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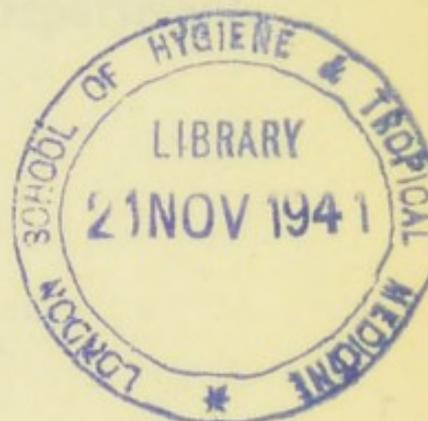
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COUNTY COUNCIL OF DUNBARTON.



# ANNUAL REPORTS

BY

THOMAS LAUDER THOMSON, M.D., D.P.H.,  
MEDICAL OFFICER OF HEALTH,

AND

THE COUNTY SANITARY INSPECTORS

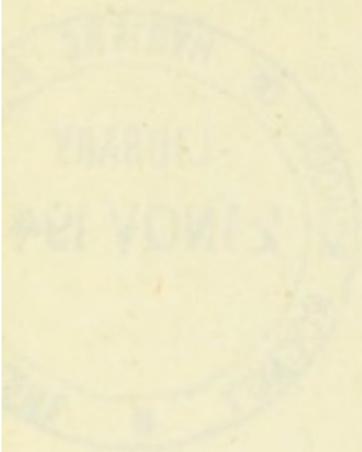
FOR

THE YEAR 1939

GLASGOW :

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THE YEAR 1933

# County of Dunbarton : Public Health Department.

## LIST OF STAFF.

### *County Medical Officer.*

THOMAS LAUDER THOMSON, M.D., D.P.H.

### *Assistant County Medical Officers.*

SAMUEL HARVEY, M.B., Ch.B., D.P.H., M.R.C.P.(Ed.).

JAMES P. M. M'CAREY, M.B., Ch.B., D.P.H.

Commenced duty 10th July, 1939

### *County Sanitary Inspectors.*

(Eastern Area.)

JOHN D. M'KENDRICK,

(Western Area.)

THOMAS ALLAN.

### *Assistant Sanitary Inspectors.*

WILLIAM ARTHUR.

A. LAWSON RIDDELL.

JOHN DUNN, jun.

JOSEPH C. MORTON.

<sup>1</sup>JOHN D. THOMSON.

<sup>2</sup>JAMES G. WATSON, jun.

<sup>1</sup> Commenced duty 17th April, 1939.

<sup>2</sup> Commenced duty on Clerical Staff 1st April, 1939; Assistant Sanitary Inspector from 16th December, 1939.

WILLIAM B. SAMSON.

NEIL MACDONALD.

THOMAS MUNN.

THOMAS F. M'GLASHAN.

<sup>3</sup>DUGALD STEVENSON.

<sup>4</sup>JOHN CRAIG.

<sup>3</sup> Commenced 3rd March, 1939; Resigned 20th October, 1939.

Commenced 28th February, 1939.

### *County Engineer.*

D. T. H. MACLENNAN, A.M.I.C.E.

### *Assistant Engineers.*

MALCOLM ROSS.

JOHN NICOLSON.

J. C. MACKENZIE.

IAN M. MACLEAN.

(a) JAMES CAMPBELL.

(b) ANDREW SINCLAIR.

JOHN C. RAMSAY.

WILLIAM MERRILES.

S. G. MACKENZIE.

<sup>1</sup> WILLIAM B. MACPHEDRAN.

(c) JOHN DARLING.

† JOHN CAMERON (Apprentice).

<sup>2</sup> DAVID M'AULAY "

PETER MACFARLANE "

<sup>3</sup> WILLIAM STORRIE (Apprentice).

JAMES S. ARCHIBALD "

A. W. STEVENSON "

H. S. MACDONALD "

(a) Resigned 1st July, 1939.

(b) Resigned 15th September, 1939.

(c) Commenced 21st February, 1938; Resigned 15th February, 1939.

† Promoted Junior Assistant 20th November, 1939.

<sup>1</sup> Military Service 11th October, 1939.

<sup>2</sup> " 2nd September, 1939.

<sup>3</sup> " 16th October, 1939.

### *Inspector of Works.*

ALLAN SCOTT.

### *Health Visitors.*

(Eastern Area.)

CATHERINE GAVIN.

J. CLARA MACBETH.

ISABELLA M'CRIRICK.

<sup>1</sup> CHRISTINA S. L. KING.

LILY PRIESTNER. \*(a)

(Western Area.)

MARION MACDONALD. \*(a)

RACHEL SMITH.

CHRISTINA J. MAITLAND.

ISA. R. MACKENZIE.

RACHEL D. COLVILLE. \*(b)

\* District Nurses: employed part time.

(a) Burgh of Milngavie. (b) Burgh of Cove and Kilcreggan.

<sup>1</sup> Commenced as Temporary Nurse 16th April, 1938; Appointed permanently 16th June, 1939.

LIST OF STAFF—*Continued.**Clerical Staff.*

GEORGE S. BROWNE (Chief Clerk in Central Office).

JOSEPH BAIRD (Chief Clerk at 24 George Square).

ELIZABETH MUIR (Chief Clerk in Alexandria Office)

AGNES M'M. KENNEDY.<sup>1</sup>CHRISTINA M'GLASHAN.<sup>1</sup>MARGOT M'KEAN.<sup>1</sup>JAMES CAMPBELL.<sup>1</sup>BELLA AIRTH.<sup>1</sup>\* JOHN MORRISON.<sup>1</sup>(a) RICHARD M'DIARMID.<sup>1</sup>(b) ALEXANDER BICKERTON.<sup>1</sup>(c) ANNIE HALL.<sup>1</sup>(d) LOUIS M'GOUGAN.<sup>1</sup>(e) ISABEL STALKER.<sup>1</sup>(f) TOM SMITH.<sup>1</sup>(g) WILLIAM EWING.<sup>1</sup>(h) JAMES R. DONALDSON.<sup>1</sup>ANNIE GRANT.<sup>2</sup>SARA CORNOCK.<sup>2</sup>SHEILA CAMPBELL.<sup>2</sup>LILY S. DUNCAN.<sup>2</sup>CHRISTINE M'GREGOR.<sup>2</sup>

\* Military Service 23rd August, 1939.

(a) Resigned 24th May, 1939.

(b) Commenced 16th March; Resigned  
30th September, 1939.

(c) Commenced 16th March, 1939.

(d) Commenced 16th May, 1939.

(e) Commenced 13th September, 1939.

(f) Commenced 14th September, 1939.

(g) Commenced 2nd October, 1939.

(h) Commenced 20th November, 1939  
(Temporary).<sup>1</sup> Clerks in Central Office.<sup>2</sup> Clerks in Public Health Office, Glasgow.<sup>3</sup> Clerks in Public Health Office, Alexandria.*County Analysts.*

Messrs. TATLOCK &amp; THOMSON, Bath Street, Glasgow.

The Medical Officer and Assistant Medical Officers are also Tuberculosis Officer and Assistant Tuberculosis Officers respectively.

The School Medical Officers (Dr. M. M. L. CATHELS and Dr. A. D. COWAN) have been appointed Assistant Medical Officers of Health for purposes of administration.

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*To the Department of Health for Scotland and  
the County Council of the County of  
Dunbarton.*

LADIES AND GENTLEMEN,

I herewith submit the Annual Report on the Health and Sanitary Conditions of the County for the year 1939.

The compilation of this Report under war conditions has not been an easy matter.

The Health Statistics for the County are satisfactory, the Infantile Mortality Rate remaining at the low figure of 49 per 1000 live births. There was a slight fall in the number of deaths from infectious diseases, including Tuberculosis.

Dr. James P. M. M'Carey was appointed Assistant County Medical Officer in July, 1939, to take over the Tuberculosis work so that Dr. Harvey could devote most of his time to the Air-raid Casualty Services.

I am, Ladies and Gentlemen,

Your obedient Servant,

THOMAS LAUDER THOMSON,  
*Medical Officer of Health.*

HEALTH OFFICE,  
88 COLLEGE STREET, DUMBARTON.



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# MEDICAL OFFICER'S REPORT

FOR YEAR 1939.

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## VITAL STATISTICS.

POPULATION.—The usual table showing distribution of population is omitted this year. The Registrar-General estimated that the population at the middle of 1939 was 86,569, an increase of 1452 over the previous year. The details are: Landward, 57,309; Kirkintilloch, 13,256; Helensburgh, 8751; Milngavie, 6404; Cove and Kilcreggan, 849.

BIRTHS AND BIRTH-RATES.—The total number of live births registered during 1939 was 1107, 46 less than last year. 78 of these births were transferred out, but on the other hand, 351 were transferred in, giving a total of 1380 as against 1367 in 1938. Still-births were registered for the first time during 1939, the total number being 41, of which 2 were transferred out and 33 transferred in, making a County total of 72. 70 of the live births were illegitimate. The corrected birth-rate (live births) was 15·9 per 1000 of the population as against 16·1 in 1938. The still-birth rate was 5 per 1000 of the population.

DEATHS AND DEATH-RATES.—The number of deaths registered in the County was 975, as against 834 in 1938. 183 deaths were transferred out but 279 were transferred in; the corrected figure was therefore 1071 as against 972 in the previous year. The death-rate was 12·4 per 1000 of the population as against 11·4 in 1938. Of the 1071 deaths recorded, 546 were males and 525 females. 12 persons died at the age of 90 or over, of whom 1 was a male and 11 females. The oldest was a woman aged 97. 59 persons, 18 males and 41 females, had attained the age of 85 or over at the time of death.

INFANTILE MORTALITY.—The total number of deaths of children under one year was 67, exactly the same figure as last year, and the rate was 49 per 1000 live births, which is the same as in 1938. This figure was a record.

DEATHS FROM INFECTIOUS DISEASE.—The following deaths from infectious disease were recorded during the year: Enteric fever, 1; measles, 1; scarlet fever, 1; whooping cough, 2; diphtheria, 6; cerebro-spinal meningitis, 2; being 2 less than last year.

DEATHS FROM TUBERCULOSIS.—During 1939, 32 deaths were due to one or other form of tuberculosis. These included 24 cases of tuberculosis of the lungs, giving a death-rate for this type of disease of 0·28 per 1000 as against 0·36 in 1938. Deaths from other forms of tuberculosis numbered 8, giving a death-rate of 0·09 as against 0·11 per 1000 in 1938. The death-rate for all forms of tuberculosis was 0·37 per 1000 as against 0·47 in the previous year.

The following table gives particulars as to the period elapsing between notification and death, and between discharge from an institution and death, of all the above-mentioned cases:—

	Pulmonary.		Non-Pulmonary.	
	Male.	Female.	Male.	Female.
Not notified or notified only at or after death, ... ..	1	5	1	5
Notified less than 1 month before death,	3	1	—	1
„ from 1 to 3 months before death,	3	1	—	—
„ „ 3 to 6 „ „ „	1	1	—	1
„ „ 6 to 12 „ „ „	1	—	—	—
„ „ 1 to 2 years, „ „	1	—	—	—
„ over 2 years „ „	5	1	—	—
Totals, ...	15	9	1	7
Number who died within 28 days after discharge from an Institution, ...	—	—	—	—
Number who died more than 28 days after discharge from an Institution, ...	5	1	—	—

COUNTY OF DUNBARTON (INCLUDING SMALL BURGHS).

TABLE I.—VITAL STATISTICS COMPILED FROM INFORMATION SUPPLIED BY THE REGISTRAR GENERAL.

	Number Registered in District.	Transfers.		Corrected Number.			Rate per 1000 of Estimated Population (Both Sexes).
		Out.	In.	Both Sexes.	Males.	Females.	
Births (including Illegitimate), ...	1107	78	351	1380	684	696	15.9
Births (Illegitimate), ...	43	5	32	70	32	38	* 5.1
Births (still births), ...	41	2	33	72	41	31	† 5.0
Marriages, ...	610	—	—	—	—	—	7.0
Deaths—							
All Causes, ...	975	183	279	1071	546	525	† 12.4
Tuberculosis, ...	—	—	—	32	16	16	0.37
Tuberculosis (Respiratory System), ...	—	—	—	24	15	9	0.28
Principal Epidemic Diseases, ...	—	—	—	29	17	12	0.33
Children aged under One Year,	—	—	—	67	38	29	‡ 4.9

\* Rate per 100 Births. † Rate adjusted for Age and Sex distribution = 11.3. ‡ Rate per 1000 Births.  
 † Rate per 100 Births (including still births).

75 per cent. of the deaths occurred within six months of notification, 50 per cent. being pulmonary and 25 per cent. non-pulmonary. 53·125 per cent. of deaths occurred within one month of notification—31·25 per cent. pulmonary and 21·875 non-pulmonary.

DEATHS FROM INFLUENZA.—13 deaths were registered as from this cause as against 5 in 1938.

DEATHS FROM PNEUMONIA.—29 deaths were registered during the year as against 63 in the previous year.

DEATHS FROM CANCER.—126 deaths from cancer were registered in 1939, being 2 less than in 1938. 67 were males and 79 females.

## METEOROLOGY.

The usual meteorological table is included, and much interesting and valuable information may be extracted therefrom if desired.

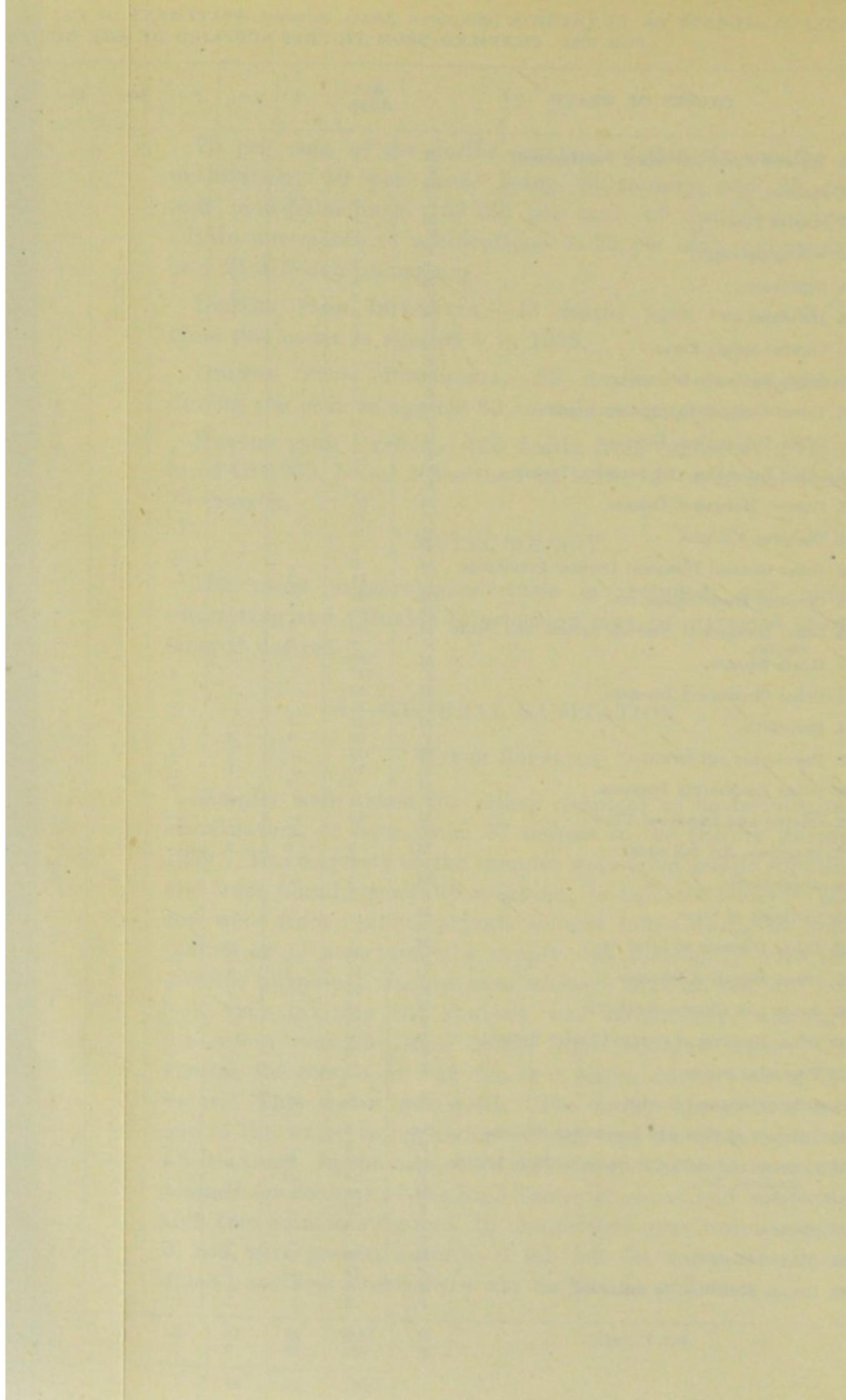
### A.—GENERAL SANITATION.

#### WATER SUPPLIES.

Samples were taken for either chemical or bacteriological examination, or both, from 37 sources in the County during 1939. The majority of the samples were from public supplies and were found, generally speaking, to be satisfactory. The rest were from various private sources taken owing to complaints or to ascertain if a supply was sufficiently pure for dietetic purposes. In one case where a shallow well did not look very inviting the analysis was satisfactory, although the colour was 25 times deeper than Glasgow water. In another the complaint was due to a milky appearance of the water. This water was good. The milky appearance was due to the water being highly aerated and disappeared after a little time. In the case of a farm supply, the water was condemned on account of the high bacterial count and relatively high free ammonia figure. In one private gravitation supply *B. coli* were present down to ·1 ml. but the water came from upland surfaces where there was no human pollution.

TABLE II.—COUNTY OF DUNBARTON (INCLUDING SMALL BURGHS)—STATEMENT OF CAUSES OF DEATH (CORRECTED FOR TRANSFERS) FOR 1939. COMPILED FROM FIGURES SUPPLIED BY THE REGISTRAR GENERAL.

CAUSES OF DEATH.		ALL AGES.	—1	1—	5—	10—	15—	25—	35—	45—	55—	65—	75—	85 and over.
1. Typhoid Fever (including Paratyphoid),	M.	1	...	...	...	...	...	1	...	...	...	...	...	...
	F.	...	...	...	...	...	...	...	...	...	...	...	...	...
2. Measles, .. .. .	M.	...	...	...	...	...	...	...	...	...	...	...	...	...
	F.	1	1	...	...	...	...	...	...	...	...	...	...	...
3. Scarlet Fever, .. .. .	M.	1	...	1	...	...	...	...	...	...	...	...	...	...
	F.	...	...	...	...	...	...	...	...	...	...	...	...	...
4. Whooping-cough, .. .. .	M.	...	...	1	...	...	...	...	...	...	...	...	...	...
	F.	2	1	1	...	...	...	...	...	...	...	...	...	...
5. Diphtheria, .. .. .	M.	4	...	2	1	1	...	...	...	...	...	...	...	...
	F.	2	...	1	...	1	...	...	1	1	1	...	3	...
6. Influenza, .. .. .	M.	8	...	1	...	1	...	...	1	...	2	1	1	...
	F.	5	...	...	...	...	...	...	1	...	...	...	...	...
7. Cerebro-Spinal Fever, .. .. .	M.	2	...	1	...	...	...	...	1	...	...	...	...	...
	F.	...	...	...	...	...	...	...	...	...	...	...	...	...
8. Other Epidemic Diseases, .. .. .	M.	1	...	...	...	...	...	...	1	...	...	...	...	...
	F.	2	...	...	...	...	...	...	2	...	...	...	...	...
9. Tuberculosis of Respiratory System, .. .. .	M.	15	...	...	...	...	1	1	4	3	5	...	1	...
	F.	9	...	...	...	...	3	4	...	2	...	...	...	...
10. Other Tuberculous Diseases, .. .. .	M.	1	...	...	...	...	1	...	...	...	...	...	...	...
	F.	7	1	1	1	1	1	1	1	...	1	...	...	...
11. Other Infectious and Parasitic Diseases, .. .. .	M.	5	1	1	1	...	...	1	...	...	...	...	...	...
	F.	...	...	...	...	...	...	...	...	...	...	...	...	...
12. Cancer, Malignant Disease, .. .. .	M.	67	...	...	...	...	...	1	2	10	20	21	11	2
	F.	79	...	...	...	...	1	...	6	18	18	24	10	2
13. Diabetes Mellitus, .. .. .	M.	9	...	...	...	...	...	...	2	...	2	2	2	1
	F.	9	...	...	...	...	1	1	...	1	2	3	...	1
14. Other General Diseases; Chronic Poisonings, .. .. .	M.	9	...	...	1	1	...	...	...	2	2	2	1	...
	F.	11	2	...	...	1	...	...	1	4	9	16	12	3
15. Cerebral Hæmorrhage, &c., .. .. .	M.	44	...	...	...	...	...	...	1	3	12	21	21	7
	F.	65	...	...	...	...	...	...	1	1	1	...	2	...
16. Other Diseases of Nervous System and Sense Organs, .. .. .	M.	10	2	2	...	...	1	1	1	1	3	1	...	...
	F.	9	2	...	...	...	...	...	7	14	29	65	37	6
17. Heart Disease, .. .. .	M.	159	...	...	...	...	1	...	4	11	27	52	39	11
	F.	147	...	...	1	...	1	1	1	3	5	4	2	1
18. Other Circulatory Diseases, .. .. .	M.	16	...	...	...	...	...	1	1	...	5	1	6	2
	F.	15	...	...	...	...	...	...	...	2	4	7	7	2
19. Bronchitis, .. .. .	M.	21	1	...	...	...	...	...	1	1	1	5	10	3
	F.	29	4	3	...	...	...	...	1	3	5	4	2	4
20. Pneumonia (all forms), .. .. .	M.	19	...	1	...	1	1	1	1	3	5	2	2	1
	F.	10	...	1	...	...	...	...	1	...	2	2	1	...
21. Other Respiratory Diseases, .. .. .	M.	8	1	...	...	...	...	1	1	...	1	1	1	...
	F.	3	...	...	...	...	...	...	...	...	...	...	...	...
22. Gastric and Duodenal Ulcer, .. .. .	M.	10	...	...	...	...	...	2	3	1	2	...	1	...
	F.	4	...	...	...	...	...	...	1	...	2	...	...	...
23. Diarrhœa, &c. (all ages), .. .. .	M.	8	6	2	...	...	...	...	...	...	...	2	1	...
	F.	7	4	...	...	...	...	...	...	...	...	...	1	...
24. Appendicitis, .. .. .	M.	4	...	...	...	...	1	...	...	1	1	...	...	...
	F.	2	...	...	...	...	...	...	...	1	...	1	...	...
25. Cirrhosis of Liver, .. .. .	M.	...	...	...	...	...	...	...	...	...	...	...	...	...
	F.	1	...	...	...	...	1	...	...	...	...	...	...	...
26. Other Diseases of Liver, &c., .. .. .	M.	5	...	...	...	...	...	...	1	1	...	2	1	...
	F.	11	1	1	...	1	...	...	2	2	1	2	1	...
27. Other Digestive Diseases, .. .. .	M.	11	...	...	2	...	...	1	...	...	1	4	3	...
	F.	11	...	...	...	...	...	...	1	...	7	3	...	...
28. Acute and Chronic Nephritis, .. .. .	M.	13	...	...	...	1	1	...	1	2	3	5	2	...
	F.	14	...	...	...	...	...	1	1	1	1	6	1	...
29. Other Diseases of Genito-Urinary System, .. .. .	M.	9	...	...	...	...	...	...	1	1	...	...	...	...
	F.	2	...	...	...	...	...	...	...	...	...	...	...	...
30. Puerperal Sepsis, .. .. .	F.	3	...	...	...	...	1	2	...	...	...	...	...	...
31. Other Puerperal Causes, .. .. .	F.	3	...	...	...	...	...	1	2	...	...	...	...	...
32. Diseases of Skin and Locomotor System, .. .. .	M.	3	...	...	...	1	...	...	...	1	...	...	1	...
	F.	4	...	...	...	1	...	...	...	...	...	...	2	...
33. Congenital Debility, Premature Birth, Malformations, &c., .. .. .	M.	26	25	...	...	1	...	...	...	...	...	...	...	...
	F.	14	14	...	...	...	...	...	...	...	...	2	12	1
34. Old Age, .. .. .	M.	15	...	...	...	...	...	...	...	...	...	1	17	12
	F.	30	...	...	...	...	...	...	...	2	1	1	...	...
35. Suicide, .. .. .	M.	4	...	...	...	...	...	...	...	...	...	...	...	...
	F.	...	...	...	...	...	...	...	...	...	...	...	...	...
36. Other Violence, .. .. .	M.	36	1	4	...	3	9	2	3	4	7	3	...	1
	F.	19	...	2	...	1	2	1	1	3	5	2	1	1
37. Causes ill-defined or unknown, .. .. .	M.	6	...	...	...	...	...	...	...	1	2	2	1	...
	F.	2	...	...	...	...	...	...	...	...	1	1	...	...
ALL CAUSES, .. .. .	M.	546	38	16	3	11	17	12	30	50	106	138	107	18
	F.	525	29	9	4	5	10	15	25	47	84	142	113	41
		1071	67	25	7	16	27	27	56	97	190	280	220	59



STATION.	OBSERVER.	Rain Gauge.			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
		Diameter.	Height above Ground.	Height above Sea-level.													
Whistlefield, Clear Water Tank, ..	Neil M'Kellar, Water Superintendent,	8	1 0	342	5 36	9 17	6 06	3 67	1 42	3 82	7 56	2 51	4 08	1 99	11 67	5 60	63 51
Rhu, Filter House, ..	John Black, Water Superintendent,	8	1 0	350	5 08	8 10	5 49	4 35	1 32	3 92	5 99	2 80	4 91	3 73	10 98	6 70	63 17
Valve House, Luss Rd., Helensburgh,	Jas. N. Stirling, Burgh Surveyor,	8	1 0	293	4 22 17	6 66 25	4 77 21	2 94 17	1 83 10	2 95 14	5 53 19	1 88 15	4 82 12	3 20 17	8 99 26	3 92 16	51 71 209
Estate Office, Rosneath, ..	Wm. Rankine, ..	..	..	..	4 45 16	7 15 24	4 09 21	2 77 19	1 75 11	2 64 13	5 21 22	2 32 15	3 81 11	2 95 16	10 15 28	3 56 17	50 85 213
Glen Finlas, ..	George Beaton, Water Superintendent,	..	..	..	5 78 14	10 30 25	6 56 18	4 06 17	2 11 14	5 28 13	10 10 24	3 09 15	7 30 12	3 20 15	13 22 26	6 36 15	77 36 208
Renton Filters, ..	William Buchanan, Water Superintendent,	8	4 0	292	3 49 14	6 36 23	4 08 24	3 18 14	2 25 10	1 92 11	6 43 21	2 21 14	3 01 9	2 94 13	8 17 27	2 76 14	46 80 194
Garshake, ..	W. B. Carberry, Water Superintendent,	8	1 0	235	4 20	5 55	3 50	2 15	1 70	1 61	5 50	2 10	2 83	2 90	7 50	2 56	42 10
Loch Humphrey,	Do.	8	1 0	1052	4 90	5 90	4 10	2 75	2 45	2 00	7 25	3 00	3 56	3 20	8 00	2 70	49 81
Cochno Filters, ..	E. T. Collins, Water Superintendent,	5	1 0	400	4 40 15	5 32 21	3 69 20	2 52 13	1 73 11	2 48 12	6 41 23	3 15 13	2 79 11	2 97 13	8 13 26	2 52 12	46 11 190
Cochno Loch, ..	Do.	5	1 0	909	5 76	6 75	4 91	3 56	2 22	2 83	8 47	3 04	3 57	3 38	10 07	3 08	57 61
Jaw Reservoir, ..	Do.	5	1 0	912	6 19	7 25	5 34	3 76	2 14	3 31	8 54	3 20	3 80	3 27	10 37	3 14	60 31
Greenside Reservoir, ..	Do.	5	1 0	875	6 25	6 83	4 05	2 82	2 17	2 87	8 59	3 09	4 05	3 66	9 41	3 36	57 15
Mugdock Reservoir, ..	Engineer and Manager, Corporation of Glasgow,	..	..	320	5 55	6 65	4 65	3 25	1 90	3 05	6 50	2 20	3 10	3 35	10 05	2 70	52 95
Mean Rainfall (Scotland), ..	Meteorological Reports,	..	..	..	3 82 18	3 90 20	2 76 21	1 76 16	1 09 9	1 59 13	4 31 20	1 81 11	1 93 11	2 47 15	6 13 25	1 89 12	33 46 191

## RIVERS POLLUTION PREVENTION.

RIVER ALLANDER.—About the middle of May a complaint was received regarding the colour of the stream. A visit was paid and it was discovered that the blue colour complained of was due to an analine dye from the paper works. It was intimated to the complainers that such colouration could not be deemed a pollution within the meaning of the Rivers Pollution Prevention Act of 1876.

RIVER LUGGIE.—A great improvement was effected in the condition of this stream at Waterside by the introduction of remedial works at Wester Gartshore Pit. An inspection in June showed that the water was fairly clear but the bed of the stream required time to rid it of coal gum. Attention was, however, called to the condition of the Luggie below the Mollinsburn, which receives effluent from Bedlay Colliery in Lanarkshire. Above the Mollinsburn the stream is in a reasonable condition.

AUCHENTOSHAN BURN.—There were no complaints regarding this burn during the year.

RIVER LEVEN.—On 13th August a severe pollution of the river occurred. Several of the fish were sent to the Scottish Marine Bacteriological Station at Millport but by the time the fish arrived there they were not in a condition to furnish satisfactory evidence of the cause of death. No evidence could be obtained as to where the pollution came from. It was ascertained later that, although not reported to this Department, there had been two previous pollutions, both in June, on 19th and 23rd respectively, owing to which considerable destruction of fish had occurred.

BOARD BURN.—This burn receives drainage from certain pits and the attention of the pit owners was directed to the condition of the burn towards the end of June. The company promised that the matter would be attended to but no improvement had been effected by the end of the year.

ST. GERMAIN'S LOCH.—A complaint was received in June

regarding the condition of the above loch, which was described as foul smelling and like diluted dish water.

