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RURAL DISTRICT OF CHICHESTER



ANNUAL REPORT
OF THE
Medical Officer of Health

For the Year 1951



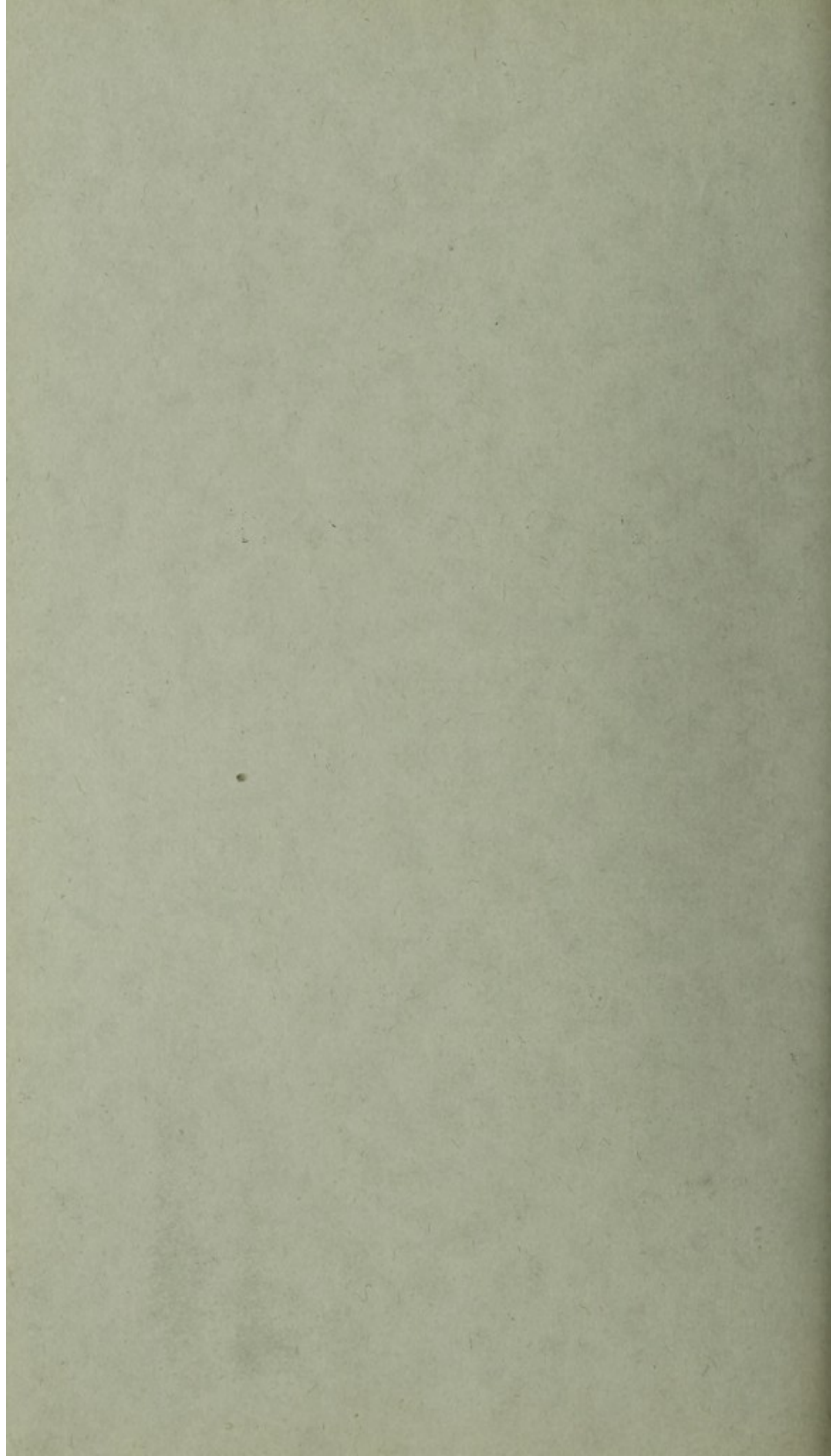
BY

V. P. GEOGHEGAN

M.D., Ch.B., M.R.C.S., L.R.C.P., D.P.H.

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FOR THE YEAR 1951

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Medical Officer of Health

V. P. GEOGHEGAN, M.D., Ch.B., M.R.C.S., L.R.C.P., D.P.H.

Chief Sanitary Inspector

S. T. TAYLOR *a x **

District Sanitary Inspectors

W. T. BEBB *x †*

E. J. WOODWARD *x † b*

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Rodent Staff

R. R. WILLS (Rodent Officer) Resigned 31-12-51

F. W. BLAIN (Rodent Operator) Appointed 26-2-51

D. BLUNDEN (Rodent Operator) Appointed 10-12-51

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J. R. GRIEVE

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Clerical Staff

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MISS H. M. GOSLING

MISS C. BARDEN (Resigned 31-8-51)

MRS. K. M. ROSSER

a Inspector's Certificate of Royal Sanitary Institute.

x Certificate of Royal Sanitary Institute for Inspectors of Meat and Other Foods.

† Certificate of Royal Sanitary Institute and Sanitary Inspector's Joint Examination.

*** Certificate of the Institute of Hygiene.

b Diploma of National Federation of Meat Traders, and Member of the Institute of Meat.

PUBLIC HEALTH DEPARTMENT,
PALLANT HOUSE,
CHICHESTER.

June, 1952.

*To the Chairman and Members of the
CHICHESTER RURAL DISTRICT COUNCIL*

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have the honour to present to you the Annual Report on the health of the Chichester Rural District and the work of the Public Health Department during the Year 1951.

The principal vital statistics for the year, together with comparative figures for 1950 are :—

	<i>Chichester Rural District</i>		<i>England and Wales</i>	
	1951	1950	1951	1950
Home population	43,170	42,490	—	—
Birth Rate per 1,000 population ..	14.96	14.26	15.5	15.8
Crude Death Rate per 1,000 population	11.90	11.67	12.5	11.6

The number of children protected by inoculation against diphtheria is still too small, and there is still a need for impressing upon parents the great importance of having every child during its first year of life protected. A recent Ministry of Health circular referring to the national figure states it is vital to secure that not less than 75% of babies are immunised before their first birthday. A recent special investigation has shown that the highest rate of immunisation in the first year of life so far achieved has been only about 55%—the 75% proportion being attained only for children aged 2 or over at the time of the interview (May, 1951). It is estimated that the number of children under one year old immunised during 1951 was 185,000. This is only 28% of the estimated number of children reaching the age of one year during 1951.

One hundred and thirty three new houses were completed during the year, making a total of 1022 houses completed since 1945. A further 102 houses were under construction at the 31st December, 1951.

The Stoughton Water Supply Scheme was completed in May and is working satisfactorily. The remaining machinery for the Compton and West Marden, and Bosham Sewerage Schemes was installed and both schemes began operating in March, 1951.

I would like to express my appreciation to the Chairman of the Council, the Chairman of the Public Health Committee and Members for their support; to all Departments of the Council for information which they have supplied for inclusion herein, to the Staff of the Public Health Department, and in particular to Mr. J. Westbrook, Chief Clerk, who has been responsible for the compilation of the material.

I am, Mr. Chairman, Ladies and Gentlemen,

Your obedient Servant,

V. P. GEOGHEGAN,
Medical Officer of Health.

Section I.

STATISTICS AND SOCIAL CONDITIONS

The Chichester Rural District covers the south-western quarter of the County of West Sussex. The district was formed under the West Sussex Review Order of 1933, and is bounded by the South Downs in the north, and sea coast between Hayling Island and Littlehampton in the south. The City of Chichester lies almost in the centre of the district and the Bognor Regis Urban District lies towards the eastern boundary of the coast line.

Farming and associated occupations employ the bulk of the population inland, while the coastal parishes attract a large number of holiday visitors in the summer.

GENERAL STATISTICS

Area in Acres	..	..	..	..	..	..	..	103,008
Number of Parishes	..	..	..	..	..	..	..	42
Registrar-General's Estimate of Home Population (1950 mid-year)	..	..	..	..	..	..	..	42,490
Registrar-General's Estimate of Home Population (1951 mid-year)	..	..	..	..	..	..	..	43,170
Number of Dwellings	..	..	..	..	..	..	..	13,181
Rateable Value (March, 1952)	..	..	..	..	..	..	..	£349,079
Ascertained product of a Penny Rate (1951/52)	..	..	..	..	..	..	..	£1,430

VITAL STATISTICS

Live Births

CHICHESTER RURAL DISTRICT								Birth Rate per 1,000 Pop.		
Total Number (after adjustment for transfers)						Birth Rate per 1,000 population		West Sussex		England and Wales
Year	Total	Sex		Illegitimate				Rural Districts (Uncorrected)	Urban Districts	
		M	F	No.	%					
1950	606	311	295	40	6.60	14.26	15.40	14.27	12.46	15.8
1951	646	322	324	36	5.57	14.96	16.15	14.01	11.73	15.5

Stillbirths

<i>Total Number (after adjustment for transfers)</i>				<i>Rate per 1,000 total live and still births</i>	<i>Rate per 1,000 population</i>
<i>Year</i>	<i>Total</i>	<i>Sex</i>			
		<i>M</i>	<i>F</i>		
1950	10	8	2	16.23	0.23
1951	14	8	6	21.21	0.32

Deaths

CHICHESTER RURAL DISTRICT						WEST SUSSEX		ENG. & WALES
Total Deaths (after adjustment for transfers)				Death Rates per 1,000 population		Death Rate per 1,000 population		Death Rate per 1,000 population
Year	Total	Sex		Crude	Corr.	Rural Districts Uncor	Urban Districts rected	
		M	F					
1950	496	239	257	11.67	10.85	12.50	15.47	11.6
1951	514	283	231	11.90	11.06	12.72	16.32	12.5

The natural increase in population, i.e., the increase of births over deaths, is 132.

