realizing the necessity of strict economy during these times, we have been able to decrease the cost of maintenance in various ways without interfering with the efficiency or care of the patients, although the prices of foodstuffs have advanced on an average of 25 per cent. Our gross *per capita* cost was 65 cents per diem. This not only includes the amounts paid out by voucher, but also the amounts of all products from the farm, nursery, and gardens, at prices equal to those if purchased in the open market.

Our daily average in residence was 1,076.30, and our total expenditure, including book charges of home-grown products, amounted to $257,922.43. From this sum should be deducted the amount remitted to the Treasury Department, of $34,375.93, proceeds derived on account of maintenance, thus making a net cost to the Province of 56.89 cents *per capita* per diem.

COLONY FARM.

During the past year the farm has progressed favourably, although owing to the dry season our crops were not so abundant as in 1914. Nevertheless, we have grown all the feed required for our stock, as well as all vegetables required for the two Hospitals, and in addition to this have disposed of 250 tons of hay.

I would respectfully suggest that during the coming summer all of the upland that has been slashed should be cleared and broken, so that it would be ready for seeding the following year. This would materially enhance the production of the farms, as the uncleared portion is of no value at the present time, and, further, it would eliminate the necessity of leasing land.

On account of the steady increase in our resident population it has been necessary to increase our milking herd, but this is being done by not disposing of any of our young females, and we will have, by the beginning of 1917, about ninety head of milkers, the great majority of which will be our own raising. This will place us in a position whereby we will not only be able to supply all the milk required, but we will also be able to make considerable butter, a commodity that is oftentimes difficult to obtain in large quantities and of good quality.

We have produced our milk this year at a cost of 29 cents per gallon, and, as the herd increases, this price should diminish considerably, as the only extra cost will be for the feed consumed. Furthermore, the revenue derived from such a herd through the sale of their progeny should offset the maintenance and leave the milk as a profit, or as interest on the original investment of the purchase price of the cattle; and it would not be necessary to purchase any animals, with the exception of a herd bull every few years.

We have in residence at our Farm Cottage sixty-five patients, and a large percentage of these are incurable, but, under proper supervision, are able to assist materially in the working of the farm, and in this way are not only in the best environment from a standpoint of health, but are also assisting towards their own maintenance.

ACKNOWLEDGMENTS.

The many changes that have taken place in our staff through enlistment, during the year, at times made the work rather difficult, but every member of the staff arose to the occasion, and through concerted action continued to work as a unit for the welfare of the patients and the institutions, and to each and every one I wish to extend my most hearty thanks.

The able assistance that has been given me by Dr. Steeves, Assistant Medical Superintendent, and Dr. Crease, Assistant Physician and Pathologist, cannot be too highly commended, and I assure you has been particularly appreciated by myself.

In conclusion, sir, I desire to express to yourself, and Dr. H. E. Young, late Provincial Secretary, my most sincere appreciation of the able assistance that has been granted me by yourselves, in endeavouring to alleviate the sufferings of those who necessarily come under our care, and also to the other honourable members of the Cabinet who have assisted to such a degree in bringing the institutions up to their present standard.

I have the honour to be,
Sir,
Your obedient servant,
J. G. McKAY,
Acting Medical Superintendent.

Bursar's Office and Record Room, New Westminster.

Table A.

Showing the Average Number of Patients in Residence each Year, the Total Amounts spent for Maintenance, and the *Per Capita* Cost.

Year.	Average Number in Residence.	Maintenance Expenditure.	*Per Capita* Cost.
1872 (81 days)	16.57	$ 2,265 25	$616 00
1873	16.07	7,841 94	487 98
1874	16.76	8,232 41	491 20
1875	27.42	9,892 38	360 77
1876	36.41	12,558 18	344 91
1877	34.61	12,917 17	373 26
1878	36.52	13,985 05	382 93
1879	38.17	10,253 72	268 63
1880	45.42	10,552 18	232 32
1881	47.18	10,691 76	226 62
1882	47.86	11,343 65	237 02
1883	48.73	11,829 11	242 75
1884	48.70	11,843 94	243 20
1885	54.67	15,555 87	284 54
1886	59.11	15,334 43	259 42
1887	73.55	15,945 22	216 70
1888	79.43	16,261 06	204 72
1889	71.30	15,657 79	219 60
1890	78.78	17,577 80	223 13
1891	119.87	21,757 03	181 50
1892	125.24	23,518 37	187 80
1893	133 92	25,904 98	193 36
1894	148.64	26,495 83	178 25
1895	162.97	31,587 89	193 83
1896	171.43	32,001 40	186 67
1897	188.91	36,224 76	191 75
1898	216.53	46,420 25	214 38
1899	226.44	54,917 45	242 52
1900	243.24	59,349 20	244 00
1901	269.56	55,406 08	205 54
1902	296.62	55,345 65	186 59
1903	332.23	59,353 57	178 65
1904	351.55	66,052 76	187 89
1905	340.90	63,342 07	185 80
1906	374.57	66,596 69	177 79
1907	419.24	74,874 64	178 59
1908	490.80	90,269 49	183 92
1909	526.85	96,586 32	183 32
1910	563.33	103,900 44	184 43
1911	641.02	126,782 50	197 78
1912	736.72	130,924 06	177 71
1913, M.H., New Westminster	550.54	119,663 71	217 36
1913, M.H., Essondale (9 months)	384.07	71,079 84	184 76
1914, M.H., New Westminster	487.24	125,981 45	258 56
1914, M.H., Essondale	489.07	131,420 44	268 36
1915, M.H., New Westminster	515.74	123,021 70	238 53
1915, M.H., Essondale	560.56	123,878 43	220 99

TABLE B.

Showing Analysis of the *Per Capita* Cost.

Year.	Salaries.	Provisions.	Clothing.	Fuel and Light.	Furniture.	Medicines.	Miscellaneous.	Total.
1872.....	$279 38	$184 03	$55 81	$22 44	$15 55	$10 18	$49 30	$616 69
1873.....	221 48	166 81	14 55	23 65	21 59	7 74	32 16	487 98
1874.....	231 10	152 10	22 07	23 98	28 36	7 78	25 81	491 20
1875.....	153 82	113 40	13 98	16 88	25 45	6 73	30 51	360 77
1876.....	143 34	114 45	18 68	22 75	17 90	2 86	24 93	344 91
1877.....	177 15	126 75	20 69	4 66	20 75	3 74	19 52	373 26
1878.....	176 16	124 23	30 43	13 94	7 20	9 16	21 82	382 93
1879.....	134 27	95 10	3 25	15 91	6 39	6 31	7 40	268 63
1880.....	111 84	87 71	5 74	14 06	6 00	3 63	3 34	332 32
1881.....	112 44	81 14	6 86	12 73	5 55	2 56	5 34	226 62
1882.....	121 51	84 52	7 05	12 30	4 54	3 49	3 61	237 02
1883.....	123 81	92 56	6 03	11 04	4 26	2 24	2 82	242 75
1884.....	124 02	90 64	7 03	12 43	4 14	2 77	2 18	243 20
1885.....	169 05	84 33	6 33	15 05	3 90	2 93	2 95	284 54
1886.....	159 03	69 35	5 49	16 20	3 72	1 59	4 04	259 42
1887.....	127 80	59 10	5 88	15 38	3 88	93	3 81	216 78
1888.....	118 34	60 47	4 41	13 90	3 11	2 09	2 40	204 72
1889.....	131 70	59 11	7 20	12 93	4 13	2 07	2 46	219 60
1890.....	121 54	62 77	9 02	17 31	4 00	1 29	7 19	223 12
1891.....	88 35	54 79	3 83	20 43	3 40	1 89	8 81	181 50
1892.....	94 25	56 74	4 69	20 53	3 35	1 80	6 42	187 80
1893.....	95 50	53 55	5 43	22 60	3 39	2 69	10 20	193 36
1894.....	87 76	57 07	5 25	18 83	2 98	1 43	4 93	178 25
1895.....	90 83	61 15	9 90	20 41	2 51	3 10	5 93	193 83
1896.....	89 13	55 93	6 30	20 29	2 56	3 63	8 83	186 67
1897.....	89 09	58 18	8 36	19 11	2 95	3 86	10 20	191 75
1898.....	94 68	69 43	9 94	21 82	2 76	5 12	10 62	214 37
1899.....	113 31	72 91	8 31	33 96	2 50	2 73	8 80	242 52
1900.....	116 04	72 62	9 06	32 10	2 15	1 71	10 32	244 00
1901.....	99 16	66 65	10 12	18 52	3 25	1 07	6 77	205 54
1902.....	87 47	61 13	7 95	15 25	4 13	1 20	9 46	186 59
1903.....	82 36	57 86	8 58	14 77	3 24	1 91	9 93	178 65
1904.....	87 43	60 01	6 85	17 84	4 48	2 10	9 18	187 89
1905.....	92 17	54 09	5 99	17 93	3 83	2 03	9 76	185 80
1906.....	88 76	53 15	5 16	15 92	3 57	1 21	10 02	177 79
1907.....	89 18	48 47	5 81	19 82	3 02	1 57	10 72	178 59
1908.....	90 93	49 17	6 61	17 63	4 56	1 79	13 23	183 92
1909.....	94 27	53 41	8 16	13 02	2 78	84	10 84	183 32
1910.....	95 97	48 43	7 87	21 32	2 02	1 15	7 67	184 43
1911.....	97 44	58 08	9 39	18 84	1 12	1 87	11 04	197 78
1912.....	78 40	56 37	10 09	19 36	1 79	1 50	10 20	177 71
1913, M.H., New West.	102 37	54 07	9 43	25 27	4 74	3 21	18 27	217 36
1913, M.H., Essondale.	93 56	49 90	5 50	25 13	55	1 02	14 10	184 76
1914, M.H., New West.	115 72	68 15	2 99	24 13	69	2 64	44 24	258 56
1914, M.H., Essondale.	113 06	81 42	15 49	28 93	4 14	1 19	24 13	268 36
1915, M.H., New West.	110 94	64 32	7 57	20 30	.....	1 88	33 52	238 53
1915, M.H., Essondale.	95 25	62 84	9 44	24 87	1 14	56	26 89	220 99