This loch, situated in Bearsden, is possibly an old quarry hole and extends over a part of two different estates. Recently many bungalows have been built round it, especially on the west and south sides, and roads have been formed. The result is that the ground which previously drained to the loch now drains to house or road drains and so the water has become stagnant, there being very little inflow and practically no outflow. An analysis showed that the water was lacking in oxygen and this would cause any decaying vegetable material to give off an offensive odour. It is difficult to see how such a condition can be remedied and the conditions are liable to recur during a hot summer.

#### DRAINAGE AND SEWAGE PURIFICATION AND DISPOSAL.

The County Engineer has kindly supplied a detailed statement of the work done in his Department.

Among the important work done from a Public Health point of view was the improvement of the drainage at Craighendran and the collection of the outfall drains at Garelochhead and the discharge of effluents by four outfall sewers discharging at low tide level. The latter improvement will have the effect of clearing the shores of the Gareloch at the head of the Loch.

#### NUISANCES.

There is very little to report under this heading as most of the complaints were dealt with as matters of routine by the Sanitary Inspectors. The following inquiries might, however, be noted.

GARSCADDEN COUP.—Exception was taken early in the year to the situation and management of this coup. Several visits of inspection were paid and I failed to understand the grounds for the complaints.

All land-reclamation work connected with the disposal of refuse is liable to be objectionable but in very few cases can such work be classified as injurious to the health of the locality. The Department of Health were eventually appealed to by the complainers and in a report, dated the 23rd January, the following expression of opinion occurs: "Garscadden is kept in a better condition than that at Dumbuck; the site of the former dump is preferable and there is no justification for disturbing the present arrangements."

**DRAINAGE TO THE GARELOCH.**—A complaint of unpleasant smells from the foreshore led to a careful examination of the drains discharging below high water mark and it was found that one large drain was fractured and choked. The result was, of course, that there was an accumulation of offensive material lying on the beach. This was remedied.

**WATER SUPPLY ON THE GARELOCH SIDE.**—The problem of the discharge of farm drainage into a stream which may be eventually used for domestic purposes is a difficult one in rural areas, and this question was raised by the owner of a property on the roadside because overflows from septic tanks discharged into a certain stream used by him. It was fortunate, however, that before the matter really came to a head the Local Authority were in a position to offer the proprietor a connection to the public water main which had just been laid.

### OFFENSIVE TRADES.

There are no offensive trades carried on in the County areas.

### PRIVATE STREETS.

**FOOTPATH AT OLD KILPATRICK.**—The question of the repair of this footpath was again before the Committee at the beginning of the year. In March I reported that I could not certify the footpath as a nuisance in the meantime; later on in the year, however, it was agreed that a notice should be served under Section 39 of the Public Health (Scotland) Act, 1897, calling on the owner to remedy the defects.

FOOTPATHS AT CUMBERNAULD.—During the year complaints were received regarding certain footpaths in the village. Inspections showed that on the main the complaints referred to irregularities in the paving. Eventually certain repairs were dealt with by the Roads Department but the matter was not finally disposed of at the end of the year.

## RAT CAMPAIGN.

### RATS AND MICE (DESTRUCTION) ACT, 1919.

“ RAT WEEK,” 27TH MARCH TO 1ST APRIL, 1939.

The usual campaign was held in the spring of the year and the following report gives an indication of the efforts made to reduce the number of vermin in the area.

The annual campaign against rats and mice was carried out from 27th March to 1st April this year, and arrangements, similar to those adopted in previous years, were made.

Visits to farms, piggeries, stables, shops, tenement properties, and other premises where there was the possibility of harbourage of rats, advertisements in the press, delivery of circulars and pamphlets, and the exhibition of coloured posters were among the efforts made to arouse general interest in the campaign.

As in former years, the Burgh Surveyors and Sanitary Inspectors in the Burghs within the County co-operated with this department. The Railway Companies in former years exhibited posters at railway stations within the County, but unfortunately, this year, the privilege was withheld and consequently a valuable source of advertisement was lost.

The Chief Constable, as in former years, kindly granted permission to retain rat poison in the Police Stations during rat week.

At the various coups within the County, poisons and “ Cyano ” Gas were used with good effect and especially with the latter method some large kills were made. At one farm where infestation of stacks was evident, repeated visits were paid to ensure that the farmer was taking all steps possible

to exterminate the vermin. The stacks were accidentally burned, however, so that ended the rat menace at that particular place, and the remainder of the premises was quite clear.

Notices in connection with rat week were also sent to owners of vessels lying in Harbours within the County, but as these vessels are only "resident" here temporarily, it is not easy to give a specific report on them.

A rat-infested tenement consisting of houses, shops, and basement cellars was dealt with by the joint owners, by the employment of a rat catcher, after which the basement was made rat proof. No further complaints have been received from the tenants in the property.

During rat week, the following poisons were sold to the public:—

68 tins Rodine.

13 packets Klearwell Rat Biscuits.

10 bottles Klearwell Liquid Red Squill.

In addition, complaints received during the year with regard to infestation were investigated and every assistance given to occupiers of premises to eliminate the pests.

## B.—HOUSING AND TOWN PLANNING.

During 1939 115 houses were closed by the Local Authority as uninhabitable, as against 130 in 1938.

There are still quite a number of houses to be dealt with, but with the commencement of war conditions towards the end of the year, it looks unlikely that much further progress in housing will be made meantime.

No further work was done at the Terraces in Jamestown, where an award was made by the Sheriff in the dispute regarding increased rents.

As regards Town Planning Schemes, although progress has been made, the pace is slow.

DEFECTIVE OR UNINHABITABLE HOUSES.—During the year 81 representations were made under Section 16 (1) of the

Housing (Scotland) Act, 1930, or the Housing (Scotland) Act, 1925. The total number of houses affected was 115. The following table shows the situation of the various houses dealt with:—

## BONHILL.

Situation of Property.	No. of Houses.	Apartments.			
		1	2	3	4
174, 177, 179, 180, 187 Main Street, Jamestown, - - -	5	—	4	1	—
122, 257, 317, 373 Main Street, Bonhill, - - - -	5	2	2	—	1
1, 5 Campbell Street, Bonhill, -	3	—	2	1	—
49 Hillbank Park, Bonhill, -	1	1	—	—	—
62, 67, 73 Main Street, Alexandria, - - - -	3	—	3	—	—
18 Gray Street, Alexandria, -	1	1	—	—	—
6 Hill Street, Alexandria, - -	1	—	1	—	—
11 Alexander Street, Alexandria,	1	—	—	1	—
16, 18 Mitchell Street, Alexandria, - - - -	2	—	2	—	—
140 Bridge Street, Alexandria, -	1	1	—	—	—
26, 37 Random Street, Alexandria, - - - -	2	2	—	—	—
	25	7	14	3	1

## RENTON.

Situation of Property.	No. of Houses.	Apartments.			
		1	2	3	4
29, 121 Back Street, - - -	2	—	1	—	1
4, 6 Burn Street, - - -	4	—	4	—	—
7, 9, 15, 16 Carman Road, -	7	2	5	—	—
20 Station Street, - - -	3	—	3	—	—
13, 31, 34, 41, 43, 62, 64, 68, 74, 156, 172, 184, 205, 267 Main Street, - - - -	19	11	7	1	—
1, 19 Thimble Street, - - -	2	1	1	—	—
1 Millburn, - - - -	1	—	1	—	—
North Carman Cottage, - - -	1	—	1	—	—
	39	14	23	1	1

## CARDROSS.

Situation of Property.	No. of Houses.	Apartments.			
		1	2	3	4
Kirkton Cottage, - - -	1	—	1	—	—
Craigend, - - - -	4	—	2	2	—
Burnsland; - - - -	1	—	1	—	—
Geilston Cottage, - - -	2	—	2	—	—
Brooks Crossing, - - -	1	—	1	—	—
Ardoch Crossing, - - -	1	—	1	—	—
Brooks Road Cottages, - -	1	1	—	—	—
	11	1	8	2	—

## GARELOCHHEAD.

Situation of Property.	No. of Houses.	Apartments.			
		1	2	3	4
Woodlea, - - - - -	3	—	3	—	—
Rowantree Cottage, - - -	1	—	1	—	—
Tighnaleac, - - - - -	1	—	1	—	—
Feorlinbreck, - - - - -	1	—	—	1	—
	6	—	5	1	—

## ARROCHAR.

Situation of Property.	No. of Houses.	Apartments.			
		1	2	3	4
Havelock, - - - - -	1	—	1	—	—
	1	—	1	—	—

## KILMARONOCK.

Situation of Property.	No. of Houses.	Apartments.			
		1	2	3	4
Wooden House, Finnelly, - -	1	1	—	—	—
Little Finnelly Cottage, - -	1	1	—	—	—
Burnside Cottage, - - - -	1	—	—	—	1
Slate House of Aber, - - -	1	—	1	—	—
Blairennich Cottage, - - -	1	—	—	1	—
Church Place, Gartocharn, -	4	—	3	1	—
Dellamont Cottage, - - - -	1	—	—	1	—
The Cottage, Church Road, -	1	—	1	—	—
	11	2	5	3	1

## WATERSIDE.

Situation of Property.	No. of Houses.		Apartments.		
		1	2	3	4
Burnbrae, - - - - -	3	—	2	1	—
Factory Buildings, - - -	2	—	—	1	1
	5	—	2	2	1

## CUMBERNAULD, CONDORRAT AND CASTLECARY.

Situation of Property.	No. of Houses.		Apartments.		
		1	2	3	4
Roadside, Cumbernauld, - -	1	—	1	—	—
Masonic Place, Cumbernauld, -	1	—	1	—	—
Broomlands, Cumbernauld Station,	1	1	—	—	—
Eagle Inn, Condorrat, - - -	1	1	—	—	—
Railway Cottages, Castlecary, -	6	—	6	—	—
	10	2	8	—	—

## DUNTOCHER.

Situation of Property.	No. of Houses.		Apartments.		
		1	2	3	4
52 William Street, - - - - -	1	1	—	—	—
	1	1	—	—	—

## CRAIGTON.

Situation of Property.	No. of Houses.		Apartments.		
		1	2	3	4
Old Toll, - - - - -	1	—	—	1	—
Tambowie, - - - - -	2	—	1	—	1
Craigton Bleach Works, - - -	3	—	2	1	—
Broad Meadow Farm, - - - -	2	—	2	—	—
	8	—	5	2	1

	No. of Houses.		Apartments.		
		1	2	3	4
Total for all areas, - - - - -	117	27	71	14	5

After consideration of the representations made in 1938 against 52 William Street, Duntocher (1 house); Roadside,

Cumbernauld (1 house); Eagle Inn, Condorrat (1 house); Campbell's Property, Main Street, Condorrat (2 houses); Paterson's Land, Main Street, Condorrat (1 house); Main Road, Condorrat (2 houses); Culch, Airdrie Road, Condorrat (4 houses), it was agreed at the January Meeting that, with the exception of the houses at 52 William Street, Duntocher, and the Eagle Inn, Condorrat (where Closing Orders would be served), there would be Demolition Orders put into force.

6 houses at Arrochar, Waterside, Condorrat, and Cumbernauld were not finally dealt with at the end of the year.

The Committee agreed that permission should be granted to the owners of the following properties, which had been considered uninhabitable and dealt with as such, for their use as garages, stores or offices: 7-9 Carman Road, Renton (2 houses); 174 Main Street, Jamestown (1 house); 166 Main Street, Renton (2 houses); and 15 Carman Road, Renton (1 house). One application was refused.

The following properties which had been represented against and for which undertakings had been accepted or which had been otherwise dealt with as uninhabitable were satisfactorily repaired during 1939: Ardmay Cottage, Arrochar, and 297-299 Main Street, Alexandria.

The owner of the property at 58 Main Street, Renton, which had been deemed to be beyond repair, was fined 10s. in the Sheriff Court for occupying the premises as a place for human habitation without the sanction of the Committee.

#### NOTES FROM THE COUNTY ARCHITECT REGARDING HOUSING SCHEMES.

I am indebted to the County Architect for supplying the following notes regarding the progress of Housing Schemes, &c. :—

ADMIRALTY SITE, ALEXANDRIA.—It is hoped to have the 26 houses to complete this scheme ready for occupancy in the spring of 1940.

CORDALE, RENTON—First Development.—The third and

fourth blocks completing the 120 houses comprising the first development were occupied in the spring.

BURNBRAE (CORDALE).—The scheme of 24 houses was occupied in March, 1939.

CARDROSS.—The 14 houses comprising this scheme were completed and occupied in February, 1939.

OLD KILPATRICK.—This scheme of 50 houses was completed in May, 1939.

BOWLING.—The 12 houses here were also completed in May, 1939.

DUNTOCHER.—104 houses. As in the previous year, progress was unsatisfactory owing to dearth of labour.

HARDGATE.—18 houses. This scheme was still in progress during the year.

BEARSDEN.—32 houses. The difficulty of obtaining labour and material has retarded progress, but it is hoped to have the scheme completed and ready for occupancy early next year.

TWECHAR.—48 houses. Again progress has been slow, and it will be the spring of 1940 ere the scheme may be completed.

CUMBERNAULD (Station Site).—The scheme here of 12 houses was completed in February, 1939.

CUMBERNAULD (Village Site).—30 houses. Site negotiations held up a commencement on this scheme, and it was not until March, 1939, that it was possible to have a start made.

CASTLECARY.—The 6 houses comprising the scheme here were completed in February, 1939.

GARELOCHHEAD.—It was the month of December, 1939, ere this scheme of 8 houses was ready for occupancy.

GARTOCHARN.—This scheme of 10 houses was completed and ready for occupancy in October, 1939.

CROY.—36 houses. Progress on this scheme has only been fair due to labour and material difficulties.

ROSNEATH.—This scheme of four houses was still in progress throughout the year.

CORDALE, RENTON—Second Development.—It was the month of February, 1939, ere a start was made to the erection of the 92 houses.

LEVENVALE TIMBER HOUSING.—A start was made to the erection of the 90 houses in February, 1939; 28 houses were ready for occupancy in September; a further 34 in October; and the entire scheme was completed in November, 1939.

### HOUSING (RURAL WORKERS) ACTS.

Under the Acts, 14 applications, embracing 15 houses, were received during the year, and grants approved of amounting to £1483 14s. 8d.

### C.—FOOD SUPPLY.

The full details of the work under the Food and Drugs (Adulteration) Act, 1928, and the Milk (Special Designations) Order, 1936-37, are contained in the County Sanitary Inspectors' Reports, which are appended.

No special difficulties arose during 1939.

### INSPECTION OF MEAT, &c., AND SLAUGHTER-HOUSES.

The Sanitary Inspectors' Reports on these subjects will be found on pages 84 and 110.

### D.—MEDICAL SERVICES.

#### MATERNITY SERVICE AND CHILD WELFARE.

STATISTICS REQUIRED BY APPENDIX TO BOARD OF HEALTH'S  
CIRCULAR, DATED 27TH DECEMBER, 1929.

By the above circular, a detailed statement of particulars

in connection with the Child Welfare Schemes of the County is required, and the relative information is set out in the consecutive order specified by the circular, with the addition of several tables giving fuller details.

1. *Births*.—(a) Number registered—(i) legitimate, 1064; (ii) illegitimate, 43. (b) Number notified, 1395. (This figure includes 303 births which occurred in institutions out-with the area.) (c) Number classified according to nature of attendance—doctor only, 348; midwife only, 467; both doctor and midwife, 277; not attended by either doctor or midwife, nil. (d) Number of still-births (births of dead children), 74; 2 of which were transferred out of the area, and 33 transferred in; giving 41 cases actually occurring within the County.

2. *Infantile Mortality*.—(a) Number of deaths, 67; (b) rate per 1000 births, 49; (c) number of deaths and rates per 1000 births classified according to age-groups and causes of death (see Table VII).

3. *Maternal Mortality*.—(a) Number of deaths resulting from miscarriage or childbirth, 3; (b) number of deaths resulting from puerperal sepsis, 3.

4. *Report under Midwives (Scotland) Act, 1915*.—There are 20 midwives practising in the county; 15 of these are qualified by examination. The others were in practice when the Midwives (Scotland) Act passed, and thus were automatically added to the Midwives' Roll. The following gives the details of the Annual Report on the working of the Act during 1939 as required by the Central Midwives Board:—

#### REPORT.

##### BIRTHS IN DISTRICT—

Total number of births registered in 1939, - - -	1107
Actual number of births attended by midwives during 1939, - - - - -	467
Total number of deaths of new-born children (within ten days) during 1939, - - - - -	17

Actual number of deaths of new-born children (within ten days) occurring in the practice of midwives during 1939, - - - - -	5
---	---

Actual number of cases not attended by a doctor or midwife during 1939, -	}	Births,	Nil
		Deaths,	Nil

In addition to the above, 303 notifications were received of births in institutions outside the area. Twenty-eight of these were still-born.

#### CASES OF OPHTHALMIA NEONATORUM—

Total number of cases during 1939, - - - - -	3
--	---

Actual number of cases occurring in the practice of midwives during 1939, - - - - -	3
---	---

Actual number of cases occurring where confinement not attended by a doctor or midwife during 1939,	Nil
---	-----

#### CASES OF PUERPERAL SEPSIS—

Total number of cases during 1939, - - - - -	9
--	---

Total number of deaths during 1939, - - - - -	2
---	---

Actual number of cases occurring in the practice of midwives during 1939, - - - - -	1
---	---

Actual number of deaths occurring in the practice of midwives during 1939, - - - - -	*2
--	----

Actual number of cases occurring where confinement not attended by a doctor or midwife in 1939, - - - - -	}	Cases,	Nil
		Deaths,	Nil

#### CASES OF PUERPERAL PYREXIA—

Total number of cases during 1939, - - - - -	21
--	----

Total number of deaths during 1939, - - - - -	Nil
---	-----

Actual number of cases occurring in the practice of midwives during 1939, - - - - -	10
---	----

Actual number of deaths occurring in the practice of midwives during 1939, - - - - -	Nil
--	-----

Actual number of cases occurring where confinement not attended by a doctor or midwife in 1939, - - - - -	}	Cases,	Nil
		Deaths,	Nil

\*(It is to be noted that a patient admitted to hospital as a case of puerperal pyrexia in December, 1938, died in Feb-

ruary, 1939, and the cause of death was classified as puerperal sepsis. This death is, of course, included above.)

CASES OF STILL-BIRTH (DEAD-BORN)—

Total number of cases during 1939,	- - -	40
Actual number of cases occurring in the practice of midwives during 1939,	- - - - -	13

CASES OF EMERGENCY—

In 119 instances midwives requiring the assistance of a medical practitioner sent in the statutory forms.

The emergencies were as follows:—

Abortion,	- - - - -	4
Pregnancy complicated by—		
Threatened abortion,	- - - - -	1
Ante-partum haemorrhage,	- - - - -	2
Oedema of legs and feet,	- - - - -	1
Albuminuria,	- - - - -	1
Headaches, insomnia and raised pulse,	- - - - -	1
Hysteria,	- - - - -	1
Eclampsia,	- - - - -	1
Pre-eclamptic symptoms	- - - - -	1
Delivery complicated by—		
Contracted pelvis,	- - - - -	2
Contracted pelvis and impacted breech presentation,	- - - - -	1
Contracted pelvis—large child,	- - - - -	1
Early rupture of membranes,	- - - - -	2
Placenta praevia,	- - - - -	1
Prolonged labour,	- - - - -	33
Macerated foetus,	- - - - -	1
Occipital posterior presentation,	- - - - -	4
Occipital posterior presentation with fibroid in passage,	- - - - -	1
Breech presentation,	- - - - -	1
Foot presentation,	- - - - -	1
Shoulder presentation,	- - - - -	1
Oedema of cervix,	- - - - -	1

Rigid cervix, - - - - -	1
Perineal tear, - - - - -	15
Adherent placenta, - - - - -	4
Post-partum haemorrhage, - - - - -	3
Puerperium complicated by—	
Rise in temperature, - - - - -	8
Fits, - - - - -	1
Pain in breasts, - - - - -	2
Pain in stomach, - - - - -	1
Conditions of child—	
Still-birth, - - - - -	3
Asphyxia, - - - - -	1
Prematurity, - - - - -	5
Umbilical deformity, - - - - -	1
Cleft palate, - - - - -	1
Melaena, - - - - -	1
Greenstick shoulder, - - - - -	1
Jaundice, - - - - -	2
Jaundice and discharging eye, - - - - -	1
Inflammation of eyes, - - - - -	1
Abscess in ear, - - - - -	1
Suppurating ear and suspected impetigo, - - - - -	1
Extensive pemphigus neonatorum, - - - - -	1
Inflamed umbilicus, - - - - -	1

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## NOTIFICATIONS—

Statutory forms of notification were received during the year as under :—

Notification of still-birth, - - - - -	3
Notification of liability to be a source of infection, - - - - -	2
Notification of artificial feeding, - - - - -	4

There have been no changes in the general administration of the Act within the County, and no circumstance calling for special report has arisen during the year.

The following supplementary figures are of interest:—

The number of live births notified in the County was 1327\* and, consequently, the percentage of registered births notified was 96.

The percentage of total births attended by midwives only, was 42·7.

The percentage of total births attended by doctors only, was 31·9.

The percentage of total births attended by both, was 25·4.

The percentage of still-births was 3·7.

5. *Home Visitation.*—

	Number Visited.	Total Visits.
Infants, - - - -	1205	8316
Children (1-5 years), - - -	4848	8845
Expectant mothers, - - -	307	1152
	<u>6360</u>	<u>18,313</u>

6. *Voluntary Health Visitors' Report.*—There are no Voluntary Health Visitors connected with the scheme in the County.

7, 8, and 9. *Ante-Natal, Post-Natal, and Child Welfare Consultations.*—The information requested under these three headings will be found in Tables Nos. IV, V, and VI.

10. *Special Treatment Centres.*—The Local Authority owns no Special Treatment Centres, but during the year, by arrangement with the Education Committee, 142 children were treated—77 children were sent to the School Dental Clinics for treatment; 55 children were referred to the Eye Clinics; and 10 children were attended to in connection with tonsils, adenoids, or ear conditions, while no children received treatment at the School Skin Clinics.

During the year dental treatment was sanctioned in the case of 38 expectant mothers; 32 expectant mothers required

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\* This figure includes 275 live births which occurred in institutions outside the County.

TABLE IV.—HOME VISITATION.

PARTICULARS.	County Totals.	AREA.									
		Vale of Leven.	Rest of Western Area (Landward).	Helensburgh (Burghal).	Cove and Kilcreggan. (Burghal).	East & West Kilpatrick (Landward).	Cumbernauld and Kirkintilloch (Landward).	Kirkintilloch (Burghal).	Milingavie (Burghal).		
Number of Births intimated to Health Visitor during year,	1413	297	194	151	6	249	179	280	77		
Number of First Visits :—	1617	392	208	121	12	182	283	285	134		
To Children under 1 year,	1205	257	189	77	6	146	196	266	68		
To Children from 1 to 5 years,	105	45	4	..	..	16	40	..	..		
To Expectant Mothers, ..	307	90	15	44	6	20	47	19	66		
Number of Revisits :—	16,696	2609	1833	1691	568	2357	3017	2917	1804		
To Children under 1 year,	7111	1373	770	459	125	661	1248	1556	910		
To Children from 1 to 5 years,	8740	1078	1008	946	402	1566	1673	1288	779		
To Expectant Mothers, ..	845	158	46	186	41	130	96	73	116		
Number of Visits to Midwives,	163	58	9	10	..	6	65	15	..		
Number of Visits of Special Inquiry, ..	356	54	46	50	..	13	130	57	6		
Number of Visits to Tuberculous Cases, ..	262	78	15	7	1	53	..	81	27		
Total Visits, ..	19,094	3,191	2,111	1,779	581	2,611	3,405	3,355	1,971		

TABLE V.—DISEASES RECORDED ON CHILD WELFARE CLINIC CARDS.

DISEASES.	County Totals.	CLINIC DETAILS.								
		Alexandria.	Renton.	Helensburgh.	Dun- tocher.	Old Kil- patrick.	Twechar.	Cumber- nauld.	Kirkin- tilloch.	Milngavie.
<b>GENERAL CONDITIONS :</b>										
General Debility, - - - -	46	4	6	..	..	..	6	15	15	..
Malnutrition, - - - - -	22	10	4	7	1	..	..	..	..	..
Anæmia, - - - - -	12	12	..	..	..	..	..	..	..	..
Rickets, - - - - -	9	2	2	1	..	..	..	..	4	..
Snuffles, - - - - -	1	1	..	..	..	..	..	..	..	..
Jaundice, - - - - -	5	..	..	..	1	..	..	..	4	..
<b>NERVOUS DISEASES :</b>										
Chorea, - - - - -	..	..	..	..	..	..	..	..	..	..
Paresis of Face, - - - -	..	..	..	..	..	..	..	..	..	..
Infantile Paralysis, - -	..	..	..	..	..	..	..	..	..	..
<b>THROAT, NOSE, AND EAR CONDITIONS :</b>										
Tonsils and Adenoids, - -	62	20	2	6	2	3	4	2	23	..
Tonsillitis, - - - - -	2	2	..	..	..	..	..	..	..	..
Tongue Tie, - - - - -	2	1	..	..	1	..	..	..	..	..
Otorrhœa, - - - - -	16	12	..	3	..	..	..	..	..	1
Other Ear Diseases, - - -	..	..	..	..	..	..	..	..	..	..
Other Nasal Conditions, -	9	3	..	..	..	..	..	..	6	..
<b>EYE DISEASES :</b>										
Ophthalmia Neonatorum, -	..	..	..	..	..	..	..	..	..	..
Conjunctivitis, - - - - -	8	..	3	3	..	..	..	..	..	2
Blepharitis, - - - - -	2	2	..	..	..	..	..	..	..	..
Squint, - - - - -	21	11	..	2	..	..	..	..	8	..
Sty, - - - - -	1	1	..	..	..	..	..	..	..	..
Other Eye Conditions, - -	9	6	..	..	..	..	..	1	2	..
<b>RESPIRATORY DISEASES :</b>										
Bronchitis, - - - - -	32	13	..	7	..	..	..	4	10	2
Other Respiratory Diseases, -	55	32	10	..	2	2	..	..	..	9
<b>DENTAL CONDITIONS :</b>										
Dental Caries, - - - - -	53	15	..	5	1	..	5	9	18	..
Other Dental Conditions, -	..	..	..	..	..	..	..	..	..	..
<b>ALIMENTARY DISEASES :</b>										
Conditions relating to Feeding, -	42	15	..	21	..	..	..	..	6	..
Vomiting, - - - - -	3	3	..	..	..	..	..	..	..	..
Indigestion, - - - - -	..	..	..	..	..	..	..	..	..	..
Gastritis, - - - - -	6	2	4	..	..	..	..	..	..	..
Enteritis, - - - - -	6	6	..	..	..	..	..	..	..	..
Hernia, - - - - -	15	7	..	..	1	1	1	..	5	..
Threadworms, - - - - -	7	5	1	..	1	..	..	..	..	..
Tapeworm, - - - - -	..	..	..	..	..	..	..	..	..	..
Diarrhœa, - - - - -	18	7	..	4	..	..	..	..	7	..
Constipation, - - - - -	14	4	..	9	..	1	..	..	..	..
Other Alimentary Conditions, -	8	1	..	..	..	..	..	..	7	..
<b>SKIN DISEASES :</b>										
Ringworm, - - - - -	..	..	..	..	..	..	..	..	..	..
Scabies, - - - - -	15	15	..	..	..	..	..	..	..	..
Impetigo, - - - - -	55	31	6	..	..	1	..	..	12	5
Eczema, - - - - -	5	2	..	..	..	..	..	..	..	3
Alopecia, - - - - -	..	..	..	..	..	..	..	..	..	..
Seborrhœa, - - - - -	..	..	..	..	..	..	..	..	..	..
Septic Sores, - - - - -	11	3	..	3	..	..	..	..	5	..
Septic Vaccination, - - -	..	..	..	..	..	..	..	..	..	..
Nettlerash, - - - - -	3	3	..	..	..	..	..	..	..	..
Other Skin Conditions, - -	25	9	3	1	..	2	..	..	10	..
<b>OTHER CONDITIONS :</b>										
Injuries due to Accidents, -	7	7	..	..	..	..	..	..	..	..
Talipes, - - - - -	..	..	..	..	..	..	..	..	..	..
Phimosis, - - - - -	19	10	4	..	2	1	..	..	..	2
Conditions affecting Umbilicus, -	14	9	..	..	..	..	..	..	4	1
Mumps, - - - - -	2	..	..	..	..	..	..	..	..	2
Enlarged Glands, - - - -	9	8	..	1	..	..	..	..	..	..
Abscesses, - - - - -	5	5	..	..	..	..	..	..	..	..
Flat Feet, - - - - -	..	..	..	..	..	..	..	..	..	..
Cleft Palate, - - - - -	..	..	..	..	..	..	..	..	..	..
Sore Mouth, - - - - -	8	2	4	..	..	..	..	..	2	..
Mental Conditions, - - - -	4	3	..	1	..	..	..	..	..	..
Rheumatism, - - - - -	..	..	..	..	..	..	..	..	..	..
Nocturnal Enuresis, - - -	5	5	..	..	..	..	..	..	..	..
Boils, - - - - -	3	1	..	..	..	..	..	..	2	..
Vertigo, - - - - -	..	..	..	..	..	..	..	..	..	..
Growth on Spine, - - - - -	..	..	..	..	..	..	..	..	..	..
Convulsions, - - - - -	1	..	..	1	..	..	..	..	..	..
No Disease noted, - - - -	18	18	..	..	..	..	..	..	..	..
Attendance for weighing only, -	297	34	47	..	41	42	..	..	133	..

1898

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1910

TABLE VI.—MATERNITY SERVICE AND CHILD WELFARE SCHEME CLINICS.

PARTICULARS.	CLINICS.									
	County Totals.	Alexandria.	Renton.	Helensburgh.	Duntocher.	Old Kilpatrick.	Twechar.	Cumbernauld.	Kirkintilloch.	Milngavie.
Number of Clinics held— Health Visitor only attending, . . . Doctor and Health Visitor attending,	152 526	50 60	49 45	77	48 50	51	47	51	5 93	52
Ante-Natal Consultations— Number attending, . . . Total attendances, . . .	253 833	96 229	36 142	34 103	18 155	12 37	2 4	8 15	47 148	.. ..
Referred to pre-natal Wards, . . . Referred to Family Doctor, . . . Treated at Clinic, . . .	41 6 261	20 1 130	6 1 29	6 4 24	2 .. 16	.. 12	.. 2	.. 8	7 .. 40	.. .. ..
Post-Natal or other Consultations, . . .	370	97	39	9	86	25	3	6	155	..
Child Welfare Consultations— First Attendances— Under 1 year, . . . Over 1 year, . . . Total Attendances— Under 1 year, . . . Over 1 year, . . .	651 168 5343 2953	140 65 650 553	73 23 665 467	46 29 615 400	43 10 362 297	34 12 235 275	42 10 342 185	26 13 308 182	190 6 1235 397	57 .. 881 197
Total number of Children attending Clinic during year, . . .	1789	348	235	149	133	115	100	75	386	248
Attendances in connection with Milk Applications, . . .	985	74	74	92	24	15	43	81	582	..

