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APPENDIX.

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REPORT

OF

**MEDICAL OFFICER OF HEALTH**

*for the year 1948.*

## Report of Medical Officer of Health for 1948.

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States Office Annexe, Albert Pier, Guernsey, 19th September, 1949.

SIR,

I have the honour to forward herewith the report of the Medical Officer of Health for the year 1948, with a request that you will be so good as to cause it to be published as an Appendix to a future Billet d'Etat, and that (say) 100 copies be struck off for distribution in the usual way.

I have the honour to be, Sir,

Your obedient Servant,

MARIE L. M. RANDALL,

Vice-President,

Board of Health.

The Bailiff,  
Royal Court House,  
Guernsey.

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Lukis House, Grange, Guernsey, 28th July, 1949.

GENTLEMEN,

I have the honour to present my fourteenth annual report as States Medical Officer of Health.

There was little infectious disease during the year but the Tuberculosis death rate was the highest since 1944 as must be expected with the present overcrowding.

If this disease is to be reduced in the future as it has been in the past, the problem of overcrowding must be dealt with and a medical officer appointed who can give a large part of his time to this work; the Leeds Hospital Board estimate that six full time chest physicians are required for a population of 200,000, i.e. one full time doctor for 33,333 people.

The infant mortality rate was the lowest on record, being only 19.5 per 1,000 live births.

The extension of water mains and sewers is still limited by difficulties of supplies.

I have honour to be, Gentlemen,

Your obedient Servant,

ROWAN REVELL, M.D.,

Medical Officer of Health.

The President and Members,  
Board of Health,  
Guernsey.



## STATISTICS.

TABLE I.

*Sunshine.*

Total for 1948 ... ..	2015.1 hours.
Average for 55 years ... ..	1882.4 „
Sunless days for 1948 ... ..	57.
Average ditto for 55 years ... ..	55.

*Rainfall.*

Total rainfall for 1948 ... ..	27.86 inches.
Average for 106 years ... ..	36.69 „
Average for 50 years ... ..	36.57 „
Rain days for 1948 ... ..	179.
Average ditto for 106 years ... ..	186.

*Temperature.*

Daily Mean Temperature, 1948 ... ..	51.5°F.
Average for 106 years ... ..	51.1
Average for 50 years ... ..	51.4
Mean daily range, 1948 ... ..	9.1
Average ditto ... ..	9.1

TABLE II.

YEAR.	Estimated population to middle of each year.	BIRTHS.		DEATHS.			DEATHS under one year of age.	
		Number.	Rate per 1,000.	Number.	Crude Rate per 1,000.	Adjusted Rate per 1,000.	Number.	Rate per 1,000 Births
1935 .....	41,160	777	18.9	518	12.6	8.8	46	59.2
1936 .....	41,950	708	16.9	545	12.9	9.0	42	59.3
1937 .....	42,410	827	19.5	575	13.6	9.5	45	53.2
1938 .....	43,015	851	19.8	524	12.2	8.5	37	43.4
1939 .....	43,820	744	16.9	559	12.7	8.9	33	44.3
1940—								
Jan.-June	43,000	400	18.6	334	14.0	—	21	52.5
July-Dec.	23,976	168	14.0	179	14.8	—	6	35.7
1941 .....	23,901	243	10.1	398	16.6	—	5	20.5
1942 .....	23,561	262	11.1	525	22.3	—	10	38.1
1943 .....	22,641	337	14.9	414	18.3	—	16	47.5
1944 .....	22,408	395	17.6	472	21.1	—	17	43.0
1945 .....	25,500	391	15.3	436	17.1	—	11	28.1
1946 .....	38,038	872	22.9	431	11.3	7.9	35	40.1
1947 .....	40,674	900	22.2	419	10.3	7.2	30	33.3
1948 .....	43,179	870	20.2	445	10.4	7.3	17	19.5

## APPENDIX.

TABLE III.

## PERCENTAGE OF DEATHS AT DIFFERENT AGE PERIODS.

		Under 1 year.		Years 1-5.		Years 5-15.		Years 15-25.		Years 25-65.		Over 65 years.
1900-1904	.....	24.0	...	9.0	...	4.0	...	5.0	...	27.0	...	31.0
1905-1909	.....	22.3	...	8.0	...	3.0	...	4.6	...	28.0	...	34.0
1910-1914	.....	20.2	...	7.2	...	3.3	...	3.8	...	27.8	...	37.7
1915-1919	.....	12.5	...	5.1	...	3.6	...	4.9	...	33.1	...	40.7
1920-1924	.....	11.5	...	3.6	...	3.7	...	5.5	...	30.4	...	45.3
1925-1929	.....	11.2	...	3.4	...	2.5	...	4.0	...	30.2	...	48.6
1930-1939	.....	7.4	...	2.3	...	2.1	...	2.4	...	30.0	...	55.8
1940—												
Jan.-June	.....	5.9	...	2.9	...	1.2	...	1.5	...	34.4	...	55.1
July-Dec.	.....	3.3	...	—	...	—	...	1.6	...	31.3	...	63.8
1941	.....	1.2	...	0.7	...	0.3	...	2.5	...	32.6	...	62.7
1942	.....	1.8	...	0.7	...	—	...	1.8	...	31.2	...	64.5
1943	.....	3.9	...	0.7	...	0.2	...	1.5	...	28.1	...	65.6
1944	.....	3.6	...	0.2	...	0.4	...	2.1	...	28.2	...	65.5
1945	.....	2.8	...	1.3	...	0.9	...	2.0	...	27.0	...	66.0
1946	.....	8.1	...	2.3	...	0.9	...	3.8	...	23.8	...	61.0
1947	.....	7.9	...	0.7	...	1.0	...	1.6	...	28.8	...	60.0
1948	.....	3.9	...	1.4	...	0.5	...	3.4	...	32.0	...	58.8

## POPULATION.

The mid-year population was estimated at 43,179.

## BIRTHS.

There were 870 live births, males 438, females 432, a rate of 20.2 per 1,000. Still-births numbered 21, a rate of 24.2 per 1,000 live births; illegitimate births were 44, a percentage of 5.1 of total live births.

## DEATHS.

There were 445 deaths, males 241, females 204, a crude rate of 10.4 per 1,000, adjusted death rate 7.3.

## MATERNAL MORTALITY.

There was one death from prolonged labour, a rate of 1.1 per 1,000 live births.

Under the Ordinance "Ayant rapport aux Sages Femmes," medical aid was sought in 119 cases.

Fees to medical practitioners .. .. £312 8s. 4d.



## INFANTILE MORTALITY.

There were 17 deaths under one year of age, giving a rate of 19.5 per 1,000 live births.

## MARRIAGES.

There were 375 marriages, a rate of 8.7 per 1,000.

## CANCER.

There were 77 deaths from Cancer, a rate of 1.8 per 1,000.

## TUBERCULOSIS.

There were 39 deaths from Tuberculosis, 34 pulmonary and 5 non-pulmonary, giving rates of 0.91, 0.79 and 0.12 per 1,000 respectively.

The attendance at the Chest Clinic were as follows :—

New cases of Tuberculosis	..	..	..	..	37
New cases not Tuberculosis	..	..	..	..	12
Attendances of old cases	..	..	..	..	184
X-rays taken	..	..	..	..	671
Notifications of Tuberculosis	..	..	..	..	45

## INFECTIOUS DISEASES.

There were little notifiable infectious diseases during the year ; notifications were as follows :—

Pulmonary Tuberculosis	..	..	..	..	45
Scarlet Fever	..	..	..	..	48
Poliomyelitis	..	..	..	..	2
Scabies	..	..	..	..	12
T.B. Meningitis	..	..	..	..	1

1,010 children were inoculated, 115 re-inoculated, against Diphtheria.