Table C.

Showing the Total Expenditure of the Mental Hospital annually since its Inception, analysed under its Various Headings.

Year.	Salaries.	Provisions.	Clothing.	Fuel and Light.	Furniture (estimat'd)	Medicines, etc.	Miscellaneous.	Total of Current Expenditure.	Expenditure on Capital Account.			
									New Furniture.	Library.	Surgical Instruments.	Lands and Works.
1872-80	$40,663 67	$29,719 85	$4,082 93	$4,073 24	$3,725 07	$1,450 81	$4,782 35	$ 88,498 28	$2,300 00	.....	.....	$116 87
1881	5,304 96	3,828 29	323 84	600 39	261 38	121 03	251 87	10,691 76	.....	.....	.....	.....
1882	5,815 46	4,045 02	336 82	589 00	217 12	167 22	173 01	11,343 65	.....	.....	.....	106 50
1883	6,033 50	4,510 55	293 37	537 50	207 38	109 50	137 31	11,829 11	.....	.....	.....	100 63
1884	6,039 96	4,412 60	342 47	605 67	201 78	135 11	106 37	11,843 94	100 00	.....	.....	.....
1885	9,242 23	4,604 96	345 88	822 65	213 24	160 14	161 77	15,555 87	100 00	.....	.....	245 52
1886	9,399 96	4,099 09	324 89	957 55	219 83	94 26	238 85	15,334 43	.....	.....	.....	212 55
1887	9,399 96	4,346 88	432 64	1,131 03	285 72	68 97	280 02	15,945 22	100 00	.....	.....	135 19
1888	9,399 96	4,803 57	350 17	1,103 86	247 24	165 60	190 66	16,261 06	.....	.....	$ 32 00	224 34
1889	9,390 62	4,214 19	513 73	922 00	293 69	147 76	175 80	15,657 79	.....	.....	.....	625 56
1890	9,575 13	4,945 57	710 64	1,363 52	315 28	101 90	565 96	17,577 80	2,800 00	.....	.....	2,181 91
1891	10,590 28	6,568 27	459 58	2,449 09	406 84	226 31	1,056 66	21,757 03	900 00	.....	.....	1,001 86
1892	11,803 83	7,106 64	587 48	2,571 26	418 82	226 19	804 15	23,518 37	.....	$ 19 00	.....	433 99
1893	12,790 28	7,172 53	729 38	3,029 00	452 55	362 08	1,369 16	25,904 98	650 00	.....	10 75	718 49
1894	13,044 16	8,492 53	771 05	2,799 87	442 69	212 86	732 67	26,495 83	200 00	.....	.....	170 32
1895	14,802 47	9,963 54	1,611 96	3,324 54	419 01	502 90	963 47	31,587 89	1,800 00	.....	.....	1,915 28
1896	15,280 62	9,588 22	1,079 85	3,479 46	439 36	623 24	1,511 05	32,001 40	800 00	5 15	148 01	1,126 74
1897	16,829 76	10,991 05	1,579 08	3,610 03	557 97	728 73	1,928 14	36,224 76	1,200 00	.....	19 00	848 38
1898	20,502 31	15,032 71	2,153 11	4,725 96	598 05	1,109 66	2,298 45	46,420 25	2,700 00	8 60	6 39	5,320 30
1899	25,658 15	16,511 05	1,882 13	7,690 35	566 86	617 27	1,991 64	54,917 45	1,300 00	29 10	.....	2,518 80
1900	28,224 96	17,665 60	2,203 97	7.807 15	521 96	415 10	2,510 46	59,349 20	2,400 00	25 10	11 89	1,806 10
1901	26,729 01	17,967 31	2,727 11	4,993 67	875 30	288 40	1,823 28	55,406 08	1,840 53	104 20	14 65	5,175 20
1902	25,945 89	18,132 13	2,359 90	4,525 45	1,221 87	354 38	2,806 03	55,345 65	1,157 47	111 48	19 20	5,561 42
1903	27,362 37	19,222 50	2,850 19	4,906 22	1,077 73	634 16	3,300 40	59,353 57	1,723 70	132 53	9 00	8,426 70
1904	30,735 95	21,096 19	2,409 34	6,271 55	1,574 84	738 85	3,226 04	66,052 76	1,463 48	91 47	16 95	4,593 88
1905	31,421 45	18,437 99	2,043 45	6,110 76	1,306 22	693 49	3,328 71	63,342 07	1,711 84	100 30	69 15	3,981 72
1906	33,243 80	19,908 19	1,934 15	5,965 32	1,337 80	453 41	3,754 02	66,596 69	1,365 76	150 88	114 16	5,564 03
1907	37,394 21	20,326 99	2,439 64	8,314 36	1,265 63	655 66	4,498 15	74,874 64	4,352 22	127 50	144 63	9,410 66
1908	44,626 20	24,132 49	3,244 77	8,652 81	2,239 68	877 40	6,496 14	90,269 49	5,646 86	89 58	91 01	10,775 00
1909	49,665 85	28,142 65	4,298 91	6,856 11	1,465 79	441 59	5.715 42	96.586 32	2,598 95	139 76	21 30	16,615 10
1910	54,049 80	27,278 49	4,437 29	12,014 30	1,141 57	653 09	4,325 90	103,900 44	4,043 58	154 75	9 50	12,465 08
1911	62,453 00	37,229 56	6,020 57	12,079 62	722 10	1,200 92	7,076 73	126,782 50	11,169 78	187 46	43 82	14,429 02
1912	57,755 68	41,531 72	7,433 68	14,266 18	1,318 66	1,105 82	7,512 32	130,924 06	4,477 21	131 93	301 15	13,144 06
1913, New Westminster	56,359 76	29,767 27	5,191 33	13,909 72	2,608 03	1,767 42	10,060 18	119,663 71	4,697 77	212 79	69 13	17,701 00
1913, Essondale. (9 mos.)	35,993 98	17,271 35	2,117 73	9,669 99	208 76	395 80	5,422 23	71,079 84	46,680 54	4,417 50	.....	14,904 63
1914, New Westminster	56,381 62	33,204 11	1,455 28	11,758 11	338 03	1,286 68	21,557 62	125,981 45	.....	.....	.....	10,117 16
1914, Essondale	55,364 40	39,873 66	7,585 71	14,168 66	2,026 29	584 23	11,817 49	131,420 44	1,087 31	.....	.....	4,236 37
1915, Essondale	53,392 50	35,225 51	5,287 03	13,942 39	639 67	316 87	15,074 46	123,878 43	841 31	.....	.....	4,628 99
1915, New Westminster	57,217 21	33,174 90	3,902 49	10,469 03	.....	969 58	17,288 49	123,021 70	1,044 11	.....	.....	5,910 38

TABLE D.