COUNTY OF DUNBARTON.  
TABLE VII.—MATERNITY SERVICE AND CHILD WELFARE, 1939.  
CAUSES OF DEATH—CHILDREN UNDER ONE YEAR.

CAUSE OF DEATH.	Under 1 Week.	1 Week, and under 4 Weeks.	Total under 4 Weeks.	4 Weeks, and under 3 Months.	3 Months, and under 6 Months.	6 Months, and under 12 Months.	Total Deaths under 1 Year.	Rate per 1000 Births.
Smallpox, - - -	...	...	...	...	...	...	...	...
Chickenpox, - - -	...	...	...	...	...	...	...	...
Measles, - - -	...	...	...	1	...	...	1	·72
Scarlet Fever, - - -	...	...	...	...	...	...	...	...
Whooping-cough, - - -	...	...	...	...	...	1	1	·72
Diphtheria, - - -	...	...	...	...	...	...	...	...
Cerebro-Spinal Menin- gitis, - - -	...	...	...	...	...	...	...	...
Erysipelas, - - -	...	...	...	...	...	...	...	...
Dysentery, - - -	...	...	...	...	...	...	...	...
Tuberculous Meningitis,	...	...	...	...	...	1	1	·72
Other Tuberculous Dis- eases, - - -	...	...	...	...	...	...	...	...
Meningitis (not Tuber- culous), - - -	...	...	...	...	...	1	1	·72
Hydrocephalus, - - -	...	...	...	...	...	...	...	...
Convulsions, - - -	...	...	...	1	1	1	3	2·17
Pneumonia (all forms), -	...	...	...	1	...	...	1	·72
Bronchitis, - - -	...	1	1	1	1	2	5	3·62
Diarrhoea and Enteritis,	...	...	...	2	5	1	8	5·79
Other Digestive Diseases,	...	...	...	...	...	...	...	...
Congenital Malforma- tions, - - -	2	...	2	1	...	...	3	2·17
Congenital Heart, - - -	...	...	...	...	1	...	1	·72
Premature Birth, - - -	13	7	20	1	...	...	21	15·21
Atrophy, Debility, and Marasmus, - - -	1	1	2	2	...	...	4	2·89
Atelectasis, - - -	6	..	6	...	...	...	6	4·34
Injury at Birth, - - -	2	...	2	...	...	...	2	1·44
Suffocation, overlaying,	...	...	...	...	...	...	...	...
Syphilis, - - -	...	...	...	...	...	...	...	...
Rickets, - - -	...	...	...	...	...	...	...	...
All other causes, - - -	6	1	7	1	...	1	9	6·52
Total, - - -	30	10	40	11	8	8	67	48·55

NOTE.—Although the total number of infant deaths agrees with that of the Registrar General, the actual totals are not quite the same. This is due solely to the fact that general practitioners in signing death certificates are apt to put two or more causes of death, each of which might be fatal. In selecting the most likely cause of death for statistical purposes the Registrar General has probably selected one cause and I have selected another.

TABLE VIII.—MATERNITY SERVICE AND CHILD WELFARE SCHEMES.

SUPPLY OF FOOD AND MILK.

Statement showing quantity and cost of milk, milk substitutes and other food supplied under Maternity and Child Welfare Schemes to expectant and nursing mothers and children under five years of age during the years ended 31st December, 1937, 31st December, 1938, and 31st December, 1939.

	YEAR.					
	1937.		1938.		1939.	
	Mothers	Children	Mothers	Children	Mothers	Children
1. Number of persons supplied with liquid milk, dried milk, milk substitutes and other food preparations, - - - -	215	157	218	214	199	215
2. Liquid milk—						
Total quantity supplied (galls.)						
Grade T.T., - - - -	120	240	74	142	52	170
Grade—Pasteurised, - - -	914	332	1478	873	1380	1048
Grade—Ordinary, - - - -	384	1678	353	2287	323	2186
3. Dried milk and other milk substitutes—						
Total quantity supplied (lbs.), -	None		None		None	
Specify preparation, - - -						
4. Other food preparations.						
Include such dietary supplements as cod-liver oil, malt extracts, &c., and any provision made for cooked meals.						
5. Total cost to local authority (2)	£384	4 3	£557	13 8	£523	13 9
(Show under Heads 2, 3 and (3)	—		—		—	
4 separately, if possible). (4)	—		—		—	
Total, - - - -	£384	4 3	£557	13 8	£523	13 9
Amount recovered by local authority, - - - -	Nil		Nil		Nil	
Net cost, - - - -	£384	4 3	£557	13 8	£523	13 9

dentures, and the total estimated cost of this service was £53 0s. 6d.

Ultra-Violet Light Treatment is given at the Alexandria and Duntocher Child Welfare Clinics; at the installation attached to Helensburgh Hospital; and at the School Clinic, Kirkintilloch.

The number of attendances made by Child Welfare patients during the year totalled 504. 35 cases were dealt with, and the following statement gives details of the conditions treated and the results obtained:—

Condition.	No. of Patients.	Improved.	Condition Unchanged.
Rickets, - - - -	8	8	—
Malnutrition, - - -	5	4	1
Debility, - - - -	8	5	3
Adenitis associated with septic tonsils, &c., -	8	7	1
Bronchial conditions, -	3	2	1
Other conditions, - -	3	2	1

11. *Day Nurseries, Kindergartens, and Play Centres.*—The Day Nursery at Helensburgh was carried on by the County Council during the year. The total number of children attending was 45, of whom 14 were under one year and 31 over one year. The children under one year made 291 attendances, and those over one year 1125 attendances—a total of 1416.

12. *Food and Milk.*—(a) Number of persons in respect of whom applications were made for food or milk: (i) mothers, 205; (ii) children, 220. (b) Number of cases certified on medical grounds as requiring food or milk: (i) mothers, 202; (ii) children, 216. (c) Number of cases under (b) certified as necessitous—(i) mothers, 199; (ii) children, 215.

13. *Measles.*—(a) Number of cases notified—notification is not in force. (b) Number of deaths: (i) from measles, nil; (ii) from sequelæ, 1. (c) Number of cases removed to hospital, 4. (d) and (e) Number of special domiciliary visits and details of special staff engaged for epidemics—no arrangements of this kind were made.



Carcinoma of rectum,	-	-	-	-	-	-	1
Anæmia,	-	-	-	-	-	-	1
Previous still-birth,	-	-	-	-	-	-	2
Transverse lie,	-	-	-	-	-	-	1
Multiple pregnancy,	-	-	-	-	-	-	2
Fibroids,	-	-	-	-	-	-	1
Premature rupture of membranes,	-	-	-	-	-	-	1
Diabetic,	-	-	-	-	-	-	1
Previous section,	-	-	-	-	-	-	1
Scabies,	-	-	-	-	-	-	1
							<hr/>
Total,	-	-	-	-	-	-	87
							<hr/>

17. *Homes for Unmarried Mothers Before and After Confinement.*—No provision is made for these under the scheme.

18 and 19. *Hospital for Sick Children and Convalescent Homes.*—By arrangement with the Glasgow Poor Children's Fresh-Air Fortnight and Cripple Children's League, 14 children were treated at the Biggart Memorial Home, Prestwick, during the year.

20 and 21. *Boarding-out and Home Helps.*—It was not found necessary to take any action under these headings during the year.

22. *Educational.*—No special classes, lectures, or demonstrations were held in the County during the year.

23. *Agencies.*—There are no other agencies associated with the scheme.

24. *Puerperal Fever and Puerperal Pyrexia.*—

(1) Total number of cases (corrected figures as finally diagnosed)—

(a) Puerperal Fever,	-	-	-	9
(b) Puerperal Pyrexia,	-	-	-	21

2) Total number of cases removed to Infectious Diseases Hospital—

(a) Puerperal Fever,	-	-	-	8
(b) Puerperal Pyrexia,	-	-	-	17

(3) Total number of deaths, - - - -	1
(4) Number of cases following instrumental delivery—	
(a) Puerperal Fever, - - - -	Nil
(b) Puerperal Pyrexia, - - - -	2
(5) Number of deaths occurring in cases included under No. 4, - - - -	Nil
(6) Number of cases where the Local Authority provided assistance on the request of medical practitioners for—	
(a) Consultant service, - - - -	1
(b) Bacteriological examinations, - - - -	Nil
(c) Skilled nursing at home, - - - -	Nil
(d) Hospital treatment, - - - -	21

25. *Other Provisions.*—Arrangements have been made under the scheme for the provision of skilled assistance at confinement, and 113 applications for such assistance were received during the year. Of these, 81 were granted, 27 were refused, and in 3 cases the applications were withdrawn, while 2 applications were still undecided at the close of the year.

### INFANT LIFE PROTECTION.

#### CHILDREN AND YOUNG PERSONS (SCOTLAND) ACTS, 1908 TO 1932.

From the Return for the year ending 15th May, 1939, which is printed below, it will be seen that the number of children on the register was 9 less than in the preceding year. The following is the Return referred to:—

#### REGISTRATION.

*Note.*—Where one notice is received in respect of more than one child it should be treated as if a separate notice had been received in respect of each child mentioned.

Children on Infant Protection Register at 15th May,  
1938, - - - - - 27

Notices received in terms of section 1 (1) of the 1908 Act, as amended by section 59 (1) of the 1932 Act,	1
Notices received from guardians on removal to the area of the Council from the area of another Authority,	—
Total, - - - - -	28
Notices received under section 1 (5) of the 1908 Act—	
Of deaths of children, - - - - -	—
Of removals of children, - - - - -	—
Removals under section 61 of the 1932 Act of children improperly kept, - - - - -	—
Children otherwise removed from Register—	
(a) On attaining age of nine years, - - - - -	3
(b) On guardians' removal from area of Council,	1
(c) For other reasons, - - - - -	6
Children on Register at 15th May, 1939, - - - - -	18
Total, - - - - -	28

#### INFANT PROTECTION VISITORS.

##### (a) *Women Visitors*—

Number appointed, 9. Number who are also Health Visitors, 9.

##### (b) *Men Visitors*—

Number appointed, 2. Number who are also Public Assistance Officers, nil.

Total number of visits paid during year by Infant Protection visitors to children on Register, - - - 67

*Note.*—Each inspection of each child to be regarded as a separate visit, even where two or more children are resident with the same guardian.

#### PARTICULARS OF GUARDIANS.

Total number of guardians on Register, - - -	17
Number of guardians each keeping 3 infants for reward, - - - - -	—

Number of guardians each keeping 4 infants for reward, - - - - -	—
Number of guardians each keeping 5 or more infants for reward, - - - - -	—

## PROSECUTIONS.

For all offences under Part I of the 1908 Act and Part V of the 1932 Act, - - - - -	—
Of which for offences under section 1 (7) of the 1908 Act, - - - - -	—

## INFECTIOUS DISEASE.

*Enteric Fever.*—5 cases of typhoid fever were notified during 1939 as against 1 in 1938, distributed as follows: 2 in Bonhill, 1 in Rhu, 1 in Helensburgh, and 1 in Kirkintilloch Burgh. The cases in Bonhill were associated with the hut-dwellers—2 children, brothers, ages 12 and 5 years. One had a positive blood and one negative. The cases in Rhu and Helensburgh were 2 coloured seamen from a City Liner. One had a positive blood and one a negative, and one of these patients died. The fifth case had a negative blood and was otherwise atypical. All were removed to hospital. 1 death was recorded.

*Scarlet Fever.*—294 cases were intimated during the year as against 271 in 1938. The areas most affected were Bonhill Parish, Cardross, and Helensburgh. 269 cases were removed to hospital. There was 1 death from this cause as against 2 in 1938.

*Diphtheria.*—135 cases were notified as against 157 in 1938. Most of the cases came from the Kilpatrick Parishes. Of the 135 cases, 89 had positive swabs. 125 cases were removed to hospital. 5 deaths were recorded, being the same number as last year.

*Erysipelas.*—62 cases were notified as against 50 in 1938. 22 cases were removed to hospital.

*Puerperal Fever and Puerperal Pyrexia.*—9 cases of puerperal fever were reported, 8 of which were treated in hospital. 21 cases of puerperal pyrexia were notified, 17 of which were taken to hospital for treatment. The figures for the previous year were 20 and 15 respectively. There were 2 deaths.

*Primary Pneumonia.*—171 cases were reported as against 181 in 1938. 115 were treated in hospital. The total number of deaths from all forms of pneumonia was 29 as against 63 in the previous year.

*Influenzal Pneumonia.*—13 cases were notified as against 4 in 1938. 5 were removed to hospital.

*Cerebro-spinal Meningitis.*—5 cases were notified during the year as against 7 in 1938. All the cases were treated in hospital. 2 deaths occurred, both in the Landward areas of the County. Not 1 of the 5 cases gave a positive bacteriological result, but 1 of them was definitely pneumococcal meningitis.

*Dysentery.*—14 cases were notified during the year as against 24 in 1938. 8 of the cases occurred in an institution. Specimens showed that the outbreak was a Flexner infection. One case of Sonne infection contracted the disease in a Glasgow hospital. Two children in Helensburgh and one at the huts in Alexandria had a Flexner infection and the last case was not confirmed.

*Infectious Disease at Dairy Farms.*—8 cases of infectious disease occurred at dairy farms, as follows: Erysipelas, 1 case; scarlet fever, 3 cases; diphtheria, 4 cases. All these cases with the exception of the erysipelas case were removed to hospital. Appropriate steps were taken at all the farms affected and as far as could be ascertained no spread of infection occurred. All the diphtheria cases had positive swabs and there was some difficulty in getting their throats free from diphtheria bacilli.

*Infectious Disease in Children's Homes, &c.*—The follow-

## COUNTY OF DUNBARION.

TABLE IX.—CASES OF INFECTIOUS DISEASE COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER DURING 1939.

PARISH.	Enteric Fever.	Scarlet Fever.	Diphtheria and Mem. Group.	Erysipelas.	Puerperal Fever.	Puerperal Pyrexia.	Primary Pneumonia.	Influenzal Pneumonia.	Poliomyelitis.	Cerebro-spinal Meningitis.	Infective Jaundice.	Dysentery.	Ophthalmia Neonatorum.	Pulmonary Tuberculosis.	Other Tuberculosis.	Totals.
Arrochar,	..	5	6	..	..	..	..	..	..	..	..	..	..	1	..	12
Bonhill,	1	76	25	7	1	2	35	7	..	1	..	1	2	14	10	182
Cardross,	..	59	8	11	..	2	46	..	..	1	..	..	..	6	3	136
Dumbarton,	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Kilmaronock,	..	3	6	..	1	..	..	1	..	..	..	1	..	..	..	12
Luss,	..	5	2	..	..	..	..	..	..	..	..	..	..	..	..	7
Rosneath (Landward),	..	6	..	..	..	1	1	..	..	..	..	..	..	..	..	8
Rosneath (Burghal),	..	5	..	1	..	..	6	..	..	..	..	..	..	..	..	12
Rhu (Landward),	1	12	..	2	..	..	6	1	..	..	..	..	..	1	1	24
Rhu (Burghal),	2	34	14	9	..	3	20	3	1	..	..	2	..	7	2	97
West Kilpatrick,	..	20	30	11	..	3	22	..	..	1	..	1	..	6	3	97
East Kilpatrick (Landward),	..	21	20	4	..	2	6	..	..	..	..	1	..	9	2	65
East Kilpatrick (Burghal),	..	4	2	2	1	1	1	..	..	..	..	..	..	5	2	18
Kirkintilloch (Landward),	..	12	3	3	1	..	7	1	..	1	..	8	..	9	5	50
Kirkintilloch (Burghal),	1	23	14	9	4	4	21	..	..	1	..	..	1	8	10	96
Cumbernauld,	..	7	5	3	1	3	..	..	..	..	..	..	..	3	5	27
Totals,	5	294	135	62	9	21	171	13	1	5	..	14	3	69	43	845
Removed to Hospital,	5	269	125	22	8	17	115	5	1	5	..	11	3	42	14	642

\* The tuberculosis figures include all additions made to the register during the year; i.e. notified cases, cases transferred from other areas, and unnotified cases discovered in the death returns.

## COUNTY OF DUNBARTON.

TABLE X.—SHOWING THE NUMBER OF CASES OF INFECTIOUS DISEASE OCCURRING IN HOUSES OF DIFFERENT SIZES, &amp;c., IN 1939.

Disease.	Number of Apartments.						Cases occurring in					Total No. of Cases.
	One.	Two.	Three.	Four.	Five.	Over Five.	Institutions.	Hotels.	Ships.	Tents.	House-boats.	
Enteric Fever, ...	1	...	1	...	...	...	...	...	2	1	...	5
Scarlet Fever, ...	16	99	81	39	13	33	11	...	...	1	1	294
Diphtheria, ...	10	37	38	18	7	19	4	...	...	2	...	135
Erysipelas, ...	2	19	14	11	5	6	5	...	...	...	...	62
Puerperal Fever, ...	2	1	5	1	...	...	...	...	...	...	...	9
Poliomyelitis, ...	...	...	...	1	...	...	...	...	...	...	...	1
Primary Pneumonia, ...	8	62	48	27	11	12	3	...	...	...	...	171
Influenzal Pneumonia, ...	...	4	5	...	...	3	...	...	...	1	...	13
Puerperal Pyrexia, ...	5	6	6	2	...	...	2	...	...	...	...	21
Cerebro-Spinal Meningitis, ...	2	1	1	1	...	...	...	...	...	...	...	5
Dysentery, ...	1	1	...	2	1	1	8	...	...	...	...	14
	47	230	199	102	37	74	33	...	2	5	1	730

ing cases occurred: Erysipelas, 5; scarlet fever, 12; diphtheria, 3; pneumonia, 2; chickenpox, 1; puerperal pyrexia, 2. 2 of the cases of scarlet fever and 1 case of pneumonia were soldiers in "Barracks." The other cases were distributed over the various institutions in the County. Most of the cases were removed to hospital.

*Ships in Gareloch.*—During August two cases of enteric fever were removed to hospital from a ship lying in the Gareloch.

*Tent, Vans, Sheds and Houseboats.*—Five cases of infectious disease were removed from these types of dwellings—one case of scarlet fever and one of enteric fever from huts at Alexandria; two cases of diphtheria from a military camp and one case of scarlet fever from a houseboat at Balloch.

*Closure of Schools.*—It was not found necessary to close any of the schools during the year.

*Smallpox.*—No case of smallpox occurred within the County during the year. The arrangements for treatment, if required, remained as stated in last year's Annual Report.

*Vaccination.*—671 declarations of conscientious objection to vaccination were received during the year by the registrars in the various districts, as under:—

Arrochar,	-	-	-	-	-	-	2
Bonhill,	-	-	-	-	-	-	162
Cardross,	-	-	-	-	-	-	6
Dumbarton,	-	-	-	-	-	-	—
Kilcreggan and Cove,	-	-	-	-	-	-	—
Kilmaronock,	-	-	-	-	-	-	4
Luss,	-	-	-	-	-	-	1
Renton,	-	-	-	-	-	-	109
Rosneath (Landward),	-	-	-	-	-	-	1
Rosneath (Burghal),	-	-	-	-	-	-	2
Rhu (Landward),	-	-	-	-	-	-	58
Rhu (Burghal),	-	-	-	-	-	-	9

Cumbernauld, - - - - -	48
East Kilpatrick, - - - - -	15
Kirkintilloch (Landward), - - - - -	41
Kirkintilloch (Burghal), - - - - -	141
Milngavie (Landward), - - - - -	1
Milngavie (Burghal), - - - - -	11
West Kilpatrick, - - - - -	60
	<hr/>
	671
	<hr/>

War conditions have rendered the remarks made in previous years regarding the dangerously high percentage of unvaccinated children within the County even more applicable this year. The conscientious objections recorded is 61 per cent. of registered births.

## TUBERCULOSIS.

### REPORT ON COUNTY CASES AND TREATMENT.

At 31st December, 1939, the number of cases on the roll was 526. These cases were distributed as follows:—

254 Pulmonary cases.

272 Non-pulmonary cases.

*Pulmonary Tuberculosis.*—69 cases (33 males and 36 females) came to the notice of the Medical Officer during 1939. Of the 33 male cases, 27 were notified for the first time this year, 4 were transferred into this area, and 2 were found in the Death Returns. As regards the 36 female cases, 23 were notified for the first time this year, 1 of which was notified at death, 8 were transferred into this area, and 5 were found in the Death Returns.

Of these 69 cases, 11 had no sputum. In 4 cases where sputum was not obtainable the patients were inmates of Woodilee Mental Hospital, one being a case found in the Death Returns. In an additional 7 cases it was impossible to obtain information regarding sputum as one of the cases was notified at death and the other 6 were found in the Death

Returns. In another case the patient left the district immediately on notification before sputum examination was done. Of the remaining cases, 35 or 51 per cent. of the cases coming to our notice had a positive sputum. The age distribution of the cases was as follows :—

AGE PERIODS.								
Under 5	5—10	10—15	15—25	25—35	35—45	45—65	Over 65	Total
—	1	1	27	23	7	9	1	69

Of this number—

42 received sanatorium treatment during the year.

1 received domiciliary treatment.

22 died before the end of the year.

7 left the district.

The above total of 69 cases includes 4 patients from the Sanatorium of Woodilee Mental Hospital, all of whom died before the end of the year. 1 of these cases was found in the Death Returns, and another was certified as bronchopneumonia in the death certificate. Of the 2 remaining cases, 1 died from acute phthisis and the other from chronic phthisis. For statistical purposes these deaths are transferred to other Local Authorities and are not included in the undernoted table.

Another case which is not included in this table is that of a male adult whose death was discovered through the Death Returns. Cause of death was certified as pulmonary tuberculosis, respiratory failure, cardiac failure. This diagnosis was never confirmed, and at the end of the year the Registrar General did not classify the death as due to pulmonary tuberculosis.

Of those who died within the year, the average period of survival after coming to the notice of this Department was 6.32 weeks and the duration of life after coming to notice is shown in the following table :—

CASES COMING TO NOTICE DURING 1939 AND DYING WITHIN THE YEAR.								
Total	PERIOD OF SURVIVAL AFTER COMING TO NOTICE.							
	Under 1 Week	Under 1 Month	Under 3 M'ths	Under 6 M'ths	Under 9 M'ths	Over 9 M'ths	Notified at Death	In Death Returns
17	2	2	4	2	1	—	1	5

As regards the case notified at death, medical advice was only sought when the patient was in a critical condition, shortly before death.

Of the 5 cases found in the Death Returns, 2 were inmates of Larbert Asylum. The illness in the case of 1 of these Larbert cases was certified as of several months' duration. No duration of illness was stated in the other Larbert case. Of the 3 remaining cases, 1 was an inmate of Redlands Hospital, Glasgow. This patient was several months pregnant and death was certified as due to pleuro-pneumonia, secondary to tuberculosis of the right lung. No duration of the existence of tuberculosis was stated. The other case was certified as tuberculosis of spine (primary disease) with acute pulmonary tuberculosis (secondary disease). The final case was certified as diabetes mellitus, 15 years, with acute tubercle of lungs, 3 months.

The total pulmonary deaths for the year show a decrease of 7 compared with the previous year, there being 31 pulmonary deaths in 1938 as against 24 deaths this year.

*Non-Pulmonary Tuberculosis.*—During the year under review, 43 cases (19 males and 24 females) came to the notice of the Medical Officer. Of the 19 male cases, 16 were notified for the first time this year; 2 were cases which were transferred into this area and the remaining case was found in the Death Returns. With regard to the 24 female cases, 18 were notified for the first time during the year, 1 case was transferred into our area and 5 cases were found in the Death Returns. These cases may be conveniently classified according to age and situation of the disease as follows:—

Situation of the Disease.	AGE PERIODS.								Total.
	Under 5	5-10	10-15	15-25	25-35	35-45	45-65	65 & Over.	
Glands, -	3	7	5	1	—	1	—	—	17
Bones and Joints, -	—	1	—	4	—	—	—	1	6
Abdomen, -	2	1	—	—	—	1	—	—	4
Spine, -	—	—	2	1	2	—	—	—	5
Meninges, -	1	1	1	2	—	—	—	—	5
Skin, -	—	1	—	1	1	—	—	—	3
Other, -	—	—	—	—	2	1	—	—	3
Total, -	6	11	8	9	5	3	—	1	43

Of this number—

14 were treated in sanatoria.

3 received domiciliary treatment.

8 died before the end of the year, and in

1 case the patient was found not to be suffering from tuberculosis and his name was struck off the Tuberculosis Register.

There was an increase by 1 in the number of cases of non-pulmonary tuberculosis during 1939, 43 cases coming to our notice during 1939 as compared with 42 in 1938. As in previous years, "gland" infections were the largest proportion.

Of the above total of 8 deaths, 6 were discovered in the Death Returns, 1 was notified 2 days prior to death and the remaining case survived for 21.14 weeks. The average period of survival was therefore 2.64 weeks. The duration of life after coming to notice is shown in the following table:—

CASES COMING TO NOTICE DURING 1939 AND DYING WITHIN THE YEAR.								
Total	PERIOD OF SURVIVAL AFTER COMING TO NOTICE.							
	Under 1 Week	Under 1 Month	Under 3 M'ths	Under 6 M'ths	Under 9 M'ths	Over 9 M'ths	Notified at Death	In Death Returns
8	1	—	—	1	—	—	—	6

In 5 of the above cases, death was certified as being due to tuberculous meningitis. In 1 case the death certificate stated that the primary cause of death was abdominal tuberculosis with tuberculous meningitis as the secondary cause. One case was certified as miliary tuberculosis, although the case was notified to this Department as abdominal tuberculosis. In the remaining case, death was attributed to tuberculosis of spine and cerebral thrombosis.

There is an increase in the number of deaths from non-pulmonary tuberculosis amongst cases coming to notice during the year, as compared with the previous year, there being 8 deaths this year as against 6 deaths in 1938. There is, however, a decrease over the total non-pulmonary deaths for the year which shows a decrease of 1, compared with the year 1938, there being 8 non-pulmonary deaths in 1939 as against 9 non-pulmonary deaths returned by the Registrar General during 1938.

*Sanatorium Treatment.*—During the year there were 129 patients treated in sanatoria, 5 of whom had treatment in two institutions within the course of the year. The following table gives the names of the sanatoria and the number of patients who received treatment in each:—

Name of Sanatorium.	Number of Patients.
Lennox, - - - - -	22
Dumbarton, - - - - -	5
Helensburgh, - - - - -	16
Ruchill, - - - - -	4
Robroyston, - - - - -	6
Mearnskirck, - - - - -	2
Hairmyres, - - - - -	3
Shotts, - - - - -	1
Glenlomond, - - - - -	27
Tor-na-Dee, - - - - -	3
Bridge-of-Weir, - - - - -	14
St. Andrew's and Annexes, - - - - -	24
Biggart, - - - - -	5
East Park, - - - - -	1
Winsley, near Bath, Somerset, - - - - -	1

*Domiciliary Treatment.*—There were 69 patients (41 pulmonary and 28 non-pulmonary) receiving domiciliary treatment (milk and eggs) during the year, the cost of which

amounted approximately to £307 14s. 9d. The following table gives details of patients who were receiving these. The average duration of treatment for pulmonary patients was 9·43 months and for non-pulmonary 8·94 months.

		PULMONARY TUBERCULOSIS.		
		Number of Patients.	Total Number of Months.	Average Number of Months.
MALES.	Adults,	22	200·	9·09
	Children,	4	39·5	9·88
FEMALES.	Adults,	11	105	9·55
	Children,	4	42	10·5

		NON-PULMONARY TUBERCULOSIS.		
		Number of Patients.	Total Number of Months.	Average Number of Months.
MALES.	Adults,	4	43	10·75
	Children,	4	30	7·5
FEMALES.	Adults,	7	75	10·71
	Children,	13	102·25	7·87

There has been a decrease in the total number of patients receiving domiciliary treatment as compared with the previous year, and the total number of months for which these extras were supplied has also been accordingly decreased.

*Drugs.*—Drugs were given at an approximate cost of £22 9s. 9d. These were chiefly prescribed by the family practitioners in charge of home cases, and also include dressings.

*Dispensary Treatment.*—There has been no change to record in the working of the clinics.

*Pneumothorax Treatment.*—No centre for the treatment of

pneumothorax has yet been started in this County, but arrangements are made for the provision of this form of treatment outwith the County.

*X-Ray Examinations.*—During 1939, 263 X-ray examinations were carried out, 240 for pulmonary and 23 for non-pulmonary conditions (228 of these examinations were carried out by the portable X-ray unit). 85 of the pulmonary conditions gave positive and 155 negative results. Of the 23 non-pulmonary conditions, 5 gave positive and 18 negative results. The following table gives particulars of the conditions with regard to localisation of disease and relative results :—

Localisation of Disease.	Number of Patients.	Results.	
		Positive.	Negative.
Chest, - - - - -	240	85	155
Spine, - - - - -	6	2	4
Joints—Hip, - - - - -	7	2	5
Knee, - - - - -	1	—	1
Elbow, - - - - -	1	—	1
Shoulder, - - - - -	1	—	1
Bones—Hand, - - - - -	3	1	2
Foot, - - - - -	1	—	1
Wrist, - - - - -	1	—	1
Ribs, - - - - -	1	—	1
Skull, - - - - -	1	—	1

SUMMARY OF TUBERCULOSIS STATISTICS.—The undernoted are the main statistics for the County (Landward) area for 1939 :—

- 49 Pulmonary cases coming to notice.
- 29 Non-pulmonary cases coming to notice.
- 20 Deaths (14 pulmonary and 6 non-pulmonary).
- 88 Cases treated in sanatoria.
- 48 Cases granted domiciliary treatment.

The total death-rate was  $\cdot 35$  of the population compared with  $\cdot 34$  in 1938; pulmonary death-rate being  $\cdot 24$ , and non-pulmonary death rate  $\cdot 11$ .

