MANGOTSFIELD
URBAN DISTRICT COUNCIL

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR

1944.

MEMBERS OF THE MANGOTSFIELD URBAN DISTRICT COUNCIL.

1944.

Chairman.

Mr. G.G. England.

Vice-Chairman.

Mr. J.R. Bizley.

Members.

Mr. L. Andrews.
Mr. H.C. Bracey
Mr. S. Churchill.
Mr. W. Hathway
Mr. W. Hughes
Mr. J. Matthews, C.C. (resigned 17th Oct., 1944)
Mr. F. Monks
Mr. L.G. Palmer
Mr. V.H. Rolls
Mr. S.T. Smart
Mr. J. Sheppard
Mr. B.J. Woodhall
Mr. H.F. Wren, J.P., C.C.

Clerk to the Council.

Mr. Frank Wallace.

PUBLIC HEALTH STAFF.

Medical Officer of Health, who is Medical Officer of Health to the South Gloucestershire Combined (M.O.H.) Districts.	-	James Menzies Cormack. M.B., Ch.B., D.P.H. (Appointed 1st May, 1938.)
Sanitary Inspector & Surveyor.	-	F. Alan Long. M.I.M.C.E., M.S.I.A., Cert.R.S.I.
Clerk and Typist.	-	None.

STATISTICS 1944.

(a) General Statistics:

Area of District	1,553 Acres
Population(Registrar-General's estimate mid-1944	16,500
No.of inhabited houses December (Rate books)	4,700
Est: No.void houses(December)	Nil
Rateable Value	£70,085
Sum represented by penny rate	£292

(b) Extracts from vital statistics:

		Tot:	M.	F.
Live Births -	Legitimate	283	141	142
	Illegitimate	10	8	2
Stillbirths -	Legitimate	8	4	4
	Illegitimate	-	-	-
Deaths -		169	92	77

Birth Rate per 1,000 estimated resident population on mid-1944 -	18.8
1939 -	18.6
Rate per 1,000 total(live & still births)-	27
1939 -	41.5
Death Rate per 1,000 estimated average population -	10.9
1939	11.6
Deaths from Puerperal Causes -	None
Deaths of infants under 1 year -	12
Deaths from Cancer (all ages) -	20
Deaths from Measles (all ages) -	None
Deaths from Whooping Cough (all ages)	1
Deaths from Diarrhoea (under 2 years)	1

TABLE SHOWING PRINCIPAL CAUSES OF DEATH. 1944.

Cause of Death	und 1	1-	5-	15-	25-	45-	65-	Over 75	Total.
1. Typhoid & paratyphoid fevers	-	-	-	-	-	-	-	-	-
2. Cerebro-spinal fever	-	-	-	-	-	-	-	-	-
3. Scarlet Fever	-	-	-	-	-	-	-	-	-
4. Whooping Cough	1	-	-	-	-	-	-	-	1
5. Diphtheria	-	-	-	-	-	-	-	-	-
6. Tuberculosis of Resp. system		1	-	1	3	2	-	-	7
7. Other forms of tuberculosis	-	-	1	1	1	1	-	-	4
8. Syphilitic disease	-	-	1	-	-	1	-	-	2
9. Influenza	-	-	-	-	1	1	-	-	2
10. Measles	-	-	-	-	-	-	-	-	-
11. Acute poliomyelitis & polioencephalitis	-	-	-	-	-	-	-	-	-
12. Acute infectious encephalitis	-	-	-	-	-	-	-	-	-
13. Cancer of buccal cavity & oosophagus (males only)	-	-	-	-	-	-	-	-	-
14. Cancer of uterus	-	-	-	-	-	-	-	1	1
15. Cancer of stomach & duodenum	-	-	-	-	-	1	4	1	6
16. Cancer of breast	-	-	-	-	-	1	-	1	2
17. Cancer of all other sites	-	-	-	-	-	3	4	4	11
18. Diabetes	-	-	-	-	-	1	-	-	1
19. Intra-cranial vascular lesions	-	-	-	-	1	2	7	9	19
20. Heart Disease	-	-	1	-	2	7	19	30	59
21. Other diseases of circulatory system	-	-	-	-	-	-	2	1	3
22. Bronchitis	-	-	-	-	-	-	3	5	8
23. Pneumonia	1	1	-	-	1	1	-	-	4
24. Other respiratory diseases	-	-	-	-	-	-	-	-	-
25. Ulceration of the stomach or duodenum	-	-	-	-	-	1	-	-	1
26. Diarrhoea (under 2 yrs)	1	-	-	-	-	-	-	-	1
27. Appendicitis	-	-	-	-	-	-	-	-	-
28. Other digestive diseases	-	-	-	-	1	1	-	-	2
29. Nephritis	-	-	-	-	1	2	3	-	6
30. Puerperal & post abortive sepsis	-	-	-	-	-	-	-	-	-
31. Other maternal causes	-	-	-	-	-	-	-	-	-
32. Premature birth	1	-	-	-	-	-	-	-	1
33. Congenital malformations, birth injury, infantile disease	7	1	-	-	-	-	-	-	8
34. Suicide	-	-	-	-	-	-	-	-	-
35. Road traffic accidents	-	-	1	-	-	-	-	-	1
36. Other violent causes	-	-	-	-	-	-	1	1	2
37. All other causes	2	-	3	1	2	3	1	5	17
Total - all causes.	13	3	7	3	13	28	44	58	169