Summary Statement showing the Gross and Net *Per Capita* Cost of Insane Patients to the Province in both Institutions.

Public Hospital for the Insane, New Westminster—			
Total maintenance vouchers (12 months)		$115,912 81	
Colony Farm Acccount, milk, vegetables, hay, etc.		6,676 54	
Nursery Account, Essondale		91 00	
Provincial Gaol Account, vegetables		754 53	
Essondale Hospital Account, ice and cordwood		392 50	
Inventory of stock, January 1st, 1915		4,576 50	
		$128,403 88	
Less Tailor's Account for Essondale	$3,729 68		
" stock on hand, December 31st, 1915	1,652 50		
		5,382 18	
			$123,021 70
Mental Hospital, Essondale—			
Total maintenance vouchers (12 months)		$123,878 43	
Colony Farm Account, total supplies		10,839 17	
Nursery and garden-truck		4,022 18	
Provincial Gaol, vegetables		66 76	
Hospital for Insane, Tailor's Department		3,729 68	
Inventory of stock, January 1st, 1915		4,779 87	
		$147,316 09	
Less cordwood and supply to Colony Farm	$ 731 02		
" board of farm employees	6,363 00		
" supplies to New Westminster	392 50		
" stock on hand, December 31st, 1915	4,928 84		
		12,415 36	
			134,900 73
Total maintenance charges (12 months), both institutions			$257,922 43
Less revenue collected and remitted to Treasury			34,375 93
			$223,546 50

Showing a net yearly *Per Capita* cost of $207.69, or 56.89 cents daily to the Province.

REVENUE.

1873	$1,440 99	1888	$ 750 00	1903	$13,639 64
1874	680 00	1889	220 00	1904	15,004 22
1875	1,342 60	1890	599 24	1905	16,613 18
1876	730 31	1891	761 15	1906	19,058 42
1877	799 91	1892	2,418 43	1907	20,753 35
1878	479 42	1893	1,585 40	1908	25,807 83
1879	867 38	1894	2,709 53	1909	25,845 65
1880	1,433 04	1895	4,409 23	1910	26,137 38
1881	614 99	1896	3,741 71	1911	30,100 20
1882	505 18	1897	3,816 80	1912	35,151 97
1883	298 24	1898	4,003 79	1913	40,756 56
1884	98 35	1899	4,769 04	1914	42,731 83
1885	.....	1900	6,893 33	1915, New West.	18,046 21
1886	50 00	1901	12,800 76	1915, Essondale.	16,329 72
1887	720 59	1902	10,926 23		

LABORATORY REPORT.

Laboratory of Hospital for the Insane,
New Westminster, B.C., December 31st, 1915.

The Acting Medical Superintendent,
Public Hospital for the Insane, New Westminster, B.C.

Sir,—I have the honour to report herewith work done in the Laboratory during the past year. Owing to the small amount of time at our disposal, only examinations that were absolutely necessary were carried out.

A Wassermann test was done on 204 newly admitted cases, twenty-five of which were found to be positive, showing a percentage of 12.25 of luetic infection. The most sensitive antigen—namely, cholesterin—was not used, it being impossible to obtain this drug owing to the war. We had to depend solely on an acetone insoluble antigen, and this may have rendered our percentage possibly lower than it otherwise would have been.

There were 450 cultures examined for Klebs-Loeffler bacilli, as there was an outbreak of diphtheria in one of the female wards. A young girl suffering from the cataleptic type of dementia præcox developed a membranous pharyngitis. Cultures were taken in which were demonstrated prime forms of that bacilli. All the patients and nurses in the ward were examined and cultures of throat and nose taken, and it was shown that four others were suffering from active diphtheria, while fourteen harboured positive cultures.

The active cases were isolated and given large doses of antitoxin, while those carrying the bacilli were barriered. As soon as three successive negative cultures were obtained the patients were allowed out in the day-room with the remainder of the ward who had shown no evidence of the disease. There were no further cases developed and no sequelæ occurred in the five who had active lesions.

Blood-counts, blood-cultures, and vidals were done when indicated, and the analyses of milk, water, sputa, urines, etc., were also carried out, but only when it was deemed necessary, and not as a routine.

There were thirty frozen sections done from surgical materials, and permanent slides were mounted and kept that they might be referred to in the future.

It is intended to do a Wassermann test on the spinal fluid of those paretics who may show a negative blood test, and, if the materials can be obtained, Abderhalden's ferment action test will be done for dementia præcox. Owing to the war, however, it has become almost impossible to obtain the necessary reagents, and most of this work must unfortunately be postponed until the market is once more open to us.

I cannot conclude this report without expressing my great appreciation of the assistance rendered by Mr. C. H. Gooding, who has shown a keen enthusiasm for this work, and without whose help much of it could not have been done.

I have the honour to be,
Sir,
Your obedient servant,

A. L. CREASE,
Assistant Physician and Pathologist.

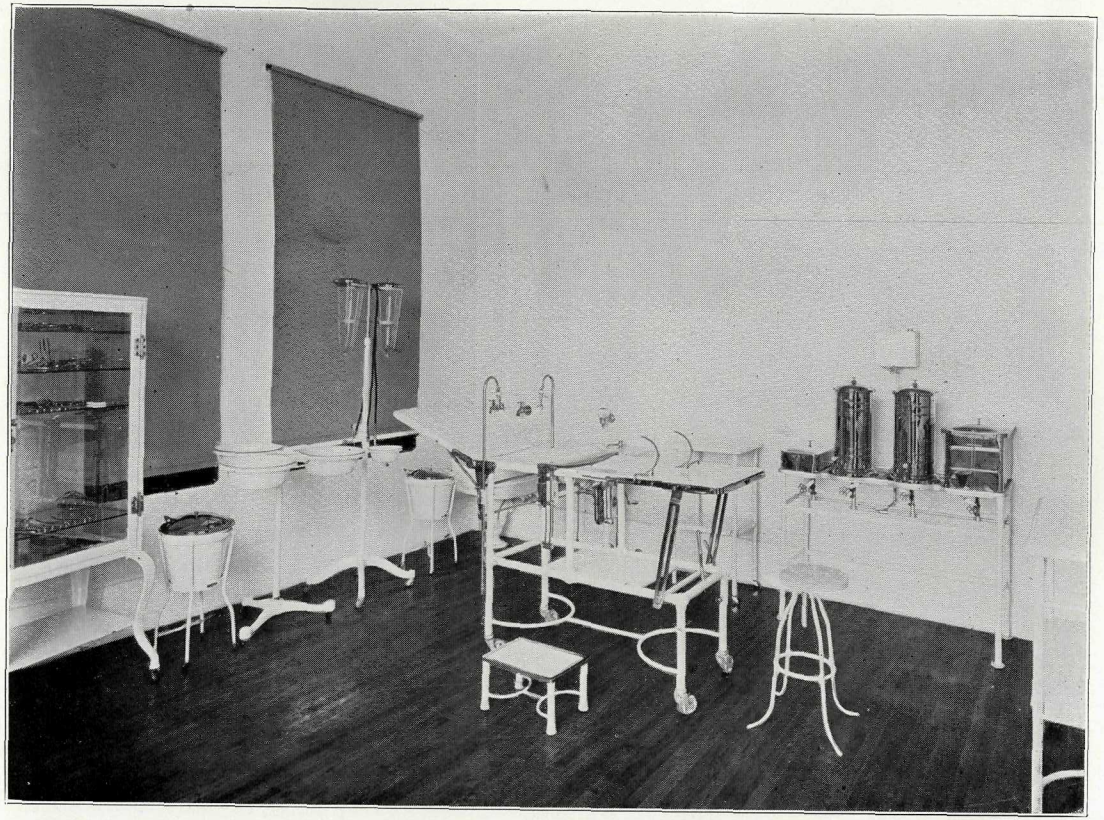
STATISTICAL TABLES.

TABLE No. 1.

Showing the operations of the Hospitals, New Westminster and Essondale, for the Year 1915, in Summary Form.