The statistics for the Small Burghs are as follows:—

*Kirkintilloch.*

- 8 Pulmonary cases coming to notice.
- 10 Non-pulmonary cases coming to notice.
- 5 Deaths (3 pulmonary and 2 non-pulmonary).
- 17 Cases treated in sanatoria.
- 10 Cases granted domiciliary treatment.

The total death-rate was  $\cdot 38$  of the population compared with  $\cdot 70$  in 1938; pulmonary death-rate being  $\cdot 23$  and non-pulmonary death rate  $\cdot 15$ .

*Milngavie.*

- 5 Pulmonary cases coming to notice.
- 2 Non-pulmonary cases coming to notice.
- 2 Deaths (pulmonary).
- 8 Cases treated in sanatoria.
- 4 Cases granted domiciliary treatment.

The total death-rate, which was also the pulmonary death-rate was  $\cdot 31$  of the population compared with  $\cdot 64$  in 1938.

*Helensburgh.*

- 7 Pulmonary cases coming to notice.
- 2 Non-pulmonary cases coming to notice.
- 5 Deaths (pulmonary).
- 15 Cases treated in sanatoria.
- 6 Cases granted domiciliary treatment.

The total death-rate, which was also the pulmonary death-rate, was  $\cdot 57$  of the population compared with  $\cdot 91$  in 1938.

*Cove and Kilcreggan.*

- 1 Case treated in sanatorium.
- 1 Case granted domiciliary treatment.

There were no deaths.

*General Remarks.*—Under this heading last year was stressed the necessity for having within this County a suitable hospital for the treatment of all forms of tuberculosis in all their stages. This has become increasingly more evident

during the latter months of the year under review. The following is a summary of the reasons in support of this:—

(1) Patients object to going far from home for treatment or diagnosis and it is extremely difficult for relatives to travel a distance to visit patients owing to black-out conditions and reduced transport facilities.

(2) Accommodation for tuberculous patients in institutions outwith the County has become extremely limited, as certain of these institutions have been partly or wholly converted into casualty hospitals.

(3) It has, of necessity, been the custom to send patients requiring artificial pneumothorax and other forms of operative treatment to institutions outwith the County, whereas cases unsuitable for such forms of treatment are admitted to institutions within the County. This has a detrimental effect on the latter class of patient psychologically, as he is inclined to think that his condition is so advanced as to render his prognosis hopeless.

As domiciliary treatment given consists of a daily supply of milk and eggs, it is to be hoped, that, if a scarcity of these commodities occurs, steps will be taken to see that tuberculous patients receive preferential treatment and also that they receive an adequate supply of rationed foods.

#### TREATMENT OF VENEREAL DISEASES.

The arrangements for treatment of patients suffering from venereal diseases continued to be satisfactory. Travelling expenses amounted to £14 15s. 3d. for a total of 14 patients. Glasgow Corporation Laboratories had 74 specimens submitted by general practitioners for examination. Bloods for Wassermann reaction numbered 63, of which 10 were positive, 51 negative, and 2 were lysed. Exudates numbered 10, 1 positive and 9 negative, while 1 specimen of fluid was found to be positive. 4 general practitioners were supplied with drugs to the extent of 36 doses.

The following table gives details of numbers treated in hospitals and clinics and it is of interest to note that the total cost for the year of all Venereal Diseases Services was approximately £440.

TABLE GIVING DETAILS OF TREATMENT AT VENEREAL DISEASE CLINICS FOR THE YEAR ENDED 30TH NOV., 1939.

TREATMENT CENTRE.	IN-PATIENTS.		OUT-PATIENTS.	
	Number of persons not previously Out-Patients admitted as In-Patients.	Aggregate number of In-Patient days.	Number of persons not previously In-Patients treated at Out-Patient Clinics.	Aggregate Out-Patient attendances.
Western Infirmary, -	—	3	4	278
Eye Infirmary, -	—	—	2	164
Black Street Dispensary, -	—	—	36	444
Broomielaw Treatment Centre, -	—	—	10	165
Belvidere Hospital, -	—	135	—	—
Bellahouston Treatment Centre, -	—	—	—	—
Lock Hospital, -	1	17	1	56
Baird Street Hospital, -	—	56	3	41
Sick Children's Hospital, -	—	—	1	43
Maternity Hospital, -	—	—	10	52
Govan Dispensary, -	—	—	—	—
Victoria Infirmary, -	—	—	—	—
Totals, -	1	* 211	67	1243

### BACTERIOLOGICAL EXAMINATIONS.

On 11th September the County Public Health Laboratory was absorbed into the Emergency Bacteriological Services arranged by the Department of Health for Scotland and staffed by members of the new organisation. On 22nd December the new Emergency Laboratory premises were occupied and all bacteriological examinations which were previously done by members of the Public Health staff or by arrangement with the Glasgow Public Health Laboratory are now done there. Statistics for the year up to the date of transfer will be found in Table No. XI.

TABLE XI.—BACTERIOLOGICAL EXAMINATIONS IN COUNTY LABORATORY, 1939.\*

NATURE OF SPECIMEN.	Western Area.		Eastern Area.		Burgh of Milngavie.		Burgh of Helensburgh.		Burgh of Kirkintilloch.		Burgh of Cove and Killcreggan.		Duntocher Hospital.		Helensburgh Hospital.		Lennox Hospital.		Burgh of Dumbarton.		Dumbarton Joint Hospital.		Schools.		TOTAL.
	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	
Sputa for Tubercle Bacilli, -	10	45	1	43	3	14	1	24	5	17	1	1	..	..	7	10	8	2	37	14	41	..	..	..	202
Swabs for Diphtheria Bacilli, -	12	98	8	88	..	15	3	49	..	4	4	23	85	5	43	67	22	64	135	449	..	..	..	..	1188
Blood Agglutination— Typhoid, Para-Typhoid, -	..	12	..	..	..	6	4	4	..	10	..	2	..	..	..	8	..	1	..	..	..	..	..	..	47
Blood Agglutination—B. Abortus, -	..	6	..	1	1	2	2	2	..	5	..	1	..	..	..	4	..	1	..	..	..	..	..	..	25
Urine for Tubercle Bacilli, -	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	3	..	..	1	..	..	..	6
Pus for Tubercle Bacilli, -	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
Pleural Fluid for Tubercle Bacilli, -	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	..	..	5
Swab for Tubercle Bacilli, -	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Cerebro-Spinal Fluid for Tubercle Bacilli, -	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cerebro-Spinal Fluid for Staphylococci, -	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fluid for Meningococci, -	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	1	3	..	..	..	7
Swab for Meningitis, -	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Swab for Vincent's Angina, -	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Urine for Pyelitis, -	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Smear for Gonococci, -	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hair for Ringworm, -	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals, -	22	164	10	135	4	37	10	80	5	36	5	23	88	12	55	23	88	25	106	150	490	..	..	..	1577

\* Under the Emergency Bacteriological Service instituted by the Department of Health for Scotland the County Laboratory was taken over on 1.10.39. The statistics for that date.

## MEDICAL TREATMENT OF THE SICK POOR.

There were no changes in the arrangements for the medical treatment of the sick poor during the year nor in the personnel of the District Medical Officers.

The following are the figures usually given to the Department of Health on Health Services, Form 8:—

	Males.	Females.	Children.	Total.
(a) Persons who received outdoor medical relief in the Council's area.	828	1,536	1,382	3,746
(b) Persons who received medical treatment under the Poor Law in—				
(1) the Council's institutions, including combination institutions in which the Council has a share.	78	40	3	121
(2) other, including voluntary, institutions.	44	54	21	119
TOTALS :	950	1,630	1,406	3,986

NOTE: Persons who in virtue of Section 14 (4) of the Local Government (Scotland) Act, 1929, received domiciliary or institutional treatment otherwise than under the Poor Law are not to be included in these figures.

The question of a rearrangement of the dental services was considered but no change was made. The following is a report submitted to the committee on this subject:—

### “ REPORT ON DENTAL TREATMENT UNDER THE PUBLIC ASSISTANCE MEDICAL SCHEME.

“ Owing to the gradual increase in the cost of the existing arrangements, it was remitted to me to furnish a report on a scheme under which a whole-time dentist would be available. The following report explains the existing scheme and

then gives details of the cost if the same work were undertaken by the Local Authority.

*Existing Arrangements—*

When an application accompanied by a satisfactory medical certificate is received, the case is submitted to the next Meeting of the Public Health General Sub-Committee. If approved, the case is referred to the dentist whose estimate had been previously obtained by the Public Assistance Officer. The charges are those fixed for dental work under the National Health Insurance Scheme. In certain cases a refund is asked in accordance with the scale detailed by the Chief Public Assistance Officer and approved by this Committee.

*Increase in Work Done—*

The amount of work done in treating dental defects in Public Assistance cases has increased considerably in recent years. In 1936-37, 106 persons were treated; in 1937-38, 144 persons were treated; and for the first six months of 1939, 122 persons were treated. The costs were as follows: 1936-37, £527 13s. 6d.; 1937-38, £719 0s. 4d.; half-year to June, 1939, £708 5s. 10d.

It is interesting to notice, however, that since then the numbers have fallen in rather a curious way. In June there were only 9 cases; in August, 22; in September, 1; in October, 10. The total cost for these five months (there was no Meeting in July) was only £195 1s. 9d. This shows how extremely difficult it is to estimate the amount of work required to be done and also how irregular the work of a whole-time dentist would be.

*Possible Scheme—*

In order to cover the whole County, it would be necessary to have at any rate three centres, which would consist of a waiting room, a surgery, and a lavatory. These centres might possibly be situated in Alexandria, Duntocher or Old Kilpatrick, and Kirkintilloch. It is very difficult to say what premises could be obtained, but supposing shops and backshops, &c., were available the rent might possibly be in

the region of £30 a year in each case, to which would be added occupier's rates and taxes. I have made out a statement of the possible annual costs and possible yearly expenditure.

*Annual Costs—*

Rent of premises—3 at £30, - - -	£90	0	0
Salary of dentist (average), - - -	525	0	0
Salary of attendant (average), - - -	70	0	0
Mechanic's fees (say 160 cases at 36s.), -	288	10	0
Anæsthetist's fees (say), - - - -	15	15	0
Drugs, dressings, &c., - - - -	30	0	0
	<hr/>		
	£1019	5	0
	<hr/>		

There would also be the cost of fitting up the clinics, which would be as follows:—

Painter work, fitting in water-closet, hand-basins, &c., in 3 clinics, say, -	£150	0	0
Dental fittings for 3 clinics, say, - -	462	0	0
Forceps and other instruments, &c., -	23	0	0
	<hr/>		
	£635	0	0
	<hr/>		

It will be noticed that nothing has been put into the annual costs for repairs, renewals, lighting, heating, rates and taxes, interest on capital, linen, laundry, soap, cleaning, &c., which although small items in themselves would bring the cost of the service up very considerably.

It might, of course, even be considered that three centres would be insufficient, because there would have to be arrangements for Public Assistance patients in such places as Helensburgh, Waterside, Castlecary, Cumbernauld, &c., to attend at the nearest centre and of course their travelling expenses would have to be paid.

While, of course, it is for the Committee to decide on the introduction of a Scheme of this description, I am personally of the opinion that, owing to the indefinite number of

patients per month and the great fluctuations, the arrangements I have detailed might be unsatisfactory and expensive.”

(Signed) THOMAS LAUDER THOMSON,  
*County Medical Officer.*

COUNTY HEALTH DEPARTMENT,  
88 COLLEGE STREET, DUMBARTON,  
10th October, 1939.”

## HOSPITAL AND AMBULANCE FACILITIES.

### INFECTIOUS DISEASES HOSPITALS.

There were no developments during the year which call for comments other than a reiteration of the remarks made in the Annual Reports for some years back.

The details of cases treated are given in the tables annexed and the following are the statistics usually included in the form of return made to the Department of Health:—

#### *Helensburgh Hospital.*

(1) Total number of admissions, - - -	162
(2) Total number of patients discharged, - -	144
(3) Total number of deaths, - - - -	13
(4) Average duration of stay of patients included in 2 and 3 above (total patient-days divided by the sum of the deaths and discharges), days	56
(5) Number of beds occupied:	
(a) Average during the year, - - -	24
(b) Highest—on 10th and 17th September, 1939, - - - - -	35
(c) Lowest—on 27th and 28th February, 1939, - - - - -	14
(6) Number of surgical operations:	
(a) Under general or spinal anæsthesia, -	1
(b) Other operations, - - - - -	3

#### *Duntocher Hospital.*

(1) Total number of admissions, - - -	166
(2) Total number of patients discharged, - -	150

TABLE XII.—ADMISSIONS TO HELENSBURGH HOSPITAL, 1939.

Age in Years.	0-5		5-10		10-20		20-30		30-40		40-50		Over 50		Totals.				
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Both		
SCARLET FEVER—																			
Recovered, - - - - -	17	10	11	20	9	8	1	2	1	1	...	...	...	...	...	...	39	41	80
Remaining, - - - - -	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	...	2
SCARLET FEVER and DIPHThERIA—																			
Recovered, - - - - -	...	...	...	1	1	...	...	...	...	...	...	...	...	...	1	...	1	...	1
Remaining, - - - - -	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	2	2
DIPHThERIA—																			
Recovered, - - - - -	2	1	5	2	1	3	2	1	...	...	...	...	...	...	10	8	18	18	
Remaining, - - - - -	2	4	2	...	...	1	...	...	...	...	...	...	...	...	4	5	9	9	
Died, - - - - -	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	
PNEUMONIA—																			
Recovered, - - - - -	4	2	2	1	...	3	2	1	1	1	1	...	1	1	11	7	18	18	
Died, - - - - -	...	...	...	...	...	...	...	...	...	...	...	...	3	1	4	1	5	5	
ERYSIPELAS—																			
Recovered, - - - - -	1	...	...	...	...	...	...	1	1	...	...	...	2	1	4	2	6	6	
MENINGITIS T.B.—																			
Died, - - - - -	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1	1	
TUBERCULOSIS—																			
Discharged, - - - - -	...	...	...	...	...	...	2	3	2	2	...	...	...	1	5	7	12	12	
Died, - - - - -	...	...	...	...	1	...	...	1	2	1	1	2	1	1	4	2	6	6	
Remaining, - - - - -	...	...	...	...	4	...	2	1	...	...	...	2	...	2	6	5	11	11	
Totals, - - - - -	30	17	20	24	16	16	9	10	5	4	5	2	7	7	92	80	172	172	

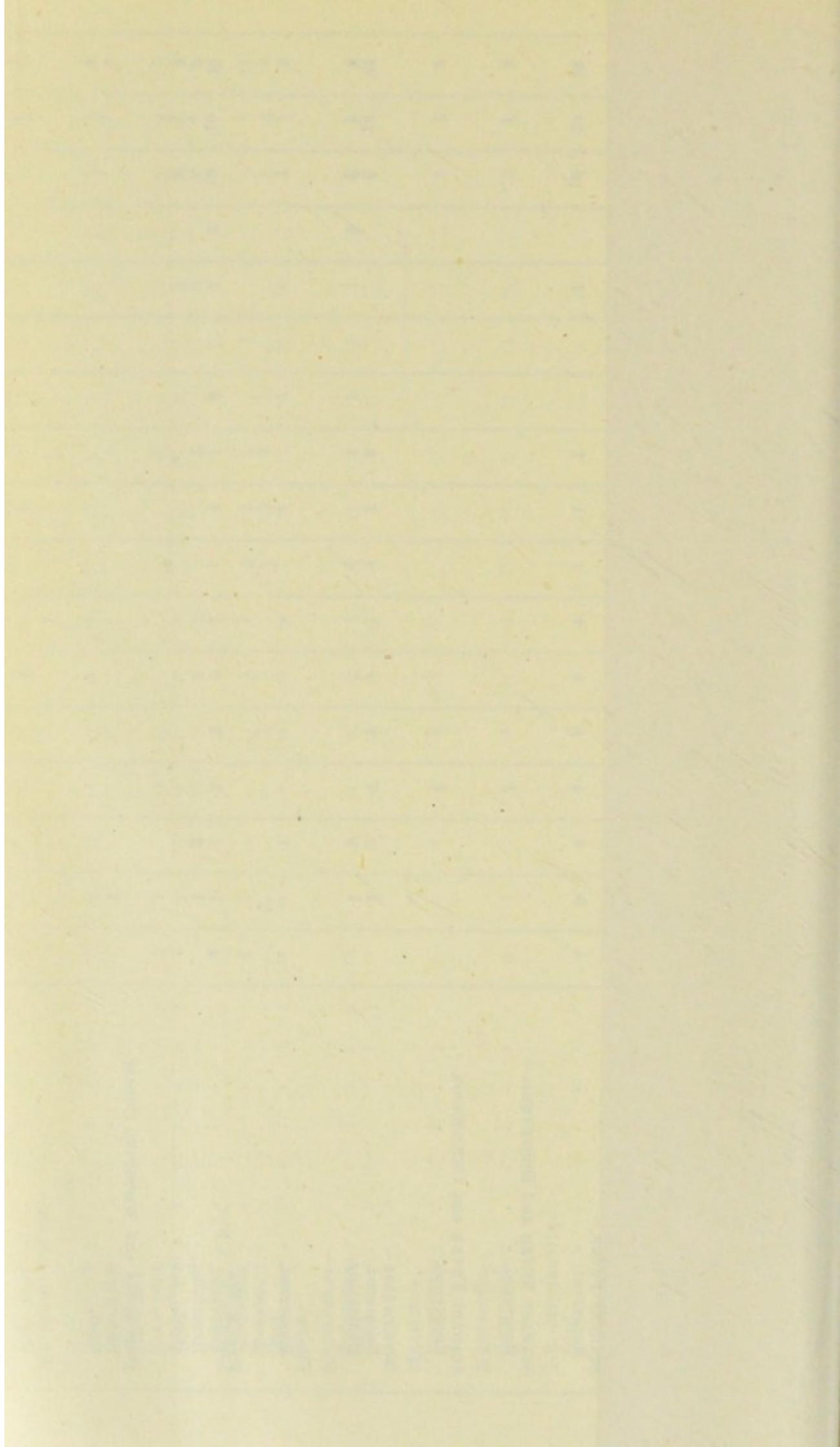
TABLE XIII.—ADMISSIONS TO DUNTOCHER HOSPITAL, 1939.

	Age in Years.												Totals.					
	0-5		5-10		10-20		20-30		30-40		40-50		Over 50		M.	F.	BOTH.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.						
SCARLET FEVER—																		
Recovered,	3	4	8	10	6	1	2	1	1	1	1	1	1	1	13	23	36	
Transferred to Mugdock Hospital,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	5	
DIPHTHERIA—																		
Recovered,	11	13	11	15	9	1	3	1	1	1	2	1	1	29	43	72		
Died,	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
Remaining,	3	1	2	3	2	2	2	2	2	2	2	2	2	7	4	11	11	
PNEUMONIA—																		
Recovered,	2	4	5	5	5	3	3	5*	2	2	2	1	3	20	5	25	25	
Died,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
CEREBRO-SPINAL FEVER—																		
Died,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
ERYSIPELAS—																		
Recovered,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
CHICKENPOX—																		
Recovered,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GERMAN MEASLES—																		
Recovered,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SCABIES—																		
Recovered,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	
IMPETIGO—																		
Recovered,*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
OBSERVATION—																		
Recovered,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
Totals,	22	25	24	30	15	20	7	6	1	2	4	4	4	78	88	160	160	

\* One patient was transferred to Ruchill Hospital where diagnosis of Tuberculous Meningitis was made.

TABLE XIV.—ADMISSIONS TO LENOX HOSPITAL, 1939.

Age of Patients.	Age of Patients.												Totals.					
	0-5		6-10		10-20		20-30		30-40		40-50		Over 50		M.	E.	Both	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
CHICKENPOX— Recovered, . . . . .	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
SCARLET FEVER— Recovered, . . . . .	4	0	5	4	4	5	1	1	1	1	..	..	..	1	..	16	20	36
SCARLET FEVER and DIPHTHERIA— Recovered, . . . . .	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1
SCARLET FEVER and CHICKENPOX— Recovered, . . . . .	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1
DIPHTHERIA— Recovered, . . . . .	..	2	2	7	2	1	1	2	1	2	..	..	..	..	..	6	14	20
Remaining, . . . . .	..	1	2	..	..	2	..	2	..	1	..	..	..	..	..	2	7	9
Died, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	8
GROUP— Recovered, . . . . .	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
PNEUMONIA— Recovered, . . . . .	4	1	1	1	2	3	1	1	4	1	3	1	4	2	..	19	10	29
Remaining, . . . . .	..	1	2	..	..	1	1	..	2	2	..	..	2	..	..	5	4	9
Died, . . . . .	..	1	..	..	..	..	..	..	..	..	..	..	7	..	..	7	1	8
PNEUMONIA and WHOOPING COUGH— Recovered, . . . . .	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Died, . . . . .	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
WHOOPING COUGH— Recovered, . . . . .	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	1
TYPHOID FEVER— Recovered, . . . . .	1	..	1	..	2	..	1	..	1	..	..	..	..	..	..	6	..	6
Died, . . . . .	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	1
PARA-TYPHOID FEVER— Recovered, . . . . .	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1
DYSENTERY— Recovered, . . . . .	1	1	..	1	..	..	..	..	..	2	..	..	..	..	..	1	4	5
Remaining, . . . . .	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
PULMONARY T.B.— Recovered, . . . . .	1	..	..	..	1	3	3	3	1	1	..	1	..	..	..	5	6	11
Remaining, . . . . .	..	..	..	..	1	1	1	1	3	1	1	..	..	..	..	5	3	8
Died, . . . . .	..	..	..	..	..	1	..	..	1	..	1	..	..	..	..	4	1	5
ERYSIPELAS— Recovered, . . . . .	..	..	1	..	..	..	1	..	1	2	1	1	1	2	4	4	5	9
Died, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
MEASLES— Recovered, . . . . .	..	..	..	1	2	1	..	..	..	..	..	..	..	..	..	2	2	4
MENINGITIS— Recovered, . . . . .	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	2	1	3
T.B. MENINGITIS— Died, . . . . .	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	2	..	2
SCABIES— Recovered, . . . . .	1	..	2	2	2	3	..	..	..	..	..	..	..	..	..	5	5	10
RHEUMATIC FEVER— Recovered, . . . . .	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	1
LYMPHANGITIS— Recovered, . . . . .	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	1
Totals, . . . . .	13	18	18	18	19	20	12	10	15	13	6	4	17	5	100	88	188	188



(3)	Total number of deaths, - - - -	5
(4)	Average duration of stay of patients included in 2 and 3 above (total patient-days divided by the sum of the deaths and discharges),	days 34
(5)	Number of beds occupied :	
	(a) Average during the year, - - -	14
	(b) Highest—on 28th November, 1939, -	29
	(c) Lowest—on 9th July, 1939, - -	5
(6)	Number of surgical operations :	
	(a) Under general or spinal anæsthesia, -	3
	(b) Other operations, - - - -	9

*Lennox Hospital.*

(1)	Total number of admissions, - - -	185
(2)	Total number of patients discharged, - -	145
(3)	Total number of deaths, - - - -	18
(4)	Average duration of stay of patients included in 2 and 3 above (total patient-days divided by the sum of the deaths and discharges),	days 50
(5)	Number of beds occupied :	
	(a) Average during the year, - - -	22
	(b) Highest—on 27th January, 1939, -	31
	(c) Lowest—on 24th April, 1940, - -	17
(6)	Number of surgical operations :	
	(a) Under general or spinal anæsthesia, -	1
	(b) Other operations, - - - -	6

*Dumbarton Joint Hospital.*

(1)	Total number of admissions, - - -	558
(2)	Total number of patients discharged, - -	485
(3)	Total number of deaths, - - - -	28
(4)	Average duration of stay of patients included in 2 and 3 above (total patient-days divided by the sum of the deaths and discharges),	days 39
(5)	Number of beds occupied :	
	(a) Average during the year, - - -	55
	(b) Highest—on 10th April, 1939, - -	74
	(c) Lowest—on 11th January, 1939, - -	35

TABLE XV.—ADMISSIONS TO DUMBARTON JOINT HOSPITAL, 1939.

	Age in Years.												Totals.				
	0-5		5-10		10-20		20-30		30-40		40-50		Over 50		M.	F.	BOTH.
SCARLET FEVER—																	
Recovered, -	25	32	46	54	18	35	3	5	1	1	1	1	1	1	1	1	221
Remaining, -	2	..	3	5	2	1	1	..	..	..	..	..	..	..	..	..	14
Died, -	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
SCARLET FEVER AND CHICKENPOX—																	
Died, -	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
CHICKENPOX—																	
Recovered, -	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
DIPHTHERIA—																	
Recovered, -	14	18	21	28	12	22	2	1	1	1	1	1	1	1	1	1	123
Remaining, -	4	4	5	3	2	3	..	..	..	..	..	..	..	..	..	..	21
Died, -	5	1	1	2	..	1	..	..	..	..	..	..	..	..	..	..	10
PNEUMONIA—																	
Recovered, -	19	8	11	2	14	7	8	4	2	12	14	5	6	10	8	8	122
Remaining, -	1	..	2	..	..	..	1	..	..	3	..	..	1	..	..	..	8
Died, -	2	..	..	..	..	..	..	..	..	..	..	..	..	5	2	2	9
CEREBRO-SPINAL FEVER—																	
Recovered, -	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	2
Died, -	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	3
T.B. MENINGITIS—																	
Died, -	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	2
DYSENTERY—																	
Recovered, -	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	2
ERYSIPELAS—																	
Recovered, -	..	..	..	..	..	..	..	..	1	1	..	1	1	4	5	3	8
TUBERCULOSIS—																	
Discharged, -	..	..	..	..	..	..	..	..	..	3	2	2	..	1	6	6	6
Died, -	..	..	..	..	..	..	..	..	..	..	2	..	..	..	2	2	2
Remaining, -	..	..	..	..	..	..	..	..	..	..	2	..	..	..	2	2	2
Totals, -	76	64	90	97	49	70	15	10	6	21	21	8	20	12	266	558	

## (6) Number of surgical operations :

(a) Under general or spinal anæsthesia, -	8
(b) Other operations, - - - - -	6

*Mugdock Hospital, Milngavie.*

This hospital was opened under the Emergency Hospital Scheme on 5th September, 1939. It has 36 beds and during the period ending 31st December, 1939, 59 patients were admitted and 45 discharged.

## GENERAL HOSPITALS.

No further progress was made in this matter during the year.

## AMBULANCE SERVICES.

The previously existing arrangements for infectious diseases and general ambulance services are still maintained.

## ULTRA-VIOLET LIGHT TREATMENT.

Arrangements for these services are being continued as nearly to normal as the special circumstances in the various areas permit. The following are the details of the work done at each Clinic—

## ALEXANDRIA CLINIC.

*Maternity and Child Welfare Cases Treated.*

Number of patients treated, - - - -	22
Total number of attendances, - - - -	345
Average number of treatments, - - - -	16

	Number of Patients.	Improved.	Condition Unchanged.
Rickets, - - - -	5	5	—
Malnutrition, - - - -	5	4	1
Adenitis associated with septic tonsils, &c., - -	4	4	—
Bronchial conditions, - -	3	2	1
Debility, - - - -	2	1	1
Others, - - - -	3	1	2

*School Cases Treated.*

Number of patients treated, - - -	29
Total number of attendances, - - -	622
Average number of treatments, - - -	22

	Number of Patients.	Improved.	Condition Unchanged.
Debility, - - - -	10	8	2
Bronchial conditions, - - -	2	1	1
Adenitis associated with septic tonsils, &c., - - -	5	4	1
Skin conditions, - - - -	1	—	1
Rheumatism, - - - -	2	1	1
Others, - - - -	9	7	2

*Tuberculosis Patients Treated.*

Number of patients treated, - - -	15
Total number of attendances, - - -	250
Average number of treatments, - - -	17

	Number of Patients.	Improved.	Condition Unchanged.
Adenitis, - - - -	11	9	2
Abdominal, - - - -	3	2	1
Joints, - - - -	—	—	—
Lupus, - - - -	—	—	—
Others, - - - -	1	1	—

## KIRKINTILLOCH CLINIC.

*Maternity and Child Welfare Cases Treated.*

Number of patients treated, - - -	11
Total number of attendances, - - -	143
Average number of treatments, - - -	13

	Number of Patients.	Improved.	Condition Unchanged.
Debility, - - - -	6	6	—
Glands, - - - -	2	2	—
Rickets, - - - -	3	3	—

*School Cases Treated.*

Number of patients treated, - - -	13
Total number of attendances, - - -	386
Average number of treatments, - - -	30

				Number of Patients.	Improved.	Condition Unchanged
Debility,	-	-	-	7	4	3
Glands,	-	-	-	6	4	2

*Tuberculosis Patients Treated.*

Number of patients treated,	-	-	-	-	16
Total number of attendances,	-	-	-	-	256
Average number of treatments,	-	-	-	-	16

				Number of Patients.	Improved.	Condition Unchanged.
Lupus,	-	-	-	4	1	3
Glands,	-	-	-	10	10	—
Debility,	-	-	-	1	1	—
Abdominal,	-	-	-	1	1	—

DUNTOCHER CLINIC.

*Maternity and Child Welfare Cases Treated.*

Number of patients treated	-	-	-	-	2
Total number of attendances,	-	-	-	-	16
Average number of treatments,	-	-	-	-	8

				Number of Patients.	Improved.	Condition Unchanged.
Adenitis,	-	-	-	2	1	1

*School Cases Treated.*

Number of patients treated,	-	-	-	-	4
Total number of attendances,	-	-	-	-	132
Average number of treatments,	-	-	-	-	33

				Number of Patients.	Improved.	Condition Unchanged.
Bronchitis,	-	-	-	2	2	—
Debility,	-	-	-	2	1	1

*Tuberculosis Patients Treated.*

Number of patients treated,	-	-	-	-	9
Total number of attendances,	-	-	-	-	333
Average number of treatments,	-	-	-	-	37

				Number of Patients.	Improved.	Condition Unchanged.
Glands,	-	-	-	6	5	1
Abdominal,	-	-	-	1	1	—
Others,	-	-	-	2	2	—

## SUPPLY OF INSULIN IN DIABETIC CASES.

Nineteen patients received insulin during the year, three of whom paid the net cost of their supplies. The total amount issued was 175,600 units, costing £58 1s. 9d. Refunds were received for 29,200 units.