The chief causes of death in order of frequency were :

	1951	1950
(i) Diseases of the heart and circulatory system ..	200 (39%)	203 (41%)
(ii) Neoplasms	100 (19%)	93 (18.7%)
(iii) Vascular lesions of nervous system ..	58 (11%)	54 (10.7%)
(iv) Respiratory Diseases (excluding Tuberculosis)	54 (10%)	38 (7.6%)
(v) Tuberculosis (all forms)	14 (2.7%)	10 (2%)

Of the total deaths, 371 or 72% occurred in persons aged 65 years or over, and of these, 230 or 44.7% of the total deaths occurred in persons aged 75 years or over.

A table on page 7 shows the age, sex distribution and causes of death in 1951.

Maternal Deaths

No deaths were attributed directly to pregnancy or childbearing during the year. The maternal mortality rate for England and Wales is 0.79, and 0.5 for the Urban and Rural Districts of West Sussex.

Infant Mortality

INFANT MORTALITY					INFANT MORT. R. per 1,000 Births			
CHICHESTER RURAL DISTRICT					Chichester R.D.	West Sussex		England and Wales
Year	Total	Sex		Illegiti- mate		R.D.'s	U.D.'s	
		M	F					
1950	20	11	9	2	33.00	27	25	29.8
1951	8	6	2	2	12.38	25	24	29.6

CHICHESTER RURAL DISTRICT

Infant Mortality Rate		
Year	Legitimate infants per 1,000 legitimate live births	Illegitimate infants per 1,000 illegitimate live births
1950	31.80	50.00
1951	9.83	55.55

A table on page 8 gives the causes of death of all infants at various ages under one year.

Death Rate of Infants under 4 weeks of age :

All infants per 1,000 live births	10.83
Legitimate infants per 1,000 legitimate live births ..	9.83
Illegitimate infants per 1,000 illegitimate live births ..	27.7

Death Rates per 1,000 population from :

Pulmonary Tuberculosis	0.25
All forms of Tuberculosis	0.32
Respiratory Diseases (excluding Pulmonary Tuberculosis)	1.25
Cancer	2.31
Principal Zymotic Diseases (Smallpox, Enteric Fever, Measles, Scarlet Fever, Whooping Cough and Diphtheria)	Nil
Deaths from Measles (all ages)	Nil
Deaths from Whooping Cough (all ages)	Nil
Deaths from Diarrhoea and Enteritis (children under 2 years)	Nil

Table of Causes of Death at Different Periods of Life during the Year 1951

CAUSES OF DEATH	Sex	ALL AGES	0-4 weeks	4 weeks 1 year	1-2 years	2-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75 years and over
ALL CAUSES	M. F.	283 231	5 2	1 —	1 —	— —	— 2	3 1	9 4	9 6	15 9	39 37	83 58	118 112
1 Tuberculosis, respiratory	M. F.	8 3	— —	— —	— —	— —	— —	— —	3 —	1 1	1 1	— 1	3 —	— —
2 Tuberculosis, other forms	M. F.	2 1	— —	— —	1 —	— —	— —	— —	1 —	— —	— —	— —	— 1	— —
3 Syphilitic disease	M. F.	2 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	1 —	— —	1 —
4 Diphtheria	M. & F.	—	—	—	—	—	—	—	—	—	—	—	—	—
5 Whooping Cough	M. & F.	—	—	—	—	—	—	—	—	—	—	—	—	—
6 Meningococcal infections	M. F.	— 1	— —	— —	— —	— —	— 1	— —	— —	— —	— —	— —	— —	— —
7 Acute Poliomyelitis	M. & F.	—	—	—	—	—	—	—	—	—	—	—	—	—
8 Measles	M. & F.	—	—	—	—	—	—	—	—	—	—	—	—	—
9 Other infective and parasitic diseases	M. F.	1 —	— —	— —	— —	— —	— —	— —	— —	1 —	— —	— —	— —	— —
10 Malignant neoplasms, stomach	M. F.	6 7	— —	— —	— —	— —	— —	— —	— —	— —	2 —	— —	1 4	3 3
11 Malignant neoplasms, lung, bronchus	M. F.	9 4	— —	— —	— —	— —	— —	— —	— —	— —	1 —	3 3	3 1	2 1
12 Malignant neoplasms, breast	F.	9	—	—	—	—	—	—	1	—	1	4	2	1
13 Malignant neoplasms, uterus	F.	4	—	—	—	—	—	—	—	1	—	3	—	—
14 Other malignant and lymphatic neoplasms	M. F.	27 30	— —	— —	— —	— —	— —	— —	— —	— 1	— 1	5 11	12 6	10 11
15 Leukaemia, aleukaemia	M. F.	— 4	— —	— —	— —	— —	1 —	— —	— —	1 —	— —	1 —	1 —	— —
16 Diabetes	M. F.	— 1	— —	— —	— —	— —	— —	— —	— —	— —	— —	1 —	— —	— —
17 Vascular lesions of nervous system	M. F.	28 30	— —	— —	— —	— —	— —	— —	1 —	— —	— —	2 4	10 4	15 22
18 Coronary disease, angina	M. F.	47 18	— —	— —	— —	— —	— —	— —	— —	— —	1 —	9 2	21 8	16 8
19 Hypertension with heart disease	M. F.	7 11	— —	— —	— —	— —	— —	— —	— —	— —	1 —	2 3	1 3	3 8
20 Other heart disease	M. F.	48 55	— —	— —	— —	— —	— —	— —	— —	2 —	1 3	1 3	12 16	32 33
21 Other circulatory disease	M. F.	7 7	— —	— —	— —	— —	— —	— —	— —	— —	1 —	— —	3 4	3 3
22 Influenza	M. F.	6 3	— —	— —	— —	— —	— —	— —	— —	— —	— —	1 —	— —	5 3
23 Pneumonia	M. F.	14 12	— —	1 —	— —	— —	— —	— —	— 1	2 —	— 1	5 —	1 3	5 7
24 Bronchitis	M. F.	16 2	— —	— —	— —	— —	— —	— —	— —	— —	1 —	2 —	5 —	8 2
25 Other diseases of respiratory system	M. F.	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	1 —
26 Ulcer of stomach and duodenum	M. F.	6 1	— —	— —	— —	— —	— —	— —	— —	— —	1 —	3 —	1 1	1 —
27 Gastritis, enteritis and diarrhoea	M. F.	2 1	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	1 1
28 Nephritis and nephrosis	M. F.	1 1	— —	— —	— —	— —	— —	— —	— —	— —	— —	— 1	— —	— —
29 Hyperplasia of prostate	M. F.	4 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	4 —
30 Pregnancy, childbirth, abortion	F.	—	—	—	—	—	—	—	—	—	—	—	—	—
31 Congenital malformations	M. F.	1 1	1 —	— —	— —	— —	— —	— —	— —	1 —	— —	— —	— —	— —
32 Other defined and ill-defined diseases	M. F.	23 22	4 2	— —	— —	— —	— —	1 —	— 1	1 1	3 2	4 4	6 4	4 10
33 Motor vehicle accidents	M. F.	5 1	— —	— —	— —	— —	— —	— 1	— 4	1 —	2 —	1 —	1 —	— 2
34 All other accidents	M. F.	8 —	— —	— —	— —	— —	— —	— 2	— —	— —	— —	— —	— —	— —
35 Suicide	M. F.	4 2	— —	— —	— —	— —	— —	— —	— 1	— —	— —	— 1	— —	2 —
36 Homicide and ops. of war	M. & F.	—	—	—	—	—	—	—	—	—	—	—	—	—

The following table gives the causes of death of children at various ages under one year. Of the 8 deaths, 7 occurred in infants under 4 weeks of age, equivalent to neo-natal mortality rate of 10.83 per thousand live births.

CAUSES OF DEATH										
	Under 1 day .	1—2 days	2—5 days	5—7 days	Total under 1 week	1—4 weeks	Total under 1 mth	1—3 months	3—12 months	Total under 1 year
(1) Congenital heart disease	..	1	—	—	1	—	1	—	—	1
(2) Prematurity	2	—	2	—	4	—	4	—	—	4
(3) Pneumonia	—	—	—	—	—	—	—	1	—	1
(4) Haemolytic disease	2	—	—	—	2	—	2	—	—	2
Totals ..	4	1	2	—	7	—	7	1	—	8

TABLE SHOWING VITAL STATISTICS FOR THE YEARS 1941 TO 1950

Year	Esti- mated Popula- tion	Live Births						Birth Rate	No. of Deaths			* Death Rate	Infant Deaths			Infant Death Rate	Natural Increase of Births over Deaths
		Legitimate			Illegitimate				M	F	Total		M	F	Total		
		M	F	Total	M	F	Total										
1941	35230	292	277	569	18	22	40	17.28	240	229	469	13.31	15	12	27	41	140
1942	33960	325	275	600	21	22	43	18.90	192	196	388	11.42	16	12	28	44	252
1943	32940	311	314	625	48	38	86	21.58	218	190	408	12.39	15	19	34	48	303
1944	33290	363	323	686	36	54	90	23.31	208	189	397	11.93	19	14	33	43	379
1945	34390	301	280	581	48	46	94	19.63	231	225	456	13.26	13	12	25	37	219
1946	37430	367	387	754	27	33	60	21.75	229	235	464	12.13	12	8	20	24.5	350
1947	39000	397	419	816	18	23	41	21.97	205	227	432	11.07	14	9	23	26.8	425
1948	41100	361	324	685	21	26	47	17.81	209	213	422	10.26	10	5	15	20.4	310
1949	41030	333	334	667	15	23	38	17.18	235	233	468	11.40	10	8	18	25.5	237
1950	42490	288	278	566	23	17	40	14.26	239	257	496	11.67	11	9	20	33	110
1951	43170	308	302	610	14	22	36	14.96	283	231	514	11.90	6	2	8	12.38	132

* Crude death rates per 1,000 of estimated population

Section II.

GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA

Hospitals

The hospitals providing accommodation and treatment for residents of the District are administered by the South-West Metropolitan Regional Hospital Board through Hospital Management Committees.

The Hospitals are :—

Chichester Isolation Hospital.
St. Richard's Hospital, Chichester.
Royal West Sussex Hospital, Chichester.
Southlands Hospital, Shoreham-by-Sea.
Sussex Maternity and Women's Hospital, Brighton.
Zachary Merton Maternity Home, Rustington.
Bognor Regis War Memorial Hospital.
Aldingbourne House Sanatorium.
Bognor Annexe to Aldingbourne House Sanatorium.

Laboratory Service

Examinations carried out for this Authority by the Public Health Laboratory, Portsmouth, during 1951, were as follows :—

<i>Nature of Specimen</i>				<i>Number Examined</i>	
(1)	Kidney sections (rats)	..	..	2	<i>(Investigation for Leptospiral Jaundice)</i>
(2)	Ice Cream	..	..	97	
(3)	Milk	..	..	65	
(4)	Water	..	..	242	
Total				406	

Ambulances

The Local Health Authority (the West Sussex County Council) provides an ambulance service with ambulances operating from Chichester, Bognor Regis and Littlehampton. The same Authority is also responsible for the Hospital Car Service.

Home Nursing and Midwifery

General District Nurses, Midwives, Health Visitors and School Nurses are employed by the West Sussex County Council to serve in the Rural District.

Treatment Centres and Clinics

Ante-Natal Clinics—held at Chichester, Bognor Regis, Felpham, Southbourne and Yapton.
Aural Clinic—held at Chichester.
Child Guidance Clinic—held at Chichester.
Orthopaedic Clinic—held at Chichester.
Eye Clinic—held at Chichester and Bognor Regis.
Infant Welfare Centres—held at Aldwick and Pagham, Chichester, Bognor Regis, Aldingbourne, Selsey, Southbourne, Westbourne, Walberton and Yapton.
Infant Weighing Centres—held at Bosham, Funtington, Hunston, North Mundham, Sidlesham, Tangmere and Wittering.
School Children (Minor Ailments)—held at Chichester, Bognor Regis and Selsey.

Speech Therapy Clinics—held at Chichester and Bognor Regis.
Tuberculosis Dispensary—held at Aldingbourne House Sanatorium.
Venerical Diseases Clinics—held at Worthing Hospital, St. Mary's Hospital, Portsmouth, and St. Richard's Hospital, Chichester.

Nursing Homes

There is one Nursing Home in the District registered by the West Sussex County Council under Section 187 of the Public Health Act, 1936. The accommodation available is for three convalescent or medical cases.

National Assistance Act, 1948

(a) Section 47

Action was taken under this Section in one case. This was the case of an old lady living alone in Westbourne. She was 86 years of age, was bedridden and steadfastly resisted all attempts to persuade her to go into hospital voluntarily. Efforts to arrange proper care in her home always failed because she antagonised even the most patient helpers by her cantankerous attitude. As she was completely unable to look after herself, application had eventually to be made to the Court and an Order under Section 47 was made on the 27th November, 1951. She was admitted to St. Richard's Hospital, Chichester, under the terms of this Order, on 5th December, 1951, for a period of three months.

(b) Section 50

Three burials were carried out during the year under this Section.

Section III.

SANITARY CIRCUMSTANCES OF THE AREA

WATER SUPPLY

More than 80% of the houses in the District have a piped water supply which originates from one or other of the following water undertakings :—

Chichester City Corporation
Bognor Regis Urban District Council
Selsey Water Company
Chichester Rural District Council

The remaining houses, mainly situated in the northern area, depend on private estate piped supplies and wells.

The water supplied by the four statutory water undertakers is all chlorinated before distribution, the supplies being constant and adequate to meet the needs of the distribution areas.

Details of samples submitted for examination during the year are set out on page 15.

All workmen employed by the various Water Departments are submitted to the appropriate medical tests at the time of engagement, and annually thereafter.

In contrast to experience in previous years there was no shortage of water due to failure of wells during 1951 and it was not therefore necessary to cart supplies.

The table on page 14 shows the state of water supplies in the various parishes of the District. It will be seen that the only parishes not at present supplied by public mains are Madehurst, Upwaltham, Singleton, East Dean and West Dean. The proposed scheme for the provision of mains water to the latter three parishes, which was the subject of a public inquiry in November, 1950, and subsequently approved in principle, has had to be deferred in view of the restrictions placed on building and civil engineering work by the Ministry of Housing and Local Government.

Chichester City Corporation

The water supplied by the Chichester Corporation is derived from two boreholes at Fishbourne and Funtington. The mains of the Undertaking are available in the following Parishes within the Chichester Rural District :—

Appledram	Donnington	Funtington	Westhampnett
Birdham	East Wittering	Lavant	West Itchenor
Bosham	Earnley	Oving	West Wittering

(a) *Extensions of Mains and New Domestic Services provided :*

<i>Parish</i>	<i>Length (Yds.)</i>	<i>Diameter (Ins.)</i>	<i>New domestic services</i>
Birdham	—	—	9
Bosham.. .. .	1,586	4	16
	104	6	—
Donnington	64	3	7
East Wittering	48	4	6
Funtington	1,070	4	12
Lavant	—	—	31
Oving	180	4	3
West Wittering	—	—	12
Totals	3,052	—	96

(b) *Examination of samples submitted by City of Chichester Water Department*

Funtington Source

Twenty-six samples of Funtington raw water were submitted for bacteriological examination. Organisms of the coli-aerogenes group were present in one sample which, however, did not contain *Bacillus Coli*.

A sample of raw water submitted for chemical analysis proved satisfactory.

Fishbourne Source

Twenty-five samples of Fishbourne raw water were submitted for bacteriological examination. Organisms of the coli-aerogenes group were present in eighteen samples, twelve of which contained *Bacillus Coli*, Type 1.

The report received on a sample of raw water submitted for chemical analysis was satisfactory.

Tap Water

The raw water undergoes a continuous process of purification before distribution by the addition of chlorine and ammonia at the Waterworks.

Twenty-six samples of treated water from Consumers' premises (13 in the City and 13 in the Rural District), and twenty-six samples from the Fishbourne delivery main were submitted for bacteriological examination. Organisms of the coli-aerogenes group were absent in all samples, and the Analyst reported that the water as supplied was pure and wholesome and suitable for public supply purposes.

One sample of tap water submitted for chemical analysis was described by the Analyst as being of the highest standard of organic purity.

Bognor Regis Urban District Council

The Waterworks Undertaking, owned by this Authority, consists of the works and supply area previously comprising the Bognor and Slindon Waterworks Companies, which were taken over in 1929 and 1931 respectively.

The mains of the Undertaking are available in the following Parishes which are situated within the Chichester Rural District :

Aldingbourne	Climping	Middleton-on-Sea	Tortington
Bersted	Eastergate	Pagham	Walberton
Boxgrove	Eartham	Slindon	Yapton
Barnham	Ford	Tangmere	

Water supplies are derived from wells situated at Fontwell Avenue, Eastergate, where the two 24" boreholes pierce the underlying chalk strata. The Undertaking possesses three service reservoirs, i.e., Nore Hill, Slindon (2,000,000 gallons); Balls Hut, Fontwell (500,000 gallons); and a further one at Slindon of 125,000 gallons.

(a) Extensions of Mains and New Domestic Services provided during 1951

Locality	Length (Yds.)	Diam. (Ins.)	New Domestic Services	
			Parish	Number
Aldingbourne—Dukes Road* ..	427	4	Aldingbourne	12
			Barnham	7
			Bersted	7
Middleton-on-Sea—Housing Site	170	4	Climping	2
			Eastergate	2
			Ford	2
Tortington—Grove Lodge ..	557	3	Middleton	4
			Tangmere	1
			Walberton	10
Walberton—Wandleys Lane ..	713	4	Yapton	8
Total	1867		Total	55

*Note—Replacement of 1½" diameter galvanised pipe.

Total excludes service pipes provided for Service establish.

(b) Water Analyses

Bacteriological and chemical reports received by this Undertaking on samples of water taken during the year at the waterworks and from the distribution mains showed the supply to be pure and wholesome in character and suitable for public supply purposes.

Selsey Water Company

This Undertaking supplies water which it obtains from the Chichester City Corporation in bulk and it is therefore derived from the Funtington or Fishbourne Sources which are already mentioned above.

The Parishes supplied in the Chichester Rural District are Donnington, Hunston, North Mundham, Selsey and Sidlesham.