The following cases were admitted to King Edward Sanatorium :—

								<i>Deaths.</i>	
Pulmonary Tuberculosis	..	..	..	..	..	..	..	36	10
T.B. Glands	..	..	..	..	..	..	..	1	—
T.B. Meningitis	..	..	..	..	..	..	..	1	1
Meningitis	..	..	..	..	..	..	..	2	—
? K.L.B. Carrier	..	..	..	..	..	..	..	1	—
Tonsillitis	..	..	..	..	..	..	..	1	—
Septicæmia	..	..	..	..	..	..	..	1	—
Cæsarian Section	..	..	..	..	..	..	..	1	—
Measles & Pneumonia	..	..	..	..	..	..	..	3	—
Measles	..	..	..	..	..	..	..	2	—
Chicken Pox	..	..	..	..	..	..	..	2	—
Scarlet Fever	..	..	..	..	..	..	..	18	—
Erysipelas	..	..	..	..	..	..	..	1	—
Poliomyelitis	..	..	..	..	..	..	..	2	—
								—	—
								72	11
								—	—

### SANITATION.

Extensive sanitary work has been carried out in the Island during the year. There is an urgent need for the provision of more sewers.

### WATER SUPPLIES.

The States water supply was satisfactory but here again extensions as soon as possible are necessary.

### MILK SUPPLIES.

Very large numbers of samples have been taken and inspections made ; there has been improvement in the cleanliness of the milk supplies.

### HOUSING.

There is at present an extreme shortage of houses ; arrears are very difficult to overtake with an increasing population, due to immigration as well as natural increase.



*Infant Mortality. Neonatal Deaths. Still-births. Pulmonary Tuberculosis.*

	Rate per 1,000 live births	Rare per 1,000 live births	Rate per 1,000 live births	Rate per 1,000 live births
1937	53.2	—	37.8	0.74
1938	43.4	—	37.6	0.35
1939	44.3	—	43.2	0.62
1940	46.4	—	28.5	0.59
1941	20.5	—	20.8	1.0
1942	38.1	—	30.7	0.91
1943	47.5	—	15.1	0.90
1944	43.0	—	20.2	1.2
1945	28.1	—	23.0	0.47
1946	40.1	—	21.7	0.45
1947	33.3	—	18.9	0.54
1948	19.5	12.5	24.2	0.79

## 1948.

- I. Number of persons who on 1st January, 1948 were under treatment or observation for :—

Syphilis	..	..	..	..	..	..	..	29
Gonorrhea	..	..	..	..	..	..	..	32
Non-specific or non-venereal conditions				..	..	..	..	2
Total							..	63

2. Number of persons previously removed from register who returned for treatment due to relapse or re-infection :—

[illegible]



## 3. Number of fresh infections during the year :—

## (a) Contracted in the Island :—

Syphilis	..	..	..	..	..	..	..	..	5
Latent	..	..	..	..	..	..	..	..	1
Congenital	..	..	..	..	..	..	..	..	3
Gonorrhea	..	..	..	..	..	..	..	..	12
Non-specific or non-venereal	..	..	..	..	..	..	..	..	8

## (b) Contracted outside the Island :—

Syphilis Latent	..	..	..	..	..	..	..	..	4
Gonorrhea	..	..	..	..	..	..	..	..	12
Non-specific or non-venereal	..	..	..	..	..	..	..	..	15

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Total .. 60

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## 4. Number of persons ceasing to attend before completion of treatment excluding those transferred to other Clinics :—

Syphilis I	..	..	..	..	..	..	..	..	1
Latent	..	..	..	..	..	..	..	..	1
Congenital	..	..	..	..	..	..	..	..	—
Gonorrhea	..	..	..	..	..	..	..	..	8

## 5. Number of persons remaining under treatment or observation on 31st December, 1948,

Syphilis	..	..	..	..	..	..	..	..	32
Gonorrhea	..	..	..	..	..	..	..	..	29
Non-specific or non-venereal	..	..	..	..	..	..	..	..	4

## 6. Total attendances of all persons at Clinic during the year. 1,076

## 7. Number of cases admitted to Hospital during the year for :—

Gonorrhea	..	..	..	..	..	..	..	..	2
Reiter's Disease	..	..	..	..	..	..	..	..	1

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Total .. 3

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8.	Number of Lumbar Punctures performed	..	..	..	..	3
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9. Number of injections given for :—

## SYPHILIS.

Penicillin	..	..	..	..	..	..	..	144
Arsenic	..	..	..	..	..	..	..	278
Bismuth	..	..	..	..	..	..	..	344

## GONORRHEA and NON-SPECIFIED URETHRITIS.

Penicillin	..	..	..	..	..	..	..	80
Arsenic	..	..	..	..	..	..	..	2
Vaccine	..	..	..	..	..	..	..	15
Total								863

## OTHER TREATMENT.

Sulphonamides	..	..	..	..	..	..	..	22
Irrigations	..	..	..	..	..	..	..	141
Prostatic massage	..	..	..	..	..	..	..	57
Cases discharged during 1948.								
Observation or non-specific	..	..	..	..	..	..	..	23
Syphilis	..	..	..	..	..	..	..	1
Syphilis (Discharged to mainland Clinic)	..	..	..	..	..	..	..	1
Gonorrhea	..	..	..	..	..	..	..	10

Board of Health Laboratory, Princess Elizabeth Hospital, St. Martin's,  
Guernsey, 25th February, 1949.

*Board of Health Laboratory Service Annual Report for 1948.*

	1947	1948
1. Urethral, cervical and vaginal smears for Gonococci.	65	90
2. Urethral, crevical and vaginal cultures for Gonococci.	8	12
3. Sputum direct examination for T.B.	159	136
4. Sputum culture examination for T.B.	2	—
5. Sputum culture examination other organisms.	—	—
6. Eye smears.	25	14
Carried Forward	259	252