## BLIND PERSONS ACT.

Activities on behalf of the blind persons within the County were continued to their full extent during the year. Blind persons from the Clydebank area were removed to a hostel at Clynder under the Evacuation Scheme. The following tables are included to preserve the continuity of the statistical records of blindness within the County:—

## STATEMENT SHOWING NUMBER OF BLIND PERSONS ON REGISTER DURING 1939.

	On Register at 1/1/39.	Added during year.	Total.	Died During Year.	Left district during year.	Certification withdrawn.	On Register at 31/12/39.
Burgh of Clydebank, ...	64	5	69	7	...	...	62
Burgh of Kirkintilloch, ...	11	2	13	1	...	...	12
Burgh of Helensburgh, ...	7	1	8	1	...	...	7
Burgh of Milngavie, ...	7	3	10	...	...	...	10
Burgh of Kilcreggan, ...	1	...	1	...	...	...	1
Eastern Area							
(Landward), ...	31	6	37	1	1	...	35
Western Area							
(Landward), ...	43	7	50	6	...	...	44
	164	24	188	16	1	...	171

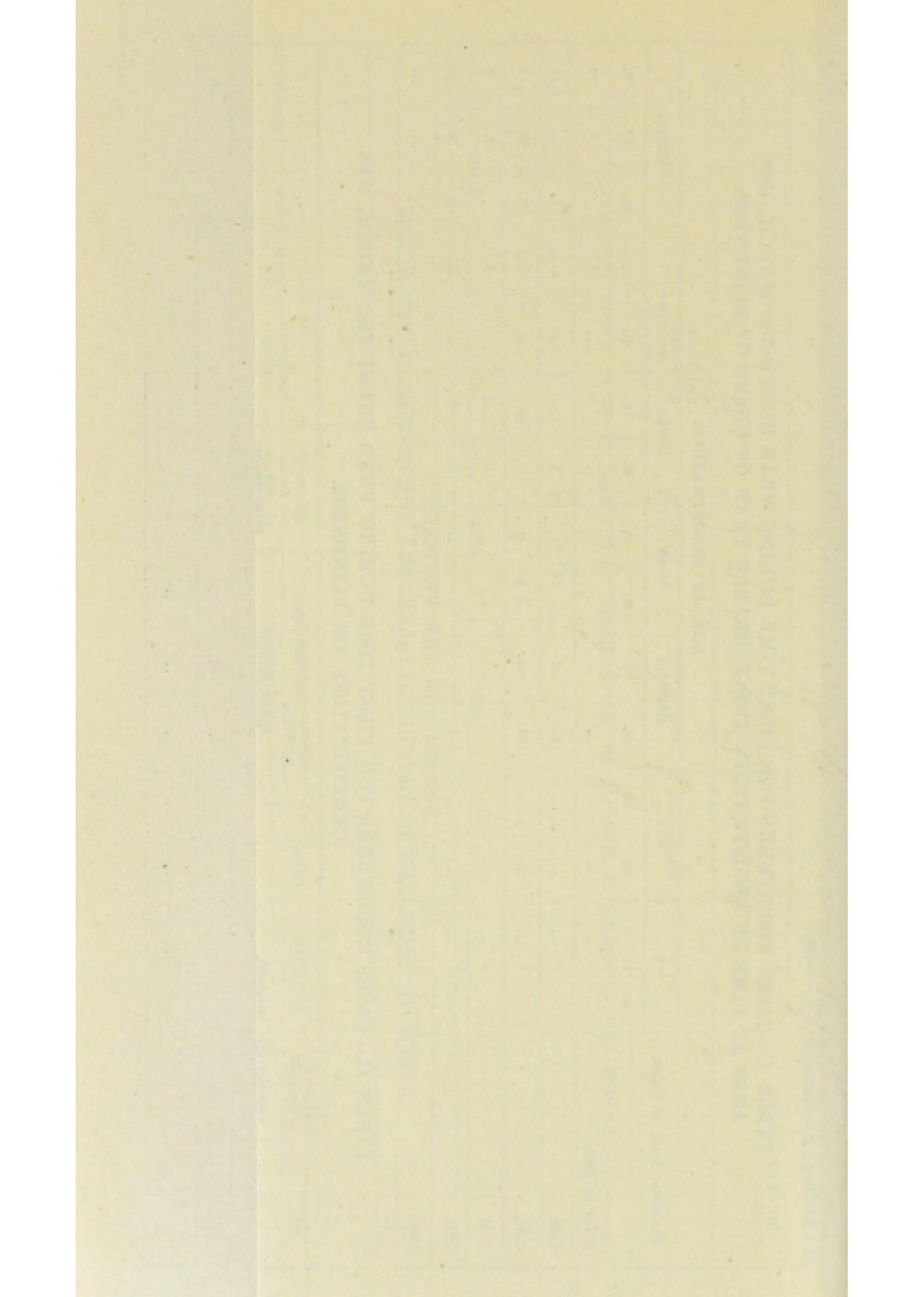
## E.—PORT SANITARY ADMINISTRATION.

There is nothing calling for special mention under this heading.

## F.—WORKSHOPS AND WORKPLACES.

These are dealt with fully by the Sanitary Inspectors in their reports.





## REPORT BY SANITARY INSPECTOR IN THE WESTERN AREA.

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PUBLIC HEALTH DEPARTMENT,  
ALEXANDRIA.

LADIES AND GENTLEMEN,

In accordance with instructions laid down by the Department of Health, I have pleasure in submitting my report for year ended 31st December, 1939.

### GENERAL SANITATION.

#### WATER SUPPLIES.

In the Vale of Leven Districts extensions to water mains were made at Auchencarroch Road, Jamestown; Tullichewan Road; Lomond Road; Lawrence Housing Scheme; Levenvale Housing Scheme; and Argyll Park, while the Gartocharn and Croftamie supply scheme referred to in my report for the year 1938 has now been completed. In this area 49 houses, 8 farms, 1 school, 1 hotel, 2 halls, 1 poultry farm, and 1 saw-mill have been connected to the new main, and other 3 farms and 4 houses have been given temporary connections. In Renton and Cardross Water Supply Districts extension to mains were made at Barrs Road, and to Colgrain. Two houses were connected to this service, while new filters were introduced at Asker Reservoir. New mains were provided at Cordale Housing Scheme. The provision of new filters and extension of water mains referred to in my last report for Rhu District have now been completed, while those for Garelochhead District also referred to are nearing completion. The work of combining Garelochhead and Rhu Districts to include Shandon area is now proceeding.

During the year the following samples of water were taken :—

No. 1	taken from tap in kitchen of new timber bungalow, Gartocharn.
„ 2	„ tap in scullery at Auchendarich, Caldarvan.
„ 3	„ storage tank at Auchendarich, Caldarvan.
„ 4	„ stream above water tanks of Balernoock House, Shandon.
„ 5	„ stream above water tanks of Balernoock House, Shandon.
„ 6	„ field drain east of Murray's Farm, Cardross.
„ 7	„ Ardgare Private Reservoir, Shandon.
„ 8	„ boiler in field Polnaberoch Road, Luss Parish.
„ 9	„ tap in wash-house at 130 Bridge Street, Alexandria.
„ 10	„ tap in dairy at 124 Main Street, Renton.
„ 11	„ scullery tap at Post Office, Arrochar.
„ 12	„ scullery tap at Police Station, Garelochhead.
„ 13	„ pump in scullery at Stuckenduff Cottage, Shandon.
„ 14	„ scullery tap at Gardenbrae, Rhu.
„ 15	„ dairy scullery tap at Kilmahew Farm, Cardross.
„ 16	„ dairy scullery tap at Cardrossmill, Cardross.
„ 17	„ field pipe, Polnaberoch Road, Luss Parish.
„ 18	„ tap in scullery at Rossbank Farm, Arden.
„ 19	„ outlet of clear water tank, Rhu Filters.
„ 20	„ outlet of clear water tank, Rhu Filters.
„ 21	„ kitchen tap at Ardenconnel, Rhu.
„ 22	„ kitchen tap at Ardenconnel, Rhu.

Eighteen of the above were submitted to chemical analysis, and 6 of the same were also submitted to bacteriological

examination, while 4 were submitted to bacteriological examination only. Thirteen of the samples were from local gravitation supplies, and 9 were from private sources.

#### DRAINAGE SYSTEM (EFFICIENCY).

New mains and outfall sewer for the village of Arrochar have now been completed, while work is proceeding with new outfall sewers for Cardross and Craigendoran, Rhu, and Garelochhead Districts. Cardross, Rhu, and Garelochhead were at the end of the year in the completion stage, while the Craigendoran scheme is well under way, and work is now proceeding with the laying of the sewers in the Gartocharn District. Extensions were made to provide drainage for housing developments at Levenvale, Alexandria, Cordale, and Renton.

During the year 14 additional w.c.s were installed.

#### SEWAGE PURIFICATION AND DISPOSAL.

Following the formation of Special Drainage Districts referred to, detritus chambers have been provided on the outfall sewers at Arrochar, Garelochhead, Rhu, Cardross, and Craigendoran. Samples of sewage effluent taken from the exit of the sewage pipe at the River Leven and from the Wave Flume at Dalmoak Pumping Station show that the sewage effluent had had little effect on the composition of the river and would be classed as weak sewage, and did not contain any trace of a trade effluent.

#### RIVERS POLLUTION.

During the year 4 samples were taken from the River Leven for analysis and were all from points above and below the discharge pipe from Dalmoak Sewage Works. All these samples would be placed in the "clean" class according to the standard adopted by the Royal Commission on Sewage Disposal. On 13th August there was a rather serious pollution of the River Leven with a consequent destruction of large

numbers of fish; practically all the fish dead or showing signs of sickening were to be found south of Bonhill Bridge, indicating that the cause of the trouble had been discharged north of this point.

### SCAVENGING (METHODS AND EFFICIENCY).

During the year alteration was made in refuse collection by utilising the services of a spare wagon 2 days per week in the Renton District and 4 days per week in the Vale of Leven District. This was necessitated by the completion of new housing schemes and to provide a more frequent collection of refuse in other parts of the district.

#### *Vale of Leven—*

Loads Removed.	No. of Bins and Pits emptied.	Miles Travelled.	Petrol Consumpt. Gallons.
4733	235,427	26,071	3672

The average number of miles travelled per gallon was 7.1.

#### *Renton—*

Loads Removed.	No. of Bins and Pits emptied.	Miles Travelled.	Petrol Consumpt. Gallons.
1031	62,269	2,857	976

The average number of miles travelled per gallon was 2.92.

*Cardross, Rhu, Craigendoran, Garelochhead, Arrochar, and Tarbet.*—The above districts are still being scavenged by private contractors. There is a tendency to neglect that part of the conditions of the contract which requires that loose papers, tins, &c., were to be covered at the end of each day's operations, the soil to be excavated to a depth of 12 inches, wheeled to the top, and utilised for this purpose. It has been necessary to warn contractors regarding this matter. Consideration has again been given to forming Rosneath and Clynder into a Special Scavenging District. Suitable ground has been secured for a coup and the district will now be scavenged as from 16th May, 1940. The only remaining part of the Gareloch now outwith a Special Scavenging District is Shandon, and I am hopeful that in the near future this area

will be included in one or other of the adjoining Special Districts.

### PUBLIC CONVENIENCES.

In my last report I made reference to the wilful damage done to locks and fittings to public conveniences, the repair of which had occasioned a very considerable loss of time and money. I am sorry to state that there has not been any curtailment in the activities of the parties who practice this contemptible form of theft, and I would again appeal to the public to protect their property by immediately reporting to the police any individual known to them who has caused such damage. The difference in the amount collected this year as compared with last year is largely accounted for by this form of theft.

A site is being looked for in connection with a proposed convenience at Clynder.

The following table shows the amounts collected during the year from the various conveniences:—

Balloch (old)	-	-	-	-	-	-	£16	19	4
Balloch (new)	-	-	-	-	-	-	61	8	9
Bonhill	-	-	-	-	-	-	2	18	6
Christie Park	-	-	-	-	-	-	2	6	11
Cardross	-	-	-	-	-	-	4	5	11
Rhu	-	-	-	-	-	-	8	5	11
Garelochhead	-	-	-	-	-	-	7	11	11
Arrochar	-	-	-	-	-	-	18	13	10
Tarbet	-	-	-	-	-	-	14	0	2
Luss	-	-	-	-	-	-	23	7	7
							<hr/>		
							£159	18	10
							<hr/>		

### SANITARY CONVENIENCES.

With the completion of new Water and Drainage Districts, progress continues to be made with the introduction of modern sanitary conveniences. The national necessity is, however, making progress somewhat slower than I anticipated.

TABLE XVII.—DETAILS OF SANITARY CONDITIONS.

	No. of Houses with- out water supply and sink inside House.	No. of W.C.s serving 2   3   4   5 Tenants.	No. of Dry Closets serving 2   3   4   5 Tenants.	No. of Privy Middens serving 2   3   4   5 Tenants.	No. of Ashpits serving 2   3   4   5 Tenants.
Alexandria, - - -	15	359 170 61 24	4 2 1 -	- 1 3 2	- - - -
Bonhill, - - -	22	98 28 12 2	3 6 - -	2 - 1 -	- - - 3
Jamestown and Balloch, - - -	17	37 43 6 2	2 2 1 -	- - 1 18	- - - -
Renton, - - -	32	102 71 35 21	1 1 - -	- - - -	- - - -
Total, - - -	86	596 312 114 49	10 11 2 -	2 1 5 20	1 - - 3

### OFFENSIVE TRADES.

The only offensive trade within the area is that of Soap Boiler which is conducted within the works of the United Turkey Red Company at Alexandria Works, Alexandria.

### FACTORIES ACT, 1937.

The work involved under this Act now entails a considerable amount of extra work on the Department, adding many new duties and transferring others formerly undertaken by the Home Office Inspectors. The most important change is the transference of the duty of enforcing the provision of suitable and sufficient sanitary conveniences in factories in which mechanical power is used. What was known as a "workshop" under the old Factory and Workshops Act is now a Factory, and attention is directed to their cleanliness, air space, temperature, and ventilation.

Improvements carried out consisted of the introduction of 13 w.c.s into factories.

### OFFICES.

Offices are dealt with under the Public Health (Scotland) Act, 1897, which contains specific powers in connection with the provision of water-closet accommodation for the separate use of each sex in buildings in which persons are employed in any business, and powers with respect to any defect which may be a nuisance within the meaning of the Act.

One office was dealt with under this power.

### SCHOOLS.

Inspections made to schools show these to be maintained in a satisfactory condition. Arrochar School was, as previously, utilised as a holiday centre during the summer months.

### BURIAL GROUNDS.

As mentioned in previous reports, Millburn Churchyard, Renton, is still subject to inspection before an interment can



take place therein. All burial grounds are maintained in a satisfactory condition.

### COMMON LODGING-HOUSES.

There are no common lodging-houses within the district.

### BUILDING BYE-LAWS.

Table No. XIX shows the number of plans passed throughout the year. The decrease in the number of buildings passed is attributed to the fact that no plans for large housing schemes were submitted and to the reluctance of people to proceed with new buildings or alterations during a period of national emergency.

### LIGHTING.

The black-out conditions imposed under the Defence Act put a full stop to the lighting programme proposed for the latter half of the year. Previous to the crisis in August there had been fitted between Pillanflats, Renton, and the Fountain, Alexandria, 81 Sideway 3-light lamps, each giving a candle power of 1200 lumens, while there had been fitted and experimented with on the trunk road 5 12-mantle lamps with a mounting height of 25 feet, and each giving a candle power of 5100 lumens. All of the above are in accordance with the Departmental Committee on Street Lighting Specification for class A and class B roads. The Committee had given consideration to the complete lighting of the trunk road according to this specification and estimates had been forwarded to the Ministry of Transport for their approval and consent to grant of 50 per cent. in respect thereof. Inspection by the Ministry and approval of the scheme is meantime in abeyance.

The total number of lamps in use up to the black-out in the Vale of Leven District was 630.

Damage done to lamps chiefly by motor vehicles and claims made in respect thereof amounted to £37 3s. 3d.

In Renton District the number of lamps in use was 130.

Damage done to lamps chiefly by motor vehicles and claims made in respect thereof amounted to £1 18s. 9d.

TABLE XIX.—PLANS OF BUILDINGS—WESTERN AREA.

PARISH.	PLANS.						No. of Buildings.					No. of Houses.						
	New Buildings.			Alterations.			Total.	Bungalows, &c.	Cottages.	Flats and Terraced Houses.	Total.	2 Apartments.	3 Apartments.	4 Apartments.	5 Apartments.	Over 5 Apartments.	Total.	
	Bungalows, &c.	Cottages.	Flats and Terraced Houses.	Bungalows, &c.	Flats and Terraced Houses.	Ammended.												
Arrochar, -	...	...	1	...	...	1	...	...	1	1	...	2	...	...	...	2	...	
Bonhill, -	3	...	3	...	5	11	...	4	10	19	1	12	17	1	1	32	1	
Cardross, -	4	...	3	...	4	11	...	3	2	11	...	8	5	1	...	14	...	
Dumbarton, -	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kilmarnock, -	1	1	...	...	4	6	...	2	3	7	...	1	3	1	2	7	2	
Luss, -	...	...	...	...	3	3	...	3	...	3	...	2	4	...	...	6	...	
Rosneath, -	2	...	...	...	1	3	...	1	...	2	...	1	...	...	1	2	1	
Rhu, -	6	1	2	...	4	13	...	3	3	17	...	3	5	4	4	17	4	
Total, -	16	2	9	...	21	48	...	16	19	60	2	29	34	7	8	80	8	

In addition to above, plans were passed for 10 Garages, 6 Petrol Pumps, 1 Milkhouse, 1 Filter House, 1 Sawmill and Bothy, 1 Rent Collector's Office, and 24 other Structures.

Plans in respect of a Wooden Bungalow were refused. Plans in respect of a Canoe Shed were withdrawn.

The number of mantles used and the average life of same is as follows :—

District.	No. of Lamps.	No. of Mantles to Fit out Lamps.	No. of Mantles Used.	No. of Days Lit.	No. of Hours Lit.	No. of Mantles per Lamp Used.	Average Life of Mantles in Days.
Vale of Leven,	630	1386	1768	175	1300	2·8	62·5
Renton, - -	130	264	421	175	1300	3·2	54·6

The only other Special Lighting Districts within the area are Cardross and that part of Craigendoran within the County area. Electric light is supplied by the Clyde Valley Electrical Power Co. and the charge made in respect thereof is 1½d. per unit.

#### INCREASE OF RENT AND MORTGAGE INTEREST (RESTRICTIONS) ACTS, 1920-1923.

The following statement shows the number of applications dealt with under the above Acts, and the result :—

Applications Received.	Certificates Granted.	Certificates Not Granted.	Cases Pending.	Certificates Withdrawn.
14	12	5	1	2

Four of the certificates granted were applied for during 1938.

#### BURIALS.

Eleven burials were undertaken by the Local Authority during the year, in terms of Section 69 of the Public Health (Scotland) Act, 1897.

#### NUISANCES.

The number of inspections made in connection with the removal of nuisances was 2530. Complaint had again to be made to the owner of the piggery referred to in last year's report. The nuisance here had been caused by inattention to the tank receiving the piggery wash, with the result that it

overflowed into a burn, causing an offensive odour. Another complaint made by a householder referred to an infestation of a larder by an insect. A sample of the foodstuffs affected was forwarded to Glasgow University for examination, to which the following report was received:—

Mites	-	-	-	Glycyhagus.
Family	-	-	-	Tryoglyphidas.

This family includes a number of mites that attack provisions and groceries. They are soft-bodied, light-coloured mites. They eat almost anything and often do great damage to dry provisions, flour, grain, and other seeds. These mites concern the authorities not only by their ravages among foodstuffs, but sometimes to people who have to deal with infected provisions, as they cause the disease known as "Grocer's Itch." This peculiar species would be known as *A. Farinæ*, which infects flour and grain as well as other provisions.

Table No. XX gives a detailed record of the nuisances dealt with during the year.

#### HOUSING OF SEASONAL WORKERS.

During the year new Bye-laws were made by the County Council under powers contained in Section 83 of the Housing (Scotland) Act, 1925, as amended by Section 19 of the Housing (Agricultural Population) (Scotland) Act, 1938, and the Seasonal Workers Accommodation Bye-laws (Scotland) Regulations, 1931. The new Bye-laws widen the scope of the "workers" to be accommodated, and now include others than those accommodated on farms, such as navvies temporarily or seasonally employed on construction or reconstruction schemes, or herring gutters in respect of whom temporary accommodation is found while so employed. The new Bye-laws follow very much the lines of the old but are drawn up to ensure a greater degree of comfort to the person so accommodated, lighting space in sleeping apartments is increased, seating space at tables should be more comfortable, and where bunks are erected in tiers the vertical distance between each is increased, and during the months of

TABLE XX.—SHOWING NUMBER AND NATURE OF NUISANCES.

NUISANCES.	ARROCHAR.			BONHILL.				CARDROSS.			DUMBAR-TON.		KIL-MARONOCK.		LUSS.			ROSNEATH.			RHU.			(A)	(B)	TOTAL OF (A) AND (B).	
	Arrochar Village.	Other Parts of Parish.	TOTAL.	Alexandria.	Bonhill.	Janetown.	Other Parts of Parish.	TOTAL.	Benton.	Other Parts of Parish.	TOTAL.	Parish.	TOTAL.	Kilmaronock.	TOTAL.	Parish Village.	Other Parts of Parish.	TOTAL.	Rosneath Village.	Other Parts of Parish.	TOTAL.	Rhu Village.	Gariochhead.	Other Parts of Parish.	TOTAL.		TOTAL ARREARS.
Ashpits abolished, . . . . .	1	1	2	12	9	4	42	36	36	72	10	10	20	20	12	12	24	6	5	11	3	3	6	139	8	147	
Ashpits constructed or Ashbins provided, . . . . .	4	2	6	17	1	4	6	22	22	44	1	1	2	2	4	4	8	1	1	2	6	6	12	6	6	12	
Ashpits repaired, . . . . .	1	1	2	1	4	2	7	6	6	12	1	1	2	2	4	4	8	1	1	2	3	3	6	14	14	28	
Accumulation of Refuse and other Nuisances removed, . . . . .	2	5	7	12	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	14	14	28	
Bams cleaned, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	14	14	28	
Byes and other Premises discontinued or improved, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	14	14	28	
Common Stairs whitewashed or cleaned, . . . . .	11	9	20	11	9	5	25	9	5	14	6	6	12	12	12	12	24	1	1	2	3	3	6	37	3	40	
Courts repaired, paved or cleaned, . . . . .	3	3	6	3	3	2	8	4	4	8	4	4	8	8	8	8	16	1	1	2	3	3	6	14	14	28	
Dump Houses shut up or repaired, . . . . .	4	7	11	11	3	2	16	11	3	14	5	5	10	10	10	10	20	1	1	2	3	3	6	22	2	24	
Defective Vents improved, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	17	2	19	
Defective Windows, . . . . .	13	6	19	13	6	3	22	4	4	8	4	4	8	8	8	8	16	1	1	2	3	3	6	22	2	24	
Dirt Houses, . . . . .	5	3	8	5	3	3	11	3	3	6	3	3	6	6	6	6	12	1	1	2	3	3	6	27	11	38	
Dirt Ashpits and Privies cleaned, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	27	3	30	
Drains cleaned, . . . . .	2	1	3	2	1	2	5	10	6	16	1	1	2	2	4	4	8	1	1	2	3	3	6	53	2	55	
Drains (new) constructed, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	20	20	40	
Drains repaired, trapped, or ventilated, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	13	1	14	
Drainpipes constructed or repaired, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	1	1	2	
Earth Gutters erected or repaired, . . . . .	1	1	2	11	9	14	34	7	6	13	1	1	2	2	4	4	8	1	1	2	3	3	6	13	1	14	
Flies, Pigeons, &c., improperly kept, . . . . .	2	1	3	2	1	1	4	3	1	4	1	1	2	2	4	4	8	1	1	2	3	3	6	5	3	8	
Private Roads and Footpaths repaired, . . . . .	3	3	6	3	3	5	11	3	1	4	1	1	2	2	4	4	8	1	1	2	3	3	6	14	14	28	
Privies abolished, . . . . .	4	4	8	4	4	4	12	6	6	12	6	6	12	12	12	12	24	1	1	2	3	3	6	16	16	32	
Privies and Ashpits repaired, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	9	9	18	
Privies constructed, . . . . .	2	2	4	2	2	2	6	2	2	4	2	2	4	4	4	4	8	1	1	2	3	3	6	1	1	2	
Sticks introduced, . . . . .	2	2	4	2	2	2	6	2	2	4	2	2	4	4	4	4	8	1	1	2	3	3	6	1	1	2	
Sticks untrapped or defective, . . . . .	1	1	2	7	2	1	10	3	1	4	1	1	2	2	4	4	8	1	1	2	3	3	6	16	16	32	
Soil Pipes and Waste Pipes ventilated, . . . . .	1	1	2	1	1	1	4	2	2	4	1	1	2	2	4	4	8	1	1	2	3	3	6	1	1	2	
Stables discontinued or improved, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	1	1	2	
Water-closets constructed or repaired, . . . . .	4	4	8	14	3	4	30	10	4	14	2	2	4	4	4	4	8	2	2	4	6	6	12	58	61	119	
Water Supply improved, . . . . .	4	4	8	4	4	4	12	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	12	12	24	
Water Supply provided, . . . . .	11	11	22	11	11	11	33	11	11	22	11	11	22	22	22	22	44	1	1	2	3	3	6	58	58	116	
Walls, Floors, Ceilings, and Roofs of Houses repaired, . . . . .	6	14	20	6	14	2	22	4	3	7	1	1	2	2	4	4	8	2	3	5	6	6	12	38	5	43	
Wash-houses provided or improved, . . . . .	1	1	2	1	1	1	4	2	2	4	1	1	2	2	4	4	8	1	1	2	3	3	6	5	5	10	
Ventilation of Houses improved, . . . . .	2	2	4	2	2	2	6	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	5	5	10	
Ventilation of Stairs improved, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	5	5	10	
Nuisances abated, . . . . .	39	4	43	124	111	74	21	330	97	30	127	5	5	92	92	50	19	69	2	5	7	12	16	28	701	18	719
Nuisances not abated, . . . . .	1	1	2	1	1	1	4	1	1	2	1	1	2	2	4	4	8	1	1	2	3	3	6	1	1	2	
TOTAL, . . . . .	39	4	43	124	111	74	21	330	111	34	145	5	5	92	92	50	19	69	2	5	7	12	16	28	701	18	719



October to April (inclusive) the number of blankets to be provided for the worker, in so far as not provided by the worker himself, is to be increased from 2 to 4, while their safety is provided for by all lights and fires within the building requiring to be extinguished by 11 p.m.

Seasonal workers were, during the year, accommodated on 19 farms. The average stay at each farm was 14 days, and the number of workers accommodated was 194 males and 141 females, a total of 335.

Inspections were made prior to and during the period of occupation at the farms.

#### TENTS, VANS, SHEDS AND HOUSEBOATS.

MILLBURN PARK, ALEXANDRIA.—In my last report I had occasion to make some remarks on this subject. Since then conditions here have been the subject of special report. Following a communication from the Department of Health as to the housing of the people here, it was suggested that houses which had been the subject of Closing Orders might with agreement with the owners concerned be at a nominal cost again made fit for habitation. In inspecting for such houses I considered the possibility of making use of the Old R.C. School, Alexandria. Plans were prepared showing how this might provide temporary accommodation superior to what these people are presently housed in, and after full consideration of the report submitted, the Council agreed to take no action. A survey revealed that there were 30 erections on this site, occupied by a total of 156 persons.

In other parts of the district 783 inspections were made under the Bye-laws. The survey revealed that 897 persons were occupying either a tent, van, shed, or houseboat for a varying period. The accommodation consisted of 47 bell tents, 77 cottage tents, 43 bivouacs, 29 trailer caravans, 60 sheds, 5 railway coaches, and 53 houseboats. The occupants comprised 396 males, 239 females, and 262 children.

#### PRIVATE STREETS AND FOOTWAYS.

Progress continues to be made with the repair of above in

the Vale of Leven and Renton Districts, and some are still the subject of negotiation with the owners.

### RATS AND MICE (DESTRUCTION) ACT, 1919.

Rat Week was observed in March, and the usual intensification of the campaign in the eradication of rats was resumed on the same lines as formerly. The joint report on this subject will be found on page 17.

### FOOD SUPPLY.

#### MILK AND DAIRIES (SCOTLAND) ACT, 1914.

It will be observed from another part of my report that there has been an increase in the number of persons holding a Standard Licence under the Milk (Special Designations) Order. This is an indication that in order to get the extra payment for the production of this milk farmers are willing to aim at a higher standard of production. I would again emphasise the importance of maintaining the standards laid down under the Milk (Special Designations) Order, and would take this opportunity of pointing out to licence holders that it is absolutely necessary at all times to make it their business to see that their workers are properly trained and are acquainted with the regulations laid down, to ensure the production of a pure milk supply, particularly during this war period, as milk as an article of diet is unsurpassed. It contains all the substances necessary for nutrition, and as it cannot be replaced by any other food a pure supply is of the greatest importance. As all licence holders are aware the Central Department issued during the year printed information regarding the production of a clean milk supply, and I would appeal to all licence holders not only to study this pamphlet themselves but to make sure that their workers are fully trained and made acquainted with the different points brought out in the circular.

The following statement shows the number of registered dairies, milk shops and vans within the district:

REGISTERED COWSHEDS, &c.

Parish.	Cowsheds.	Cows.	Shops.	Vans.
Bonhill, - - -	19	378	13	8
Kilmarnock, - - -	37	890	1	1
Luss, - - -	10	154	—	1
Cardross, - - -	19	610	7	3
Rhu, - - -	9	170	1	4
Rosneath, - - -	13	280	—	10
Dumbarton, - - -	6	221	2	2
Arrochar, - - -	3	17	—	1
Burgh of Helensburgh,	3	80	8	10
Totals, -	119	2800	32	40

MILK (SPECIAL DESIGNATIONS) ORDERS, 1936-38.

The following table shows licences granted under the above Orders:—

*Producers' Licences—*

(a) *Certified Milk*—Robert Howie, Drumfork Farm, Craighendoran; Robert Watt, Milligs Farm, Helensburgh; William Young, Dalmoak Farm, Dumbarton.