Extensions of Mains and New Domestic Services provided

Parish	Length (Yds.)	Diameter (Ins.)	No. of new domestic services provided
Donnington	—	—	5
North Mundham	142	3	9
Selsey	—	—	10
Sidlesham	—	—	3
Total	142		27

The Chichester Rural District Council

Woodmancote Waterworks

The source of water supplied by the Council as Water Undertakers is from the Woodmancote Waterworks where two boreholes are in use, each sunk to a depth of approximately 400 feet, from which two submergible pumps discharge into the reservoir.

With the completion of the Stoughton Supply Scheme in May, 1951, water is now distributed to the Parishes of Westbourne (including Aldsworth), West Thorney, Chidham (part), Stoughton (including Forestside and Walderton), Compton (including West Marden) and Marden (west).

Chichester Rural District—Water Supplies 1951

Parish	Total No. of dwell- ings	MEANS OF WATER SUPPLY							Houses with no direct supply	
		Mains Inside	Mains Out- side	Pri- vate Estate Mains	Wells		Rain- water tanks			
					A	B	A	B	A	B
Aldingbourne ..	521	496	18	—	3	3	1	—	—	—
Appledram	71	70	—	—	—	—	—	—	—	1
Barnham	140	136	—	—	4	—	—	—	—	—
Bersted	299	294	—	—	—	5	—	—	—	—
Birdham	290	273	3	—	9	4	—	—	1	—
Bosham	897	851	21	—	5	17	—	2	—	1
Boxgrove	212	164	24	13	2	9	—	—	—	—
Chidham	240	193	15	8	14	7	—	1	—	2
Climping	82	74	—	—	4	4	—	—	—	—
Compton	156	100	16	12	6	6	10	—	—	6
Donnington	194	186	7	—	1	—	—	—	—	—
Earnley	69	67	1	—	—	1	—	—	—	—
Eartham	34	12	13	—	—	4	—	5	—	—
East Dean	98	—	—	14	—	80	—	2	—	2
Eastergate	293	285	4	—	3	1	—	—	—	—
East Wittering ..	604	583	6	—	4	10	—	—	—	1
*Ford	22	10	—	2	—	10	—	—	—	—
Funtington	384	289	17	15	17	41	—	2	2	1
Hunston	175	160	8	—	7	—	—	—	—	—
Lavant	261	211	36	8	4	—	—	2	—	—
Madehurst	46	1	—	43	—	2	—	—	—	—
Marden	30	10	—	18	—	—	—	2	—	—
Middleton-on-Sea ..	991	990	1	—	—	—	—	—	—	—
North Mundham ..	218	185	—	—	14	19	—	—	—	—
Oving	186	106	6	21	3	49	—	—	—	1
Pagham	542	503	10	—	4	25	—	—	—	—
Selsey	1422	1406	6	—	5	5	—	—	—	—
Sidlesham	390	351	20	—	4	15	—	—	—	—
Singleton	167	—	—	28	—	114	—	5	—	20
Slindon	179	175	4	—	—	—	—	—	—	—
Stoughton	246	154	12	27	22	15	9	4	—	3
*Tangmere	64	48	8	—	6	1	—	—	—	1
Tortington	75	35	—	20	—	16	—	2	—	2
Upwaltham	15	—	—	11	—	—	—	4	—	—
Walberton	499	461	19	—	12	7	—	—	—	—
Westbourne	1582	1380	33	151	1	14	—	1	—	2
West Dean	176	—	—	134	—	20	—	21	—	1
Westhampnett ..	167	103	23	33	1	3	—	1	—	3
West Itchenor ..	89	89	—	—	—	—	—	—	—	—
*West Thorney ..	3	3	—	—	—	—	—	—	—	—
West Wittering ..	603	579	11	—	13	—	—	—	—	—
Yapton	449	425	15	—	3	6	—	—	—	—
Totals	13181	11458	357	558	171	513	20	54	3	47
Percentage of Total Dwellings		86.93	2.70	4.24	5.19		0.56		0.38	

Note—* Service quarters excluded.

A Mains water available but premises not connected.

B No mains water available.

Estimated population deriving water from :

	Population
(a) Public Mains	38,698
(b) Private Estate Mains	1,827
(c) Wells and Rainwater Tanks	2,482
Estimated population dependent on neighbour's supplies or other sources	163
Total Population ..	43,170

The supply is chlorinated before distribution.

No extensions of the water mains have been carried out during the year, but a total of 103 domestic service pipes were provided.

Water Analyses

A total of 242 samples of water were taken by the Department and submitted for bacteriological examination. The following table gives details of the results received :

<i>Source</i>	<i>No. of samples taken</i>	<i>Number Satisfactory</i>	<i>Number Un- satisfactory</i>
Chichester R.D.C. Mains	44	35	9*
Chichester Corporation Mains	1	1	—
Private Estate piped supplies	129	78	51
Public Wells-Charlton and Singleton ..	12	12	—
Council House wells	12	11	1
Individual well supplies	44	12	32
	<u>242</u>	<u>149</u>	<u>93</u>

* Note—Eight of these samples were taken from the newly laid mains of the Stoughton water supply scheme while work was still in progress and the contamination has been eliminated by the completion of the works.

DRAINAGE AND SEWERAGE

Set out herewith are details of new works of sewerage and sewage disposal carried out during the year :—

(1) *Compton and West Marden.* This new scheme was completed and put into operation by 31st March, 1951.

(2) *Bosham.* The extensions to the existing sewerage scheme which had commenced during 1949 were completed by March, 1951.

(3) *Selsey.* The extension of the existing sewerage scheme in this Parish commenced in 1950, was completed in June, 1951.

Schemes in course of Construction

(a) *East and West Wittering*

(b) *Bersted*

(c) *Hunston*

Work was commenced on each of these schemes and at the end of the year the following lengths of sewer had been laid :—

Scheme (a) 6,550 yards
(b) 857 yards
(c) 658 yards

(4) *Westbourne.* This system was extended during the year by the laying of 173 yards of 6" sewer in Pottery Lane, Nutbourne.

Connections to Sewers

A total of 291 houses have been connected to sewers as follows :—

<i>Parish</i>	<i>New Houses</i>		<i>Existing properties</i>	<i>Total</i>
	<i>Council</i>	<i>Private</i>		
Bersted	8	—	—	8
Birdham	8	—	—	8
Bosham	30	3	79	112
Donnington	—	8	—	8
Lavant	22	—	—	22
Middleton-on-Sea	4	2	11	17
Selsey	10	—	76	86
Walberton	4	—	—	4
Westbourne	14	2	10	26
Totals	100	15	176	291

The following lengths of 6" sewers were laid at Council Housing Sites :

<i>Parish</i>	<i>Yards</i>
Aldingbourne (Westergate)	183
East Wittering (Peerley Road)	181
Funtington	40
Middleton-on-Sea	315
North Mundham (Camp Housing Site)	15
Westbourne (Stein Road, Southbourne)	533
Total	1,267

Future Development

The future of the sewerage projects already in hand is now uncertain in consequence of Government policy regarding expenditure on building and civil engineering work.

(a) *Aldingbourne and neighbouring Parishes.* This scheme was approved after a public inquiry, but no starting date has yet been given.

(b) *Boxgrove.* The revised estimate of £22,600 for carrying out this scheme has been submitted to the Ministry, together with an application for the award of a starting date.

The scheme was approved in principle early in 1952, no date was given for the commencement of the whole scheme, but it seems likely that that part of the scheme which will serve the Council's Housing Estate will be allowed to proceed in the near future.

(c) *Lavant and West Ashling Schemes.* Although both of these schemes have been approved, work had not been allowed to start, by the end of the year.

Surface Water Outfall—Selsey

Work has been commenced on this scheme and 383 yards of sewer had been laid at the end of the year.

PUBLIC CLEANSING

Details of this service for the year under review are set out herewith :

House Refuse

A weekly rear collection of house refuse is now carried out in all Parishes in the District with the exception of the Parishes of Boxgrove, Compton, Eartham, East Dean, Madehurst, Marden, North Mundham, Oving, Singleton, Stoughton, Tortington, Up Waltham, West Dean and Westhampnett, where a fortnightly rear collection is made.

The following schedule gives particulars with regard to the operation of this service during the year :

<i>Number of Vehicles</i>	<i>Refuse Collected</i>	<i>Number of Vehicle Loads</i>	<i>Total Mileage</i>	<i>Disposal of refuse</i>
11	10,523	3,757	92,122	Controlled tipping at Sidlesham, Nutbourne and Eastergate.

Salvage

The salvaging of materials continued during the year and the total weight collected amounted to over 700 tons. The total income was approximately £11,606, compared with a figure of £3,836 during 1950. The main items were :

	<i>Tons</i>	<i>Cwts.</i>	<i>£</i>	<i>s.</i>	<i>d.</i>
Waste Paper, Books, etc.	652	7	9,938	16	0
Rags and Bagging	38	17	1,330	3	8
Bonus awarded by Thames Board Mills			206	15	0

Cesspool Emptying Service

The Council continue to provide a cesspool emptying service over the whole district, but the rate-borne service, which allows one free emptying at intervals of three months, is not applicable to premises which are situated within a sewered area. In cases where a main sewer is available to the property, emptyings are only undertaken upon payment of the appropriate fee.

The following schedule gives particulars of this service during the year 1951 :

<i>Number of Vehicles</i>	<i>Total Cesspools Emptied</i>	<i>Emptyings in East and West Wittering</i>	<i>Number Vehicle Loads</i>	<i>Total Gallonage</i>	<i>Total Mileage</i>	<i>Means of Disposal</i>
8	12,128	3,043	13,040	12,080,370	154,674	Various sewerage systems.

Pail Closets

The collection and disposal of pail closet contents is not undertaken by the Council. Individual householders are advised on methods of disposal.