	Brought Forward	259	..	252
7. Eye cultures. .. ..	.. ..	20	..	14
8. Urine routine examinations. .. ..	.. ..	45	..	34
9. Urine deposit examinations. .. ..	.. ..	73	..	48
10. Urine smears bacteriology. .. ..	.. ..	48	..	7
11. Urine cultures. .. ..	.. ..	32	..	15
12. Urine bile derivatives. .. ..	.. ..	2	..	—
13. Urine urea estimations. .. ..	.. ..	2	..	25
14. Urine acetone derivatives .. ..	.. ..	13	..	—
15. Blood cultures. ... ..	.. ..	6	..	11
16. Blood grouping. .. ..	.. ..	56	..	19
17. Blood white cell count. .. ..	.. ..	37	..	45
18. Blood red cell count. .. ..	.. ..	82	..	132
19. Blood Hæmaglobin. .. ..	.. ..	93	..	105
20. Blood colour index. .. ..	.. ..	36	..	—
21. Blood differential count. .. ..	.. ..	49	..	62
22. Blood sedimentation rate. .. ..	.. ..	42	..	40
23. Blood for Anthrax. .. ..	.. ..	4	..	4
24. Blood for C. Welchii. .. ..	.. ..	1	..	1
25. Blood sugar estimations. .. ..	.. ..	27	..	56
26. Blood urea estimations. .. ..	.. ..	8	..	20
27. Blood cell volume. .. ..	.. ..	25	..	49
28. Blood M.C.H.C. .. ..	.. ..	23	..	47
29. Blood M.C.V. .. ..	.. ..	23	..	47
30. Blood widals. .. ..	.. ..	13	..	6
31. Blood other agglutinations. .. ..	.. ..	36	..	27
32. Blood for Parasites. .. ..	.. ..	10	..	9
33. Paul Bunnell Reaction. .. ..	.. ..	—	..	2
34. Coagulation time. .. ..	.. ..	—	..	6
35. Bleeding time. .. ..	.. ..	—	..	6
36. Platelet count. .. ..	.. ..	—	..	2
37. Reticulocyte count. .. ..	.. ..	—	..	1
38. Hanger test. .. ..	.. ..	—	..	2
39. Kahn standard test. .. ..	.. ..	—	..	107
40. Kahn Dye test. .. ..	.. ..	120	..	212
41. Wassermann reaction. .. ..	.. ..	—	..	93
42. Gonococcal fixation test. .. ..	.. ..	—	..	21
43. Throat smears for K.L.B. .. ..	.. ..	10	..	3
44. Throat cultures for K.L.B. .. ..	.. ..	39	..	41
45. Throat smears bacteriology. .. ..	.. ..	—	..	9
46. Throat cultures bacteriology. .. ..	.. ..	—	..	46
47. Semen fertility tests. .. ..	.. ..	6	..	11
48. Stool occult blood. .. ..	.. ..	31	..	3
49. Stool direct smears. .. ..	.. ..	22	..	15
50. Stool cultures .. ..	.. ..	14	..	15
51. Fractional Gastric Analysis .. ..	.. ..	4	..	3
			..	
	Carried Forward	1311	..	1673

	Brought Forward				1311	..	1673
52. Single Gastric Fluids .. .. .	..	..	..	..	3	..	—
53. Hair examinations for Fungi .. .. .	..	..	..	..	1	..	1
54. Skin examinations for Fungi .. .. .	..	..	..	..	—	..	—
55. Skin examinations for Parasites .. .. .	..	..	..	..	1	..	—
56. Pus direct smears .. .. .	..	..	..	..	15	..	11
57. Pus cultures .. .. .	..	..	..	..	10	..	7
58. Pus dark ground examination. .. .. .	..	..	..	..	1	..	—
59. <i>Cerebro-spinal fluid.</i>							
Cell count .. .. .	..	..	..	..	10	..	7
Direct Smear .. .. .	..	..	..	..	7	..	9
Chloride Estimation .. .. .	..	..	..	..	4	..	5
Globulin .. .. .	..	..	..	..	4	..	5
Sugar Estimation .. .. .	..	..	..	..	2	..	2
Culture .. .. .	..	..	..	..	11	..	5
Wassermann Reaction .. .. .	..	..	..	..	—	..	1
Total Protein .. .. .	..	..	..	..	—	..	1
60. <i>Pleural and other body fluids.</i>							
Culture .. .. .	..	..	..	..	5	..	3
Direct smears .. .. .	..	..	..	..	4	..	5
Cell count .. .. .	..	..	..	..	4	..	2
61. Coagulase test. .. .. .	..	..	..	..	1	..	—
62. Organism Agglutinations. .. .. .	..	..	..	..	5	..	—
63. Veterinary investigations. .. .. .	..	..	..	..	19	..	11
64. Ear, nose and throat smears .. .. .	..	..	..	..	1	..	—
65. Ear, nose and throat cultures .. .. .	..	..	..	..	1	..	—
66. Urea clearance test complete .. .. .	..	..	..	..	1	..	12
67. Autogenous Vaccine .. .. .	..	..	..	..	—	..	1
68. Food samples bacteriological .. .. .	..	..	..	..	24	..	2
69. <i>Milk tests for Mastitis.</i>							
Positive .. .. .	..	..	..	..	45	..	71
Negative .. .. .	..	..	..	..	158	..	164
Cell volume ratio .. .. .	..	..	..	..	—	..	26
Hotis test positive .. .. .	..	..	..	..	—	..	10
Hotis test negative .. .. .	..	..	..	..	—	..	48
70. Milk Reductase—Unsatisfactory .. .. .	..	..	..	..	44	..	43
—Satisfactory .. .. .	..	..	..	..	140	..	351
—Good .. .. .	..	..	..	..	309	..	800
71. <i>Ice cream grading.</i>							
Unsatisfactory .. .. .	..	..	..	..	53	..	24
Suspicious .. .. .	..	..	..	..	—	..	31
Good .. .. .	..	..	..	..	100	..	194
72. <i>Water samples B. Coli Presumptive.</i>							
Unsatisfactory .. .. .	..	..	..	..	3	..	101
Good .. .. .	..	..	..	..	16	..	377
Chlorine tests .. .. .	..	..	..	..	—	..	6
					2,313		4,009



The total number of investigations carried out during 1948 totalled 4009, an increase of 73% on the 1947 return, and comprised more than seventy different tests. The main increases and additions were :—

	1947	1948
1. Total blood counts. . . . .	258	376
2. Blood sugar estimations. . . . .	27	56
3. Blood urea estimations. . . . .	8	20
4. Blood Wassermann reactions. . . . .	—	93
5. Blood Kahn standard reactions. . . . .	—	107
6. Blood Kahn Dye reactions. . . . .	120	212
7. G.C.F.T. reactions. . . . .	—	21
8. Milk reductase tests. . . . .	493	1194
9. Ice cream reductase tests. . . . .	153	249
10. Water samples. . . . .	19	478

The total blood count figures comprises a number of new cases together with control laboratory checks on patients previously diagnosed and receiving specific treatment. One case of macrocytic anæmia with a fatal termination failed to respond to various hæmatinic preparations and showed the excessive immediate post-transfusion loss of 3-4% Hb. daily at R.B.C. levels between 2.5-3.0 million, following each transfusion. All the hæmatological findings supported a diagnosis of " Achrestic Anæmia "—a rare condition. A bone marrow biopsy may have supported this finding. Hæmotological findings in another female set, 60 with a long history of anæmia, suggested a tentative diagnosis of Aleukæmic Myelogenous Leukæmia, although clinical evidence to support this classification was absent.

A number of ante-natal blood samples have been tested at the Blood Group Reference Laboratory, London, for the Rhesus factors, as a precautionary measure.

Complete glucose tolerance curves on new cases to determine the severity and type, and single blood sugar estimations for the periodic check on diabetics have increased this year because of the fuller control established in treatment.

In October, preparations were completed for commencing the highly technical complement fixation tests and the Kahn standard agglutination reaction. Following four weeks trial controls with the Royal Institute of Public Health and Hygiene Laboratories, London, on identical samples and known positive and negative sera, our results were satisfactory with a 100% agreement.

Our technique was therefore considered to be of a standard high enough to merit its adoption, and these important tests are now a weekly routine procedure here. Besides providing earlier results, a very considerable financial saving is gained.

General laboratory examinations appertaining to the Venereal Diseases has shown a marked rise.