(b) *Tuberculin Tested*.—Robert Bisland, Mid Auchencarroch Farm, by Alexandria; John G. Kinloch, Napierston Farm, Jamestown; William Mitchell, Blairlinnins Farm, Kilmarnock; Andrew Rankin, High Mains Farm, Kilmarnock; James M'Gregor, Badshalloch Farm, Kilmarnock; Mrs. Isabella Johnston, Easter Catter Farm, Kilmarnock; John G. Steven, Woodend Farm, Helensburgh; James Dick, Kipperoch Farm, Dumbarton; James Kinloch, Ardoch Farm, Cardross; William Watt, Camiseskan Farm, Craighendoran; Robert Brewster, Kilmahew Farm, Cardross;

Alex. Y. Allan, Aikenbar Farm, Dumbarton; William Calderwood, Clachan Farm, Rosneath; Mrs. Eliz. Hamilton & Son, Knockderry Farm, Cove; George Millar, Duchlage Farm, Coulpport; James M'Arthur, Old Kirk Farm, by Alexandria.

- (c) *Standard Milk*.—Alex. Scott, Overton Farm, Alexandria; John M'Farlane, Woodbank Dairy, Balloch; John and Robert Smith, Ladyton Farm, Bonhill; William Twaddle, Cameron Home Farm, by Alexandria; William Orr, Over Balloch Farm, Balloch; Richard Rennie, Ledrishbeg Farm, Balloch; John Steel, Ballagan Farm, by Alexandria; Hugh Nairn, Boturich Farm, by Alexandria; William Smith, Lorne Farm, by Alexandria; James Colquhoun, Ledrishmore Farm, by Alexandria; Hugh Wylie, Blairlusk Farm, Kilmarnock; Archd. Mitchell, Blairlinnins Farm, Kilmarnock; Alex. M'Kenzie, Ardgate Farm, Kilmarnock; George Gray, Mains Farm, Kilmarnock; Robert and Wallace Kerr, Hillhead of Catter Farm, Kilmarnock; Robert Steel & Son, Balquhain Farm, Kilmarnock; Mrs. Jeanie Buchanan, Blairquhamrie Farm, Kilmarnock; William M'Lachlan, Dalquhurn Farm, Renton; John Paisley, Wallaceton Farm, Cardross; Gavin Prentice, Low Milndovan Farm, Cardross; Robert, M. and J. Hosie, Auchensail Farm, Cardross; Allan M'Intyre, Badyen Farm, Cardross; Mrs. Agnes Cullen, Mollandhu Farm, Cardross; William Wilson, Murroch Farm, Dumbarton; Harry Wilson, Kilmalid Farm, Dumbarton; Alex. Brewster, Gooseholm Farm, Dumbarton; Matthew Howie, Crosslet Farm, Dumbarton; John M. Wilson, Garshake Farm, Dumbarton; William R. Goodwin, Mamore Farm, Rahane; Robert Prentice, Bannachra Farm, Helensburgh; Robert M. Colquhoun, Rossbank Farm, Arden; Mrs. Janet Kinloch, Torr Farm, Rhu; John and Thomas M'Arthur, Drumfad Farm, Helensburgh.

*Dealers' Licences—*

(a) *Certified Milk.*—David Allan, 20 John Street, Helensburgh; William Freeland, 94 West Clyde Street, Helensburgh; Robert Howie, Drumfork Farm, Craighendoran; Alex. Kerr, Letrault Farm, Rhu; Mrs. Margt. Murray, 86 West Princes Street, Helensburgh; Messrs. Ross's Dairies, in respect of 67 Sinclair Street and 16 West Clyde Street, Helensburgh, and 85 Main Street, Alexandria.

(b) *Tuberculin Tested.*—David Allan, 20 John Street, Helensburgh; Mrs. Margt. Murray, 86 West Princes Street, Helensburgh; Messrs. Ross's Dairies in respect of 67 Sinclair Street and 16 West Clyde Street, Helensburgh, and 85 Main Street, Alexandria; John B. M'Letchie, Thomas Street, Alexandria; Duncan S. Urie, Auchinvale Dairy, Renton.

(c) *Pasteurised.* — Dumbarton Equitable Co-operative Society, Ltd., in respect of Campbell's Buildings, Garelochhead; 20 West Princes Street, Helensburgh; Old Luss Road, Craighendoran; West End Place, Cardross; Messrs. Ross's Dairies, Ltd., in respect of 67 Sinclair Street, and 16 West Clyde Street, Helensburgh, and 85 Main Street, Alexandria; Vale of Leven Co-operative Society, Ltd., in respect of Argyll Street, 60 Bank Street, 148 Bridge Street, 9 Main Street, and 295 Main Street, Alexandria; 276 Main Street, Bonhill; 250 Main Street, Jamestown, 3 and 182 Main Street, Renton.

*Supplementary Licences—*

*Pasteurised.*—Dumbarton Equitable Co-operative Society, Ltd., 32 High Street, Dumbarton, in respect of vans operating in the Western Area of the County of Dumbarton.

Holders of tuberculin-tested licences show an increase of 3 as compared with last report, while holders of standard licences show an increase of 28. Three holders of a designated milk licence had their licence suspended for 3 months. Six

tuberculin-tested licences were surrendered and standard licences granted, while one standard licence was surrendered and a tuberculin-tested licence was granted.

### PUBLIC HEALTH (MEAT) REGULATIONS (SCOTLAND), 1932.

The following private slaughterhouses were licensed by the Local Authority during the year :—

Vale of Leven Co-operative Society for premises Bank Street, Alexandria; David Spence, Oakburn, Jamestown, for premises at Oakburn, Jamestown; James S. Gray, Euston Place, Garelochhead, for premises Euston Place, Garelochhead.

538 inspections were made during the year and 3089 carcasses were examined. The following statement shows the number of animals slaughtered, also the number of carcasses wholly or partially condemned :—

Class of Animal.	Number of Animals.			Weight (in lbs.) of Condemned Meat and Offal.
	Slaughtered.	Wholly Condemned.	Partially Condemned.	
Cattle, - - -	964	5	356	4644
Sheep, - - -	1821	...	38	96
Pigs, - - -	254	1	29	280

### SLAUGHTER OF ANIMALS (SCOTLAND) ACT, 1928.

Under the above the following were granted licence to slaughter or stun animals in accordance with the provisions of the Act :—

James S. Gray, Euston Place, Garelochhead.

William Wilson, Inkerman Place, Garelochhead.

Charles Murray, Vale of Leven Co-op. Society, Ltd.

Thomas G. Watt, Vale of Leven Co-op. Society, Ltd.

George Park, Vale of Leven Co-op. Society, Ltd.

William Thomson, Vale of Leven Co-op. Society, Ltd.  
 Alexander Calder, 198 Bank Street, Alexandria.  
 David Spence, Oakburn, Jamestown.

All of the above were also granted licence to slaughter or  
 stun swine in accordance with the provisions of the Local  
 Authority Bye-laws.

### FOOD AND DRUGS (ADULTERATION) ACT, 1928.

#### PUBLIC HEALTH (PRESERVATIVES IN FOOD) REGULATIONS (SCOTLAND), 1925-27.

Under the above Regulations, 240 samples were taken  
 throughout the year—200 of which were “test” and 40  
 “official.” 16 of the total were taken within the Burgh of  
 Helensburgh. The following shows the result of proceedings  
 taken against the sellers of articles found to be “not  
 genuine.”

No.	Article.	Nature of Contravention.	Result.
*23w	Certified milk.	Deficient in milk fat.	Warned.
*40w	T.T. milk.	do.	do.
*53w	Standard milk.	do.	do.
70w	Sweet milk.	do.	do.
*90w	T.T. milk.	do.	do.
*92w	do.	do.	do.
*107w	do.	do.	do.
*112w	Standard milk.	do.	do.
*114w	T.T. milk.	do.	do.
*118w	do.	do.	do.
*151w	do.	do.	do.
*156w	Standard milk.	do.	do.
*158w	Sweet milk.	do.	do.
*160w	Standard milk.	do.	do.
*164w	do.	do.	do.
*165w	T.T. milk.	Deficient in milk solids.	do.
175w	Mince.	—	Fined £1.
176w	Sliced sausage.	—	do.
*187w	Sweet milk.	Deficient in milk fat.	Warned.

The following is a record of the samples taken and the results :—

FOOD AND DRUGS (ADULTERATION) ACT, 1928.

Parish.	Record No.	Article.	Percentage of Milk Fat.	Percentage of Milk Solids other than Milk Fat.	Result.
Bonhill,	*7w	T.T. Milk	3.24	8.90	Genuine
"	8w	"	4.03	9.07	"
"	*12w	"	4.06	9.00	"
"	*13w	Standard Milk	3.39	8.66	"
"	*14w	T.T. Milk	3.41	9.04	"
"	*24w	"	3.02	8.46	"
"	*35w	"	3.35	8.68	"
"	*48w	Standard Milk	3.40	8.88	"
"	*49w	"	3.50	8.44	"
"	*50w	T.T. Milk	3.26	9.10	"
"	*51w	Standard Milk	3.96	8.62	"
"	*54w	"	11.02	8.12	"
"	*6w	"	4.02	8.58	"
"	*75w	T.T. Milk	3.78	8.64	"
"	*90w	"	2.55	8.58	Not Genuine
"	*97w	"	3.02	8.50	Genuine
"	*100w	Standard Milk	3.69	9.13	"
"	*101w	"	3.34	8.87	"
"	*102w	T.T. Milk	3.18	8.82	"
"	*103w	Standard Milk	3.74	8.78	"
"	*107w	T.T. Milk	2.85	8.52	Not Genuine
"	*108w	Standard Milk	3.26	8.72	Genuine
"	*118w	T.T. Milk	2.70	8.72	Not Genuine
"	*131w	"	3.60	8.75	Genuine
"	*132w	Standard Milk	4.10	8.76	"
"	*139w	Sweet Milk	3.56	8.88	"
"	*159w	T.T. Milk	3.42	8.68	"
"	*165w	"	3.42	7.70	Not Genuine
"	*167w	Standard Milk	4.16	8.72	Genuine
"	*168w	"	3.99	8.61	"
"	*170w	"	3.88	8.89	"
"	*181w	T.T. Milk	3.74	8.98	"
"	*187w	Sweet Milk	2.40	9.48	Not Genuine
"	*192w	T.T. Milk	3.61	8.95	Genuine
"	*193w	Standard Milk	3.88	8.96	"
"	*194w	"	3.61	8.83	"
"	200w	Sweet Milk	3.88	9.17	"
"	201w	"	4.36	9.02	"
"	*203w	Standard Milk	4.32	8.96	"
"	*204w	"	3.53	8.71	"
"	*206w	"	4.27	9.05	"
"	*207w	"	3.93	9.21	"
"	*212w	"	3.79	8.95	"
"	214w	Green Peas	—	—	"
"	215w	Sausage	—	—	"
"	216w	Tea	—	—	"
"	217w	Margarine	—	—	"
"	218w	Sugar	—	—	"
"	219w	Vinegar	—	—	"
"	220w	Pickles	—	—	"
"	228w	Tea	—	—	"
"	229w	Green Peas	—	—	"
"	230w	Sugar	—	—	"
"	231w	Margarine	—	—	"
"	232w	Sausage	—	—	"
"	233w	Sago	—	—	"
"	234w	Mint Sauce	—	—	"
"	235w	Ground Rice	—	—	"
"	236w	Sausage	—	—	"
"	237w	"	—	—	"
"	238w	White Pepper	—	—	"
"	239w	Sausage	—	—	"
"	240w	Samolina	—	—	"

\* Denotes Test Samples.

## FOOD AND DRUGS (ADULTERATION) ACT, 1928.

Parish.	Record No.	Article.	Percent- age of Milk Fat.	Percent- age of Milk Solids other than Milk Fat.	Result.
Cardross,	*1w	Cert. Milk	4.13	9.11	Genuine
"	*2w	T.T. Milk	3.19	8.83	"
"	*16w	"	3.29	8.81	"
"	*17w	Standard Milk	3.48	8.78	"
"	*18w	"	3.37	8.72	"
"	*19w	"	3.83	9.09	"
"	*21w	Cert. Milk	4.15	8.87	"
"	*22w	T.T. Milk	3.22	9.02	"
"	*56w	"	3.02	8.83	"
"	*57w	Cert. Milk	3.56	8.82	"
"	*58w	T.T. Milk	3.29	8.76	"
"	*59w	Standard Milk	3.52	8.83	"
"	*60w	"	3.65	8.79	"
"	*61w	"	3.89	9.15	"
"	*67w	"	3.32	8.87	"
"	*68w	"	3.70	8.84	"
"	*69w	T.T. Milk	3.98	8.75	"
"	*81w	Cert. Milk	3.54	8.96	"
"	*82w	T.T. Milk	4.23	9.11	"
"	*89w	"	3.52	9.11	"
"	*111w	Standard Milk	3.55	8.88	"
"	*112w	"	2.58	8.96	Not Genuine
"	*114w	T.T. Milk	2.61	8.63	"
"	*115w	Cert. Milk	3.67	9.01	Genuine
"	*116w	T.T. Milk	3.54	9.06	"
"	*117w	Standard Milk	3.01	8.65	"
"	*123w	"	3.17	9.13	"
"	*124w	"	3.35	8.89	"
"	*125w	T.T. Milk	3.77	8.95	"
"	*126w	Sweet Milk	3.93	8.89	"
"	*127w	Standard Milk	3.64	8.98	"
"	*140w	"	4.30	8.78	"
"	*141w	Cert. Milk	4.50	8.92	"
"	*142w	T.T. Milk	4.38	8.68	"
"	*148w	"	3.43	8.65	"
"	*149w	"	3.04	8.71	"
"	*150w	"	3.73	8.83	"
"	*153w	Standard Milk	2.61	8.73	Not Genuine
"	*166w	Cert. Milk	3.98	8.78	Genuine
"	*202w	Sweet Milk	3.93	8.79	"
"	221w	Sliced Sausage	—	—	"
"	222w	Mince	—	—	"
"	223w	Baking Soda	—	—	"
"	224w	White Pepper	—	—	"
"	225w	Lard	—	—	"
"	226w	Sliced Sausage	—	—	"
"	227w	Fruit Salad	—	—	"
Kilmarnock,	*5w	Standard Milk	3.30	8.59	"
"	*6w	T.T. Milk	4.31	8.81	"
"	*9w	"	3.98	9.10	"
"	*10w	"	3.57	8.75	"
"	*11w	"	3.20	8.79	"
"	*27w	Standard Milk	4.14	8.98	"
"	*28w	"	4.35	9.35	"
"	*29w	"	4.57	9.33	"
"	*30w	T.T. Milk	3.90	8.74	"
"	*31w	Standard Milk	7.04	8.56	"
"	*32w	T.T. Milk	3.92	9.06	"
"	*33w	"	3.82	9.04	"
"	*34w	Standard Milk	4.03	8.97	"
"	*52w	T.T. Milk	3.34	8.73	"
"	*53w	Standard Milk	2.82	8.33	Not Genuine

\* Denotes Test Samples.

## FOOD AND DRUGS (ADULTERATION) ACT, 1928

Parish.	Record No.	Article.	Percentage of Milk Fat.	Percentage of Milk Solids other than Milk Fat.	Result.
Kilmarnock	*65w	Sweet Milk	3.93	8.99	Genuine
"	*76w	Standard Milk	3.64	8.76	"
"	*77w	"	4.78	8.88	"
"	*78w	"	3.96	9.12	"
"	*79w	"	4.05	8.77	"
"	*80w	"	3.85	8.77	"
"	*91w	T.T. Milk	3.64	9.02	"
"	*92w	"	2.76	8.90	Not Genuine
"	*93w	Standard Milk	3.29	8.50	Genuine
"	*94w	Sweet Milk	3.60	8.86	"
"	*95w	"	3.74	8.67	"
"	*96w	T.T. Milk	3.68	8.92	"
"	*98w	"	3.20	9.04	"
"	*99w	"	3.22	8.88	"
"	*119w	Standard Milk	3.18	8.89	"
"	*120w	T.T. Milk	3.59	8.97	"
"	*133w	Standard Milk	4.03	8.72	"
"	*134w	"	3.54	9.13	"
"	*135w	"	4.15	9.01	"
"	*136w	"	3.89	8.98	"
"	*137w	"	4.24	9.18	"
"	*138w	"	3.62	9.04	"
"	*147w	Sweet Milk	3.58	9.02	"
"	*160w	Standard Milk	2.88	8.51	Not Genuine
"	*162w	Sweet Milk	4.09	8.95	Genuine
"	*169w	Standard Milk	4.11	9.09	"
"	*182w	Sweet Milk	4.08	8.94	"
"	*183w	Standard Milk	3.96	8.64	"
"	*184w	T.T. Milk	3.54	8.74	"
"	*185w	"	4.07	8.71	"
"	*186w	Standard Milk	3.46	8.52	"
"	*188w	Sweet Milk	3.24	8.66	"
"	*189w	"	3.52	8.92	"
"	*190w	Standard Milk	3.53	8.76	"
"	*191w	"	3.62	8.60	"
"	*205w	"	3.66	9.19	"
"	*210w	T.T. Milk	3.54	8.69	"
"	*211w	Sweet Milk	3.58	8.68	"
"	*213w	Standard Milk	4.15	8.79	"
"	*161w	Sweet Milk	4.09	8.95	"
Dumbarton	*3w	T.T. Milk	3.21	9.06	"
"	*4w	"	3.46	9.10	"
"	*15w	Standard Milk	3.68	8.70	"
"	*45w	T.T. Milk	3.61	8.82	"
"	*46w	"	3.52	8.85	"
"	*47w	"	3.05	8.83	"
"	*55w	Standard Milk	3.22	8.62	"
"	*64w	Sweet Milk	3.02	8.51	"
"	*104w	Standard Milk	3.19	9.13	"
"	*105w	T.T. Milk	3.56	8.80	"
"	*106w	Standard Milk	3.50	8.80	"
"	*109w	T.T. Milk	3.04	8.80	"
"	*110w	"	3.52	9.04	"
"	*163w	Sweet Milk	2.91	8.85	Not Genuine
"	*195w	Standard Milk	3.12	8.72	Genuine
"	*196w	"	4.64	9.08	"
"	*197w	"	4.28	8.98	"
"	*198w	"	3.17	8.83	"
"	*199w	T.T. Milk	4.17	9.33	"
"	*208w	Standard Milk	3.63	8.75	"
"	*209w	"	3.77	8.77	"
Luss,	*20w	Sweet Milk	3.70	8.56	"

\* Denotes Test Samples.

## FOOD AND DRUGS (ADULTERATION) ACT, 1928.

Parish.	Record No.	Article.	Percent- age of Milk Fat.	Percent- age of Milk Solids other than Milk Fat.	Result.
	*26w	Standard Milk	4.76	8.64	Genuine
"	*62w	Sweet Milk	4.28	8.76	"
"	*63w	"	3.92	9.06	"
"	*74w	Standard Milk	4.14	8.90	"
"	*113w	Sweet Milk	4.05	9.27	"
"	*128w	"	3.31	8.87	"
"	*130w	Standard Milk	3.69	8.79	"
Rhu, ..	*25w	T.T. Milk	3.98	9.22	"
"	*43w	"	4.07	8.91	"
"	*73w	"	3.84	8.68	"
"	*129w	Standard Milk	4.39	9.13	"
"	*155w	Sweet Milk	5.48	8.70	"
"	*158w	"	2.69	8.56	Not Genuine
"	*164w	Standard Milk	2.91	8.85	"
"	*172w	Sweet Milk	4.01	8.81	Genuine
"	173w	"	3.93	8.69	"
"	*178w	"	3.17	8.81	"
"	*179w	Standard Milk	4.10	8.92	"
Rosneath,	*37w	"	3.61	8.55	"
"	*38w	T.T. Milk	3.88	9.00	"
"	*39w	"	3.56	8.56	"
"	*40w	"	2.91	9.14	Not Genuine
"	41w	Sweet Milk	3.34	8.52	Genuine
"	42w	"	4.06	8.82	"
"	*85w	T.T. Milk	3.46	9.00	"
"	*86w	"	3.34	8.89	"
"	*87w	"	3.80	8.86	"
"	*88w	Standard Milk	3.30	8.51	"
"	*143w	T.T. Milk	3.99	8.93	"
"	*144w	"	3.85	8.77	"
"	*145w	"	4.03	8.93	"
"	*146w	Standard Milk	3.68	8.78	"
"	*151w	T.T. Milk	2.91	8.55	Not Genuine
"	*152w	"	4.08	8.60	Genuine
"	*153w	"	3.83	8.71	"
"	*154w	Standard Milk	3.08	8.54	"
"	171w	T.T. Milk	3.88	8.98	"
Burgh of Helensburgh,	*23w	Cert. Milk	2.70	8.71	Not Genuine
"	*36w	T.T. Milk	3.31	8.61	Genuine
"	*44w	"	3.72	9.08	"
"	70w	Sweet Milk	2.96	8.84	Not Genuine
"	71w	"	3.62	8.68	Genuine
"	72w	"	3.29	8.57	"
"	*83w	Cert. Milk	3.27	8.88	"
"	*84w	T.T. Milk	3.42	8.87	"
"	*121w	Cert. Milk	3.56	8.96	"
"	*122w	T.T. Milk	3.32	8.76	"
"	*157w	Cert. Milk	3.65	8.97	"
"	174w	Mince	—	—	"
"	175w	"	—	—	Not Genuine
"	176w	Sliced Sausage	—	—	"
"	177w	Mince	—	—	Genuine
"	180w	Cert. Milk	3.80	8.76	"

\* Denotes Test Samples.

Of the foregoing samples of designated milks 175 were submitted to bacteriological examination, and the following table is a summary of the result:—

59 had a bacteria count up to 10,000 per millilitre, 4 of which had a positive coli count.

46 had a bacteria count between 10,000/50,000, 4 of which had a positive coli count.

25 had a bacteria count between 50,000/100,000, 3 of which had a positive coli count.

18 had a bacteria count between 100,000/200,000 and all had a negative coli count.

15 had a bacteria count between 200,000/500,000, 4 of which had a positive coli count.

9 had a bacteria count between 500,000/1,000,000, 4 of which had a positive coli count.

3 had a bacteria count over 1,000,000 and a positive coli count.

Of the above 5 certified, 15 T.T., and 17 standard samples did not comply with the bacteria count permitted under the Order.

#### FERTILISERS AND FEEDING STUFFS ACT, 1926.

A purchaser requested a formal analysis of "meat meal," complaint being against it containing a foreign material representing a wool-like substance causing crop-bound condition and death of poultry. The analyst's report showed that the composition of the article agrees with the statement of particulars contained in the Statutory Statement, within the limits of variation as laid down in the Regulations.

#### SHOPS ACTS, 1912-1938.

Under the Shops (Hours of Closing) Act, 1928, 8 shopkeepers had proceedings instituted against them for selling

SHOPS ACTS, 1912-1938.

TABLE XXI.—SHOWING NUMBER OF SHOPS AND NATURE OF BUSINESSES CARRIED ON IN THE VARIOUS PARISHES THROUGHOUT THE DISTRICT.

PARISHES.	Bakers.	Butchers.	Chemists.	Clothiers and Tailors.	Cycle Agents, &c.	Confectioners.	Dairies.	Dressmakers and Milliners.	Fish and Chip Shops.	Fishmongers.	Fruiters.	Furniture Dealers.	Grocers.	Hairdressers.	Hardware and Dry-salters.	Ice Cream and Aerated Water Manufacturers.	Newsagents and Stationers.	Saddlers.	Shoemakers.	Tobacconists.	Watchmakers.	Tea Rooms and Restaurants.	TOTAL.
Arrochar,	1	1	—	—	—	2	—	1	—	—	—	—	3	—	1	—	1	—	1	—	—	3	14
Bonhill,	13	12	5	4	1	41	8	24	6	3	13	4	22	8	7	10	17	—	8	5	2	9	222
Cardross,	5	8	2	2	2	22	4	6	2	1	6	—	9	3	1	2	7	—	2	—	1	—	85
Dumbarton,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kilmarnock,	—	—	—	—	—	—	3	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	5
Luss,	—	—	—	—	—	—	1	—	—	—	—	—	1	—	—	—	—	—	—	—	—	5	7
Rhu,	3	1	1	—	1	6	1	1	—	—	—	—	5	—	1	—	5	—	—	—	—	3	28
Rosneath,	—	1	—	—	1	2	—	—	—	—	—	—	3	1	—	—	1	—	—	—	—	1	10
Totals,	22	23	8	6	5	77	13	32	8	4	19	4	44	12	10	12	32	—	11	5	3	21	371

from their premises outwith the permitted hours. 7 were fined £1 and 1 was warned. A coal merchant was also proceeded against under the same Act for selling from a lorry after the prescribed hours and was fined £1. The same coal merchant was later proceeded against for a similar offence and was admonished. I should point out here that there is not a recognised weekly half-holiday for retailers of coal within this area, and for the purpose of administering the Act this is very unsatisfactory. Under the Act relating to the hours of young persons, 14 shopkeepers had to have their attention directed to the illegibility of the records of hours worked by young persons employed, and 1 shopkeeper was warned against employing a young person longer hours than that permitted under the Act.

Table No. XXI gives a record of the shops within each parish.

#### SUMMARY OF INSPECTIONS FOR 1939.

Buildings (new),	-	-	-	-	-	380
Buildings (alterations, &c.),	-	-	-	-	-	365
Dairies, cowsheds and milkshops,	-	-	-	-	-	445
Factories and workshops,	-	-	-	-	-	180
Investigation of infectious disease,	-	-	-	-	-	460
Nuisances,	-	-	-	-	-	2530
Pigsties,	-	-	-	-	-	80
Seasonal workers,	-	-	-	-	-	135
Shops,	-	-	-	-	-	403
Slaughterhouses,	-	-	-	-	-	558
Schools,	-	-	-	-	-	55
Special drainage districts,	-	-	-	-	-	448
Special scavenging districts,	-	-	-	-	-	14172
Special lighting districts,	-	-	-	-	-	2084
Tents, vans, sheds, and houseboats,	-	-	-	-	-	833
Inspections under Housing and Town Planning, Rural Workers, and Rent Restriction Acts, &c.,	-	-	-	-	-	3604

Housing 1935 Act Overcrowding Survey,	-	345
Rivers pollution,	- - - - -	71
Rats and Mice Destruction Act,	- - - - -	430
Miscellaneous,	- - - - -	4005
		<hr/>
		31583
		<hr/>

I have the honour to be,  
 Ladies and Gentlemen,  
 Your obedient servant,

THOMAS ALLAN.



## REPORT BY SANITARY INSPECTOR IN THE EASTERN AREA.

---

24 GEORGE SQUARE,  
GLASGOW, C.2.

LADIES AND GENTLEMEN,

It having been decided to maintain the yearly sequence of the Annual Reports in a restricted form, I submit to you Report for the year 1939.

### WATER SUPPLY.

During the year, 19 samples of water as quoted hereunder were collected and submitted to the Analyst for analyses.

No.	From	Water Supply.
1E.	Gamekeeper's Well, Bowling.	Bowling.
2E.	Auxiliary Tank, Filters, Bowling.	Bowling.
3E.	Hirst, Castlecary.	Tank fed by Stream.
4E.	Craigview, Waterside.	Kirkintilloch.
5E.	Police Station House, Duntocher.	Clydebank and District.
6E.	Police Station House, Bowling.	Bowling.
7E.	Police Station House, Old Kilpatrick.	Old Kilpatrick (Private).
8E.	Police Station House, High Beltains.	Dumbuck Estate (Private).
9E.	District Council Offices, Cumbernauld.	Lanarkshire.
10E.	House, Dumbuck. (R. P. Stewart).	Dumbuck Estate (Private).

No	From	Water Supply.
11E.	Glenhead Farm.	Cumbernauld.
12E.	Barrhill Cottage, Croy.	Spring in Field.
13E.	Barrhill Cottage, Croy.	Spring in Field.
14E.	Cortachy, Cumbernauld Station.	Lanarkshire.
15E.	Footbridge, Waterside. (Breenan's House.)	Kirkintilloch.
16E.	Police Station House, Duntocher.	Clydebank and District.
17E.	Police Station House, Old Kilpatrick.	Old Kilpatrick (Private).
18E.	Police Station House, Bowling.	Bowling.
19E.	Police Station House, High Beltains.	Dumbuck Estate (Private).

*West Kilpatrick Parish: Old Kilpatrick Private Supply.*—The position with regard to this water supply is that it is still privately controlled.

*Bowling Supply.*—During the year, cleaning operations were commenced at the reservoir under the direction of the County Engineer and the replacement of sand filters by a mechanical type was also in progress.

*East Kilpatrick Parish.*—The water supply in this area called for no special comment during the year. Where it was found necessary to pump water to maintain the water pressure to houses situated on high ground, a charge was made to the occupiers by Glasgow Corporation, but this has been withdrawn from 28th May, 1939, following an appeal by the rate-payers and the County Council.

*Cumbernauld Parish.*—Negotiations are still taking place between the County Council, the County Council of Lanark, and the Department of Health in relation to the proposed water supply to the Arns.

*Kirkintilloch.*—The water supply in this area gave no cause for question during the year.

## DRAINAGE SYSTEMS—EFFICIENCY.

During the year further sewers were laid to meet housing requirements.

At one point in the area the exceptional weather conditions throughout the winter overtaxed the sewers to the annoyance of householders, but the remedy for overcoming the possibility of a recurrence of the flooding is under consideration by the County Council.

*Bowling Special Drainage District.*—As stated in last year's report, notices had been served on the proprietors in this district to have the drainage systems of their properties connected to the sewers. This has been completed by the owners of the 61 properties in the district involved.

## SEWAGE PURIFICATION AND DISPOSAL.

The sewage effluents from the sewage purification works were sampled during the year.

## SCAVENGING—METHODS AND EFFICIENCY.

## BEARSDEN SPECIAL SCAVENGING DISTRICT.

Transport—Motor wagons, 4 (1 part time).

Staff—3 motor drivers, 14 scavengers, 2 coup attendants.

A wagon was replaced by a modern vehicle of the S.D. Freighter type.

The number of householders who took advantage of the Garden Refuse Scheme totalled 857 and payments received amounted to £480 5s. 5d., being placed to the credit of the district scavenging rate.

From the removal of furnace ashes the sum of £23 13s. was realised.

Due to the completion of additional houses, the district was further extended.

*Lawmuir Coup.*—The working arrangements at the coup are giving satisfaction.

#### DUNTOCHER SPECIAL SCAVENGING DISTRICT.

Transport—Motor wagon, 1.

Staff—1 motor driver, 2 scavengers.

#### KILPATRICK AND BOWLING SPECIAL SCAVENGING DISTRICT.

Transport—Motor wagon, 1.