RIVERS AND STREAMS

It was not necessary to take any action to prevent the pollution of any of the rivers and streams in the district. Complaints caused by neglect of a number of ditches have been received and after investigation, arrangements made for the necessary work to be done. A total of 271 inspections were made in this connection.

SHOPS ACT, 1934

A total of 151 inspections were made to shop premises during the year. Informal notices served in respect of two contraventions of the Shop Act, 1934, were complied with by the end of the year.

FACTORIES ACT, 1937

There are 149 establishments situate in the district coming within the scope of the Factories Act, 1937, of which 126 are provided with mechanical power. During the year 98 inspections of factory premises were made, and the following list summarises the various defects found :—

<i>Nature of Defect</i>	<i>Number Found</i>	<i>Number Remedied</i>
(a) Want of cleanliness.. .. .	3	3
(b) Unreasonable temperature	3	2
(c) Inadequate ventilation	1	1
(d) Insufficient sanitary conveniences	5	2
(e) Defective sanitary conveniences	3	2
(f) Defective drainage	1	1

Section 34

One certificate of adequate means of escape in case of fire was granted during the year.

Outworkers—Sections 110 and 111

Notifications were received that nine persons resident in the district were employed during the year as outworkers, all being engaged in the textile industry.

SMOKE ABATEMENT

No complaints of smoke nuisance were received during the year.

SWIMMING BATHS AND POOLS

There are no public swimming baths in the district, but at three holiday centres swimming baths are available for use by residents of the centres.

CARAVANS AND CAMPING

The size of the caravan problem continues to increase and the difficulty of administration under Section 269 of the Public Health Act, 1936, remains unchanged.

During 1946, there were 44 licensed sites which allowed the stationing of 472 movable dwellings, and by the end of 1951, the corresponding figures were 192 sites and 3,067 movable dwellings.

A summary of the work carried out during the year in connection with camping sites is set out below and for comparison the annual figures from 1946 onwards are included :

Licensed Sites

	1951	1950	1949	1948	1947	1946
Number of licences granted	192	223	142	130	89	44
Number of movable dwellings allowed by licence	3067	2577	1182	1093	848	472

Administration

Total visits to all sites ..	1923	1612	860	215	119	40
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Contraventions observed during 1951

Sixty-five informal notices were served in cases where the conditions of licence were being contravened. Twenty-six of these referred to sites which had not been cleared at the end of the camping season.

Eight complaints relating to unsatisfactory conditions at camping sites were also received during the year and resulted in the service of informal notices.

ERADICATION OF BED BUGS AND OTHER VERMINOUS CONDITIONS

Four complaints of bug infestation at private dwelling houses were received during the year, but upon investigation, an infestation was confirmed at one dwelling only. Disinfestation was carried out by the use of smoke generators and spraying with insecticide. Smoke generators were also used at one property reported to be infested with bugs although no trace of any infestation could be found.

Two flea infestations at private dwellings were also dealt with, as were various other infestations due to flies, cockroaches, beetles and ants.

PREVENTION OF DAMAGE BY PESTS ACT, 1949

The rat destruction service which was established in 1944 continued to operate throughout the year. This service gives free advice and destruction of rats and mice on private premises, but a charge is made for operations at commercial buildings or on farm land.

A staff of two men—one Rodent Officer and one Rodent Operator—are employed for this work and are mainly occupied in the destruction of rats and mice. Without an increase of staff it is not possible to carry out a continuous survey of the district which is required under the Act and negotiations with the Ministry of Agriculture and Fisheries for authorisation of an increase in staff were initiated early in 1952.

The following is a summary of the work carried out during the year :

Number of complaints received and found justified	..	..	274
Number of infestations observed during survey	..	..	219
Total infestations	..	..	493

Number of infestations dealt with by :

(a) Operators	..	..	..	*507
(b) By reference to the W.S.A.E.C.	..	..	..	4
Total	..	..	..	511

* (Includes 30 outstanding from 1950).

The 12 infestations outstanding at the end of the year were dealt with during January, 1952.

Number of visits made :

(a) For survey work	..	..	..	..	1,619
(b) For disinfestation	..	..	..	..	2,405
Total visits	..	..	..	..	4,024

Estimated kill :

(a) Rats	..	..	..	..	..	8,442
(b) Mice	..	..	..	..	..	539

The Council's refuse tips have been kept under observation and treated when necessary.

Quarterly inspections and an annual test are made of the Council's sewerage systems.

RAG FLOCK AND OTHER FILLING MATERIALS ACT, 1951

Previous legislation concerning the use of rag flock has been consolidated under this Act which came into force on the 1st November, 1951. Any premises in which filling materials for upholstering bedding, soft toys, etc. are manufactured or used must now be registered.

No applications for registration had been received by the end of the year.

SCHOOLS

Improvements were carried out at various schools in the district as follows :—

Compton and Upmarden C.E. Controlled School. Sanitary improvements outlined in the Annual Report for 1950 have now been completed.

West Wittering Parochial Controlled School. The improvements in the sanitation at this school commenced in 1950, have also been completed.

Chidham Parochial Controlled School. Earth closets have been converted to water closets; new drains and cesspool installed and lavatory basins provided in the cloakrooms.

Singleton C.E. Controlled School. Cloakrooms and sanitary offices have been re-built and water closets installed draining to a new cesspool.

No schools were closed during 1951 due to epidemics of infectious or other diseases.

SUMMARY OF SANITARY WORK AND IMPROVEMENTS

(1) Inspections

(a) <i>Under Public Health Acts, 1936</i>							
Dwelling houses—re complaints, etc.	..	..	..	..	..	..	1,967
Other premises	..	..	..	..	..	..	188
Keeping of Animals	..	..	..	..	..	..	174
Re Accumulations	..	..	..	..	..	..	118
Watercourses, ditches, ponds, etc.	..	..	..	..	..	..	271
Drainage	..	..	..	..	..	..	969
Infectious Diseases	..	..	..	..	..	..	66
Insect Pests, etc.	..	..	..	..	..	..	69
Movable Dwellings	..	..	..	..	..	..	1,923
Workplaces, including Offices	..	..	..	..	..	..	3
(b) <i>Housing Acts</i>							
Total visits	..	..	..	..	..	..	473
(c) <i>Factories Act, 1937</i>							
Factories with mechanical power	..	..	..	..	..	..	80
Factories without mechanical power	..	..	..	..	..	..	18
(d) <i>Shops Acts</i>							
	..	..	..	..	..	..	151
(e) <i>Prevention of Damage by Pests Act, 1949</i>							
	..	..	..	..	..	..	4,024
(f) <i>Food and Drugs Act</i>							
Section 13	..	..	..	..	..	..	273
Section 14	..	..	..	..	..	..	92
Registered Food Shops	..	..	..	..	..	..	149
Other Food Shops	..	..	..	..	..	..	320
Ice Cream Premises	..	..	..	..	..	..	273
Restaurants and Cafes	..	..	..	..	..	..	157
Milk Distributors, Dairies and Milk Shops	..	..	..	..	..	..	49
Bakehouses	..	..	..	..	..	..	39
Food Vehicles	..	..	..	..	..	..	81
Slaughterhouses	..	..	..	..	..	..	253
(g) <i>Miscellaneous</i>							
Interviews—Owners and Contractors	..	..	..	..	..	..	910
Sewer Connections and Water Supplies	..	..	..	..	..	..	2,703
Other visits	..	..	..	..	..	..	869
Total visits	..	..	..	..	..	..	16,662

(2) Notices

Number of complaints received	..	..	..	..	..	..	536
Number of complaints found justified and dealt with	..	..	..	..	..	..	493
Number of nuisances and/or contraventions observed	..	..	..	..	..	..	143

Number of :

(a) Informal Notices served.. .. .	362
(b) Statutory Notices served :	
(i) Under Public Health Act, 1936-Sec. 93	4
(ii) Under Public Health Act, 1936-Sec. 39	2
(iii) Under Housing Act, 1936-Sec. 9	3

(3) Legal Proceedings

No legal proceedings were instituted during 1951.

(4) Other Sanitary Work

No. of premises disinfected after infectious disease	21
No. of verminous premises disinfested	8
Cases of overcrowding ascertained	4
Cases of overcrowding abated	9
Sampling :	
(i) Water samples	242
(ii) Milk samples	65
(iii) Ice Cream samples	97

(5) Sanitary Improvements

Connections to main sewers :

(i) New houses	115
(ii) Existing houses	176
New cesspools provided	26
Conversions to water closets	39
E.C.'s and privies abolished	37
New drains laid	53
Drains repaired	23
Cesspools repaired	7
Drains cleared	30
W.C.'s repaired	11
E.C.'s repaired	5
Inspection chambers provided	55
Inspection chambers repaired	12
Sinks provided and/or repaired	48
Houses provided with mains water	281
Baths provided	34
Additional conveniences provided	28

(6) General Repairs

Roofs	71
Chimneys	49
Eaves Gutters and Downpipes	60
Walls	57
Windows and Doors	44
Yards paved or repaired	35
Outbuildings	29
Walls and Ceilings repaired and cleansed	108
Floors repaired or relaid	88
Food Stores provided or repaired	37
Cooking facilities provided	29
Washing facilities provided	34
Stairways and Landings	30

Section IV.

HOUSING

Shortly after the close of 1951, a review of the outstanding applications for Council houses showed that there were 714 applicants (339 householders, 375 non-householders). In addition, there were 91 families living in converted hutted camps and 101 families in requisitioned properties.

At the end of 1950, there were 757 applications outstanding, 91 families in hutted camps and 112 in requisitioned premises.

