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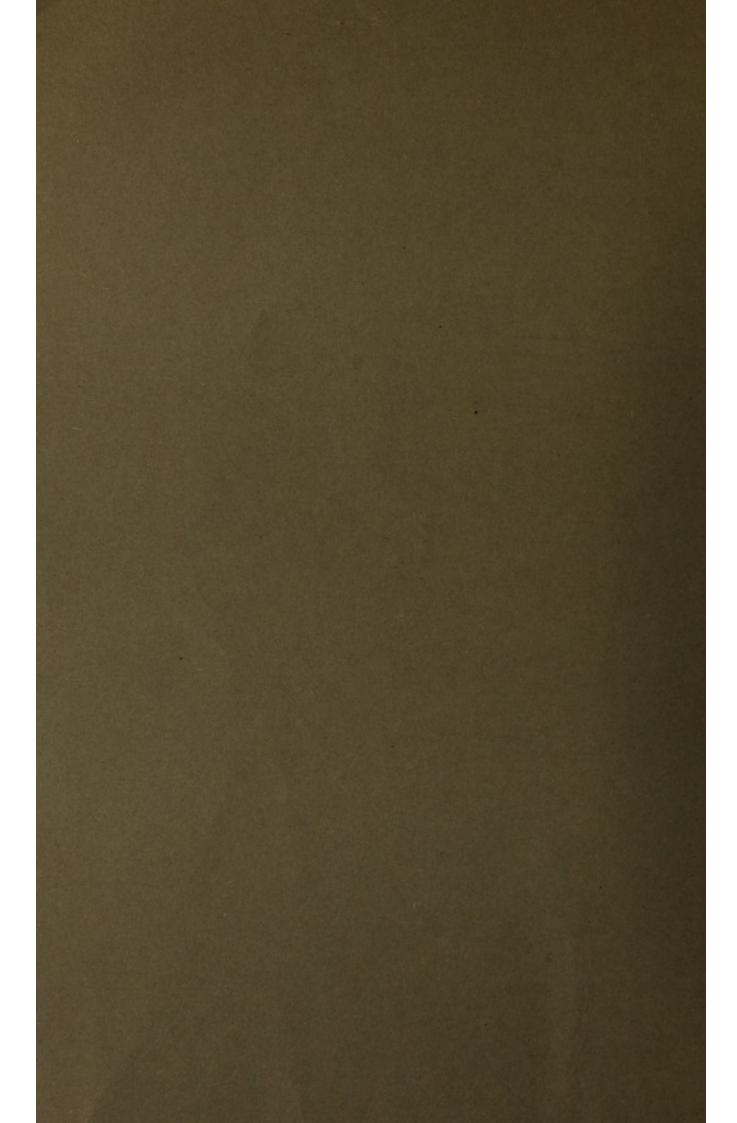