TABLE SHOWING INCIDENCE OF INFECTIOUS DISEASE IN AGE GROUPS. 1944.

Disease	Under 1	1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-35	35-45	45-65	65 & over	Total
Scarlet Fever	-	1	-	2	1	9	4	1	1	-	-	-	19
Diphtheria	-	-	-	-	-	-	3	1	1	1	-	-	6
Measles	3	4	-	5	1	7	-	-	-	-	-	-	20
Erysipelas	-	-	-	-	-	-	-	-	-	3	2	-	5
Puerperal Pyrexia	-	-	-	-	-	-	-	-	2	-	-	-	2
Dysentry	-	-	-	-	-	-	-	-	-	-	-	-	-
Whooping Cough	-	2	-	-	-	1	-	-	-	-	-	-	3
Pneumonia	-	1	-	-	-	1	-	-	-	1	2	-	5
TOTALS.	3	8	-	7	2	18	7	2	4	5	4	-	60

TABLE SHOWING NEW CASES AND DEATHS (TUBERCULOSIS) IN AGE GROUPS ETC.

YEAR 1944.

Age	NEW CASES				DEATHS			
	Respiratory		Non-respiratory		Respiratory		Non-respiratory	
	M	F	M	F	M	F	M	F
Under 1 year	-	-	-	-	-	-	-	-
1 - 5 years	-	-	-	-	-	-	-	1
5 - 15 years	-	-	-	-	-	-	1	1
15-25 years	-	3	1	-	-	-	1	-
25-35 years	1	1	-	-	2	-	-	-
35-45 years	1	-	-	-	1	1	-	-
45-55 years	1	1	-	-	2	-	-	-
55-65 years	-	-	-	-	-	1	-	-
65 upwards	-	-	-	-	-	-	-	-
Total	3	5	1	-	5	2	2	2

General Provision of Health Services of the area.

(i) A list of Public Health Officers is set out on the front page of this report.

(ii) Public Health Services.
Laboratory, ambulance and nursing facilities as for 1939.

No change was made in the general arrangements for the treatment of infectious diseases. Tables submitted below give details of patients treated.

MANGOTSFIELD ISOLATION HOSPITAL.	No of patients admitted to hospital.	Total No. treatment days.	Average No. of days per patient.
Measles	-	-	-
Scarlet Fever	7	189	27
Erysipelas	-	-	-
Diphtheria	12	366	30.5
Enteric Fever (including Paratyphoid)	-	-	-
Observation	-	-	-
Total.	19	555	29.2

SANITARY CIRCUMSTANCES OF THE AREA.

1. (i) Water supply as for 1939.
(ii) Drainage and Sewerage.
No new houses were connected to the sewers.

2. Rivers and streams.
No special action was necessary during the year.

3. (i) Closet accomodation.
Water carriage system is general throughout the district, there being only a few exceptions in outlying positions.

(ii) The whole district is covered by weekly House Refuse collection and in addition a regular Salvage Scheme is in operation.

(iii) Sanitary Inspection of the area.

(a) Inspections made.---------- 35
(b) Nuisances discovered or reported---- 13
(c) " " "(Swine only) -
(d) Complaints received.---------- 21
(e) Informal notices sent. ---------- 13
(f) Statutary notices sent. ---------- 2
(g) Summons issued. ---------- -
(h) Convictions obtained. ---------- -
(i) Number of houses disinfected. ------ 22
(j) Method of disinfection used. -------

M. Elliott.

Premises or Occupations subject to Statutary Control.