During 1951, 133 new houses (Council 102, Private Enterprise 31) were completed and 2 ex-service hutments were adapted. The allocation of new houses to be built in the district during 1952 had reached, by the 1st April, a total of 200. Progress is therefore being made in the solution of the housing problem, but it will clearly be some years before the problem can be said to be solved.

The Department has continued to advise the Council to take action under Section II of the Housing Act, 1936, in appropriate cases where unfit houses have been vacated. In the course of the year, action under this Section was taken in 25 cases and resulted in the reconditioning of 4 houses. As a result of Section II action taken prior to 1951, one additional house was reconditioned and two properties were demolished, during the year under review.

Action under Section 9 of the Housing Act, 1936, was taken in three cases and resulted in the reconditioning of two further houses.

In addition, 85 properties have been reconditioned as a result of informal action.

A summary of the action taken during 1951 under the Housing Act, 1936, will be found on page 24.

New Building

The following table shows the distribution of the 133 houses erected during the year :

<i>Parish</i>	<i>Erected by</i>		<i>Parish</i>	<i>Erected by</i>	
	<i>Local Authority</i>	<i>Private Enterprise</i>		<i>Local Authority</i>	<i>Private Enterprise</i>
Bersted ..	8	—	Totals brt/fwd.	68	20
Birdham ..	8	—	Middleton ..	4	2
Bosham ..	30	6	Selsey ..	10	—
Chidham ..	—	1	Sidlesham ..	—	3
Donnington ..	—	8	Walberton ..	4	2
E. Wittering ..	—	3	Westbourne ..	16	2
Funtington ..	—	2	West Itchenor	—	1
Lavant ..	22	—	Yapton ..	—	1
Totals crd/fwd.	68	20	Totals ..	102	31

The total number of Council houses built since the end of the war had reached 805 by December, 1951, with a further 102 under construction, and those erected by private enterprise to 217.

In addition, at the end of 1951, the Council had 99 properties under requisition providing 101 family units, and a further 91 family units represented by hutted camps which are administered by the Council and are regarded as temporary accommodation.

Two hutted units—Temple Close, Strettington, and Mundham Corner—have been demolished and the families concerned rehoused, and two additional units have been adapted at Fletcher Place, North Mundham.

Hutted Camps

<i>Parish</i>	<i>Location</i>	<i>Number of additional units provided during year</i>	<i>Number of units demolished during year</i>	<i>Number of units occupied at 31.12.51</i>
Boxgrove ..	Crossways, Strettington	—	—	8
	Temple Close, ..	—	1	1
Donnington ..	Stockways	—	—	8
Hunston ..	Hunston Corner ..	—	—	2
	Mundham Corner ..	—	1	—
North Mundham	Fletcher Place ..	2	—	26
Westhampnett	Woodcote Avenue ..	—	—	31
	Westways, Westerton	—	—	10
Yapton ..	Uplands	—	—	5
	Totals	2	2	91

Requisitioned Premises

The following is a summary of the position regarding properties under requisition :

Number of properties under requisition at 1st January, 1951	109
Number of family units provided	112
Number of properties de-requisitioned during the year	10
Number of properties held under requisition at 31.12.51	99
Number of family units	101

HOUSING STATISTICS

1. Inspection of Dwelling-houses during the year

(1) (a) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	346
(b) Number of inspections made for the purpose ..	473
(2) (a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925	Nil
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	33
(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for habitation ..	131

2. Remedy of Defects without Service of Formal Notices

Number of dwelling-houses in which defects were remedied in consequence of informal action	145
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3. Action under Statutory Power during the year

(a)	Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936 :	
(1)	Number of dwelling-houses in respect of which notices were served requiring repairs	3
(2)	Number of dwelling-houses which were rendered fit after service of formal notices :	
(a)	By Owners	2
(b)	By Local Authority in default of owners ..	Nil
(b)	Proceedings under Public Health Acts	
(1)	Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	4
(2)	Number of dwelling-houses in which defects were remedied after service of formal notices :	
(a)	By Owners	4
(b)	By Local Authority in default of owners ..	—
(c)	Proceedings under Sections 11 and 13 of the Housing Act, 1936 :	
(1)	Number of dwelling-houses in respect of which demolition orders were made	Nil
(2)	Number of dwelling-houses demolished in pursuance of demolition orders	Nil
(3)	Number of dwelling-houses demolished after undertakings had been given under Section 11 ..	2
(4)	Number of dwelling-houses closed in pursuance of an undertaking given by the owners under Section 11, and still in force	21
(5)	Number of dwelling-houses made fit as a result of formal notices under Section 11	5
(d)	Proceedings under Section 12 of the Housing Act, 1936	Nil

4. Housing Act, 1936—Overcrowding

(a)	(i) Number of dwellings overcrowded at the end of 1951	6
	(ii) Number of families dwelling therein	7
	(iii) Number of persons dwelling therein (adult equivalent)	52
(b)	Number of new cases of overcrowding reported during the year	4
(c)	(i) Number of cases of overcrowding relieved during the year	9
	(ii) Number of persons concerned in such cases	58
(d)	Particulars of any cases in which dwelling-houses have again become overcrowded after the local authority has taken steps for the abatement of overcrowding	Nil

Section V.

INSPECTION AND SUPERVISION OF FOOD

FOOD AND DRUGS ACT, 1938

FOOD INSPECTION

Regular inspections of food shops, food vehicles, etc. have been carried out during the year and a total of 1,686 visits were made to the various establishments as set out :

Section 13	273
Section 14	92
Registered Food Shops	149
Other Food Shops	320
Ice Cream premises	273
Restaurants and Cafes	157
Milk Distributors, etc	49
Bakehouses	39
Food Vehicles	81
Slaughterhouses	253

Slaughterhouses

The slaughterhouse in the Parish of Westbourne was brought into regular use by the Ministry of Food in April, 1951, and up to December 31st slaughtering was carried out there on 171 days, including 14 Sundays.

A summary of the total of 3,286 animals killed and inspected is set out below. All carcasses and offals were examined by the District Sanitary Inspector and the total weight of meat condemned was 13,551 lb.

A number of complaints have been received from residents in the vicinity of this slaughterhouse regarding the control of cattle on their way to slaughter, Sunday slaughtering and nuisance due to unsatisfactory drainage. It had been hoped that with the building of the new slaughterhouse at Fareham regular slaughtering at Westbourne would cease, but no assurance that this will be so can be obtained from the Ministry of Food.

As long as this unsatisfactory building remains in use, every effort is being made to ensure that as little annoyance as possible is caused to the tenants of the neighbouring houses.

Five licences to use premises as a slaughterhouse were granted during 1951, and a total of 253 visits were made for inspection and examination of carcasses.

In addition to the carcasses examined at the Westbourne slaughterhouse, fourteen pigs were examined at other premises used for occasional slaughtering.

Carcasses Inspected and Condemned

	<i>Cattle, exclud. cows</i>	<i>Cows</i>	<i>Calves</i>	<i>Sheep and Lambs</i>	<i>Pigs</i>
Number killed and inspected ..	1,113	181	6	1,933	67
<i>All diseases except Tuberculosis</i>					
Whole carcasses condemned ..	—	1	—	1	—
Carcasses of which some part or organ was condemned	415	59	2	43	6
Percentage of the number inspected affected with disease other than tuberculosis	37.2	33.1	33.3	2.2	8.9
<i>Tuberculosis only</i>					
Whole carcasses condemned ..	2	4	—	—	—
Carcasses of which some part or organ was condemned	47	62	—	—	—
Percentage of the number inspected affected with tuberculosis ..	4.4	36.4	—	—	—

Meat condemned at :

Westbourne Slaughterhouse

<i>Description</i>	<i>Weight Lbs.</i>	<i>Reason</i>
6 Carcases of Beef and all Offals	3,860	Tuberculosis
Part Carcases of Beef and Offals	4,741	Tuberculosis
1 Carcase of Beef and all Offals	435	Dropsy and Emaciation
1 Carcase of Mutton and all Offals	33	Dropsy and Emaciation
Part Carcases of Beef and Offals from 6 cattle affected ..	107	Cysticercus Bovis (Remainder of carcasses subjected to cold storage treatment).
Part Carcases of Beef	125	Injury and Bruising
Beast Head and Tongues	278	Actinomycosis
Beast Livers	2,742	Distomatosis
Beast Livers	595	Abscesses and Cysts
Beast Livers	111	Cavernous Angioma
Beast Lungs	141	Pneumonia, Pleurisy, Abscesses and Cysts
Beast Kidneys	23	Nephritis
Beast Udders	140	Mastitis
Beast Intestines	75	Abscesses and inflammation
Sheep Heart and Lungs	7	Pleurisy and Pericarditis
Sheep Livers	74	Distomatosis
Calf Heart and Lungs	2	Pneumonia
Knuckle of Veal	4	Injury and Bruising
Pigs Offals	58	Swine Erysipelas and Enteritis
Total weight condemned ..	<u>13,551 lb.</u>	

Butchers' and Grocers' Shops :

Beef	84	Bruised
Beef	114	Decomposed
Beef	12	Fibrosis
Tinned Meats	507	Blown and decomposed
Tinned Rabbit	2	Parasitic infestation
Smoked Gammon	27	Decomposed
Sausages	6	Decomposed

Other Condemned Foods :

Milks (22 tins)	31	Blown and decomposing
Vegetables (96 tins)	123	Blown and decomposing
Fruits (103 tins)	82	Blown and decomposing
Fish (17 tins)	13	Blown and decomposing
Soups (13 tins)	19	Blown and decomposing
Jam and Marmalade (2 tins) ..	3	Blown and decomposing
Broken Ships Biscuits	112	Weevil infestation

Clean Food

The three film strips on 'Hygiene in Food Handling' were purchased early in the year and were shown to small audiences of food traders throughout the district accompanied by a simple commentary, and the audiences were encouraged to ask questions of the Medical Officer of Health at the conclusion of the strips.