Movement of Population.	Male.	Female.	Total.	Total.		
				Male.	Female.	Total.
In residence, New Westminster, December 31st, 1914	237	270	507			
" Essondale, December 31st, 1914	520	..	520			
On probation, carried forward from 1914, New Westminster	25	38	63			
" " " Essondale	12	..	12			
Escaped, carried forward from 1914, New Westminster	2	1	3			
				796	309	1,105
Admitted during the year 1915—						
By ordinary forms	206	105	311			
By urgency forms	13	6	19			
From the Yukon	2	..	2			
				221	111	332
Total under treatment, New Westminster and Essondale, for year 1915.	..	..	..	1,017	420	1,437
Discharged during 1915:						
From New Westminster—						
As recovered	29	41	70			
As improved	14	24	38			
As unimproved	14	10	24			
On probation and still out	11	38	49			
Escaped, but not discharged	6	1	7			
Died	44	23	67			
	118	137	255			
From Essondale—						
As recovered	13	..	13			
As improved	21	..	21			
As unimproved	8	..	8			
On probation and still out	22	..	22			
Escaped, but not discharged	6	..	6			
Died	22	..	22			
	92	..	92			
Total discharged from New Westminster and Essondale	..	..	..	210	137	347
Total in residence, New Westminster and Essondale, December 31st, 1915	..	..	..	807	283	1,090
New Westminster—						
Total on books, December 31st, 1914	264	309	573			
Admissions during 1915	221	111	332			
Returned from Essondale	8	..	8			
				493	420	913
Discharged during 1915	118	137	255			
Transferred to Essondale during 1915	136	..	136			
				254	137	391
Total in residence, New Westminster, December 31st, 1915	..	..	..	239	283	522
Essondale—						
Total on books, December 31st, 1914	532	..	532			
Transferred from New Westminster during 1915	136	..	136			
				668	..	668
Discharged during 1915	92	..	92			
Returned to New Westminster	8	..	8			
				100	..	100
Total in residence, Essondale, December 31st, 1915	..	..	..	568	..	568
Total in residence, New Westminster, December 31st, 1915	..	..	..	239	283	522
Grand total in residence, New Westminster and Essondale, Dec. 31st, 1915.	..	..	..	807	283	1,090

Daily average population	1,076.30
Maximum number present any one day	1,111.00
Minimum " "	1,026.00
Percentage of discharges on admissions	52.41
" recoveries on admissions	25.00
" deaths on whole under treatment	6.19



Operating-room, New Mental Hospital, Essondale.

Table No. 2.

Showing in Summary Form the Operations of the Hospital since its Inception.

Year.	Admissions.	Discharges.		Deaths.	Number Resident at the Close of each Year.	Increase.	Decrease.	Whole Number treated.	Percentage of Recoveries to Admissions.	Percentage of Discharges to Admissions (Deaths excluded).	Percentage of Deaths to Whole Number under Treatment.
		Recovered.	Not recovered.								
1872	18	1	..	1	16	..	..	18	5.55	5.55	5.55
1873	15	10	2	5	14	..	2	31	66.66	80.00	16.12
1874	12	4	..	3	19	5	..	26	33.33	33.33	11.53
1875	29	3	3	10	32	13	..	48	10.34	26.89	20.83
1876	22	11	3	5	35	3	..	54	50.00	63.63	9.35
1877	14	4	4	3	38	3	..	49	28.57	78.57	6.12
1878	16	7	3	8	36	..	2	54	43.75	62.50	16.16
1879	18	4	1	8	41	5	..	54	22.22	27.77	14.81
1880	17	5	..	5	48	7	..	58	29.41	29.41	8.62
1881	13	5	3	5	48	..	..	61	38.46	61.54	8.19
1882	7	3	1	2	49	1	..	55	42.85	57.14	3.63
1883	8	4	1	3	49	..	..	57	50.00	62.50	5.26
1884	10	2	4	2	51	2	..	59	20.00	60.00	3.33
1885	20	5	..	5	61	10	..	71	25.00	25.00	6.94
1886	27	10	6	6	66	5	..	88	37.03	59.25	6.81
1887	36	15	5	5	77	11	..	102	41.66	55.55	4.80
1888	26	12	6	3	82	5	..	103	46.15	69.23	2.87
1889	41	14	5	4	100	18	..	123	34.15	46.34	3.25
1890	52	17	6	12	117	17	..	152	32.69	44.23	7.64
1891	49	19	4	20	123	6	..	166	38.77	46.94	11.69
1892	52	17	10	13	135	12	..	175	32.69	51.92	6.95
1893	44	14	18	14	133	..	2	179	31.81	72.72	7.60
1894	80	13	19	19	162	29	..	213	16.25	40.00	8.92
1895	62	29	11	20	164	2	..	224	46.77	64.51	8.92
1896	64	23	25	9	171	7	..	228	35.93	75.00	3.94
1897	74	20	8	14	203	32	..	246	27.03	37.83	5.69
1898	81	27	13	19	221	18	..	285	33.33	49.38	6.66
1899	101	31	32	21	234	13	..	327	30.69	62.37	6.42
1900	113	38	27	29	258	24	..	356	33.63	57.52	8.14
1901	115	40	20	25	284	26	..	377	34.78	52.17	6.63
1902	121	30	31	25	311	27	..	413	24.79	50.41	6.06
1903	139	38	37	26	349	38	..	466	27.34	53.96	5.57
1904	115	46	26	26	321	..	28	480	40.00	62.61	5.42
1905	123	43	33	27	348	27	..	505	33.33	61.78	5.34
1906	150	36*	43	28	388	43	..	552	23.03	52.06	5.04
1907	221	48	43	39	461	73	..	666	21.30	41.20	5.08
1908	230	68*	56	57	507	46	..	765	28.30	53.90	7.44
1909	232	73†	77	40	536	29	..	816	31.00	64.60	6.40
1910	280	84	82	41	595	48	..	896	30.00	59.28	4.57
1911	332	67‡	114	60	690	105	..	1,034	19.57	54.42	5.83
1912	375	74*	128	76	752	62	..	1,065	18.90	53.80	7.02
1913	380	90‖	146	67	919	167	..	1,264	22.63	62.10	5.30
1914	402	58	126	74	1,027	108	..	1,364	14.43	45.77	5.43
1915	332	83	91	89	1,090	63	..	1,437	25.00	52.41	6.19

* Three not insane. † One not insane. ‡ Two not insane. ‖ Four not insane.

TABLE No. 3A.

Showing the Number of Admissions, Discharges, and Deaths during 1915, New Westminster.

Months.	Admissions.			Discharges.			Deaths.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
January	20	5	25	..	..	..	7	5	12
February	18	10	28	1	2	3	1	1	2
March	34	15	49	2	..	2	3	1	4
April	25	9	34	18	20	38	4	1	5
May	19	17	36	5	6	11	3	2	5
June	16	4	20	..	..	..	1	2	3
July	20	8	28	2	7	9	3	3	6
August	17	10	27	6	7	13	4	4	8
September	13	7	20	..	..	..	4	1	5
October	23	7	30	1	11	12	4	..	4
November	8	8	16	1	..	1	6	1	7
December	8	11	19	21	22	43	4	2	6
Totals	221	111	332	57	75	132	44	23	67

TABLE No. 3B.

Showing the Number of Admissions, Discharges, and Deaths during 1915, Essondale.

Months.	Admissions, Males only.	Discharges, Males only.	Deaths, Males only.
January	10	1	2
February	14	1	1
March	32	2	..
April	13	3	2
May	13	..	3
June	7	..	2
July	12	..	2
August	6	..	..
September	13	24	3
October	14	2	3
November	1	1	2
December	1	8	2
Totals	136	42	22

TABLE No. 4.

Showing the Civil State of Patients admitted during 1915.

Civil State.	Male.	Female.	Total.
Single	141	25	166
Married	66	78	144
Widowed	8	8	16
Divorced	3	..	3
Unknown	3	..	3
Totals	221	111	332

TABLE No. 5.

Showing the Religious Denominations of those admitted during 1915.

Religious Denomination.	Male.	Female.	Total.
Agnostic	1	..	1
Confucian	10	..	10
Christian Scientist	1	2	3
Greek	3	1	4
Hebrew	2	2	4
Protestant, various denominations	140	84	224
Roman Catholic	54	19	73
Shinto	1	1	2
Unknown	1	1	2
No religion	8	1	9
Totals	221	111	332

TABLE No. 6.

Showing the Degree of Education of those admitted during 1915.