*Public Health Investigations.*

Bacteriological analysis of random milk samples during 1947, revealed a figure of 9.0% classified as unsatisfactory. Early in 1948, therefore, an extensive systematic programme of milk hygiene control was devised and pursued throughout the year when 1,435 milk samples were submitted to the laboratory; 1,200 for the Methylene Blue Reductase Test and 235 for evidence of mastitis. Practical and definite laboratory reports on the condition of mastitis are sometimes difficult to render, because of the wide variation in the virulence of the causative organism and the amount of material and time required for their isolation and identification. Neither is the absence in one particular sample of any pathogenic organism a safe criterion. In those instances of laboratory proved mastitis, the present work suggests that following specific treatment several weeks may be necessary before a clean bacteriological report can be given.

*Designation.**Methylene Blue Grading of Milk Samples.*

	1947	1948
Unsatisfactory	9.0%	3.7%
Satisfactory	28.4%	29.3%
Good	62.6%	67.0%

The reduction of unsatisfactory graded milks from 9.0 to 3.7% is gratifying to those who have been actively engaged on this control work. If in 1949, because of laboratory staff shortage, some curtailment of the present control becomes necessary, the present improvement cannot be sustained, or expected.

Milk Production of good keeping quality depends on four main criteria.

- A. Absence of mastitis in the herd.
- B. Strict general hygiene at the farm.
- C. Facilities for cooling the milk at source.
- D. Atmospheric temperatures.

This combination of circumstances makes the detection of bad hygienic methods as the sole cause of milk contamination very laborious, but comparative checkings are being taken whereby it may be possible by laboratory findings to reasonably eliminate the other factors. Acute, chronic and intermittent mastitis, however, are undoubtedly responsible for many unsatisfactory milks, and the good sense of the farmer who reports and seeks advice *immediately* any abnormal milking condition is noticed makes our task very much lighter, more effective, and often delays or prevents serious and permanent damage to his herd. Very few farming communities in England have the immediate scientific facilities which this laboratory service has initiated for the Guernsey farmers and public.



The ice cream bacteriological standard also showed a marked improvement this year.

<i>Designation.</i>	<i>Ice Cream grading by Methylene Blue Reduction.</i>	
	1947	1948
Unsatisfactory	35%	9%
Suspicious	NIL	13%
Good	65%	78%

Early this year several manufacturers, disturbed by the adverse reports returned during 1947 by this laboratory, requested our assistance to advise and detect sources of contamination in their products. In every instance it was demonstrated by selective samplings during the manufacturing process that ice cream of a satisfactory low bacterial content could be produced repeatedly, provided certain routine hygienic precautions were observed and that no deviation from the Ice Cream Regulations (Heat Treatment 1947) was permitted. The consistently good reports obtained by some manufacturers this year has provided conclusive proof that ice cream below Grade 2 category indicates some fault in the preparation or storage of this commodity.

A large number of water samples were submitted to the B. Coli Presumptive Test, and the mains supply proved very satisfactory and consistent throughout the year. The 101 unsatisfactory samples recorded were well water and other supplies.

#### CONCLUSION.

The Student Technician appointed in July is making very satisfactory progress.

The great increase this year in the number of investigations together with the facilities necessary to adequately support both Health Department and Medical Service requirements has allowed no time for organisation, administrative and other essential detail vital in promoting progressive improvement.

It is also necessary that the sensitivity of some test be improved to provide more conclusive detail, and some of our present bacteriological methods, restricted by the time factor, are only partially successful and our present bacteriological standard is not considered satisfactory when certain highly technical investigations are required. Also a small number of test animals to be kept near the laboratory, is an essential requirement when certain diseases are under investigation.

Therefore a request was made in November that a qualified assistant technician be appointed to help support the present responsibilities.

I would like to record my appreciation of those doctors who have found time to give detailed information when submitting specimens for analysis to the laboratory.

Yours faithfully,  
HENRY A. WILSON, A.I.M.L.T.,  
Laboratory Technician.

The Medical Officer of Health,  
Lukis House,  
Grange,  
Guernsey.



## RETURN OF BIRTHS AND DEATHS REGISTERED DURING 1948.

## BIRTHS.

PARISH LETTER.	A	B	C	D	E	F	G	H	I	K	Total.
	St. P. Port.	St. Sampson.	Vale.	Castel.	St. Saviour.	St. Pierre-du-Bois.	Torteval.	Forest.	St. Martin.	St. Andrew.	
Males .. ..	178	71	46	37	10	16	5	20	36	19 ..	438
Females .. ..	197	50	66	32	8	19	9	12	23	16 ..	432
Total .. ..	375	121	112	69	18	35	14	32	59	35 ..	870
Deaths under 1 year .. ..	5	1	1	9	—	1	—	—	—	— ..	17
Stillbirths .. ..	1	1	2	13	—	1	—	—	2	1 ..	21

## DEATHS.

No. 1. *Epidemic, Endemic, and Infectious Diseases.*

Measles .. ..	1	—	1	—	—	—	—	—	—	— ..	2
Syphilis .. ..	1	—	—	—	—	—	—	—	—	— ..	1
Septicæmia .. ..	—	—	—	—	—	—	—	—	1	— ..	1
Tuberculosis (All forms)											
Pulmonary .. ..	7	3	5	11	2	—	1	2	3	— ..	34
Meningitis .. ..	—	—	—	1	—	—	—	—	—	— ..	1
Peritonitis .. ..	—	—	—	1	—	—	—	—	—	— ..	1
Bone .. ..	—	—	1	—	—	—	—	—	—	— ..	1
Miliary .. ..	—	1	—	1	—	—	—	—	—	— ..	2

No. 2. *Cancer and other Tumours*Buccal Cavity  
and Pharynx

Oesophagus .. ..	1	—	—	—	1	—	—	—	—	— ..	2
Larynx .. ..	1	—	1	1	—	—	—	—	1	— ..	4
Neck .. ..	1	—	—	—	—	—	—	—	—	— ..	1
Carried forward	12	4	8	15	3	—	1	2	5	— ..	50



PARISH LETTER.	A	B	C	D	E	F	G	H	I	K	Total.
Brought forward	12	4	8	15	3	—	1	2	5	— ..	50

*No. 2 (Continued)*

## Alimentary

Stomach ..	5	3	2	5	—	—	—	1	—	— ..	16
Pancreas ..	1	1	—	—	—	—	1	—	—	1 ..	4
Colon .. ..	4	1	1	2	1	—	—	—	1	— ..	10
Liver .. ..	1	—	—	4	1	—	—	—	1	— ..	7
Gall Bladder ..	—	—	—	1	—	—	—	—	—	— ..	1
Kidney .. ..	1	—	—	—	—	—	—	—	—	— ..	1

## Respiratory

Bronchus ..	1	—	—	1	—	—	—	—	—	— ..	2
Lung .. ..	2	—	—	3	—	1	—	—	—	1 ..	7

## Genito Urinary

## System

Rectum ..	1	2	5	—	—	—	—	—	—	— ..	8
Cervix ..	—	—	1	—	—	—	—	—	—	— ..	1
Bladder ..	—	—	1	1	—	—	—	—	—	— ..	2
Prostate ..	2	—	—	—	—	1	—	—	—	— ..	3

## Other sites

Breast ..	4	1	—	—	—	—	—	—	—	— ..	5
Sarcoma of Abdomen ..	3	—	—	—	—	—	—	—	—	— ..	3

*No. 3. Rheumatism,  
Diseases of Nutri-  
tion and of En-  
docrine Glands  
and other General  
Diseases.*

## Rheumatoid

Arthritis ..	—	—	—	—	—	1	—	—	1	— ..	2
--------------	---	---	---	---	---	---	---	---	---	------	---

## Diabetes

Mellitus ..	2	1	1	1	—	—	—	—	—	— ..	5
-------------	---	---	---	---	---	---	---	---	---	------	---

*No. 4. Diseases of  
the Blood and  
blood forming  
organs.*

## Pernicious An-

æmia ..	1	—	—	—	—	—	1	—	—	— ..	2
---------	---	---	---	---	---	---	---	---	---	------	---

Splenic Anæmia ..	—	—	—	2	—	—	—	—	—	— ..	2
-------------------	---	---	---	---	---	---	---	---	---	------	---

Leukæmia ..	—	1	—	—	—	—	—	—	—	— ..	1
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Carried forward	40	14	19	35	5	3	3	3	8	2 ..	132
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## APPENDIX.