Staff—1 motor driver, 4 scavengers, 1 coup attendant.

*Dumbuck Coup.*—This coup continues to meet the requirements of the district.

*Garscadden Garage.*—The situation of this depot and the space available is proving invaluable as a training centre for Air-raid Precautions, a section of the building having been altered and equipped as a Decontamination Station, and further alterations are in progress.

### SCAVENGING CONTRACTS.

The private contractors engaged for the year are shown as follows:—

#### *Cumbernauld Special Scavenging District—*

Contractor—Alexander Forrester & Son, Roadside, Cumbernauld.

Contract price—£150.

#### *Condorrat Special Scavenging District—*

Contractor—Robert Roberts, Roadside, Condorrat.

Contract price—£78.

#### *Croy Special Scavenging District—*

Contractor—Robert Miller and James Ryan, Braefoot Cottage, Condorrat.

Contract price—£105.

*Waterside Special Scavenging District.*—

Contractor—Wm. Stuart, 28 Donaldson Street, Kirkin-  
tilloch.

Contract price—£92.

## PUBLIC CONVENIENCES.

In this area there are three public conveniences and one public urinal.

The cash collected during the year amounted to—

Old Kilpatrick	-	-	-	-	-	£17	10	6	
Duntocher	-	-	-	-	-	4	7	11	
Hardgate	-	-	-	-	-	6	8	11	
							<hr/>		
							£28	7	4
							<hr/>		

## SANITARY CONVENIENCES.

Table XXII contains a record of dry-closets, water-closets and water supply, &c., applicable to houses.

## SCHOOLS.

A record of accommodation, water supply, and systems of drainage are noted in Table XXIII.

## FACTORIES ACT, 1937.

A survey was made of premises as indicated in Annual Report for the year 1938. Alterations were made to 4 buildings in order to comply with the Act and others are pending meantime. Under Section 34 which relates to suitable means of escape in case of fire, 2 Certificates were issued.

## BURIAL GROUNDS—SANITARY CONDITIONS.

During the year, inspections were made to the Burial

TABLE XXII.—DETAILS OF SANITARY CONDITIONS—EASTERN AREA.

PARISH.	Dry Closets in use serving					Water Closets serving					Houses, Tenants not having use of Water Closet or Dry Closet.	Houses without indoor water supply and sink.	
	1	2	3	4	5	2	3	4	5				
Bearsden, - - -	...	...	...	...	...	6	1	1	...	...	...	...	...
Condorrat, - - -	6	3	1	1	1	12	7	...	...	...	...	41	...
Cumbernauld, - - -	...	1	...	...	...	35	12	...	...	...	...	53	...
Duntocher, Hardgate, and Faifley, - - -	1	...	...	...	...	61	16	20	...	...	...	6	...
Old Kilpatrick, - - -	1	...	...	...	...	16	6	5	...	...	...	...	...
Bowling, - - -	1	2	...	...	...	23	11	6	...	...	...	...	...
Milton and Dumbuck, - - -	1	23	6	...	...	...	...	...	...	...	...	57	...
Twechar, - - -	...	...	...	...	...	43	36	...	...	...	...	...	...
Waterside, - - -	2	5	...	...	2	3	...	...	...	...	...	9	...
TOTAL, - - -	12	34	7	1	3	199	89	32	...	...	...	166	...

TABLE XXIII.—SCHOOLS.—(EASTERN AREA).

SCHOOL.	PUPILS.			STAFF.		WATER SUPPLY.	DRAINAGE.	REMARKS.
	Accommodation for	Average No. on Roll.	Water Closet and Urinal Accommodation.	Number.	Water Closet Accommodation.			
Cumbernauld P.S.,	190 p.p. 347 p.	85 p.p. 256 p.	18	13	3	Lanarkshire Grav.	To Distr. Sewer.	—
Southern District,	99	66	8	2	1	Do.	Septic Tank.	Effluent discharges into road drain.
Condorrat,	279	100	8	3	1	Do.	Do.	Do.
Holy Cross R.C.,	483	375	13	10	2	Do.	To Distr. Sewer.	—
Twechar,	270 p.p. 400 p.	59 p.p. 277 p.	19	12	5	Do.	Septic Tank.	Effluent discharges into Board Burn.
Gartconner,	235	133	6	4	1	Kirkintilloch Grav.	Do.	Effluent discharges into field.
Bearsden Academy,	332 p.p. 600 p.	345 543	21	30	3	Glasgow Corporation Grav. Supply.	To Distr. Sewer.	—
Westerton,	104	32	2	1	—	Do.	Do.	Rented premises for infants only.
Craigton,	58 p.p. 453 p.	260	6	2	1	Private Supply.	Septic Tank.	—
Gavinburn,	60 p.p. 329 p.	57 251	24	15	2	Old Kilpatrick Grav. Supply.	To Distr. Sewer.	—
Duntocher,	79 p.p. 450 p.	111 382	20	11	2	Clydebank Grav. Supply.	Do.	—
St. Mary's R.C.,	220	120	13	15	2	Do.	Do.	—
Milton P.S.	200	130	15	2	1	Bowling Gravitation Supply.	Discharged into River Clyde.	—
Kessington,	200	130	11	4	2	Glasgow Corporation.	District Sewer.	—

p.p. = post-primary.

p. = primary.

TABLE XXIV.—FACTORIES ACT, 1937.

TRADE OR BUSINESS.	Cumbernauld.	Kirkintilloch.	East Kilpatrick.	West Kilpatrick.	TOTAL.
Bakers, -	4	...	2	3	9
Blacksmiths, -	4	...	...	...	4
Bootmakers, -	...	1	2	2	5
Butchers, -	3	1	7	3	14
Chemical Works, -	1	...	...	2	1
Distillers, -	...	2	...	2	2
Dressmakers, -	...	...	...	1	1
Electrical Manufacturers, -	2	1	...	...	3
Fireclay Works, -	4	...	...	...	4
Grain Mills, -	...	...	...	1	1
Hosiery Manufacturers, -	2	...	1	2	5
Joiners and Carpenters, -	...	...	3	1	1
Laundries, -	1	...	...	3	5
Motor Engineers, -	1	...	...	3	4
Plumbers, -	...	...	...	...	...
Saddlers, -	...	...	...	1	1
Shipbuilders, -	...	...	...	1	2
Sculptors, -	2	...	...	...	2
Tailors, -	2	...	1	1	4
Miscellaneous, -	...	...	...	...	...
TOTALS, -	26	5	16	22	69
INSPECTIONS, -	32	8	34	24	98

Grounds when the conditions found were in accordance with requirements.

### BUILDING REGULATIONS.

The following summary gives an indication of the building progress during recent years and the extent of the decline which occurred in the present year due to unsettled conditions :—

Year.	Plans.	Houses. New.	Houses. Altered.	Houses. Rural.	Other Bldgs.	Total Houses, &c.
1934	320	468	16	87	240	811
1935	381	407	36	29	322	794
1936	382	426	49	22	289	786
1937	436	737	87	17	251	1092
1938	340	531	71	4	273	879
1939	296	497	56	3	207	763

Two plans relating to petrol pumps and tanks, 1 applicable to a garage extension and 1 for a proposed addition to a house, were refused under the Restriction of Ribbon Development Act, 1935.

On reference to Table XXV, there will be found a record of the number of plans passed, number of buildings and houses.

### NAMING OF STREETS.

#### BURGH POLICE (SCOTLAND) ACT (ADOPTED), SECTIONS 144 AND 145.

The following new roads were formed within Special Scavenging Districts and named and numbered in accordance with the above Act.

#### *Bearsden—*

Westerton—Wheatfield Road; Westfield Drive (continuation).

Mosshead—Heather Avenue.

#### *Duntocher—*

Duntiglennan—Farm Road; Hillend Crescent; Beeches Road (continuation).

TABLE XXV.—PLANS OF BUILDINGS—EASTERN AREA.

PARISHES.	PLANS.						No. of Buildings.			No. of Houses.					Total.	
	New Buildings.		Alterations.				Bungalows.	Cottages.	Flats and Terrace Houses.	2 Apartment.	3 Apartment.	4 Apartment.	5 Apartment.	Over 5 Apartments		
	Bungalows.	Cottages.	Flats and Terrace Houses.	Bungalows, &c.	Flats and Terrace Houses.	Total.										
Cumbernauld, -	2	4	...	3	2	11	2	7	5	14	...	9	25	1	1	36
Kirkintilloch, -	...	2	..	7	2	11	1	7	1	9	...	4	4	3	1	12
East Kilpatrick, -	55	2	1	31	...	89	267	2	8	277	...	138	146	146	20	450
West Kilpatrick, -	8	...	4	5	...	17	17	3	10	30	...	39	14	2	3	58
Total, -	65	8	5	46	4	128	287	19	24	330	...	190	189	152	25	556

*Old Kilpatrick—*

Old Kilpatrick—Kirk Crescent; Roman Road.

## LIGHTING.

In the Eastern Area of the County there is a total of 9 Special Lighting Districts, and the number of lamps is summarised as follows:—

## GAS.

District.	Street Lamps.	Signal Lamps.	Private Lamps.	Total Lamps.	Lamp-lighters
Bearsden, - - -	1104	6	3	1113	7
Duntocher, - - -	148	1	1	150	1
Kilpatrick and Bowling,	254	9	—	263	2
Waterside, - - -	22	3	—	25	—
Adamslie, - - -	6	—	—	6	—
	—	—	—	—	—
	1534	19	4	1557	10
	—	—	—	—	—

## ELECTRICITY.

District.	Street Lamps.	Signal Lamps.	Total Lamps.
Bearsden, - - - -	114	—	114
Cumbernauld, - - -	38	3	41
Condorrat, - - - -	37	—	37
Croy, - - - - -	31	—	31
Dullatur, - - - -	16	—	16
Waterside, - - - -	6	—	6
	—	—	—
	242	3	245
	—	—	—

On the declaration of war, public lighting was discontinued, but it is hoped that, following an announcement by the Minister of Home Security, a restricted form of lighting will be devised, to relieve the position.

Bearsden Special Lighting District was further extended during the year, to accommodate additional houses.

There is no special comment to be made in relation to the other Special Lighting Districts.

### BURIALS.

During the year the bodies of 2 men were recovered from the Forth and Clyde Canal and, being unclaimed, burials were carried out in accordance with Section 69 (1) of the Public Health (Scotland) Act, 1897.

### NUISANCES.

Table XXVI contains a summary of the nuisances dealt with during the year, all of which were ultimately abated.

### INCREASE OF RENT AND MORTGAGE INTEREST (RESTRICTION) ACTS.

One application was received during the year, but was withdrawn.

### TENTS, VANS, SHEDS AND HOUSEBOATS.

As in previous years, camping arrangements were made at Mains Estate and at Old Kilpatrick, by the Dunbartonshire Girl Guides' Organisation.

### PRIVATE STREETS AND FOOTWAYS.

The roads and footpaths added to the List of Roads, Highways and Bridges under Section 41 of the Roads and Bridges (Scotland) Act, 1878, is as follows:—

#### *Parish of New Kilpatrick—*

North View and footpaths, Westerton—from west side of Maxwell Avenue westward. 143 yards.

Stirling Avenue and footpaths, Westerton—from east side of Maxwell Avenue, northward. 138 yards.

Maxwell Avenue, Westerton, footpaths—from south side of Monreith Avenue to Westerton Station. 1 furlong 219 yards.





Deepdene Road and footpaths—from north side of North View to north side of Monreith Avenue. 85 yards.

Henderland Road and footpaths—from a point 64 feet south side of Murrayfield Drive to a point 61 feet north of north side of Murrayfield Drive. 55 yards.

Monreith Avenue and footpaths—from east side of Deepdene Road to west side of Maxwell Avenue. 199 yards.

Murrayfield Drive and footpaths—from east side of Maxwell Avenue to west side of Henderland Road. 85 yards.

North View and footpaths—from west side of Deepdene Road to a point 143 yards west of west side of Maxwell Avenue. 38 yards.

*Parish of West Kilpatrick—*

Bowling Housing Scheme, street and footpaths—from north side of Route A.814 to north side of Route A.814. 57 yards.

Duntocher Housing Scheme, street and footpaths—cul-de-sac from west side of Duntiglennan Road westward. 43 yards.

Service Road, Gavinburn Gardens and footpaths, Old Kilpatrick—from north west side of Gavinburn Place north-westward. 124 yards (crossing of cul-de-sac excepted).

*Parish of Kirkintilloch—*

Shirvahill Housing Scheme, streets and footpaths—(a) cul-de-sac—from south-west side of Sunnyhill south-westward. 15 yards; (b) Shirva Lee—cul-de-sac—from west side of Burnbrae westward. 54 yards; (c) Windy Yetts—cul-de-sac—from west side of Sunnyhill south-westward. 51 yards.

Cairn View and footpaths, Waterside—from north-west side of Back o' Dykes Road north-westward, including Crescent. 210 yards.

*Parish of Cumbernauld—*

Dalshannon Place and footpaths, Condorrat—from north-east side, Route B.802 north-eastward. 58 yards.

## RATS AND MICE (DESTRUCTION) ACT, 1919.

The annual rat campaign took place in the spring. The joint report on same will be found on page 17.

## FOOD SUPPLY.

Inspections were carried out to dairy farms at different periods throughout the year and any defects brought to the notice of the farmer.

With regard to the improvements to dairy premises under the Milk and Dairies (Scotland) Act, 1914, no change falls to be made in Table XXIX shown in the year 1938; therefore, there is no necessity to repeat the details which indicated that 2 premises still require to be reconditioned.

The number of registered dairies, &c., is as follows:—

Parish.	Dairies Registered.	Cows.	Milk Shops.	Vans.	Dairies from Exempt Registration.	Cows.
East Kilpatrick, -	21	—	10	17	2	4
West Kilpatrick, -	12	—	9	14	1	2
Cumbernauld, -	37	—	2	7	9	16
Kirkintilloch, -	27	—	8	23	7	12
Total, -	97	—	29	61	19	34

The changes in registration which took place during the year are as follows:—

	Dairies.	Shops.	Vans.	Total.
New Premises, -	—	—	3	3
Change of Occupier, -	2	—	—	2
Totals, -	2	—	3	5
Cancelled, -	5	2	—	7
Additional Premises registered, -	—	—	3	3

MILK (SPECIAL DESIGNATIONS) ORDERS (SCOTLAND),  
1936-38.

The milk produced and supplied under this heading to schools was sampled each month when the schools were in session, and that produced by all licence holders was sampled every 2 months.

At 1st January each year, licences are renewed and the following summary gives an indication of the licences granted to producers throughout the year, samples taken and unsatisfactory results which called for investigation and remedy:—

Licences.	Producers.	No. of Samples.	Bacteria.	Unsatisfactory Results.		
				Milk Fats.	Milk Solids.	Coli.
Certified,	- 4	30	—	—	—	5
T.T.,	- 8	45	8	1	—	3
T.T. (Past.),	- 1	6	1	—	—	—
Pasteurised,	- 1	4	1	—	—	—
Standard,	- 35	174	23	11	2	6
Total,	- 49	259	33	12	2	14

Where the cause of the defect proved to be due to carelessness on the part of the producer, a warning was given by the County Council and this was found necessary on 16 occasions. In 1 instance, there was no alternative but to revoke a licence due to the recurrence of the unsatisfactory results.

The number of dealers holding licences is 67 and a summary of the total licences granted is recorded as follows:—

	Certified Milk.	T.T. Milk.	T.T. Past. Milk.	Standard Milk.	Pasteurised Milk.	Total.
Producers,	- 4	8	1	35	1	49
Dealers,	- 22	20	—	8	17	67
Totals,	- 26	28	1	43	18	116

Compared with the year 1938, the total number of licences granted has increased by 35, under the heading Certified (4), Tuberculin Tested (6), T.T. Pasteurised (1), Standard (24).

## MEAT.

Inspections were made to the 2 slaughterhouses at Cumbernauld, and the number of animals slaughtered are denoted as follows :—

Class of Animal.	Number of Animals.			Weight (in lbs.) of Condemned Meat and Offals.
	Slaughtered.	Wholly Condemned.	Partially Condemned.	
Cattle, - -	93	—	14	198½
Sheep, - -	76	1	—	50
Pigs, - -	16	—	—	—
Calves, -	1	1	—	60
	186	2	14	308½

Applications for renewal of licences to slaughter or stun animals in accordance with the provisions of the Slaughter of Animals (Scotland) Act, 1928, and the Bye-laws of the Local Authority relating to swine, were received from the following, and licences granted : James Paul, Main Street, Cumbernauld ; James M'Laren, Main Street, Cumbernauld ; William B. M'Laren, Main Street, Cumbernauld. An application under the above-mentioned Act only, was received from Thomas Cameron, Wester Bedcow, Kirkintilloch, and a licence granted.

## MISCELLANEOUS.

## FOOD AND DRUGS (ADULTERATION) ACT, 1928.

## IMPORTED FOOD REGULATIONS.

## PUBLIC HEALTH (PRESERVATIVES IN FOOD) REGULATIONS.

During the year 266 samples were taken, 4 of which were "official" and 262 "test."

A record of the samples taken is recorded as follows :—

## FOOD AND DRUGS (ADULTERATION) ACT, 1928.

Parish	Record No.	Article.	Percent- age of Milk Fat.	Percent- age of Milk Solids other than Milk Fat.	Result.
East Kilpatrick, ..	88E	Certified Milk	3.51	8.92	Genuine
" " ..	91E	"	3.79	9.13	"
" " ..	114E	"	4.07	8.77	"
" " ..	116E	"	3.83	8.93	"
" " ..	146E	"	3.82	8.81	"
" " ..	189E	"	4.34	9.10	"
" " ..	201E	"	3.66	8.86	"
" " ..	222E	"	3.29	8.84	"
" " ..	226E	"	3.66	9.12	"
" " ..	263E	"	3.83	8.95	"
" " ..	4E	T. T. Milk	4.00	9.10	"
" " ..	9E	"	3.42	8.86	"
" " ..	10E	"	3.66	8.78	"
" " ..	14E	"	4.39	8.95	"
" " ..	37E	"	3.52	8.56	"
" " ..	45E	"	8.57	8.81	"
" " ..	52E	"	3.36	8.92	"
" " ..	82E	"	3.27	8.67	"
" " ..	96E	"	3.51	9.06	"
" " ..	109E	"	2.81	8.50	Not Genuine
" " ..	197E	"	4.56	8.52	Genuine
" " ..	227E	"	3.45	8.90	"
" " ..	32E	Standard Milk	3.57	8.63	"
" " ..	33E	"	3.66	8.88	"
" " ..	34E	"	3.60	8.67	"
" " ..	35E	"	3.88	8.86	"
" " ..	84E	"	3.59	8.87	"
" " ..	85E	"	3.12	8.80	"
" " ..	86E	"	3.83	9.39	"
" " ..	87E	"	4.53	8.67	"
" " ..	89E	"	3.52	9.23	"
" " ..	90E	"	3.02	8.93	"
" " ..	111E	"	3.53	8.87	"
" " ..	112E	"	4.09	8.65	"
" " ..	113E	"	3.47	8.89	"
" " ..	115E	"	3.45	9.01	"
" " ..	117E	"	3.50	8.84	"
" " ..	118E	"	3.58	8.76	"
" " ..	144E	"	3.95	8.63	"
" " ..	145E	"	3.30	8.76	"
" " ..	150E	"	3.58	8.76	"
" " ..	188E	"	3.54	8.52	"
" " ..	199E	"	3.48	8.81	"
" " ..	200E	"	3.22	8.56	"
" " ..	202E	"	3.62	8.76	"
" " ..	203E	"	3.88	8.88	"
" " ..	204E	"	2.91	8.62	Not Genuine
" " ..	217E	"	4.50	8.76	Genuine
" " ..	219E	"	3.78	8.86	"
" " ..	220E	"	3.30	8.51	"
" " ..	221E	"	3.23	8.62	"
" " ..	223E	"	3.62	8.84	"
" " ..	224E	"	3.22	6.60	Not Genuine
" " ..	225E	"	3.72	8.92	Genuine
" " ..	264E	"	3.78	8.88	"
" " ..	266E	"	3.33	8.68	"
West Kilpatrick, ..	79E	Certified Milk	3.62	9.00	"
" " ..	105E	"	4.51	8.89	"
" " ..	214E	"	3.04	8.50	"
" " ..	40E	T. T. Milk	3.07	8.96	"
" " ..	83E	"	3.40	8.66	"
" " ..	110E	"	3.45	8.77	"

## FOOD AND DRUGS (ADULTERATION) ACT, 1928.

Parish.	Record No.	Article.	Percent- age of Milk Fat.	Percent- age of Milk Solids other than Milk Fat.	Result.
West Kilpatrick, ..	194E	T.T. Milk	3.70	9.24	Genuine
" "	218E	"	3.99	9.14	"
" "	36E	Standard Milk	3.54	8.72	"
" "	38E	"	3.17	8.68	"
" "	39E	"	4.21	9.27	"
" "	78E	"	3.22	8.81	"
" "	80E	"	3.03	8.81	"
" "	81E	"	3.27	8.97	"
" "	106E	"	2.84	8.51	Not Genuine
" "	107E	"	3.12	8.86	Genuine
" "	108E	"	3.16	8.68	"
" "	143E	"	3.65	8.63	"
" "	193E	"	3.26	8.50	"
" "	195E	"	3.94	8.66	"
" "	196E	"	3.86	8.78	"
" "	198E	"	3.53	8.95	"
" "	210E	"	3.69	8.77	"
" "	213E	"	4.22	8.86	"
" "	215E	"	2.90	8.58	Not Genuine
" "	216E	"	3.23	8.85	Genuine
" "	262E	"	4.02	8.60	"
" "	265E	"	4.25	9.05	"
" "	3E	T.T. (Pasteurised)	3.62	8.90	"
" "	8E	"	3.53	8.99	"
" "	13E	"	3.53	8.85	"
" "	44E	"	3.65	8.87	"
" "	51E	"	3.45	8.81	"
" "	95E	"	3.42	8.96	"
" "	228E	"	3.54	8.86	"
Kirkintilloch, ..	134E	Certified Milk	4.57	8.89	"
" "	184E	"	4.15	9.35	"
" "	230E	"	4.24	9.26	"
" "	2E	T.T. Milk	4.09	9.39	"
" "	6E	"	4.26	9.42	"
" "	12E	"	3.55	9.11	"
" "	41E	"	4.26	9.28	"
" "	49E	"	3.45	8.89	"
" "	73E	"	3.58	9.02	"
" "	74E	"	3.41	9.04	"
" "	92E	"	3.62	9.20	"
" "	136E	"	3.01	8.77	"
" "	139E	"	3.44	8.82	"
" "	178E	"	3.67	8.87	"
" "	179E	"	3.07	8.97	"
" "	182E	"	4.24	8.98	"
" "	232E	"	3.52	8.94	"
" "	234E	"	2.64	9.24	Not Genuine
" "	236E	"	3.75	9.03	Genuine
" "	15E	Standard Milk	3.95	9.07	"
" "	16E	"	3.42	8.63	"
" "	17E	"	4.85	9.15	"
" "	18E	"	4.05	9.17	"
" "	19E	"	3.50	8.80	"
" "	20E	"	3.69	8.97	"
" "	21E	"	2.82	8.72	Not Genuine
" "	22E	"	3.44	8.79	Genuine
" "	31E	"	3.06	9.12	"
" "	47E	"	2.91	8.77	Not Genuine
" "	48E	"	3.09	8.69	Genuine
" "	53E	"	3.71	9.07	"
" "	54E	"	3.93	9.03	"
" "	55E	"	3.30	8.96	"

## FOOD AND DRUGS (ADULTERATION) ACT, 1928.

Parish.	Record No.	Article.	Percentage of Milk Fat.	Percentage of Milk Solids other than Milk Fat.	Result
Kirkintilloch,	56E	Standard Milk	4.22	8.90	Genuine
"	57E	"	3.57	9.19	"
"	58E	"	3.54	9.06	"
"	59E	"	3.10	8.62	"
"	60E	"	3.16	8.96	"
"	61E	"	3.37	8.67	"
"	70E	"	3.18	9.00	"
"	71E	"	3.55	8.61	"
"	100E	"	4.75	8.65	"
"	101E	"	3.51	8.64	"
"	130E	"	3.86	8.92	"
"	131E	"	3.05	8.55	"
"	132E	"	3.58	8.88	"
"	133E	"	3.45	8.51	"
"	135E	"	3.51	8.77	"
"	137E	"	2.90	8.67	Not Genuine
"	138E	"	3.18	8.94	Genuine
"	140E	"	3.81	8.87	"
"	141E	"	3.56	9.00	"
"	142E	"	3.75	8.83	"
"	151E	"	4.51	8.95	"
"	152E	"	4.45	9.29	"
"	153E	"	4.51	8.73	"
"	173E	"	4.38	8.70	"
"	174E	"	3.51	9.05	"
"	176E	"	3.76	8.98	"
"	177E	"	3.42	9.02	"
"	180E	"	3.92	9.02	"
"	181E	"	3.43	8.55	"
"	183E	"	4.28	8.84	"
"	185E	"	5.92	8.74	"
"	186E	"	3.83	8.99	"
"	187E	"	9.37	8.75	"
"	212E	"	4.80	8.72	"
"	229E	"	3.67	9.27	"
"	231E	"	3.36	8.84	"
"	233E	"	3.43	9.09	"
"	235E	"	3.76	9.12	"
"	237E	"	3.67	8.95	"
"	238E	"	3.43	9.15	"
"	239E	"	3.61	8.79	"
"	240E	"	4.39	9.03	"
"	241E	"	3.37	8.67	"
"	243E	"	2.28	8.74	Not Genuine
"	5E	Pasteurised Milk	3.38	8.76	Genuine
"	42E	"	3.59	8.77	"
"	93E	"	3.32	8.81	"
"	261E	"	3.57	8.61	"
"	205E	Sweet Milk	*5.24	8.63	"
"	206E	"	*4.04	8.74	"
"	207E	Link Sausage (Beef)	* —	—	"
"	208E	Margarine	* —	—	"
Cumbernauld,	1E	T.T. Milk	3.78	9.06	"
"	7E	"	3.58	9.06	"
"	11E	"	3.18	8.97	"
"	43E	"	3.56	9.06	"
"	50E	"	3.51	8.82	"
"	75E	"	3.27	8.51	"
"	76E	"	3.06	8.84	"
"	94E	"	3.83	9.19	"
"	99E	"	4.17	8.69	"
"	124E	"	3.89	9.19	"

\* Official Samples.

## FOOD AND DRUGS (ADULTERATION) ACT, 1928.

Parish.	Record No.	Article.	Percentage of Milk Fat.	Percentage of Milk Solids other than Milk Fat.	Result.
Cumbernauld	127E	T.T. Milk	3.68	8.98	Genuine
"	157E	"	4.96	9.18	"
"	164E	"	4.17	9.17	"
"	167E	"	4.68	9.11	"
"	168E	"	3.74	8.96	"
"	192E	"	4.53	9.33	"
"	211E	"	4.06	8.56	"
"	249E	"	3.58	9.04	"
"	254E	"	3.81	9.27	"
"	256E	"	3.04	9.16	"
"	259E	"	3.39	9.03	"
"	260E	"	3.52	9.20	"
"	23E	Standard Milk	3.89	8.93	"
"	24E	"	3.19	9.07	"
"	25E	"	3.88	8.68	"
"	26E	"	3.56	8.76	"
"	27E	"	3.23	8.50	"
"	28E	"	3.52	8.86	"
"	29E	"	3.51	8.85	"
"	30E	"	3.77	8.81	"
"	46E	"	3.75	8.65	"
"	62E	"	3.31	8.64	"
"	63E	"	3.01	9.07	"
"	64E	"	3.40	8.68	"
"	65E	"	3.38	9.08	"
"	66E	"	3.09	8.66	"
"	67E	"	3.50	8.73	"
"	68E	"	3.80	8.98	"
"	69E	"	2.82	8.81	Not Genuine
"	72E	"	3.87	8.89	Genuine
"	77E	"	3.80	8.77	"
"	97E	"	3.58	8.63	"
"	98E	"	4.15	8.85	"
"	102E	"	3.74	8.60	"
"	103E	"	4.00	8.82	"
"	104E	"	3.75	8.57	"
"	119E	"	4.18	8.76	"
"	120E	"	7.98	8.66	"
"	121E	"	4.83	8.91	"
"	122E	"	3.73	8.69	"
"	123E	"	3.49	8.95	"
"	125E	"	2.91	8.53	Not Genuine
"	126E	"	3.83	8.55	Genuine
"	128E	"	3.52	8.76	"
"	129E	"	3.60	8.98	"
"	147E	"	4.11	8.91	"
"	148E	"	3.72	8.80	"
"	149E	"	3.28	8.92	"
"	154E	"	4.15	9.25	"
"	156E	"	4.26	8.80	"
"	158E	"	3.73	8.51	"
"	159E	"	4.11	9.15	"
"	160E	"	5.22	8.71	"
"	161E	"	4.10	9.02	"
"	162E	"	4.89	8.73	"
"	163E	"	3.76	9.10	"
"	165E	"	3.98	9.04	"
"	166E	"	3.78	9.08	"
"	169E	"	3.83	9.07	"
"	170E	"	3.82	8.92	"
"	171E	"	3.40	9.23	"
"	172E	"	3.34	8.72	"

## FOOD AND DRUGS (ADULTERATION) ACT, 1928.

Parish.	Record No.	Article.	Percentage of Milk Fat.	Percentage of Milk Solids other than Milk Fat.	Result.
Cumbernauld	175E	Standard Milk	4.28	9.24	Genuine
"	190E	"	5.00	9.30	"
"	191E	"	4.97	8.81	"
"	209E	"	4.80	8.66	"
"	242E	"	2.96	8.94	Not Genuine
"	244E	"	3.85	8.69	Genuine
"	245E	"	3.50	8.80	"
"	246E	"	3.97	8.91	"
"	247E	"	3.80	8.76	"
"	248E	"	4.06	9.18	"
"	250E	"	3.70	8.91	"
"	251E	"	3.24	8.91	"
"	252E	"	3.35	8.79	"
"	253E	"	3.50	8.62	"
"	255E	"	3.01	8.46	"
"	257E	"	3.78	8.68	"
"	258E	"	3.45	8.65	"
"	155E	Sweet Milk	4.28	8.96	"

## SHOPS ACTS, 1912-34.

## SHOPS (HOURS OF CLOSING) ACT, 1928.

In accordance with Circular No. 3752, an Order was made by the County Council amending the Shops (Hours of Closing) Act, 1928, whereby shops shall close not later than 8 p.m. on Saturdays and 7 p.m. on the other days of the week, with the exception of shops trading in the sale of newspapers, tobaccos, confections, &c., where the existing hours will continue to operate.