Degree of Education.	Male.	Female.	Total.
Superior	13	9	22
Common school	173	92	265
Could read and write	17	5	22
None	17	4	21
Unknown	1	1	2
Totals	221	111	332

TABLE No. 7.

Showing the Nationality of those admitted during 1915.

Nationality.	Male.	Female.	Total.
Australia	..	1	1
Austria	14	3	17
Belgium	2	..	2
Borneo	1	..	1
China	10	..	10
Denmark	..	1	1
England	48	31	79
Finland	5	2	7
France	3	1	4
Germany	4	2	6
Iceland	1	..	1
India	1	..	1
Ireland	7	7	14
Italy	9	3	12
Japan	1	1	2
Mexico	..	1	1
Newfoundland	..	1	1
Norway	7	2	9
Philippine Islands	1	..	1
Poland	1	..	1
Portugal	1	..	1
Russia	3	..	3
Scotland	16	9	25
Servia	1	..	1
Sweden	11	1	12
Syria	..	1	1
United States	19	8	27
West Indies	1	..	1
Canada—			
British Columbia	13	12	25
New Brunswick	4	3	7
Nova Scotia	3	..	3
Ontario	28	14	42
Prince Edward Island	4	3	7
Quebec	2	4	6
Totals	221	111	332

TABLE No. 8.

Showing what Districts contributed Patients during 1915.

Place of Residence at Time of Committal.	Male.	Female.	Total.
Agassiz	..	1	1
Alberni	1	..	1
Alert Bay	1	..	1
Anyox	1	..	1
Ashcroft	1	..	1
Aspen Grove	..	1	1
Baker Creek	..	1	1
Burnaby	2	..	2
Burquitlam	..	1	1
Central Mission	1	..	1
Central Park	1	..	1
Chemainus	1	..	1
Chilliwack	1	..	1
Collingwood, East	.	1	1
Collingwood, West	1	..	1
Comox	1	..	1
Coquitlam	1	..	1
Courtenay	1	..	1
Cowichan Lake	1	..	1
Cranbrook	2	..	2
Creston	2	..	2
Cumberland	1	..	1
Dawson	1	..	1
Deroche	1	..	1
Drew Harbour	..	1	1
Duncan	2	..	2
Eburne	3	1	4
Edmonds	1	..	1
Elko	..	1	1
Enderby	1	..	1
Esquimalt	..	1	1
Fernie	2	..	2
Fernridge	1	..	1
Fort Fraser	2	..	2
Foul Bay	1	..	1
Gateway	1	..	1
Glacier	1	..	1
Grand Forks	1	1	2
Gravelburg	1	..	1
Hazelton	4	..	4
Hope	1	..	1
Hosmer	..	1	1
Jervis Inlet	1	..	1
Kamloops	7	3	10
Kelowna	3	..	3
Kerrisdale	1	..	1
Kinam Lake	..	1	1
Langley	..	1	1
Lillooet	1	..	1
Lynn Valley	..	1	1
Marigold	..	1	1
Masset Reserve	1	..	1
Matsqui	1	..	1
Mission City	..	1	1
Moodyville	1	..	1
McBride	1	..	1
Nanaimo	7	3	10
Nelson	5	1	6
New Westminster	12	6	18
North Kamloops	..	1	1
North Thompson	1	..	1
North Vancouver	4	3	7
Oakalla	1	..	1
Oak Bay	..	1	1

TABLE No. 8.—*Concluded.*

Place of Residence at Time of Committal.	Male.	Female.	Total.
Okanagan Centre	1	..	1
100-Mile House	1	..	1
Parksville	3	..	3
Penticton	4	..	4
Phoenix	1	1	2
Pine Creek	1	..	1
Port Alberni	1	1	2
Port Haney	1	..	1
Port Moody	2	..	2
Prince George	1	..	1
Prince Rupert	2	2	4
Princeton	1	..	1
Quathiaski	1	..	1
Quesnel	1	..	1
Rand	1	..	1
Redonda Island	1	..	1
Revelstoke	4	1	5
Roche	1	..	1
Rossland	..	2	2
Saanich	3	1	4
Shelley	1	..	1
Shoal Bay	1	..	1
Shuswap	1	..	1
Smithers	1	..	1
Soda Creek	1	..	1
South Vancouver	3	2	5
South Wellington	1	..	1
Springhouse	..	1	1
Stave Falls	1	..	1
Summerland	2	..	2
Taghan	1	..	1
Three Valleys	1	..	1
Trout Lake	1	..	1
Vancouver	60	51	111
Vernon	3	..	3
Victoria	18	12	30
Waldo	..	1	1
Waneta	..	1	1
Washington Keeley	1	..	1
West Summerland	1	1	2
Ymir	1	..	1
Totals	221	111	332

TABLE No. 9.—Showing the Occupations of those admitted during 1915.

Occupation.	Male.	Female.	Total.
Accountant	1	..	1
Architect	1	..	1
Auditor	1	..	1
Barber	2	..	2
Blacksmith	3	..	3
Bookkeeper	2	..	2
Bricklayer	1	..	1
Builder	1	..	1
Bus-driver	1	..	1
Butcher	1	..	1
Carpenter	5	..	5
Chainman	1	..	1
Clerk	4	1	5
Commercial traveller	2	..	2
Contractor	1	..	1
Cook	2	..	2
Doctor	1	1	2
Domestic	..	4	4
Draughtsman	1	..	1
Engineer	4	..	4
Farmer	15	..	15
Fisherman	2	..	2
Foreman	2	..	2
Furniture-dealer	1	..	1
Guide	1	..	1
Hotelkeeper	1	..	1
Housekeeper	..	9	9
Housewife	..	72	72
Insurance agent	1	..	1
Janitor	1	..	1
Jockey	2	..	2
Junk-dealer	1	..	1
Labourer	86	..	86
Leather-cutter	1	..	1
Logger	9	..	9
Longshoreman	1	..	1
Machinist	2	..	2
Merchant	2	..	2
Milliner	..	1	1
Miner	11	..	11
Mining engineer	1	..	1
Minister	1	..	1
Missionary	1	..	1
Nurse	..	2	2
Painter	2	..	2
Photographer	1	..	1
Plumber	1	..	1
Printer	1	..	1
Rancher	12	..	12
Sailor	1	..	1
Salesman	3	..	3
Seamstress	..	1	1
Shingle-cutter	1	..	1
Shingle-weaver	1	..	1
Shoeblack	1	..	1
Sign-writer	1	..	1
Smelter	1	..	1
Stenographer	..	2	2
Stone-worker	2	.	2
Student	1	1	2
Tailor	1	..	1
Tallyman	1	..	1
Teacher	..	1	1
Teamster	5	..	5
Upholsterer	1	..	1
Watchman	1	..	1
No occupation	6	16	22
Totals	221	111	332

TABLE No. 10.

Showing the Age of those admitted during 1915.

Age.	Male.	Female.	Total.
Under 15 years	1	2	3
From 15 to 20 years	8	3	11
" 20 to 25 "	21	6	27
" 25 to 30 "	40	21	61
" 30 to 35 "	36	12	48
" 35 to 40 "	37	20	57
" 40 to 45 "	24	15	39
" 45 to 50 "	19	9	28
" 50 to 55 "	8	11	19
" 55 to 60 "	8	..	8
" 60 to 65 "	5	3	8
" 65 to 70 "	7	6	13
" 70 to 75 "	4	1	5
" 75 to 80 "	1	..	1
Over 80 years	1	2	3
Unknown	1	..	1
Totals	221	111	332

TABLE No. 11.

Showing the Number of Attacks in those admitted during 1915.

Number of Attacks.	Male.	Female.	Total.
First	187	83	270
Second	24	22	46
Third	9	5	14
Fourth	1	1	2
Totals	221	111	332

TABLE No. 12.

Showing the Alleged Duration of Attack prior to Admission.

Duration of Attack.	Male.	Female.	Total.
Under 1 week	21	11	32
From 1 " to 1 month	56	38	94
" 1 to 3 months	46	22	68
" 3 to 6 "	23	9	32
" 6 to 12 "	14	7	21
" 1 to 2 years	16	6	22
" 2 to 5 "	10	8	18
" 5 to 10 "	4	1	5
" 10 to 15 "	1	1	2
Over 15 years	7	..	7
Unknown	23	8	31
Totals	221	111	332

Table No. 13.