(a) Factories.	No.inspected. -----	15
	No.of inspections-	15
Action taken under Factories Act,1937. -----		1
(b) Factories (Non-Mechanical Power).		
	No.inspected-------	8
	No.of inspections-	8
	Action taken------	-
(c) Bakehouses.	No.inspected------	8
	No.of inspections-	8
	Action taken------	2
(d) Offensive Trades.	No.inspected------	Nil
	No.of inspections-	Nil
	Action taken------	Nil
(e) Outworkers residences.	No.inspected------	Nil
	No.of inspections-	Nil
	Action taken------	Nil
(f) Canal Boats.	No.inspected------	Nil
	No.Of inspections-	Nil
	Action taken -----	Nil
(g) Dairies,cowsheds,Milkshops.		
	No.inspected------	14
	No.of inspections-	16
	Action taken------	1
(h) Slaughter houses.	No.inspected------	1
	No.of inspections-	6

(iv) SHOPS AND OFFICES.

No action was taken under the Shops Act,1934 nor the Public Health Act,1936. No new shops were constructed during the year.

(v) CAMPING SITES. Nil

(vi) SMOKE ABATEMENT.

(a)observations made- 3
(b)complaints recd.-- 2
Notices served and nuisances abated.---- 2

(vii) SWIMMING BATHS & POOLS.

There are no swimming baths in the district.

(viii) ERADICATION OF BED BUGS.

1.(a)No.of Council houses found to be infected.1
(b)No.of Council houses disinfected.------- 1
(c)No.of other houses found to be infected.2
(d)No.of other houses disinfected.------- 2

2. The disinfecting carried out by the use of a substance called 'Zaldecide' which is expressly prepared for this purpose.

3. Inspection has been made and treatment given where necessary to ensure that the belongings of tenants are free from vermin before removal to Council houses. General advise is given and insecticides supplied to prevent re-infestation.

4. The work of disinfecting is carried out by the Council.

SCABIES ORDER, 1941.

Arrangements have been established in cooperation with Bristol City for persons suffering from Scabies or lice infestations to be treated at Bristol Clinics.

Children infested to such a degree as to require indoor treatment are admitted to the Sick Bay at Chipping Sodbury, which is under the control of the Medical Officer of Health in his capacity as Medical Officer of Health for Sodbury Rural District Council. These facilities have been found adequate and successful.

WATER SUPPLY.

Water is supplied in this area by the West Gloucestershire Water Company, which is a private company. The supply has been satisfactory both in quality and quantity. No cases of contamination have been reported or found.

Following are copies of analyses.

D.

COPY.

THE WEST GLOUCESTERSHIRE WATER COMPANY,
KINGSWOOD, BRISTOL.

8.
23.8.45.

ANALYSIS) 1944.

Bacteriological samples of output water examined during 1944.

	B.Coli Absent in 100 m/l	B.Coli Present in 100 m/l
Shipton Moyne Pumping Station	27.	-
Frampton Cotterell	23	-
California.	3	-
Total Company's sources	53	-
Consumer's taps	18	5
Reservoirs	3	-
Total samples examined.	74	5

The five samples showing contamination were derived from the only uncovered reservoir at Cross Hands, Old Sodbury. This reservoir will be covered when circumstances permit: meanwhile the water is re-chlorinated when contamination is suspected.

Copies of Chemical analysis from above sources are enclosed.

Dwelling houses supplied.

The numbers of dwelling houses supplied from the Company's mains on 31st December, 1944, are given below: the only properties obtaining a supply from the Company by means of a public standpost are a group of 16 houses at Olveston, in Thornbury R.D. The number of houses drawing from outside taps on the premises is not recorded, but probably does not exceed 1%.

		Unmetered supplies 31st December, 1944.
Kingswood U.D.		4,877.
Mangotsfield U.D.		4,697.
Warmley R.D.	Bitton Parish.	751
	Hanham Abbots do.	427
	Mangotsfield Rural do.	170
	Oldland.	544
	Siston.	429
		2,321.
Sodbury R.D.		7,301.
Thornbury R.D.		3,016

COPY.

A.

9.

WEST GLOUCESTER WATER COMPANY.
KINGSWOOD, BRISTOL.