17

PARISH LETTER.	A	B	C	D	E	F	G	H	I	K	Total.
Brought forward	40	14	19	35	5	3	3	3	8	2 ..	132
<i>No. 5. Chronic Poisoning.</i>											
Chronic Alcoholism.	1	—	—	—	—	—	—	—	—	— ..	1
<i>No. 6. Diseases of the Nervous System and Sense Organs.</i>											
Encephalitis ..	—	—	—	1	—	—	—	—	—	— ..	1
Progressive Muscular Atrophy	—	—	—	1	—	—	—	—	—	— ..	1
Cerebral Hæmorrhage	9	2	1	9	—	2	—	—	2	— ..	25
Paraplegia ..	—	—	—	—	—	—	—	—	—	1 ..	1
Cerebral Thrombosis	3	3	1	3	—	—	—	—	3	1 ..	14
Cerebral Degeneration	1	—	—	—	—	—	—	—	—	— ..	1
Hemiplegia ..	—	—	—	—	1	—	—	—	—	— ..	1
Epilepsy ..	—	1	—	—	—	—	—	—	—	— ..	1
Mania .. ..	—	—	—	1	—	—	—	—	—	— ..	1
Dementia ..	2	—	—	1	—	—	—	—	1	— ..	4
Melancholia ..	—	—	—	—	—	—	—	—	1	— ..	1
Disseminated Sclerosis ..	1	—	—	—	—	—	—	—	—	— ..	1
Mitral Stenosis	—	1	—	—	1	—	—	—	—	— ..	2
Endocarditis ..	1	—	—	1	—	—	—	—	—	— ..	2
Acute Myocarditis .. ..	—	—	—	1	—	—	—	—	—	— ..	1
Chronic Myocarditis ..	1	—	—	—	—	—	—	—	—	— ..	1
<i>No. 7. Diseases of the Circulatory System.</i>											
Myocardial Degeneration	10	1	—	3	—	—	—	—	3	— ..	17
Myocarditis ..	10	—	1	1	1	—	—	—	—	1 ..	14
Angina Pectoris	1	1	—	—	—	—	—	—	—	— ..	2
Coronary Thrombosis	7	—	4	7	—	—	—	—	3	1 ..	22
Carried forward	87	23	26	64	8	5	3	3	21	6 ..	246



PARISH LETTER.	A	B	C	D	E	F	G	H	I	K	Total.
Brought forward	87	23	26	64	8	5	3	3	21	6 ..	246
<i>No. 7 (Continued)</i>											
Auricular											
Fibrillation	1	-	-	-	-	-	-	-	1	- ..	2
Morbis Cordis	5	1	-	4	-	-	-	1	3	1 ..	15
Aneurism ..	-	-	-	-	-	-	-	-	1	- ..	1
Senteric Throm-											
bosis .. ..	-	-	-	1	-	-	-	1	-	- ..	2
Arterio Sclerosis	6	3	3	3	1	1	-	-	-	- ..	17
Atheroma ..	2	-	-	-	-	-	-	-	-	- ..	2
Hyperpiesis ..	2	-	-	1	-	-	-	1	-	- ..	4
<i>No. 8. Diseases of the Respiratory System.</i>											
Acute Bronch-											
itis .. ..	2	-	-	-	-	1	-	-	-	- ..	3
Chronic Bron-											
chitis .. ..	4	-	1	-	1	-	-	-	-	1 ..	7
Bronchitis ..	-	2	-	-	-	-	-	-	-	- ..	2
Broncho-Pneu-											
monia ..	3	-	-	4	-	-	-	-	2	- ..	9
Lobar Pneu-											
monia ..	-	-	-	2	-	-	-	-	-	- ..	2
Pneumonia ..	1	-	-	3	-	-	-	-	-	- ..	4
Pleurisy ..	-	-	-	1	-	-	-	-	-	- ..	1
Bronchial											
Asthma ..	1	-	-	-	-	-	-	-	-	- ..	1
Asthma &											
Bronchitis	-	-	-	-	-	-	-	-	-	1 ..	1
Asthma .. ..	-	-	1	-	-	-	-	1	-	- ..	2
Acute Pulmon-											
ary Oedema	1	-	-	-	-	-	-	-	-	- ..	1
<i>No. 9. Diseases of the Digestive System.</i>											
Gastric Ulcer ..	-	-	-	3	-	-	-	-	1	- ..	4
Duodenal Ulcer	-	-	-	1	-	-	-	-	-	- ..	1
Gastro-Enteritis	-	-	-	2	-	-	-	-	-	- ..	2
Carried forward	115	29	31	89	10	7	3	7	29	9 ..	329

## APPENDIX.

19

PARISH LETTER.	A	B	C	D	E	F	G	H	I	K	Total.
Brought forward	115	29	31	89	10	7	3	7	29	9 ..	329
<i>No. 9 (Continued)</i>											
Intestinal											
Obstruction	-	-	-	2	-	-	-	-	-	- ..	2
Acute dilatation											
of Stomach	-	-	-	1	-	-	-	-	-	- ==	1
Cirrhosis of											
Liver	3	-	1	-	-	-	-	1	-	- ..	5
Hypertrophic											
Fibrosis of											
Liver ..	-	-	-	1	-	-	-	-	-	- ..	1
Cholecystitis ..	-	-	-	1	-	-	-	-	-	- ..	1
Cholangitis ..	-	-	-	-	1	-	-	-	-	- ..	1
<i>No. 10. Non-Venereal Diseases of the Genito Urinary System and Annexa.</i>											
Chronic Nephritis .. ..	1	-	-	1	-	-	-	-	-	- ..	2
Acute Pyelonephritis ..	1	-	-	-	-	-	-	-	-	- ..	1
Uræmia .. ..	2	-	-	1	1	-	-	-	-	- ..	4
Pyelonephritis	-	-	-	1	-	-	-	-	-	- ..	1
Enlarged Prostate .. ..	-	-	-	3	-	-	-	-	-	- ..	3
Adenoma of Prostate ..	-	-	1	-	-	-	-	-	-	- ..	1
<i>No. 11. Diseases of Pregnancy, Child-birth and the Puerperal State.</i>											
Prolonged Labour ..	-	-	-	1	-	-	-	-	-	- ..	1
<i>No. 12. Diseases of the skin and Cellular Tissue.</i>											
Dermatitis ..	-	-	-	1	-	-	-	-	-	- ..	1
<i>No. 14. Congenital Malformations.</i>											
Spina Befida ..	1	-	-	-	-	-	-	-	-	- ..	1
Congenital Heart ..	-	-	-	2	-	-	.	-	-	- ..	2
Carried forward	123	29	33	104	12	7	3	8	29	9 ..	357



PARISH LETTER.	A	B	C	D	E	F	G	H	I	K	Total.
Brought forward	123	29	33	104	12	7	3	8	29	9 ..	357
<i>No. 15. Diseases of Early Infancy.</i>											
Marasmus ..	-	-	-	1	-	-	-	-	-	- ..	1
Premature Birth	2	-	-	3	-	-	-	-	-	- ..	5
<i>No. 16. Old Age.</i>											
Old Age ..	39	4	7	5	-	-	2	2	4	- ..	63
<i>No. 17. Deaths from Violence.</i>											
Suicide .. ..	3	-	-	-	-	-	-	-	-	- ..	3
Accidental ..	2	3	-	5	-	1	-	2	2	- ..	15
<i>No. 18. Ill-Defined Diseases.</i>											
Malnutrition ..	1	-	-	-	-	-	-	-	-	- ..	1
Total .. ..	170	36	40	118	12	8	5	12	35	9 ..	445

CAUSES OF AND AGES AT DEATH OF DEATHS REGISTERED  
DURING 1948.