## Borough of Bartford

REPORT
ON CERTAIN MATTERS
CONCERNING

PUBLIC HEALTH

FOR THE YEARS 1964 AND 1965



## INDEX

|           |                                    |        |  |                                |           |  | Pages    |
|-----------|------------------------------------|--------|--|--------------------------------|-----------|--|----------|
| INTRODUC! | MOTON                              |        |  |                                |           |  | 0        |
| SUMMARY   | LION                               |        |  |                                |           |  | 3        |
| COMMENTAL | pv                                 |        |  |                                |           |  | 4-17     |
| TABLES:   |                                    |        |  |                                |           |  | 4-11     |
|           |                                    |        |  |                                |           |  |          |
| I         | Social c                           |        | 100000000000000000000000000000000000000  |                                |           |  | 18-19    |
| II        | Births a                           |        | AND DESCRIPTION OF THE PERSON  | 10/1/2                         |           | 1  | 20       |
| AIII      |                                    |        |  | age 1964 (Ret                  |           | General)   | 21       |
| В         |                                    |        | th according to  |                                | -do-      |  | 22       |
| C         |                                    |        | THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN  | age and sex 1                  |           |  | 23       |
| IVA       |                                    |        |  | age and sex 1<br>age - Town 19 |           |  | 24<br>25 |
| B         |                                    |        |  | age - Bexley                   |           | 1064   | 26       |
| c         |                                    |        |  | age - Town 19                  |           | 1904   | 27       |
| D         |                                    |        |  | age - Bexley                   |           | 1965   | 28       |
| VA        |                                    |        |  | years and over-                |           |  |          |
| В         |                                    |        |  | years and over-                |           |  | 65 30    |
| VI        |                                    |        |  | 1964 and 1965                  |           | 7  | 31-32    |
| VIIA      |                                    |        |  | th and quarter                 | - Town 19 | 64   | 33       |
| В         | Main cau                           | ses o  | f death by mon   | th and quarter                 | - Town 19 | 65   | 34       |
| C         |                                    |        |  | th and quarter                 |           | Hospital 196   |          |
| D         |                                    |        |  | th and quarter                 |           | - 196  |          |
| VIII      |                                    |        |  | - Town 1964 an                 |           |  | 37-38    |
| IX        | THE RESERVE OF THE PERSON NAMED IN |        |  | Lung Cancer Da                 | rtford    |  | 39       |
| X         |                                    |        | oronary diseas   |                                |           |  | 40       |
| XI        |                                    |        | ants under one   |                                |           |  | 40       |
| XII       | injury -                           | 3 6    | Accidents on the Accidents in the  |                                |           |  | 41       |
|           |                                    | 3 6    | Accidents in the   |                                |           |  | 42<br>43 |
|           |                                    | 3 - 5  | Other accident   |                                |           |  | 43       |
|           |                                    | 2 5    | Suicide  |                                |           |  | 43       |
|           |                                    | 3 2    | Homicide   |                                |           |  | 43       |
| XIII      | Stillbir                           | -      | y be less dupl   |                                |           |  | 43       |
| XIV       | Prevalen                           | ce of  | infectious di  | sease(other tha                | n tubercu | losis)   | 44-45    |
| XV        | Tubercul                           | osis   |  | Plone, so, on car              |           | CARLES OF THE PARTY OF THE PART |          |
|           |                                    | (a)    | Respiratory  |                                |           |  | 46-49    |
|           |                                    |        | Non respirator   | y                              |           |  | 49       |
| XAI       | Vaccinat                           |        |  |                                |           |  |          |
|           |                                    | 2 6    | Poliomyelitis  |                                |           |  | 50-51    |
|           |                                    |        | Smallpox   |                                |           |  | 52       |
|           |                                    |        | Diphtheria   |                                |           |  | 53-54    |
|           |                                    |        | Whooping cough<br>Tetanus  |                                |           |  | 54-55    |
|           |                                    | -      | Tuberculosis   |                                |           |  | 55<br>56 |
|           |                                    |        |  |                                |           |  |          |
| APPENDIX  | I                                  | Hous   |  |                                |           |  | 57       |
|           | II                                 | Wate   |  |                                |           |  | 58       |
|           | III                                | Drai   |  |                                |           |  | 59       |
|           | IA A                               |        | Hygiene  |                                |           |  | 59-62    |
|           | VI                                 |        | Hygiene  |                                |           |  | 63-70    |
|           | VII                                |        | oactivity  |                                |           |  | 71-74    |
|           | VIII                               |        | Charles Control of the Control of th | disinfestation                 | a effice  |  | 75       |
|           | IX                                 |        | ene of places  |                                | 145 4     |  | 75       |
|           | X                                  |        |  | provided by Co                 | uncil     |  | 76       |
|           |                                    | CEST O | buring the part  | ed under review                |           |  |          |
| PUBLIC H  | EALTH COM                          | MITTE  | E AND OFFICERS   |                                |           |  | 77       |

## BOROUGH OF DARTFORD

Report for the years 1964 and 1965 on certain matters concerning Public Health

March, 1968

To THE MAYOR, ALDERMEN AND COUNCILLORS OF THE BOROUGH OF DARTFORD

YOUR WORSHIP, LADIES AND GENTLEMEN,

As soon as practicable after the end of each year it is the duty of a medical officer of health to make to the local authority a report for that year on the sanitary circumstances, sanitary administration, vital statistics and on any other matters concerning their district on which he considers it desirable to report. The report that follows is written in compliance with that duty.

The report covers two years which has advantages for an authority of this size. I regret that the completion of the report is so late but being a small department some delay in the preparation is inevitable if we are to include collect and analyse what information is available and spread the work amongst our routine commitments.

The practice of compiling our own tables means that there is some duplication of the information provided by the tables containing the statistics of the Registrar General and I apologise for this duplication. Now that the Registrar General is supplying us with more detailed statistics than hitherto there may be less duplication in future.

The fact remains however that unless we do our own compilation of statistics we cannot inform ourselves on details such as quarterly death rates or statistics for the town excluding the long-stay health service accommodation. Whether detailed analysis of local information justifies the time involved is uncertain, we can however hope that it will provide a record for future reference.