Showing Statistics of Heredity in those admitted during 1915.

Heredity.	Male.	Female.	Total.
Paternal branch	11	1	12
Maternal branch	9	9	18
Lateral branches	10	13	23
Heredity, inferred	16	8	24
Unknown	175	80	255
Totals	221	111	332

Table No. 14.

Showing the Alleged Exciting Cause of Attack of Insanity during those admitted during 1915.

Alleged Cause.	Male.	Female.	Total.
Alcohol	19	2	21
Arteriosclerosis	1	..	1
Childbirth	..	12	12
Destitution	..	1	1
Epilepsy	2	..	2
Hemiplegia	1	..	1
Heredity, ascertained	31	22	53
Heredity, inferred	16	8	24
Menopause	..	5	5
Old age	18	8	26
Overstudy	..	1	1
Seclusion	..	2	2
Syphilis	20	3	23
Toxic	2	..	2
Traumatic	2	..	2
Tuberculosis	..	2	2
Worry	5	7	12
Unknown	104	38	142
Totals	221	111	332

Table No. 15.

Showing the State of Bodily Health of those admitted during 1915.

Bodily Condition.	Male.	Female.	Totals.
In average bodily health	171	72	243
In reduced health	37	33	70
In greatly reduced health	13	6	19
Totals	221	111	332

TABLE No. 16.

Showing the Form of Mental Disorder in those admitted during 1915.

Form of Disorder.	Male.	Female.	Total.
Arteriosclerotic hallucinosis	1	..	1
Dementia præcox	71	16	87
Epileptic insanity	3	..	3
General paralysis	17	3	20
Hysteria	..	2	2
Idiocy and imbecility	11	6	17
Mania, depressive condition	52	49	101
Melancholia	6	4	10
Paranoia	15	7	22
Puerperal insanity	..	11	11
Senile dementia	20	9	29
Toxic hemiplegia	1	..	1
Toxic insanity	23	4	27
Traumatic insanity	1	..	1
Totals	221	111	332

TABLE No. 17A.

Showing the Number allowed out on Probation and Results during 1915, New Westminster.

Results.	Male.	Female.	Total.
Discharged recovered	15	26	41
" improved	6	8	14
" unimproved	5	6	11
Returned to Hospital	7	8	15
Still out at close of year	11	38	49
Totals	44	86	130

TABLE No. 17B.

Showing the Number allowed out on Probation and Results during 1915, Essondale.

Results.	Males only.
Discharged recovered	13
" improved	17
" unimproved	6
Returned to Hospital	10
Still out at close of the year	22
Total	68

TABLE NO. 18A.

Showing the Alleged Duration of Insanity prior to Admission in those discharged from New Westminster during 1915.

Duration of Insanity.	Male.	Female.	Total.
Less than 1 week	12	15	27
" 1 month	25	27	52
From 1 to 2 months	6	8	14
" 2 to 3 "	1	8	9
" 3 to 6 "	2	5	7
" 6 to 12 "	1	5	6
" 1 to 2 years	3	..	3
" 2 to 3 "	1	..	1
Over 3 years	4	3	7
Unknown	2	4	6
Totals	57	75	132

TABLE NO. 18B.

Showing the Alleged Duration of Insanity prior to Admission in those discharged during 1915, Essondale.

Duration of Insanity.	Males only.
Less than 1 week	9
" 1 month	8
From 1 to 2 months	5
" 2 " 3 "	2
" 3 " 6 "	2
" 6 " 12 "	1
" 1 " 2 years	2
Unknown	13
Total	42

TABLE No. 19A.

Showing the Length of Residence of those who were discharged during 1915 from New Westminster.

Length of Residence.	Discharged recovered.	Discharged improved.	Discharged unimproved.
Less than 1 month	12	2	3
From 1 to 2 months	18	6	5
" 2 " 3 "	6	3	3
" 3 " 4 "	11	6	2
" 4 " 5 "	4	4	1
" 5 " 6 "	3	3	2
" 6 " 9 "	10	3	3
" 9 " 12 "	2	3	1
" 1 " 2 years	3	4	2
" 2 " 3 "	1	2	1
" 3 " 4 "	..	1	1
" 4 " 5 "	..	1	..
Totals	70	38	24

TABLE No. 19B.

Showing the Length of Residence of those who were discharged during 1915 from Essondale.

Length of Residence.	Discharged recovered.	Discharged improved.	Discharged unimproved.
Less than 1 month	1	1	..
From 1 to 2 months	1	..	1
" 2 " 3 "	2	1	..
" 3 " 4 "	..	3	..
" 4 " 5 "	1	..	..
" 5 " 6 "	3	1	1
" 6 " 9 "	2	1	1
" 9 " 12 "	2	4	1
" 1 " 2 years	1	4	2
" 2 " 3 "	..	3	..
" 3 " 4 "	..	1	1
" 4 " 5 "	..	1	..
" 5 " 6 "	..	..	..
" 6 " 7 "	..	1	..
" 7 " 8 "	..	..	1
Over 8 years	..	..	..
Totals	13	21	8

Table No. 20a.

Record of Deaths for the Year 1915, New Westminster.

Register No.	Initials.	Sex.	Age.	Time in Hospital.			Certified Cause.
				Years.	Months.	Days.	
2874	E. J. K.	F.	22	3	9	19	General paralysis.
4026	S. B. Y.	M.	56	..	8	20	General paralysis.
4253	A. D. McA.	M.	35	..	2	14	General paralysis.
3326	M. J. S.	F.	41	2	6	27	Tubercular meningitis.
2650	S. McK.	F.	39	4	6	28	Pulmonary tuberculosis.
4212	W. M.	M.	63	..	3	28	Pernicious anæmia.
4303	R. J. B.	M.	84	..	..	18	Exhaustion of senile dementia.
3955	P. S.	M.	42	..	11	8	Exhaustion of manic depressive insanity.
4301	E. P.	F.	53	..	1	1	Gastro-enteritis.
4154	E. J.	M.	23	..	5	27	Œdema of lungs.
4215	B. C.	F.	11	..	4	7	Pulmonary tuberculosis.
3523	B. J.	M.	60	2	1	2	Exhaustion of Senile Dementia.
4300	E. M. K.	F.	50	..	1	27	Ludwig's angina.
3836	L. H. B.	M.	54	..	4	2	General paralysis.
4345	E. A. S.	M.	29	..	..	25	General paralysis.
4371	B. B.	M.	64	..	..	8	Cardiorenal disease.
1709	M. C. W.	F.	33	9	2	18	Pulmonary tuberculosis.
382	J. L.	M.	70	14	7	8	Carcinoma of stomach and liver.
4366	J. McN.	M.	70	..	..	30	Gastric hæmorrhage.
3581	M. A.	F.	20	2	1	15	Pulmonary tuberculosis.
4127	J. S.	M.	31	..	9	8	General paralysis.
4395	M. W.	M.	53	..	..	30	Arteriosclerosis with hemiplegia.
4435	R. G.	M.	42	..	..	6	Interstitial nephritis and anæmia.
4409	J. P.	M.	53	..	1	11	Exhaustion of senile dementia.
3833	M. A. K.	F.	49	1	6	27	Cerebral hæmorrhage.
4449	T. D. H.	M.	80	..	..	10	Exhaustion of senile dementia.
4277	R. H.	F.	24	..	6	2	Hæmorrhage of brain.
4425	G. F. W.	M.	50	..	1	18	General paralysis.
4381	M. D.	F.	40	..	3	5	Pulmonary tuberculosis
4338	M. M. R.	F.	4	..	4	13	Miliary tuberculosis.
3864	J. F.	M.	66	1	7	16	Chronic nephritis.
4444	E. W.	F.	50	..	2	1	Pneumonia and general peritonitis.
4280	S. E. W.	F.	38	..	7	3	Dysentery.
3788	J. C.	M.	25	1	10	3	Pulmonary tuberculosis.
3449	H. R.	M.	63	2	9	5	Exhaustion of senile dementia.
4153	J. B.	M.	40	..	11	27	General paralysis.
3497	C. B.	F.	20	2	7	18	Pulmonary tuberculosis.
3582	A. McP.	F.	55	2	5	14	Pulmonary tuberculosis.
4186	H. W. L.	M.	41	1	1	5	General paralysis.
4399	J. G.	M.	39	..	4	21	Status epilepticus.
4113	C. Y.	F.	55	1	1	20	General paralysis.
1757	W. H. B.	M.	66	9	4	2	Carcinoma of neck.
3652	J. J. W.	M.	30	2	4	14	Exhaustion and acute cardiac dilatation.
688	I. M.	F.	49	19	3	21	Exhaustion of terminal dementia.
4533	O. K.	F.	22	..	..	22	Exhaustion of puerperal insanity.
2992	E. G. S.	F.	59	4	1	24	Exhaustion of senile dementia.
4446	W. E. P.	M.	52	..	4	17	General paralysis.
4566	J. G.	M.	40	..	..	3	Pneumonia.
4494	C. A. B.	M.	65	..	3	4	Myocarditis.
437	W. M.	M.	43	24	1	3	Exhaustion of epileptic insanity.
2854	R. L.	M.	13	4	7	15	Exhaustion of imbecility.
3974	M. J.	M.	39	1	7	10	Amyloid disease.
1514	C. S.	M.	38	11	6	8	Gastro-enteritis.
3495	J. W.	M.	63	2	10	26	General paralysis.
4512	R. B.	M.	70	..	3	22	Exhaustion of senile dementia.
4357	J. H.	M.	40	.	8	7	General paralysis.
4505	F. H.	M.	68	..	4	8	General paralysis.
4228	T. D.	M.	74	1	1	21	Senile gangrene.
4368	A. A.	M.	32	..	8	20	General paralysis.
1292	E. F.	F.	51	13	2	17	Exhaustion of terminal dementia.