	Under						Over		
	1 yr.	1-2	2-5	5-15	15-25	25-65	65	Total	
<i>No. 1. Epidemic, Endemic and Infectious Diseases.—</i>									
Measles .. .. .	1	1	—	—	—	—	—	2	
Syphilis .. .. .	—	—	—	—	—	1	—	1	
Septicæmia .. ..	—	—	—	—	1	—	—	1	
Tuberculosis (All forms)									
Pulmonary .. ..	—	—	—	—	8	25	1	34	
Meningitis .. ..	—	—	—	—	1	—	—	1	
Peritonitis .. ..	—	—	—	—	—	1	—	1	
Bone .. .. .	—	—	—	—	—	—	1	1	
Miliary .. .. .	—	—	—	1	—	1	—	2	
<i>No. 2. Cancer and Other Tumours.</i>									
<i>Buccal cavity and Pharynx.</i>									
Oesophagus .. ..	—	—	—	—	—	—	2	2	
Larynx .. .. .	—	—	—	—	—	2	2	4	
Neck .. .. .	—	—	—	—	—	—	1	1	
<i>Alimentary.</i>									
Stomach .. .. .	—	—	—	—	—	4	12	16	
Pancreas .. .. .	—	—	—	—	—	1	3	4	
Colon .. .. .	—	—	—	—	—	7	3	10	
Liver .. .. .	—	—	—	—	—	1	6	7	
Gall Bladder .. ..	—	—	—	—	—	1	—	1	
Kidney .. .. .	—	—	1	—	—	—	—	1	
<i>Respiratory.</i>									
Bronchus .. .. .	—	—	—	—	—	2	—	2	
Lung .. .. .	—	—	—	—	—	5	2	7	
<i>Genito Urinary System.</i>									
Rectum .. .. .	—	—	—	—	—	4	4	8	
Cervix .. .. .	—	—	—	—	—	—	1	1	
Bladder .. .. .	—	—	—	—	—	1	1	2	
Prostate .. .. .	—	—	—	—	—	—	3	3	
<i>Other Sites.</i>									
Breast .. .. .	—	—	—	—	—	2	3	5	
Sarcoma of Abodmen	—	—	1	—	—	1	1	3	
Carried Forward	1	1	2	1	10	59	46	120	



	1 yr.	1-2	2-5	5-15	15-25	25-65	65	Total
Brought Forward	1	1	2	1	10	59	46	120
<i>No. 3. Rheumatism, Diseases of Nutrition and of Endocrine Glands and other General Diseases.</i>								
Rheumatoid Arthritis .. ..	-	-	-	-	-	1	1	2
Diabetes Mellitus ..	-	-	-	-	-	1	4	5
<i>No. 4. Diseases of the Blood and Blood-forming Organs.</i>								
Pernicious Anæmia	-	-	-	-	-	1	1	2
Splenic Anæmia	-	-	-	-	-	1	1	2
Leukæmia .. ..	-	-	-	-	-	1	-	1
<i>No. 5. Chronic Poisoning.</i>								
Chronic Alcoholism	-	-	-	-	-	1	-	1
<i>No. 6. Diseases of the Nervous System and Sense Organs.</i>								
Encephalitis .. ..	-	-	-	-	1	-	-	1
Progressive Muscular Atrophy .. ..	-	-	-	-	-	1	-	1
Cerebral Hæmorrhage .. ..	2	-	-	-	-	6	17	25
Paraplegia .. ..	-	-	-	-	-	-	1	1
Cerebral Thrombosis	-	-	-	-	-	2	12	14
Cerebral Degeneration .. ..	-	-	-	-	-	-	1	1
Hemiplegia .. ..	-	-	-	-	-	-	1	1
Epilepsy .. ..	-	-	-	-	-	1	-	1
Mania .. ..	-	-	-	-	-	-	1	1
Dementia .. ..	-	-	-	-	1	1	2	4
Melancholia .. ..	-	-	-	-	-	1	-	1
Disseminated Sclerosis .. ..	-	-	-	-	-	1	-	1
<i>No. 7. Diseases of the Circulatory System.</i>								
^ Mitral Stenosis ..	-	-	-	-	-	-	2	2
Carried Forward	3	1	2	1	12	78	90	187

## APPENDIX.

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	1 yr.	1-2	2-5	5-15	15-25	25-65	65	Total
Brought forward.	3	1	2	1	12	78	90	187
<i>No. 7 (Continued).</i>								
× Endocarditis .. ..	-	-	-	-	-	1	1	2
× Acute Myocarditis ..	-	-	-	-	-	1	-	1
× Chronic Myocarditis	-	-	-	-	-	-	1	1
× Myocardial degenera- tion .. ..	-	-	-	-	-	2	15	17
× Myocarditis .. ..	-	-	-	-	-	4	10	14
× Coronary Thrombosis ..	-	-	-	-	-	10	12	22
× Angina Pectoris ..	-	-	-	-	-	1	1	2
Mesenteric Thrombosis ..	-	-	-	-	-	-	2	2
× Auricular Fibrillation ..	-	-	-	-	-	-	2	2
× Morbus Cordis ..	-	-	-	-	1	3	11	15
Aneurism .. ..	-	-	-	-	-	1	-	1
Arterio Sclerosis ..	-	-	-	-	-	3	14	17
Atheroma .. ..	-	-	-	-	-	1	1	2
Hyperpiesis .. ..	-	-	-	-	-	2	2	4
<i>No. 8. Diseases of Respiratory System.</i>								
Acute Bronchitis ..	-	-	-	-	-	1	2	3
Chronic Bronchitis ..	-	-	-	-	-	-	7	7
Bronchitis .. ..	-	-	-	-	-	1	1	2
Broncho-Pneumonia	2	-	-	-	-	3	4	9
Lobar Pneumonia ..	-	-	-	-	-	-	2	2
Pneumonia .. ..	1	-	-	-	-	1	2	4
Pleurisy .. ..	-	-	-	-	-	-	1	1
Bronchial Asthma ..	-	-	-	-	-	1	-	1
Asthma & Bronchitis	-	-	-	-	-	-	1	1
Asthma .. ..	-	-	-	-	-	1	1	2
Acute Pulmonary Oedema .. ..	-	-	-	-	-	1	-	1
<i>No. 9. Diseases of the Digestive System.</i>								
Gastric Ulcer .. ..	-	-	-	-	-	4	-	4
Duodenal Ulcer ..	-	-	-	-	-	1	-	1
Gastro-Enteritis ..	1	1	-	-	-	-	-	2
Intestinal Obstruc- tion .. ..	-	-	-	-	-	-	2	2
Carried forward	7	2	2	1	13	121	185	331