S.S.80.

Analysis of sample of Frampton output water taken on 1st Jan.1945.

The Counties Public Health Laboratories.

Appearance: Clear and bright.

Colour: Normal. Odour: Nil.

Reaction, pH Neutral 7.5 Acidity as CO_2 1.3

Electric conductivity at 20oC 650 Alkalinity as $CaCO_3$ 29.0

Results expressed in parts per 100,000.

Ca.	Mg.	Na.	CO_3	SO_4	Cl.	NO_3	SiO_2	Probable Combinations.	
6.2	2.1	(6.9)	17.4	6.3	2.6	0.00	1.2		
6.2			9.3					Calcium carbonate	15.5
	2.1		5.2					Magnesium carbonate	7.3
		2.2	2.9					Sodium carbonate	5.1
		3.0		6.3				Sodium sulphate	9.3
		1.7			2.6			Sodium chloride	4.3
						1.2		Silica	1.2
								Difference	0.8
Total solid constituents dried at 180°C.									43.5

Hardness-Total 24.5 Temporary 24.5 Permanent 0.0

Free Ammonia 0.0044 = Ammoniacal Nitrogen 0.0036

Albuminoid Ammonia 0.0000 = Albuminoid Nitrogen 0.0000

Oxygen absorbed in 4 hours at 80°F 0.015

Nitrogen in Nitrates 0.00 Nitrogen in nitrites: absent

Metals: absent

NOTE: To convert the above parts per 100.000 into grains per gallon multiply by 0.7

'Free chlorine reaction': 0.15 part per million.

BACTERIOLOGICAL RESULTS.

No.of Colonies per c.c.or ml.		Bacteriological sample dechlorinated on collection.
On Agar at 37°C in :	1.day.	1
	2 days	1
On Agar at 20°C in :	3 days	4

Bact. Coli ... ... Present - Absent 100 c.c.

Cl. welchii... ... ... Present - Absent 100 c.c.

Signed Charles W.Martin, F.R.I.C. Gordon Miles,B.Sc., F.R.I.C.

B.

COPY.

THE WEST GLOUCESTERSHIRE WATER COMPANY, KINGSWOOD, BRISTOL.

Analysis of sample of California output water taken on 1st Jan.,1945.

The Counties Public Health Laboratories.

Appearance: Clear and bright.

Colour: Normal. Odour: Nil.

Reaction,pH. Neutral. 7.5 Acidity as CO_2 1.5

Electric conductivity at 20°C 870.

Alkalinity as Ca CO_3 32.5

Results expressed in parts per 100,000.

Ca.	Mg.	Na.	CO_3	SO_4	CL.	NO_3	SiO_2	Probable combinations.	
6.8	1.4	(14.0)	19.5	11.2	6.0	0.8	0.8		
6.8			10.2					Calcium carbonate	17.0
	1.4		3.5					Magnesium carbonate	4.9
		4.4	5.8					Sodium carbonate	10.2
		5.4		11.2				Sodium sulphate	16.6
		3.9			6.0			Sodium chloride	9.9
		0.3				0.8		Sodium nitrate	1.1
							0.8	Silica	0.8
								Difference	0.5
Total solid constituents dried at 180°C.									61.0

Hardness-Total 22.5 Temporary 22.5 Permanent 0.0

Free Ammonia 0.0032 = Ammoniacal Nitrogen 0.0026

Albuminoid Ammonia 0.0000 = Albuminoid Nitrogen 0.0000

Oxygen absorbed in 4 hours at 80°F 0.020

Nitrogen in Nitrates 0.18 Nitrogen in nitrites absent.

Metals: Iron: 0.007 Other metals absent.
NOTE: To convert the above parts per 100,000 into grains per gallon multiply by 0.7

'Free chlorine reaction': absent.

BACTERIOLOGICAL RESULTS.

No. of Colonies per c.c. or ml. Bacteriological sample dechlorinated on collection.

On Agar at 37°C. in : 1 day. 0.
2 days. 0.
On Agar at 37°C. in : 3 days. 0.

Bact. Coli. ... ... Present - Absent 100 c.c.
Cl. welchii ... ... Present - Absent 100 c.c.

(Signed) Charles W.Martin,F.R.I.C. Gordon Miles,B.Sc. F.R.I.C.

THE WATER QUESTION IN THE COUNTY OF KING'S COUNTY.