These talks and demonstrations were well received and it is felt that they contributed to the knowledge of the food traders who attended on the basic principles and practical application of hygienic handling of food.

Byelaws under Section 15 of the Food and Drugs Act, 1938, were brought into operation on 16th April, 1950.

FOOD ADULTERATION

The Food Adulteration Sections of the Food and Drugs Act, 1938, are administered by the County Council, and details of the number of samples and of commodities taken in the Rural District during the year are not available for inclusion in this report.

MILK AND DAIRIES

Details of registrations and licences granted are set out herewith :

(1) *Registrations*

(a) Milk distributors	3
(b) Dairy premises (other than dairy farms)	2

(2) *Licences granted under*

(a) The Milk (Special Designation) (Pasteurised and Sterilised Milk) Regulations, 1949	
(i) Dealers	8
(ii) Supplementary	3
(b) The Milk (Special Designation) (Raw Milk) Regulations, 1949	
(i) Dealers	5
(ii) Supplementary	1

(3) *Dairymen*

Number retailing milk in district	57
---	----

(4) *Administration*

Number of inspections to milk distributors, dairies and milk shops ..	49
---	----

(5) *Sampling*

Sixty-five samples of milk were collected and submitted for examination by the Methylene Blue Test. The Analyst's reports were as follows :

Total - Number of Samples	Pasteurised Milk		Raw Milk	
	Satisfactory	Unsatisfactory	Satisfactory	Unsatisfactory
65	38	—	20	7

ICE CREAM

A total of 365 inspections have been made to premises in the district at which ice cream is manufactured, stored or sold. Twenty-seven applications for registration were approved during the year, and the following table gives details of the number of premises registered at the end of 1951 :

(a) Premises registered for sale and storage	135
(b) Premises registered for manufacture, sale and storage	4

Ninety-seven samples of ice cream were taken and submitted for examination by the Methylene Blue Test with the following results :

Grades			
I	II	III	IV
68	21	6	2

The figures show that :

- 91% of the samples examined were in Grades I and II.
- 70% of the samples examined were in Grade I.

Comparative figures for 1950 were 90% and 79% respectively. These results show that the quality of ice cream on sale in the district has been maintained.

Fourteen informal notices were served in respect of the undermentioned contraventions of the Food and Drugs Act, 1938 :

<i>Contravention</i>						
(a)	Lack of suitable washing facilities	..	..	..	..	3
(b)	Insufficient supply of hot water	..	..	..	..	4
(c)	Premises in need of cleansing	..	..	..	..	3
(d)	Premises selling ice cream without being registered	..	..	..	..	4

RESTAURANTS, CAFES AND OTHER FOOD SHOPS

Supervision of these establishments has continued during the year, and a total of 899 inspections were made. Fifteen informal notices served in respect of contraventions observed were complied with.

BAKEHOUSES

There are 23 bakehouses in use in the district and during the year, thirty-nine inspections were made.

Works were completed during 1951 on a new bakehouse which has now replaced an unsatisfactory bakery.

SLAUGHTER OF ANIMALS ACT, 1933

Nine licences to slaughter animals were granted under this Act during the year.

SHELL FISH

The collection of cockles and winkles in the harbours and tidal waters around Chichester Harbour, Sidlesham Harbour and off Selsey Bill has continued throughout the year. Lobsters and crabs are also caught in the Selsey area and all commodities are marketed in surrounding coastal towns.

WATER CRESS

Periodical inspections have been made of water cress beds.

Section VI.

PREVALENCE AND CONTROL OF DISEASES

In the winter of 1950-51 a measles epidemic was expected but it started slowly. There were only two cases in the last quarter of 1950, but by the end of March, 1951, a further 149 notifications had been received and in the second quarter of the year, 512 cases were notified.

CANCER

The number of deaths attributed to Cancer during the year was 100 (42 males, 58 females), an increase of 7 compared with the year 1950. The Cancer Death Rate for the year is 2.31 per 1,000 of the estimated home population, compared with a rate of 2.18 for the previous year. Corresponding rates for the Administrative County and the Urban and Rural Districts are 2.57, 2.82 and 2.28 respectively.

The following is an analysis of the age and sex distribution of all persons whose deaths were certified to be due to cancer during the year :

<i>Ages</i>	<i>Males</i>	<i>Females</i>	<i>Total</i>
5—14	—	1	1
15—34	—	1	1
35—44	—	3	3
45—54	3	2	5
55—64	8	22	30
65—74	16	14	30
75 and over	15	15	30
Totals	42	58	100

<i>Localisation of the Disease</i>	<i>Male</i>	<i>Female</i>	<i>Total</i>
Brain	—	3	3
Alimentary Tract and Digestive Organs :			
Tongue	—	—	—
Pharynx	—	—	—
Oesophagus	—	1	1
Stomach	6	7	13
Ileum	—	1	1
Caecum	—	1	1
Colon	3	10	13
Rectum	3	2	5
Liver	—	3	3
Pancreas	3	1	4
Respiratory System :			
Larynx	2	—	2
Lung, bronchus	9	4	13
Urinary Organs : Kidney	—	—	—
Bladder	2	1	3
Female Genital Organs :			
Ovaries	—	3	3
Uterus	—	4	4
Vulva	—	—	—
Breast	—	9	9
Male Genital Organs :			
Prostate	4	—	4
Leukaemia	—	4	4
Other sites	10	4	14
<i>Total No. of deaths from Cancer</i>	42	58	100

CHICKEN POX

A total of 21 cases of this disease were brought to the notice of the Department during the year, an increase of 8 cases when compared with the year 1950.

DIPHTHERIA

(a) *Notifications*

No cases of diphtheria were notified during 1951, nor were any deaths registered as due to this cause.

(b) *Supply of Diphtheria Anti-Toxin*

Anti-Toxin is obtainable by medical practitioners for the treatment of suspected cases and contacts from the Royal West Sussex Hospital and St. Richard's Hospital at Chichester, and from the Isolation Hospital, Worthing.

(c) *Immunisation*

During 1951, 101 children of school age and 412 children under 5 years of age received a complete course of injections. In addition, 400 children received 'follow-up' injections.

FOOD POISONING

A total of six cases were notified during the year, of which three were isolated cases in widely separated parts of the district at different periods and the cause of infection could not be traced.

Three other cases were all in one household and there is little doubt from the conditions under which the patients were living that the outbreak was due to grossly defective domestic hygiene.

MALARIA

One case of Benign Tertian Malaria was notified. This was evidently a relapse due to a previous infection abroad.

MEASLES

As stated above, an epidemic of measles was expected in the winter 1950 to 1951, as such outbreaks have occurred in alternate winters since 1940. There were, however, comparatively few cases in the second half of 1950 (43 cases) and the epidemic did not reach its peak until May, 1951, when 305 cases were notified during the month. Notifications then decreased rapidly and the outbreak was virtually over by the middle of August.

During the whole of 1951, a total of 725 cases were notified compared with 59 in 1950. This figure of 725 cases is the highest recorded in a calendar year since notification commenced in 1939, but the total notified during the winter 1950-1951 (704) was less than that during 1940-1941 and during 1948-1949 when the figures were 900 and 800 respectively. (Details of the years 1940 to 1949 were recorded diagrammatically in the Annual Report for 1949).

Most cases were not severe and only 11 were admitted to the City of Chichester Isolation Hospital.

The distribution of the 725 cases was as follows :

<i>Parish</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Total</i>
Aldingbourne ..	1	1	1	8	42	21	1	1	—	—	—	—	76
Appledram ..	—	—	—	1	1	—	—	—	—	—	—	—	2
Barnham ..	1	—	—	1	5	6	20	—	—	—	—	—	33
Bersted ..	—	—	—	1	6	8	—	—	—	—	—	—	15
Birdham ..	—	—	—	2	2	1	—	—	—	—	—	—	5
Bosham ..	—	—	—	1	13	11	3	—	—	—	—	—	28
Boxgrove ..	—	—	3	—	—	1	—	—	—	—	—	—	4
Chidham ..	1	—	1	2	32	6	—	—	—	—	—	—	42
Climping ..	—	—	—	—	3	2	—	—	—	—	—	—	5
Donnington ..	—	—	—	—	2	1	—	—	—	—	—	—	3
Earnley ..	—	1	1	1	—	—	—	—	—	—	—	—	3
Eartham ..	—	—	—	—	—	—	1	—	—	—	—	—	1
East Dean ..	—	—	—	—	—	7	—	—	—	—	—	—	7
Eastergate ..	—	1	—	1	13	2	4	2	—	—	—	—	23
East Wittering ..	—	14	8	1	1	—	—	—	—	—	1	—	25
Ford ..	—	—	—	—	14	—	—	—	—	—	—	—	14
Funtington ..	—	—	—	1	—	—	—	—	—	—	—	—	1
Hunston ..	—	—	—	—	14	7	2	4	—	—	—	—	27
Lavant ..	—	—	—	—	—	1	—	4	1	—	—	—	6
Madehurst ..	—	—	—	2	4	—	—	—	—	—	—	—	6
Marden ..	—	—	—	3	—	—	—	—	—	—	—	—	3
Middleton-on-Sea ..	8	9	8	2	14	6	1	—	—	—	—	—	48
North Mundham ..	—	—	—	—	2	2	—	2	—	—	—	—	6
Oving ..	—	—	—	—	2	4	—	—	—	—	—	—	6
Pagham ..	—	—	2	3	5	13	3	—	—	—	—	—	26
Selsey ..	—	—	—	—	—	22	—	—	—	—	—	—	22
Sidlesham ..	—	3	—	—	1	1	—	—	—	—	—	—	5
Singleton ..	1	—	—	—	2	—	2	—	—	—	—	—	5
Slindon ..	—	—	—	—	5	—	—	—	—	—	—	—	5
Stoughton ..	—	—	—	1	—	2	2	—	—	—	—	—	5
Tangmere ..	—	6	—	—	2	18	2	—	1	—	—	—	29
Tortington ..	—	—	—	1	—	1	1	—	—	—	—	—	3
Walberton ..	—	—	—	—	5	3	3	—	—	—	—	—	11
Westbourne ..	11	23	32	1	6	8	—	—	—	—	—	—	81
West Dean ..	—	—	—	—	2	—	—	—	—	—	—	—	2
Westhampnett ..	—	—	—	—	1	3	1	1	—	—	—	—	6
West Ichenor ..	—	—	—	1	3	—	—	—	—	—	—	—	4
West Wittering ..	—	5	1	—	1	—	—	—	—	—	—	—	7
Yapton ..	1	4	1	5	102	11	1	—	—	—	—	—	125
Totals ..	24	67	58	39	305	168	47	14	2	—	1	—	725