	1 yr.	1-2	2-5	5-15	15-25	25-65	65	Total
Brought forward	7	2	2	1	13	121	185	333
<i>No. 9. (Continued)</i>								
Acute dilatation of Stomach .. ..	-	-	-	-	-	1	-	1
Cirrhosis of Liver ..	-	-	-	-	-	5	-	5
Hypertrophic fibrosis of liver .. ..	-	-	-	-	-	1	-	1
Cholecystitis .. ..	-	-	-	-	-	-	1	1
Cholangitis .. ..	-	-	-	-	-	1	-	1
<i>No. 10. Non-Venereal Diseases of the Genito-Urinary System and Annexa.</i>								
Chronic Nephritis ..	-	-	-	-	-	2	-	2
Acute Pyelo Nephritis .. ..	-	-	-	-	-	1	-	1
Uræmia .. ..	-	-	-	-	1	-	3	4
Pyelo Nephritis ..	-	-	-	-	-	1	-	1
Enlarged Prostate ..	-	-	-	-	-	-	3	3
Adenoma of Prostate	-	-	-	-	-	-	1	1
<i>No. 11. Diseases of Pregnancy, Childbirth and the Puerperal state ..</i>								
Prolonged Labour ..	1	-	-	-	-	-	-	1
<i>No. 12. Diseases of Skin and Cellular Tissue</i>								
Dermatitis .. ..	-	-	-	-	-	-	1	1
<i>No. 14. Congenital Malformations .. ..</i>								
Spina bifida .. ..	1	-	-	-	-	-	-	1
Congenital heart ..	1	-	-	-	-	1	-	2
<i>No. 15. Disease of Early Infancy ..</i>								
Marasmus .. ..	1	-	-	-	-	-	-	1
Carried forward ..	11	2	2	1	14	134	194	358

## APPENDIX.

25

	1 yr.	1-2	2-5	5-15	15-25	25-65	65	Total
Brought forward	11	2	2	1	14	134	194	358
<i>No. 15. (Continued)</i>								
Premature Birth ..	5	-	-	-	-	-	-	5
<i>No. 16. Old Age.</i>								
Old age .. ..	-	-	-	-	-	-	63	63
<i>No. 17. Deaths from Violence.</i>								
Suicide .. ..	-	-	-	-	-	3	-	3
Accidental .. ..	1	1	1	1	1	6	4	15
<i>No. 18. Ill-defined Diseases.</i>								
Malnutrition .. ..	-	-	-	-	-	1	-	1
Total.	17	3	3	2	15	14	261	445



## *Annual Report of the Chief Sanitary Inspector for the year 1948.*

SIR,

I beg to present my annual report on the sanitary circumstances of the Island for the year 1948.

Owing to shortage of staff some housing work has had to be left and more time given to milk, food and ice cream. The problem of shortage of materials has in many cases shown a marked improvement over 1947 but labour still constitutes a very serious problem and time extensions have had to be given in very many cases. The temporary prosperity of the Island has been reflected in the great number of houses which have received external decoration and repair.

A number of cases of mastitis have been traced through the vigilance of Inspector Edwards working in co-operation with Mr. Wilson at the Laboratory. These cases have entailed a greatly increased number of visits to farms and complete herd checks have been made in many instances. A meeting was arranged in December of this year at which representatives of the Veterinary Service, the States Dairy and this Department were present and a scheme was decided upon whereby it would be made possible to check all suspected cases of mastitis and make further checks after any affected animal had been treated. I look forward with confidence to the success of this scheme.

Regular inspections have been made of the weekly meat consignment arriving in the Island and due to crates being provided by the Railway Authorities a great improvement in transport has been effected.

### HOUSING AND SANITARY INSPECTIONS.

Housing Inspections (routine)	..	..	..	..	..	..	213
Requests from Housing Authority & Engineer's Dept.	..	..	..	..	..	..	206
States Houses only	..	..	..	..	..	..	51
Houses inspected in connection with Notifiable Infectious Diseases							56
Houses inspected in connection with Sanitation and Water only	..	..	..	..	..	..	405
Houses inspected in connection with water supplies only	..	..	..	..	..	..	100
Re-inspections	..	..	..	..	..	..	322
Sanitary defects remedied and work carried out	..	..	..	..	..	..	85
Drains tested and/or exposed	..	..	..	..	..	..	78
Cesspits tested and where defective repaired	..	..	..	..	..	..	32
W.C.'s and drains unchoked and left in working order	..	..	..	..	..	..	20
Complaints investigated and abated	..	..	..	..	..	..	99
Statutory notices served under "La Santé Publique"	..	..	..	..	..	..	388
Repairs carried out by verbal agreement	..	..	..	..	..	..	47
Public premises and Schools inspected	..	..	..	..	..	..	43
Number of interviews during the year	..	..	..	..	..	..	821
Number of appointments during year	..	..	..	..	..	..	821
Refuse dumps inspected	..	..	..	..	..	..	27



## FARMS AND MILK.

Routine visits to farms .. .. .	152
Inspections of Milk Retailers, Utensils and Vehicles .. .. .	604
Farmers interviewed with regard to unsatisfactory stables, utensils, and/or milk .. .. .	88
Inspections at States Dairy and Road collecting Depots .. .. .	76
Farms visited for check samples from cows .. .. .	83
Number of cases of Mastitis found .. .. .	22

## SAMPLES ANALYSED DURING 1948.

Number of official samples of whole milk .. .. .	27
Number of unofficial samples of whole milk .. .. .	772
Samples for Fat and Reductase Tests .. .. .	772
Samples for Reductase Tests only .. .. .	437
Appeal-to-the-cow samples taken at farms .. .. .	252
Check samples taken at Dairy and in transit .. .. .	108

## MONTHLY AVERAGE OF FAT AND NON-FATTY SOLIDS.

<i>Month</i>	<i>Fat</i>		<i>Solids not fat</i>	
	<i>a.m.</i>	<i>p.m.</i>	<i>a.m.</i>	<i>p.m.</i>
January .. ..	4.03%	5.16%	8.81%	8.97%
February .. ..	3.91%	5.27%	8.91%	9.01%
March .. ..	3.86%	5.19%	8.92%	9.04%
April .. ..	3.75%	5.01%	8.83%	9.15%
May .. ..	3.72%	5.06%	8.93%	9.12%
June .. ..	3.6%	5.1%	9.10%	9.16%
July .. ..	3.57%	5.28%	8.83%	8.85%
August .. ..	3.7%	5.65%	8.84%	8.93%
September .. ..	3.9%	5.5%	8.73%	8.83%
October .. ..	3.96%	5.2%	8.74%	8.92%
November .. ..	4.0%	5.2%	8.92%	9.55%
December .. ..	4.0%	5.1%	9.00%	9.04%
Average fat content for the year .. .. .	a.m.	.. ..	3.78%	
Average non fatty solids .. .. .	a.m.	.. ..	8.88%	
Average fat content for the year .. .. .	p.m.	.. ..	5.21%	
Average non fatty solids .. .. .	p.m.	.. ..	9.05%	
Percentage of unsatisfactory milk i.e. decolourised in three hours or under .. .. .				7.8%