Table XXVII contains a record of the shops within each Parish.

## INSPECTIONS.

Buildings (new),	-	-	-	-	-	2224
Buildings (altered),	-	-	-	-	-	118
Buildings (drain tests),	-	-	-	-	-	672
Buildings (dangerous),	-	-	-	-	-	2
Burials,	-	-	-	-	-	2
Complaints,	-	-	-	-	-	28
Dairies,	-	-	-	-	-	249
Factory,	-	-	-	-	-	98

SHOPS ACTS, 1912.  
TABLE XXVII.—SUMMARY OF BUSINESSES WITHIN PARISHES IN THE EASTERN AREA.

PARISH.	Bakers.	Butchers.	Chemists.	Cycle and Motor Agents.	Confections, Refreshments, Tobaccos.	Dairies.	Drapers and Clothiers.	Fishmongers.	Fish and Chip Shops.	Grocers.	General Stores.	Hairdressers.	Drysalter.	Licensed.	Newsagents.	Shoemakers.	Plumbers.	Fruiterers.	Ironmongers.	Painters.	Jeweller.	Total.
Cumbernauld, -	5	3	...	1	12	1	3	..	4	8	...	2	...	4	3	...	1	...	...	...	...	47
Kirkintilloch, -	...	1	...	...	8	...	...	...	2	4	...	...	...	1	...	1	...	...	...	...	...	17
East Kilpatrick,	4	7	3	...	8	2	3	3	...	11	1	2	...	...	7	2	...	3	3	1	...	60
West Kilpatrick,	4	5	2	...	19	1	4	1	4	17	2	2	1	11	5	3	1	3	1	1	1	88
Totals,	13	16	5	1	47	4	10	4	10	40	3	6	1	16	15	6	2	6	4	2	1	212

Food and drugs, - - - - -	266
Housing (insanitary areas), - . - -	151
Housing (rural), - - - - -	26
Housing (overcrowding), - - - -	894
Infectious disease, - - - - -	320
Nuisances, - - - - -	1099
Shops, - - - - -	184
Slaughterhouses, - - - - -	103
Special drainage districts, - - - -	108
Special lighting districts, - - - -	6312
Special scavenging districts, - - - -	5981
Other matters, - - - - -	391
	19,228

During the year 15 samples were collected in relation to Rivers' Pollution, and the work done in connection with this subject and that of Housing is referred to in another part of the Report.

#### GOVERNMENT EVACUATION SCHEME.

It may be recorded that in the initial stages of this scheme, a survey of accommodation within the landward portion of the Eastern Area of the County, excluding Old Kilpatrick Parish, was carried out by the Sanitary Inspectors with the assistance and co-operation of the District Council Clerks.

On 17th January, 1939, prior to the completion of the survey on 28th February, 1939, 4404 leaflets were dispatched from this office to occupiers of houses relating to the Transfer of Population in War Time, together with a personal letter from the County Convener.

The reception areas were subsequently restricted to 2 parishes where accommodation was arranged for 613 children, 83 teachers, and 131 others, making a total of 837. The actual numbers received were 62 mothers, 131 children (unaccompanied), 148 children (accompanied) and 16 others, totalling 357.

The Sanitary Inspectors were appointed billeting officers,

and district council clerks, reception officers. The assistance and co-operation rendered by members of the Women's Voluntary Service were invaluable. Appreciation is also extended to the many persons outwith voluntary organisations who placed motor cars and other forms of assistance at the disposal of the officials, to ensure the success of the Scheme.

#### GENERAL.

The compilation of this report under the present conditions has been restricted to the salient points, and it will, no doubt, be appreciated that though restricted, its record value has been maintained.

I am, Ladies and Gentlemen,

Your obedient servant,

J. D. M'KENDRICK.

*County Sanitary Inspector.*

## REPORT BY COUNTY ENGINEER.

### SPECIAL DRAINAGE DISTRICTS.

ARROCHAR SPECIAL DRAINAGE DISTRICT.—The construction of the drainage scheme had to be suspended during the early months of the year due to adverse weather conditions and the work was completed on 20th September, 1939.

The various proprietors are now having the drainage of their properties connected to the sewers.

GARELOCHHEAD SPECIAL DRAINAGE DISTRICT.—With the approval of the Commissioner for Special Areas, Messrs. Price & Goudie, Ltd., Dumbarton, commenced the work of the construction of the sewers and detritus tanks within the District on the 24th April, 1939, and the work is proceeding satisfactorily.

To begin with the contractor had difficulty in obtaining the necessary number of men from the Labour Exchange to fulfil the condition of grant, but it was arranged that the contractor could engage men from the Alexandria Employment Exchange and this arrangement is proving satisfactory.

The approval of the Mercantile Marine Department of the Board of Trade was received for the construction of the four outfall sewers to Low Water Mark Ordinary Spring Tides of the Gareloch.

In order to deal with the drainage of the new houses which have recently been constructed on the west side of the Gareloch it is necessary that the sewer should be extended to deal with the drainage from these properties. The Committee approved of an extension of the sewer at an estimated cost of £190.

RHU SPECIAL DRAINAGE DISTRICT.—The drainage arrange-

ments within the District were maintained in a satisfactory manner throughout the year.

An inspection of the sewer in Station Road revealed that the original sewer, constructed a considerable number of years ago before the drainage district was formed, was crushed due to insufficient cover. It was considered advisable that this sewer should be renewed and the Committee approved of an estimated cost of £540 to enable this work to be carried out. The work will be commenced early next year.

The drainage scheme for the North Bay was completed on the 7th July, 1939, but during the early part of the year owing to the weather conditions work had to be suspended. Arrangements have been made to connect the drainage from the properties for which this sewer is intended to give drainage facilities.

The building development near Letrault Farm necessitated the sewer being extended at an estimated cost of £165. The work was carried out by Mr. John F. Gillespie, Garelochhead.

Complaints were received regarding the sewer outwith the District at the boundary between the Burgh of Helensburgh and the County of Dunbarton. This matter is receiving the consideration of the Committee.

CRAIGENDORAN SPECIAL DRAINAGE DISTRICT.—The construction of the sewers and outfall sewer to deal with the drainage of the District is still in progress but the work should be completed early next year.

Considerable difficulty has been experienced in the construction due to the large amount of water to be dealt with in the sub-soil. In an endeavour to reduce the ultimate cost of the scheme, the Committee decided to avoid the extensive cost in the resurfacing of the asphalt roadway, and alternative lines for the proposed sewers were submitted to the Commissioner for Special Areas, together with a revised estimate of cost showing a total estimate of £17,500. The Commissioner agreed to this alternative scheme and also undertook to give a similar grant on the excess cost.

The contractor, Mr. F. J. C. Lilley, was approached regard-

ing the work in connection with the drainage connections which would be necessary from the properties for which the drainage facilities are provided, and prices were obtained from him for the various works. It is proposed to issue a list of the contractor's prices to the various proprietors in order that they may obtain the advantage of the services of the contractor should they so desire.

An extension of the sewer was carried out at the housing scheme by Messrs. Price & Goudie, Ltd., Dumbarton. Application for an extension of the sewer was dealt with by the Committee for drainage facilities at Muirend Estate. The estimated cost of the work is £550 and the Committee have accepted the offer of Messrs. James Ritchie & Son, Cardross, who will commence operations early next year.

The Committee approved of the extension of the Special District at Craigendoran. The Drainage Scheme proposed for this area was approved of by the Commissioner for Special Areas who is prepared to give a grant for the scheme. Schedules have been issued and the Committee have accepted the tender of Messrs. Jamieson & M'Callion, Ltd., Dumbarton, amounting to £4718 6s. 8d. The work was commenced on the 24th July, 1939. Notice plans under Section 103 of the Public Health (Scotland) Act, 1897, were served on the various proprietors and occupiers through whose land it was intended to construct the sewers. It was also necessary to negotiate with the London & North Eastern Railway Company for an agreement for the construction of the sewer across the Helensburgh Branch of the Company's Railway. Some difficulty was experienced in obtaining the consent of the Mercantile Marine Department of the Board of Trade to construct the outfall sewer to the Low Water Mark Ordinary Spring Tides of the River Clyde, but it was ultimately satisfactorily settled.

**GARTOCHARN SPECIAL DRAINAGE DISTRICT.**—The Committee accepted the offer of Mr. John Freebairn, Glasgow, for the construction of sewers and sewage disposal works to provide drainage facilities for the District.

To acquire land for the sewage disposal works negotiations were necessary before the work was commenced on the 14th August, 1939, and satisfactory progress has been made with the scheme.

The tender of Messrs. Ames Crosta Mills & Co., for the filter plant was accepted by the Committee.

VALE OF LEVEN AND RENTON SPECIAL DRAINAGE DISTRICT.—  
The existing drainage facilities within the District continue to be satisfactory. Periodical samples were taken of the effluent discharging into the River Leven and the results obtained gave no cause for complaint.

It was necessary to overhaul the Diesel engine at the main Pumping Station at an estimated cost of £160.

The work of the sewer to deal with the immediate development at Dalmoak was carried out by Mr. F. J. C. Lilley, Glasgow. The Scottish Special Housing Association, Ltd., in connection with the Special Areas was delayed in proceeding with the proposed Housing Scheme at Dalmonach on account of difficulty in acquiring a portion of the site. Due to the war emergency the Association has abandoned the scheme.

Plans and detailed estimates for the surface water sewers were submitted to the Commissioner for Special Areas who approved of the scheme and was prepared to give a grant. Tenders were received from contractors, but the work is not yet commenced.

The United Turkey Red Co., Ltd., decided not to proceed with the proposed housing development at Milton Works, Jamestown. The contract for the sewers had been accepted, adjustments were made with the contractor, but due to the decision of the company the construction of the sewers did not proceed.

Consideration was given to the construction of the original manholes in the old drainage system where a sump has been provided in each manhole. The Committee decided to fill in with concrete the sumps in the manholes and also to provide a channel in each at an estimated cost of £300.

Tenders were received for the proposed sewers to deal with

the drainage facilities required for the housing scheme at Auchencarroch Road, and also the extension of the housing scheme at Cordale, Renton, but as the scheme at Auchencarroch Road is not likely to be proceeded with, only the sewers at Cordale are under construction meantime.

The Committee approved of the estimated cost of £1800 for the construction of a sewer to relieve the sewers in the Burnbrae area. The sewer will be laid along Arthur Street to the main outfall sewer in Leven Street.

**BOWLING SPECIAL DRAINAGE DISTRICT.**—The drainage arrangements provided within the District have been satisfactorily maintained and no complaints have been received.

The Committee authorised the acceptance of the tender of Messrs. Jamieson & McCallion, Ltd., amounting to £5383 1s. 6d. for the construction of the necessary sewers and contingent works to deal with the drainage of the Milton area.

Negotiations were satisfactorily completed with the London & North Eastern Railway Company and the London, Midland & Scottish Railway Company so far as the proposed drainage scheme affected their property. The work was commenced on the 15th August, 1939, and satisfactory progress is being made. The Committee have under consideration the provision of drainage facilities to deal with a proposed development in the western area of the District. The drainage scheme is estimated to cost £3200 and has been submitted, together with application for grant to the Commissioner for Special Areas. The Commissioner has decided that he is unable to authorise a grant for this scheme. The Committee have still this proposed scheme under consideration.

**OLD KILPATRICK SPECIAL DRAINAGE DISTRICT.**—The sewers within the District continued to give satisfaction and were maintained in a satisfactory manner.

To deal with the drainage from the Freeland's Place area negotiations were carried out with the Clydebank Town Council in order to provide a scheme which would deal with the drainage of both areas. It was agreed to construct a

sewer which would necessitate the sewer being laid through the culvert under the Forth and Clyde Canal and the London, Midland & Scottish Railway. The sewer will ultimately be connected to the Dalmuir Sewage Works belonging to the Corporation of Glasgow. Negotiations were then necessary with the London, Midland & Scottish Railway Company and satisfactory conditions were arranged for the construction of the sewer through the company's property.

It was also necessary to arrange terms with the Corporation of Glasgow for the treatment of sewage at the Dalmuir Sewage Works and terms were arranged on a rateable value basis of 2d. per £.

Satisfactory negotiations were completed with the Joint Burial Grounds Committee to take over the 12-inch diameter existing sewer belonging to them and dealing with the drainage from Dalnottar Cemetery.

**DUNTOCHER SPECIAL DRAINAGE DISTRICT.**—The drainage arrangements within the District continued to give satisfaction, but difficulty was experienced with the outfall sewer near Duntocher Burn where the depositing of surplus excavation caused a subsidence to the sewer.

The necessary sewers to deal with the housing development at Duntiglennan were constructed by Mr. George K. Davie, Duntocher, whose tender amounting to £842 1s. 4d. was accepted by the Committee.

The work on the new outfall sewer was commenced on 14th March, 1939, and is progressing satisfactorily. With the approval of the Commissioner for Special Areas, the tender of Mr. F. J. C. Lilley, Glasgow, was accepted by the Committee.

The Committee approved of an extension of the sewer in Beeches Road, Duntocher, at an estimated cost of £140, and the work was carried out by Mr. George K. Davie, Duntocher.

**BEARSDEN SPECIAL DRAINAGE DISTRICT.**—The sewers within the District continue to give satisfaction and the pumping plants at the three pumping stations were also satisfactorily maintained.

Investigations were carried out in connection with the flooding which has been experienced at Canniesburn Toll. It was difficult, however, except in heavy rain, to determine the exact cause of the flooding, but a scheme estimated to cost £2000 has now been approved of by the Committee, and tenders have been issued. It is hoped that the work will be proceeded with early next year.

The Committee had under consideration the issue of a further contract in connection with the housing development at Mosshead Estate, but as a further development is not likely to be proceeded with meantime, the Committee decided to delay the issue of this contract.

The drainage facilities for the further extension of the housing scheme at Whitehurst were carried out by Mr. Robert Anderson, Stepps.

The sewers to deal with the housing development at Kessington East were carried out by Mr. G. K. Davie, Duntocher.

The Committee approved of an estimated cost of £350 to provide sewers to deal with the development at Hawthorn Drive, Kilmardinny. The work was carried out by Mr. Robert Anderson, Stepps.

The sewers, at an estimated cost of £880, were constructed by Mr. G. K. Davie, Duntocher, to provide the drainage facilities necessary for a housing development at Deepdene Road, Westerton.

Drainage facilities were also provided at Pendicle Road at an estimated cost of £340 and the work was carried out by Mr. G. K. Davie, Duntocher.

Drainage facilities were required in Iain Road, Bearsden, and the Committee approved of an estimated cost of £760 for this work which was carried out by Mr. Robert Anderson, Stepps.

A scheme for drainage facilities at an estimated cost of £2250 was approved to provide sewers for the proposed development south of the Helensburgh Branch of the London & North Eastern Railway, but pending further information it was decided that the schedules should not be issued for this work during the present emergency.

An application was dealt with from the Corporation of

Glasgow to make connections to the outfall sewer to provide drainage facilities for a housing scheme. The application was granted subject to the payment of drainage rate on the properties connected to the sewer.

Where the outfall sewer is constructed near St. Germain's Loch a serious obstruction was caused by the sewer collapsing due to the peaty nature of the ground in which the sewer was constructed. The estimated cost of the repairs is £780, and the work is being carried out by Mr. G. K. Davie, Duntocher.

CONDORRAT SPECIAL DRAINAGE DISTRICT.—The sewers within the area continue to be satisfactorily maintained and the pumping station and sewage disposal works continue to function satisfactorily.

Satisfactory terms were adjusted with the Ministry of Transport in connection with the ground proposed to be acquired in relation to the proposed widening of the Stirling Road.

CUMBERNAULD SPECIAL DRAINAGE DISTRICT.—The sewers within the District were satisfactorily maintained throughout the year.

In connection with the scheme for the reconstruction of the sewage works, the humus tank, and effluent pipe, satisfactory negotiations were completed with the London, Midland & Scottish Railway Company in connection with the work which affected their property. Messrs. Ames Crosta Mills & Co. installed the dosing syphons and revolving sprinklers. The work has been satisfactorily completed.

The Committee approved of drainage facilities estimated at £340 to deal with a further extension of the housing scheme. The work was carried out by Messrs. J. Carroll & Sons, Ltd., Cumbernauld.

DULLATUR SPECIAL DRAINAGE DISTRICT.—Throughout the year the sewers and sewage disposal works were satisfactorily maintained.

The Committee decided to proceed with a scheme for the reconstruction of the Sewage Works, a new sprinkler filter and

humus tank. The work involved also included an access road. A scheme was approved of by the Commissioner for Special Areas for grant. The Commissioner authorised the acceptance of the tender of Messrs. Stark & Dobbie, Glasgow, amounting to £1066 19s. 2d., and the tender of Messrs. Ames Crosta Mills & Co. amounting to £32 for the dosing syphon and sprinkler. The work is proceeding satisfactorily.

WATERSIDE SPECIAL DRAINAGE DISTRICT.—The sewers and septic tank throughout the year were kept in a satisfactory condition. The Committee approved of the construction of a storm overflow on the main sewer at an estimated cost of £60.

Consideration is being given to the treatment of the effluent from the septic tank and a scheme for the installation of filters is in course of preparation.

CROY SPECIAL DRAINAGE DISTRICT.—The Sewage Disposal Works and the sewer were maintained in a satisfactory condition throughout the year.

A further extension of the sewers, estimated at £360, was carried out by Mr. Robert Anderson, Stepps, to deal with the drainage from the extension of the housing scheme.

#### DRAINAGE—GENERAL.

On account of the outbreak of war consideration is being given to the protection of sewers damaged due to enemy action.

Consideration is being given by the Committee to the formation of a special drainage district at Shandon to deal with the drainage of a proposed development in this area. Owing to the war emergency the proposed development has been abandoned and the Committee decided not to form a Special District meantime.

To deal with the proposed development at Havock at the western boundary of the Burgh of Dumbarton, the Committee had under consideration the formation of a drainage district. A scheme was submitted to the Commissioner for Special Areas but due to the proposed extension of the Burgh boundaries of

Dumbarton the Commissioner delayed consideration of the scheme until the question of the Burgh boundaries has been completed. As the boundaries were extended to include this area it was not necessary to deal further with this scheme.

Sewers were constructed to deal with the County Council Housing Scheme at Twechar. The sewers were connected to the sewage works belonging to Messrs. William Baird & Co., Ltd., and the work was carried out by Mr. Robert Anderson, Stepps.

### SPECIAL WATER SUPPLY DISTRICTS.

ARROCHAR SPECIAL WATER SUPPLY DISTRICT.—The water supply was maintained and the storage provided proved to be satisfactory for the needs of the District.

The Committee had under consideration the extension of the District to include the Arrochar Parish Church Hall, but it was decided to delay the proposal meantime.

GARELOCH SPECIAL WATER SUPPLY DISTRICT.—The County Council approved of the amalgamation of the existing Garelochhead Special Water Supply District and Rhu Special Water Supply District. The District is now called Gareloch Special Water Supply District, and includes Garelochhead, Clynder, Rosneath, Shandon, and Rhu.

The water supply was maintained in a satisfactory manner. No complaints were received regarding the discolouration in the water during the year. The filtration plants completed at Rhu and to be installed at Garelochhead should be helpful in maintaining a satisfactory water supply.

The renewal of the water mains at Garelochhead is proceeding and should be completed early next year.

Consideration was given to the filter plant to be installed in connection with this scheme, and the plant manufactured by The Permutit Co., Ltd., is being installed.

The work of the construction of the water mains from the Auchingaich source to Shandon is being carried out by Messrs. James Ritchie & Sons, Cardross, and is proceeding satisfactorily. This scheme involves the linking up of the water

mains at Rhu with the water from the proposed Auchingaich Reservoir. The proposed reservoir at the Auchingaich Burn is under construction and the tender of Mr. John Freebairn, amounting to £26,147 11s. was accepted.

On account of damage by the severe weather experienced in the early part of the year the Intake Weir for Garelochhead Reservoir required to be renewed at an estimated cost of £150.

A renewal of the water main in Shore Road, Garelochhead, is proposed at an estimated cost of £300.

The renewal of the water mains within the Rhu area was completed and also the installation of the pressure filters. Satisfactory results are being obtained.

A new water main was laid at Torwood Road, Rhu, at an estimated cost of £200.

Extension of the water main at Rhu Pier was also made at an estimated cost of £50.

Difficulty has been experienced with high pressure in the water mains in certain parts of the Rhu area, and to reduce the pressure it is proposed to renew certain of the pressure reducing valves at an estimated cost of £200.

#### CARDROSS, RENTON AND VALE OF LEVEN SPECIAL WATER SUPPLY DISTRICT :

*Cardross Area.*—The water mains and the supply of water within the District were satisfactorily maintained and no difficulty was experienced during the summer months.

The work of renewing certain of the water mains and the installation of the pressure filter plant was completed during the year. The filter plant was installed by The Silical Water Softeners (Industrial), Ltd., London, and the installation is giving satisfaction.

The water main was extended outwith the District to supply a proposed development near Camis Eskan Farm. The estimated cost of the work is £1760, and the work was carried out by Messrs. James Ritchie & Sons, Cardross.

An extension of the water main is proposed to deal with the further development at Camis Eskan at an estimated cost of £220. To deal with further development at Muirend

Estate it is proposed to extend the water main at an estimated cost of £440.

*Renton Area.*—Throughout the year the water supply within the District continued to be satisfactory and the water mains, pressure filters and sand filters were satisfactorily maintained.

The extension of the water main at Cordale Housing Scheme was completed and the work was carried out by Messrs. Price & Goudie, Ltd., Dumbarton.

The water main to deal with the housing development at Dalmoak Estate was completed.

*Vale of Leven Area.*—The water supply within the District was maintained in a satisfactory manner.

The scheme of the construction of pressure filters at Loch Finlas and the laying of the water mains from the reservoir to Croftamie was completed and the supply of water has been given to the various consumers within the Kilmarnock Parish.

Meantime the supply at Croftamie continues to supply the needs of this village although the recently introduced water supply is also available.

To deal with the proposed building development near Drumkinnon Farm, the Committee agreed to grant a supply of water outwith the District, the main to be constructed by the proprietor at an estimated cost of £330.

The water main was renewed in North Street, Alexandria, at an estimated cost of £130.

A short section of main was laid in Luss Road to give water facilities to further building development. The estimated cost of this work is £38.

The water main was also extended at Tullichewan Road on account of building development, at an estimated cost of £68.

*Bowling Special Water Supply District.*—During the year the water supply was maintained, but it was necessary to obtain a considerable quantity of water from the Burgh of Dumbarton under Section 14 of the Dumbarton Burgh (Water, &c.) Order, 1914.

Negotiations with the Auchentorlie Estate were completed and the work of cleaning the reservoir, construction of the new filters and the laying of the water mains is progressing satisfactorily. The reservoir required to be drained to allow the work to proceed and it was necessary to obtain a supply of water from the Burgh of Dumbarton to supply the needs of the District.

The pressure filter apparatus to be installed in the filter house is being manufactured by Messrs. United Filters & Engineering, Ltd., London, whose tender amounted to £617.

The Committee have under consideration the extension of the Water Supply District on account of an application received for a water supply for a development opposite Dumbuck Hotel. Owing to the urgency of this development the company have agreed to lay the water main under the supervision of the County Council, who will acquire the main when the District is extended.

In anticipation of the demand which may be made for water supply, the Committee agreed to replace the existing 3-inch diameter main from Milton to Dumbuck by a 6-inch diameter main, the estimated cost of this work being £1250.

*Waterside Special Water Supply District.*—The water supply throughout the year was maintained in a satisfactory manner. The supply for this District is obtained in bulk from the Burgh of Kirkintilloch. It was essential that care be taken during the winter months to trace all service pipes damaged by frost and thereby prevent the water being run to waste.

#### WATER—GENERAL.

The acquisition of the water undertaking at Old Kilpatrick, owned by the Lennoxlove Estate, received consideration and negotiations took place, but on account of the outbreak of war it was decided not to proceed further with these negotiations meantime.

In conjunction with the Lanarkshire County Council consideration was given to the request for a water supply in the Arns Area of the Parish of Cumbernauld. A scheme to extend

the water main from Mid Forest Farm to Arns was submitted and received the approval of the Commissioner for Special Areas. The estimated cost of this work is £1780.

Negotiations with the Corporation of Glasgow regarding the additional rate of 4d. in the £ to properties receiving water from the pumping station resulted in the corporation deciding not to impose this charge.

Negotiations took place with the Stirlingshire and Falkirk Water Board who desired to make provision for the Western District of Stirlingshire and suggested that it might be possible to supply also the Dunbartonshire area adjacent to Stirlingshire. As the Dunbartonshire area is amply supplied with water and in fact has received requests to supply properties within Stirlingshire, it was decided no useful purpose could be served by making any future provision for the Dunbartonshire area.

Consideration has been given to mutual co-operation between the Water Authorities and a Dunbarton Regional Committee has been formed with representatives from the County Council of Dunbarton, County Council of Stirling, Clydebank and District Water Trust, Burgh of Dumbarton, Burgh of Helensburgh, and the Burgh of Kirkintilloch. It is intended to form regional stores within the area and also to connect the water supply between Old Kilpatrick and Clydebank, and Old Kilpatrick and Bowling. The estimated cost of the stores to be provided and the proposed cross connections amount to £4500. The Department of Health have authorised a grant of 50 per cent. towards the cost.

#### PRIVATE STREETS AND FOOTWAYS.

The execution of works under Section 39 of the Public Health (Scotland) Act, 1897, involving the repair of private streets which are not intended to be added to the list of highways, did not arise during the year.

In the Sanitary Inspectors' Reports will be found a record of the private streets which have been added to the list of highways or are under consideration for this purpose.

## CINEMATOGRAPH ACT, 1909.

Licences under the above Act were submitted and approved of for the undernoted premises :—

1. Strand Cinema, Alexandria.
2. Vale of Leven Public Hall, Alexandria.
3. Renton Public Hall, Renton.
4. Woodilee Mental Hospital, Lenzie.
5. Werdna Picture House, Cumbernauld.
6. Rio Picture House, Bearsden.

All the premises were inspected during the year and found to be in good order and the conditions of the licences were observed.

The police inspections were also helpful in maintaining the licence regulations.

## FIRE BRIGADES.

During the year the Fire Brigades attended fires within the County as undernoted :—

*Burgh Fire Brigades.*

Helensburgh,	-	-	-	5	
Dumbarton,	-	-	-	12	
Clydebank,	-	-	-	5	
Glasgow,	-	-	-	7	
				—	29

*County Auxiliary Fire Brigades.*

Garelochhead,	-	-	-	2	
Rhu,	-	-	-	1	
Renton,	-	-	-	1	
				—	4

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The calls to Fire Brigades to deal with outbreaks of fire were promptly answered and the services rendered were satisfactory.

Fire drills were also carried out periodically under the supervision of the Firemasters by members of the Auxiliary Fire Brigades.

The necessary inspections, repairs, and renewals to hydrants within the Special Water Supply Districts were satisfactorily maintained.

The further development within the County necessitated additional hydrants being provided.

In considering the provisions of the Fire Brigades Act, 1938, the Committee have decided to form Auxiliary Fire Brigades and these will be under the direct supervision of the Chief Constable.

### TOWN PLANNING.

In connection with the resolutions to proceed with town planning for the planning schemes as undernoted—

Loch Lomond Planning Scheme

Vale of Leven Planning Scheme

Kilpatricks Planning Scheme

Clydeside, Gareloch, and Loch Long Planning Scheme

Kirkintilloch and Cumbernauld Planning Scheme

a considerable amount of work has been carried out in preparing the draft maps. It has not been possible, however, to have these draft schemes completed within the stipulated time and extensions of the completion dates were granted by the Department of Health.

The owners of the various estates within the Loch Lomond Planning Scheme, and the Vale of Leven Planning Scheme, had a meeting with the Sub-Committee at which the views of the various proprietors were expressed, and the Sub-Committee are now giving consideration to these views and where practicable they will be incorporated in the draft scheme map.

Negotiations have taken place with the Ministry of Transport in connection with the proposed new trunk road through the Vale of Leven Planning Scheme. It has not been possible so far to reach a final decision in this matter.

Negotiations were completed with the Glasgow Corporation in connection with the access road to Mollanbowie Estate, and the proprietor has agreed to purchase from the Corporation of Glasgow the necessary ground to construct an access.

Considerable development is anticipated within the area

covered by the resolution for the Clydeside, Gareloch, and Loch Long Planning Scheme. The depot referred to in the last report, however, is not being proceeded with meantime.

Further attention has been given to the preservation of woodlands in connection with Kilpatrick's Planning Scheme and negotiations have taken place with the various estate proprietors.

The negotiations which have taken place in connection with Bogpark, Canniesburn, have not yet reached a final decision.

The proposals for the preparation of the draft scheme map to discuss a scheme with the proprietors is in course of preparation in connection with the Kirkintilloch and Cumbernauld Planning Scheme.

During the year negotiations took place with the Department of Health and the Burgh of Milngavie in connection with the Milngavie Planning Scheme.

The Committee decided to proceed with the resolutions for two areas to include the entire Burghal area, Milngavie Planning Scheme dealing with the unbuilt-on area, and Milngavie (No. 2) Planning Scheme dealing with the built-up area. It is the intention that for both schemes one planning scheme in respect of the whole Burgh will be prepared.

The Department of Health decided not to make an Order under the Town and Country Planning (Scotland) Act, 1932, as requested by the Milngavie Town Council under Section 2 (2).

The draft resolutions proposed under the Town Planning Schemes in connection with the County of Renfrew, the County of Lanark and the County of Stirling were examined and reported on during the year.

Throughout the year under the General (Interim Development) Order a considerable number of applications were considered and dealt with. In some cases in connection with signs the applications were refused.

During the year no meetings took place in connection with the Clyde Valley Regional Planning Committee.

## GENERAL.

Reports and plans were prepared in connection with the Dumbarton Electricity (Extension) Special Order, 1939, the extension of the boundaries of the Burgh of Dumbarton and the Burgh of Clydebank and the following Special Districts.

Gareloch Special Water Supply District.

Bearsden Special Drainage District.

Bearsden Special Lighting District.

Bearsden Special Scavenging District.

Clynder and Rosneath Special Scavenging District

Bowling Special Water Supply District.