Analysis of samples of Gallitrolle output water taken on 1st Jan., 1[illegible]

The County Public Health Laboratories.

Appearance:	Clear and bright.		
Colour:	Normal.	Odour:	Nil.
Reaction. PH.	Neutral. 7.5	Acidity as CO_2	4.5
Electric conductivity at 25°C		876.	
Alkalinity as Ca CO_3	32.5		

Ionic a expressed in parts per 100,000.

Ca.	Mg.	SO_4	CO_3	Cl.	NO_3	SiO_2	Probable combinations
6.8	4.4	14.0	19.5	14.2	6.0	0.8	0.5	
6.8			10.2					Calcium carbonate 17.
	4.4		5.5					Magnesium carbonate 1.
		4.4	5.8					Sodium carbonate 8.
		9.6		14.2				Sodium sulphate 16.
					6.0			Sodium chloride 9.
						0.6		Sodium nitrate 1.
							0.8	Silica 0.
								Difference 0.
Total solid constituents dried at 180°C. 51.								

Hardness-Total: 22.5 Temporary 22.5 Permanent 0.

Free Ammonia: 0.032 = Ammonia of Nitrogen

Albuminoid Ammonia 0.0000 = Albuminoid Nitrogen 0.000

Oxygen absorbed in 4 hours at 80°F 0.20

Nitrogen in Nitrates 0.19 Nitrogen in nitrites absent

Metals: Iron: 0.007 Other metals absent.

NOTE: To convert the above parts per 100,000 into grains per gallon multiply by 0.7

Free chlorine residual: absent.

No. of Colonies per c.c. of air: 8 on nutrient agar

On Agar at 37°C. in 1 day: 0 on gelatine 0.

2 days: 0.

On Agar at 37°C. in 3 days: 0.

Acet. Cont. 1.5% ... ... Phenol ... Lamps 1 0.0.

Cl. molal. ... ... Tannin ... Alkali 100 0.0.

Internal Chemical Examination: B. Coli. Not found in 10 c.c. Gas in 48 hours: 0.

COPY.

S.S. 80

THE WEST GLOUCESTERSHIRE WATER COMPANY,
KINGSWOOD, BRISTOL.

Analysis of sample of Shipton Moyne output water taken on 1st Jan., 1945.

The Counties Public Health Laboratories.

Appearance: Bright - very slight deposit of iron oxide.
Turbidity: Less than 5 parts per million, silica scale.

Colour: Normal. Odour: Nil.

Reaction, pH. Neutral. 7.4 Acidity as CO_2 1.4

Electric conductivity at 20°C 600

Alkalinity as C^a CO_3 24.5

Results expressed in parts per 100,000.

Ca.	Mg.	Na.	CO_3	SO_4	Cl.	NO_3	SiO_2	Probable Combinations.	
7.2	1.1	(6.0)	14.7	4.4	4.6	0.00	1.0		
7.2			10.8					Calcium carbonate	18.0
	1.1		2.7					Magnesium carbonate	3.8
		0.9	1.2					Sodium carbonate	2.1
		2.1		4.4				Sodium sulphate	6.5
		3.0			4.6			Sodium chloride	7.6
							1.0	Silica	1.0
								Difference	1.0
Total solid constituents dried at 180°C.									40.0

Hardness-Total: 23.0 Temporary: 22.5 Permanent: 0.5

Free Ammonia: 0.0084 = Ammoniacal Nitrogen: 0.0069

Albuminoid Ammonia 0.0000 = Albuminoid Nitrogen: 0.0000

Oxygen absorbed in 4 hours at 80°F. 0.005

Nitrogen in Nitrates: 0.00 Nitrogen in nitrites: Less than 0.001

Metals: Iron: Total: 0.055 In solution: 0.007 Other metals absent.

NOTE: To convert the above parts per 100,000 into grains per gallon, multiply by 0.7

'Free chlorine reaction': 0.07 parts per million.

BACTERIOLOGICAL RESULTS.

No. of Colonies per c.c. or ml.

On Agar at 37°C. in :	1 day.	1
	2 days.	1
On Agar at 20°C. in :	3 days.	5

Bact. Coli ... ... Present - Absent 100 c.c.
Cl. welchii... ... ... Present - Absent 100 c.c.

(Signed) Charles W. Martin F.R.I.C. Gordon Miles B.Sc., F.R.I.C.