## COMPARISON OF FAT AND NON-FATTY SOLIDS FOR YEAR 1940-1948.

*Morning Milk Only.*

<i>Year.</i>					<i>Fat content</i>	<i>Non-fatty solids.</i>
1940	..	..	..	..	4.24	8.48
1941	..	..	..	..	4.05	8.62
1942	..	..	..	..	4.05	8.60
1943	..	..	..	..	4.07	8.72
1944	..	..	..	..	4.11	8.70
1945	..	..	..	..	4. 0	8.73
1946	..	..	..	..	4.46	8.70
1947	..	..	..	..	4.02	8.78
1948	..	..	..	..	3.78	8.88

## ICE CREAM 1948.

Visits to Ice Cream Manufacturers and Retailers	..	..	..	..	214
Number of samples taken	..	..	..	..	245
Number of samples falling into Grade 1	..	..	..	..	105
Number of samples falling into Grade 2	..	..	..	..	87
Number of samples falling into Grade 3	..	..	..	..	26
Number of samples falling into Grade 4	..	..	..	..	27

## MILK.

I regret to place on record that the fat content of a.m. milk was lower during 1948 than during the war years although the percentage of 3.78 is still considerably above the English legal standard of 3%. The percentage of dirty milk, 7.8, shows an improvement over the 1947 figure which was 16.6. The total number of samples examined during the year was 1,236.

## ICE CREAM.

Grading and quality of this commodity has shewn a considerable improvement over 1947 samples. Manufacturers have purchased modern equipment and agree that in spite of the cost the expenditure has been justified. As will be seen in the table out of one hundred and ninety seven samples taken from manufacturers 49% were Grade I and 36% Grade II; Grades III and IV 11% and 8% respectively. A special refrigerated sampling cabinet is used for the collection of samples thereby ensuring that the samples are delivered to the Laboratory as taken from the manufacturers. Great credit is reflected on the Food Inspector for the improvement here mentioned.



## FOODS OTHER THAN MILK.

Weekly inspections have been made at the Meat, Vegetable and Fish Markets, also at various shops and bakehouses. Rationed meat has also been regularly inspected and the complete table is as follows :—

Meat Market	..	..	..	..	..	..	..	52
Fish Market	..	..	..	..	..	..	..	98
Vegetable Market	..	..	..	..	..	..	..	98
Food retailers' premises	..	..	..	..	..	..	..	164
Bakehouses	..	..	..	..	..	..	..	96

As already mentioned in my introductory remarks the meat consignments have shown a very marked improvement. Some of the large wholesale firms are well equipped for the storing of bacon and others are not of the standard required.

*Fruit Canning.*

An application was made during the year for permission to install a small fruit canning apparatus. Temporary premises were approved and as the business increased better accommodation was found with proper drainage connected to the sewer. Fruit and Vegetables of good quality are being produced and the small factory is very well conducted.

The following samples of foods and drink were submitted for analysis and found satisfactory :—

1 sample of Milk (Prepared from Milk Powder).	..	..	..	..	1
1 sample of Condensed Milk	..	..	..	..	1
Samples of Confectionery	..	..	..	..	12
Samples of Ice Cream	..	..	..	..	13
Samples of Pork Brawn	..	..	..	..	2

Food examined and condemned as unfit for human consumption :—

2,050 tins Fish	4 jars Mushrooms
164 tins Fruit	21 tins Baked Beans
114 tins Meats	3,764 tins Milk
22 tins Marmalade	4 tins Jam
43 tins Fruit Juice	10 tins Spaghetti
4 tins Puddings	25 tins Irish Stew
9 jars Pickles	1 tin Choc Spread
13 tins Ghurkins	1 jar Gravy Browning
1 tin Syrup	4 tins Apple Purée
1,464 tins Vegetables	15 crates Vegetables
4 lbs Vegetables	30½ lbs Butter
1 tin Macaroni	54 lbs Cheese
140 lbs Flour	109 boxes Cheese
536 lbs Meat	184 lbs 7 ozs Bacon



## CAFÉS AND TEA ROOMS.

All applications for catering licences have been notified from the Food Office and inspections made. A number of new fish and chip shops have been opened during the year; all are well equipped. Cafés and Tea rooms have again been inspected and owners have co-operated with any suggestions made from our staff.

## REFUSE DUMPS.

The refuse dump at Lucksall is rapidly filling and in spite of an occasional complaint has not caused any serious nuisance and all will share the view that a very useful purpose has been served. Rat infestation has been on a very small scale and has been always under control.

The dump at Vazon is now being used and should serve for a considerable time. Provided that the maximum amount of thought and care are used on the surface fillings a very delightful verge can be obtained and in keeping with the dunes.

## WATER SUPPLY.

As in previous years the quality of water provided by the States Water Board has been good but extensions are badly needed. The Baubigny district formed by a triangle of Les Gigands, Les Effards, La Vieille Rue and comprising about thirty six houses, is still not provided with a wholesome water supply and all wells in this area are in a greater or lesser degree contaminated. The material and labour problem is the sole reason for this extension not having been made but it is imperative that it be done in the very near future as some newly built bungalows have no supplies whatever. Samples submitted for analysis during the year were :—

Weekly routine samples from States Water Mains	..	..	..	227
Private supplies	..	..	..	108
Alderney Water Supply	..	..	..	2
Sark Water Supply	..	..	..	1
Public Pumps and Fountains	..	..	..	Nil.

## RAT DESTRUCTION, 1948.

The year under review has been a busy one for the Rodent Operators and, due to the regular baiting and gassing done by them the amount of food destroyed by rats has been negligible. A number of properties have been cleared and fresh infestations reported.

Gategny Esplanade continues to be a badly infested area in spite of constant treatment. This can be readily understood as the locality is honey-combed with rat holes beneath road level and the rats feed to a large extent on the beach.



Regular treatment has been given at a number of tips, viz: Lucksall, Grand Havre, Bordeaux, and Vazon, also to various States owned properties.

Several visits have been made in Herm during the year and the Operators report progress but stress that continuous treatment is given.

The accompanying table gives an indication of work done during the year.

Number of properties visited during 1948	..	..	..	..	2,291
Number of visits made during 1948	..	..	..	..	2,785
Number of new infestations during 1948	..	..	..	..	195
Number of properties cleared during 1948	..	..	..	..	72

Number of properties cleared are as follows :—

St. Peter Port	..	..	..	19	St. Peter's	..	..	..	3
St. Sampson's	..	..	..	9	Torteval	..	..	..	1
Vale	..	..	..	22	Forest	..	..	..	2
Castel	..	..	..	5	St. Martin's	..	..	..	6
St. Saviour's	..	..	..	2	St. Andrew's	..	..	..	2

#### DISINFECTION AND AMBULANCE SERVICE.

66 patients were removed during the year by the King Edward Sanatorium Ambulance and a number were taken for X-rays in the Morris Van.

The following disinfections were done during the year :—

Scabies as notified by General Practitioners	..	..	..	..	..	..	12
Town Hospital	..	..	..	..	..	..	28
Tuberculosis	..	..	..	..	..	..	53
Poliomyelitis	..	..	..	..	..	..	2
T.B. Meningitis	..	..	..	..	..	..	1
Scarlet Fever	..	..	..	..	..	..	48
Number of articles disinfected	..	..	..	..	..	..	3,021
Number of houses disinfected	..	..	..	..	..	..	76

I am, Sir,

Your obedient Servant,

G. AUSTIN,

Chief Sanitary Inspector.

The Medical Officer of Health,  
Lukis House,  
Guernsey.