MUMPS

Seven cases of mumps were brought to the notice of the Department as compared with 13 cases in 1950.

PNEUMONIA

During the year two cases of Acute Primary Pneumonia and one case of Influenzal Pneumonia were notified.

Deaths registered during 1951 as due to all forms of Pneumonia totalled 26, an increase of 9 when compared with the figure for 1950.

PUERPERAL PYREXIA

Two cases of this disease were notified during 1951 as compared with 3 cases in 1950.

SCARLET FEVER

Twenty cases of Scarlet Fever were notified during 1951 as compared with 19 cases in 1950.

Five cases of this disease were admitted to the Chichester City Isolation Hospital.

The notified cases were distributed throughout the district, eleven parishes being affected, those with the greatest number being Climping with six cases and Westbourne with three cases.

The cases occurred throughout the year as will be seen from the following table :

<i>Parish</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Total</i>
Appledram ..	—	—	—	1	—	—	—	—	—	—	—	—	1
Barnham ..	—	—	—	—	—	—	—	—	—	—	1	—	1
Bosham ..	—	—	—	1	—	—	—	—	—	—	—	—	1
Boxgrove ..	—	—	1	—	—	—	—	—	—	—	1	—	2
Chidham ..	—	—	—	—	—	—	—	1	—	—	—	—	1
Climping ..	—	—	1	—	—	—	—	—	—	5	—	—	6
Slindon ..	—	—	—	—	—	—	—	—	1	—	—	1	2
Tangmere ..	—	—	—	—	—	—	—	—	—	1	—	—	1
Westbourne ..	—	—	—	—	1	1	—	—	—	—	1	—	3
West Thorney ..	—	—	—	1	—	—	—	—	—	—	—	—	1
Yapton ..	—	—	1	—	—	—	—	—	—	—	—	—	1
Totals ..	—	—	3	3	1	1	—	1	1	6	3	1	20

SPIROCHAETAL JAUNDICE

One case of this disease was reported in a farm worker who subsequently made a full recovery. Rat destruction work was carried out on the farm concerned after this case had occurred. No further cases were reported in the district.

TUBERCULOSIS

Forty-five new cases of Tuberculosis were added to the notification register as compared with 38 in 1950. In addition to the new cases, 2 cases were restored to the Register following the return of the patients concerned to the district. Of the total of 47 cases added to the Register, 40 were suffering from pulmonary tuberculosis (19 male, 21 female), and 7 from non-pulmonary tuberculosis. Corresponding figures for the previous year were 37 pulmonary cases and 5 non-pulmonary cases.

A total of 14 deaths (10 male, 4 female) were recorded during the year as attributable to all forms of Tuberculosis. Deaths from pulmonary tuberculosis numbered 11 (8 male, 3 female), an increase of 2 as compared with the previous year, and deaths from non-pulmonary types of the disease numbered 3.

The following tables give details of the number of cases on the Notification Register, together with particulars of new cases of Tuberculosis and of deaths from the disease during the year 1951 :

	<i>Pulmonary Cases</i>			<i>Non-Pulmonary Cases</i>			<i>Total Cases (all forms)</i>		
	<i>M</i>	<i>F</i>	<i>Total</i>	<i>M</i>	<i>F</i>	<i>Total</i>	<i>M</i>	<i>F</i>	<i>Total</i>
1. No. on Register at 1.1.51	98	59	157	11	18	29	109	77	186
2. Cases previously removed and returning during 1951	1	1	2	—	—	—	1	1	2
3. New cases notified (or otherwise coming to knowledge) in 1951 ..	18	20	38	4	3	7	22	23	45
Totals	117	80	197	15	21	36	132	101	233
4. Cases removed from Register in 1951 ..	19	14	33	5	5	10	24	19	43*
5. Number on register at 31.12.51	98	66	164	10	16	26	108	82	190

* Of the 43 cases removed from the Register, 13 were removed as cured of the disease, and 16 on leaving the District.

NEW CASES AND MORTALITY

<i>AGE PERIODS</i>	<i>NEW CASES</i>				<i>DEATHS</i>			
	<i>Pulmonary</i>		<i>Non-Pulmonary</i>		<i>Pulmonary</i>		<i>Non-Pulmonary</i>	
	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>
0—1	—	1	—	—	—	—	—	—
1—4	—	1	1	—	—	—	1	—
5—14	2	1	1	2	—	—	—	—
15—24	3	2	—	—	—	—	—	—
25—34	5	7	2	—	3	—	1	—
35—44	4	8	—	—	1	1	—	—
45—54	2	—	—	—	1	1	—	—
55—64	2	—	—	—	—	1	—	—
65 and upwards	1	1	—	1	3	—	—	1
Totals ..	19	21	4	3	8	3	2	1

No action was taken during the year under the Public Health (Prevention of Tuberculosis) Regulations, 1925, or under Section 172 of the Public Health Act, 1936.

WHOOPIING COUGH

A total of 161 cases were notified compared with 90 in 1950. The details of the distribution of these cases in the various parishes are set out below. Two cases were admitted to the City of Chichester Isolation Hospital :

<i>Parish</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Total</i>
Aldingbourne ..	—	—	—	—	—	—	3	10	7	—	—	—	20
Bersted ..	2	1	12	—	—	1	1	—	1	—	—	1	19
Bosham ..	—	—	—	—	—	—	—	3	—	—	—	—	3
Boxgrove ..	—	2	—	—	—	—	—	—	—	—	—	—	2
Chidham ..	—	—	—	—	—	—	1	5	—	—	—	—	6
Climping ..	—	1	2	—	—	1	—	—	—	—	—	—	4
Donnington ..	—	—	—	—	—	—	—	—	3	—	—	—	3
Eartham ..	—	—	—	—	—	—	1	1	—	—	—	—	2
Eastergate ..	—	—	—	—	—	—	—	—	3	—	—	—	3
Funtington ..	1	—	—	—	—	—	—	—	—	—	—	—	1
Madehurst ..	—	—	—	—	2	—	—	—	—	—	—	—	2
Middleton-on-Sea	3	6	5	3	1	2	1	—	—	—	—	—	21
North Mundham	—	—	—	—	—	—	—	1	—	—	—	—	1
Oving ..	—	—	—	—	—	—	—	2	1	—	—	—	3
Pagham ..	3	—	—	—	—	—	—	—	5	—	—	—	8
Slindon ..	—	1	2	1	—	—	1	2	2	—	—	—	9
Tangmere ..	—	3	—	—	—	—	—	1	—	—	—	—	4
Tortington ..	—	—	—	—	—	2	—	1	—	—	—	—	3
Walberton ..	—	—	—	—	1	—	—	2	2	—	—	—	5
Westbourne ..	1	7	5	4	1	—	—	—	1	4	—	—	23
Westhampnett ..	—	—	—	—	—	—	—	—	1	—	—	—	1
West Thorney ..	—	9	2	—	—	—	—	—	3	—	—	—	14
Yapton ..	1	1	—	2	—	—	—	—	—	—	—	—	4
Totals ..	11	31	28	10	5	6	8	28	29	4	—	1	161

The incidence of whooping cough in the district since notification commenced in 1939 is as follows :

1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951
—	66	178	101	20	110	73	81	34	207	39	90	161

OTHER DISEASES

No notifications were received during the year of the undermentioned diseases :

Cholera	Meningococcal infection
Diphtheria	Ophthalmia Neonatorum
Dysentery	Poliomyelitis
Encephalitis (Acute)	Plague
Enteric Fevers	Relapsing Fever
Erysipelas	Smallpox
Infective Jaundice	Typhus Fever

TABLE SHOWING CASES OF INFECTIOUS DISEASES NOTIFIED DURING THE YEAR

DISEASE	Total No. of Cases Notified			Cases admitted to Isolation Hospitals	Total Deaths	AGE DISTRIBUTION													Under 1	1—2	2—3	3—4	4—5	5—10	10—15	15—20	20—25	25—35	35—45	45—65	Over 65																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Food Poisoning	1	5	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—</

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