TABLE No. 20A—*Concluded.*

Register No.	Initials.	Sex.	Age.	Time in Hospital.			Certified Cause.
				Years.	Months.	Days.	
3290	R. W. B.	M.	42	3	6	9	General paralysis.
4619	J. K.	M.	42	..	..	11	General paralysis.
2528	J. E. C.	M.	32	5	11	16	Exhaustion of primary dementia.
4422	E. McG.	M.	72	..	7	28	Exhaustion of senile dementia.
2922	C. A. McG.	F.	42	4	7	..	General paralysis.
2057	C. C.	F.	78	8	..	22	Bronchial pneumonia.
4616	H. P.	M.	46	..	1	13	Cerebral hæmorrhage.

TABLE No. 20B.

Record of Deaths for the Year 1915, Essondale.

Register No.	Initials.	Sex.	Age.	Time in Hospital.			Certified Cause.
				Years.	Months.	Days.	
1717	J. R. J.	M.	49	8	11	24	Septicæmia.
3824	J. F. A.	M.	45	1	3	15	General paralysis.
2150	J. J.	M.	77	7	9	24	Myocarditis.
2230	J. I.	M.	48	6	8	..	Pulmonary tuberculosis.
3300	D. E. W.	M.	59	2	11	28	Bronchopneumonia.
4347	W. H.	M.	47	..	2	25	General paralysis.
4089	P. McK.	M.	36	..	11	4	General paralysis.
3447	J. D. C.	M.	46	2	7	12	General paralysis.
4174	D. R. P.	M.	37	..	9	26	Pulmonary tuberculosis.
3029	H. L.	M.	55	3	11	4	General paralysis.
2693	M. S. M.	M.	31	4	11	..	Peritonitis.
1441	M. C.	M.	45	11	3	..	Exposure (owing to escape).
1440	H. B. K.	M.	32	12	..	25	Myocarditis.
4087	E. H. S.	M.	75	1	3	6	Cardiorenal disease.
4062	C. H.	M.	45	1	4	3	General paralysis.
3224	E. O.	M.	33	3	6	27	Tubercular peritonitis.
3147	H. McL.	M.	73	3	10	..	Exhaustion from senile dementia.
3882	W. E.	M.	41	1	9	20	General paralysis.
4136	A. W. G.	M.	36	1	3	20	Pulmonary tuberculosis.
1029	F. J. R.	M.	40	15	5	12	Exhaustion from dementia præcox.
221	J. S.	M.	65	28	5	18	Exhaustion from terminal dementia.

TABLE No. 21A.

Work done by Patients during the Year 1915 at New Westminster.

Work done by Patients.	Days.
Auto-truck	357
Baker	868
Carpenter	919
Dining-room	3,759
Engineer	724
Farmer	7,637
Gardener	4,357
Gate	365
Kitchen	2,379
Laboratory	361
Laundry	5,053
Painter	807
Plasterer	146
Plumber	337
Porter	745
Scullery	1,084
Shoemaker	908
Tailor	303
Wardwork	21,631
Florist	351

TABLE No. 21B.

Work done by Patients in Various Departments at Essondale during 1915—

	Days.
Baker	616
Billiard-room	4,434
Botanical gardens	754
Carpenter	33
Dining-rooms	4,685
Engineer	1,366
Kitchen	1,795
Laundry	4,110
Scullery	1,442
Painter	1,009
Piggery	842
Plasterer	1,140
Plumber	274
Store	299
Surveyor	660
Ward-work	48,245

Work done by Patients under direction of Grounds Foreman during 1915—

Boundary stone fence	774
Clearing	1,579
Crusher	500
Cutting grass about roads, etc.	194
Chores	255
Drains and ditches	831
Grade	9,571
General	3,718
Harvesting for Colony Farm	880
Lawns	2,540
Nursery and garden	3,718
Teaming	115
Water (City of New Westminster)	933
Roads	660

TABLE No. 21B.—*Concluded.*

Work by Patients domiciled at Farm Cottage on Colony Farm during 1915—

	Days.
Dining-room	1,461
Engineer	614
Farm (including fields, roads, barns, etc.)	12,956
Garden	462
Kitchen	732
Plasterer	922
Tank-house	288
Teamster	368
Ward-work	1,892
Total	117,667

Average number working per day (26 days per month), 377 patients.

TABLE No. 22.

Articles made by Female Patients, 1915.

Aprons	170	Pillow-slips	361
Blouses	18	Sheets	371
Chemises	218	Skirts	28
Covers, table	24	Table-cloths	68
Curtains, pairs	60	Towels, bath	285
Dresses, gingham	106	" roller	225
" night	6	" huckaback	154
Doilies	12	" tea	114
Handkerchiefs	222	" tray	108
Neckties	342		

Articles made for Nurses.

Aprons	94	Cuffs (pairs)	59
Caps	51	Dresses	43

Mending done for Nurses.

Aprons	278	Dresses	224

Mending done for Female Patients.

Aprons	229	Pillow-slips	184
Blankets, canvas	38	Sheets	214
" wool	107	Skirts	727
Blouses	222	Spreads, bed	178
Chemises	507	Table-cloths	205
Drawers (pairs)	613	Towels, bath	128
Dresses, serge	346	" roller	86
" gingham	793	Ticks, bed	132
" night	484	Vests, under	563
Hose	5,328		

Mending done for Male Patients.

Aprons	64	Socks (pairs)	11,312
Blankets, canvas	15	Spreads, bed	197
" wool	217	Towels, bath	234
Drawers (pairs)	3,733	" roller	100
Pillow-slips	112	Ticks, bed	85
Sheets	278	Jumpers	26
Shirts, over	5,803	Overalls	6
" under	3,892	Sweaters	7

Tailor's Report for 1915.

Uniforms made for New Westminster—		
51 suits	$1,275 00	
42 pairs of pants	281 40	
		$1,556 40
Stock—		
8 coats	44 00	
19 vests	58 50	
99 pairs of pants	348 50	
27 suits	332 00	
2 camisoles	5 50	
11 bed-ticks	19 25	
		807 75
Repairs—		
220 coats	77 90	
83 vests	20 75	
586 pairs of pants	146 30	
2 canvas camisoles	1 00	
7 blankets	5 00	
Miscellaneous	15 00	
		265 95
Uniforms for Essondale—		
75 suits	1,875 00	
60 pairs of pants	402 00	
		2,277 00
Stock—		
120 coats	661 00	
50 vests	150 00	
255 pairs of pants	889 50	
16 suits	202 00	
Miscellaneous work	5 25	
		1,907 75
Repairs—		
826 coats	290 10	
486 vests	121 50	
2,046 pairs of pants	512 50	
General	68 10	
		992 20
Grand total		$7,807 05

Shoemaker's Report for 1915.

New work for house and stock—	
110½ pairs of men's boots	$771 50
254 " " slippers	571 50
24 " women's shoes	74 00
Repairs—	
203 pairs of men's boots	259 50
74 " " slippers	67 15
118 " women's shoes	86 60
Miscellaneous	18 00
Repairs for Essondale—	
621 pairs of men's boots	762 00
282 " " slippers	185 00
Total	$2,796 25

Fruit put up in 1915.

Currants, black	50 quarts.
" red	40 "
Crab-apples	70 "
Gooseberries	70 "
Plums	150 "
Prunes	65 "
Rhubarb	80 "
Raspberry	60 "
Strawberry	100 "
Total quantity of fruit put up	685 "

Pickles put up in 1915.

Tomato	280 quarts.

HOME FARM PRODUCE, 1915 (NEW WESTMINSTER).

Pork shipped alive to Essondale, 5,935 lb. @ 8½ cents	$ 504 47½
Pork dressed and supplied to City Institution, 18,840 lb. @ 13 cents	2,449 20
Increase in stock, 80 hogs, value	1,800 00
Total	$4,753 67½

POULTRY REPORT, 1915 (NEW WESTMINSTER).

Eggs supplied to institution	407 doz.	$142 45
Chickens, dressed	120	90 00
Ducks, dressed	54	54 00
Increase in young stock (live)	110	110 00
Total		$396 45

PRODUCE OF GARDEN, 1915 (NEW WESTMINSTER).

Vegetables.

Green onions	2,222 lb.	@ 2c.	$44 44
Horse-radish	45 "	" 10c.	4 50
Leeks	225 "	" 2c.	4 50
Asparagus	38 "	" 10c.	3 80
Cauliflower	119 heads	" 5c.	5 95
Radish	12 bunches	" 2c.	24
Spinach	1,475 lb.	" 10c.	147 50
Beans (string)	1,085 "	" 8c.	86 80
Lettuce	309 doz.	" 25c.	77 25
Onions (cooking)	6,495 lb.	" 2c.	129 90
Carrots	20,494 "	" 1c.	204 94
Potatoes (early)	4,746 "	" 1½c.	71 19
Cabbage	12,247 "	" 2c.	244 94
Peas	2,470 "	" 8c.	167 60
Beets	12,155 "	" 1c.	121 55
Corn	397 doz.	" 15c.	59 55
Parsnips	6,560 lb.	" 1c.	65 60
Celery	1,298 heads	" 5c.	64 90
Parsley	7 bunches	" 5c.	35
Turnips	240 lb.	" 1c.	2 40
Cucumbers	319	" 2c.	6 38
Tomatoes (green)	621 "	" 3c.	18 63
Estimated total value of vegetables			$1,532 91

Fruit.

Strawberries	1,331 lb.	@ 10c.	$133 10
Cherries	1,596 "	" 10c.	159 60
Gooseberries	165 "	" 10c.	16 50
Raspberries	786 "	" 10c.	78 60
Red currants	1,580 "	" 10c.	158 00
Black currants	60 "	" 12c.	7 20
Blackberries	21 "	" 8c.	1 68
Pears	2,855 "	" 2c.	57 10
Plums	1,090 "	" 2c.	21 80
Prunes	795 "	" 3c.	23 85
Apples	66,855 "	" 3c.	2,005 65
Ripe tomatoes	1,318 "	" 5c.	65 90
Pumpkins	615 "	" 1c.	6 15
Rhubarb	5,240 "	" 5c.	262 00
Shipped to Essondale—			
Apples	10,655 "	" 3c.	319 65
Cherries	70 "	" 10c.	7 00
Estimated total value of fruit			$3,323 78

Flowers.

Flowering plants	24,180 @ $15 per 1,000	$362 70
Perennials	350 " 5 100	17 50
Bedding-plants from cuttings	2,815 " 5 "	140 75
Bedding-plants	5,998 " 10 "	599 80
Sent to Essondale—		
Pink Antirrhinums	250 " 1½c.	3 75
Ageratums	500 " 1½c.	7 50
Lobelia	500 " 1½c.	7 50
Geraniums	1,200 " 10c.	120 00
Estimated total value of flowering plants		$1,259 50

Cut Flowers Grown under Glass.

Narcissus and daffodils	2,300 @ 3c.	$69 00
Tulips	2,000 " 3c.	60 00
Stevia (bunches)	50 " 25c.	12 50
Green "	20 " 25c.	5 00
Violets "	50 " 25c.	12 50
Carnations	850 " 3c.	25 50
Chrysanthemums	250 " 20c.	50 00
"	375 " 10c.	37 50
"	1,500 " 4c.	60 00
Poinsetias	75 " 10c.	7 50
Stevia (pots)	50 " 50c.	25 00
Heliotrope (pots)	50 " 50c.	25 00
Estimated total value of cut flowers		$389 50

PIGGERY REPORT.

Receipts.

To Stock on hand, January 1st, 1916	$124 00
Cost of feed	159 28
Cost of live hogs	603 50
Wages	450 00
Balance	607 40
	$1,944 18

Expenditure.

By Dressed pork supplied Hospital, 11,692½ lb. @ 13 c.	$1,520 03
Live hogs on hand, December 31st, 1915, 42 lb. @ 8½c	424 15
	$1,944 18

To profit, $607.40.

POULTRY REPORT.

Receipts.

To Feed by Colony Farm	$573 81
Grain-growers' Association	200 00
Shell	10 00
Eggs for setting	49 00
Wages	450 00
Balance	90 84
	$1,373 65

Expenditure.

By Eggs supplied Hospital, 1,757¾ doz. @ 40c.	$703 10
Dressed chicken	325 30
Live birds to New Westminster	72 00
" to Ladner	16 00
Increase stock on hand	257 25
	$1,373 65

To Profit, $90.84.

NURSERY REPORT, ESSONDALE, 1915.

Produce supplied to Essondale Institution and other Places.

Goods delivered to Essondale Institution, vegetables, etc.	$2,824 26
" on hand	1,993 45
Government Agent at Golden	66 25
G. W. Ponsford, Parksville	41 40
P. H. Sheffield	60 40
High School, New Westminster	216 10
Government Agent, Ashcroft	19 20
H. Burr	50 40
H. Edmonds	3 00
High School, New Westminster	489 35
Mental Hospital, Essondale	416 25
Prison Farm, Saanich	40 40
Colony Farm	157 80
Mental Hospital, Essondale	9 60
Women's Institute, Coquitlam	188 15
Mental Hospital, Essondale	948 35
Parliament Buildings	54 40
"	48 50
Mental Hospital, New Westminster	880 05
" residences, Essondale	82 90
" "	57 90
Appreciation of nursery stock	2,111 40
Total value of nursery produce for 1915	$10,759 51

GARDEN PRODUCE DELIVERED BY THE NURSERY DEPARTMENT TO MENTAL HOSPITAL, JANUARY 1ST TO DECEMBER 31ST, 1915.

Rhubarb	6,002 lb.	@	3½c.	$211 96
Lettuce	3,086 "	"	6c.	185 16
Onions (green)	745 "	"	4c.	29 80
" (dry)	414 "	"	2c.	8 28
Turnips	5,191 "	"	2c.	103 82
Carrots	8,535 "	"	2c.	170 70
Early potatoes	17,593 "	"	2c.	351 86
Broad beans	90 "	"	7c.	6 30
Cabbage (early)	294 "	"	5c.	147 05
" (late)	6,075 "	"	2c.	121 50
Spinach	696 "	"	4c.	27 84
Peas	2,590 "	"	8c.	207 20
Celery	2,485 heads	"	5c.	124 25
Beets	3,244 lb.	"	2c.	64 88
Cucumbers	145 "	"	3c.	4 35
Corn	6,567 "	"	2½c.	164 18
Marrows	767 "	"	4c.	30 68
Honey	381 "	"	20c.	76 20
Squash	298 "	"	4c.	11 92
String beans	1,776 "	"	8c.	142 08
Tomatoes (ripe)	5,933 "	"	5c.	246 65
" (green)	3,830 "	"	3c.	114 90
Parsnips	3,488 "	"	2c.	69 76
Currants	420 "	"	6c.	25 20
Gooseberries	369 "	"	10c.	3 69
Strawberries	1,585 "	"	10c.	158 50
Apples	411 "	"	3c.	12 33
Plums	161 "	"	2c.	3 22
Total				$2,824 26

VICTORIA, B.C.:

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1916.