The information in this report contains much material provided by officers of other departments and other authorities or organisations. The facts on many environmental matters are the product of work by the Council's Public Health Inspectors. The presentation of the statistical material is a product of the patience of the clerical assistant concerned. I thank these colleagues for their co-operation.

On behalf of my colleagues in the public health office and myself I wish to thank the Chairman and Members of the Public Health Committee for their support and interest during the period under review.

I am,

Mr. Mayor, Ladies and Gentlemen,

Your obedient servant,

your H bludson.

## Report for the years 1964 and 1965 on certain matters concerning Public Health

March, 1968

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On behalf of my collesgues in the public bealth office and myself I wish to them the Committee for their of the Committee for the period ander review.

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Mr. Mayor, Ladies and Centleven,

John H Heroson.

1964 - 1965

#### SUMMARY

The population increase was small and largely due to natural increase, i.e. excess of births over deaths. The town rate of natural increase was the highest for several years.

By 1965 the birth rate climbed to a new height for recent years.

In each of the five years 1961-65 the numbers of deaths was similar.

If the deaths from coronary disease showed a trend it was one of increase. On tabulation by quarters season did not show a substantial effect on these deaths. Our death rate seemed lower than that of England and Wales.

No trend of increase is seen here in the death rate from lung cancer but this is probably obscured by chance. The national figures continued to increase. Our death rate appeared to be less than that of London.

There was one maternal death in 1964, two cot deaths in 1964 and one cot death in 1965.

Our death rate from motor vehicle accidents over a period of eight years was similar to that of England and Wales. For accidents in the home our death rate over five years was less than that for England and Wales.

Over five years the years of life lost by residents of Dartford from motor vehicle accidents are over twice the loss from accidents in the home.

The suicide rate for 12 years here was as high or higher than that of neighbouring areas.

Sickness from influenza was not a feature of the winter of 1964 or 1965.

Vaccination figures for infants were good. There was no revaccination of school children against smallpox.

The problem of dust nuisance from cement works is reviewed.

The features of local public health administration are discussed.

The number of houses built was similar to that of former years. In 1964-65 £14000was paid in discretionary improvement grants. Only eight houses were demolished.

In the drinking water here fluorine remained at only 15% of the value required to prevent tooth decay.

By the end of 1965, 6159 of the Council's 14,465 dwellings were in smoke control areas.

Measurements of radioactivity provided by laboratories elsewhere are summarised. Registrations for use of radioactive substances are listed.

Registrations and inspections by the Council's Public Health Inspectors under the Offices, Shops and Railway Premises Act were begun.

#### COMMENTARY

## POPULATION Table I

By 1965 such annual increase as occurred appeared to depend on the natural increase, i.e. excess of births over deaths rather than excess of those entering over those leaving the district. The town rate of natural increase however resumed an upward trend so that at 10.1 the 1965 rate was the largest of the last decade.

The rates per 1000 population of natural increase for this and neighbouring districts were:

|                 | 1964 | 1965 |
|-----------------|------|------|
| Dartford R.D.   | 10.9 | 10.3 |
| Dartford Town   | 9.4  | 10.1 |
| Northfleet U.D. | 12.5 | 12.6 |
| Swanscombe U.D. | 11.1 | 8.8  |
| England & Wales | 7.0  | 6.9  |
| Kent A.C.       | 6.4  | 6.2  |

BIRTHS Table II The trend has been:

|  | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 |
|--|------|------|------|------|------|------|------|
| Births Dartford M.B.                       |      | 735  |      |      |      |      |      |
| Rate adjusted by C.F.<br>Rate Eng. & Wales |      | 15.9 |      |      |      |      |      |

The lower comparability factor from 1963 onwards was a downward influence on the adjusted birth rate.

The percentage of births at home has been:

|      | Births    | Nursing Home<br>or at hospital | Elsewhere<br>i.e.own home | %<br>Home |
|------|-----------|--------------------------------|---------------------------|-----------|
| 1958 | 688       | 538                            | 150                       | 22%       |
| 1959 | 700       | 541                            | 159                       |           |
| 1960 | 735       | 552                            | 183                       | 25%       |
| 1961 | 824       | 610                            | 214                       | 26%       |
| 1962 | 789       | 588                            | 201                       | 25%       |
| 1963 | 780       | 584                            | 196                       | 25%       |
| 1964 | (865)879* | 663                            | 216                       | 25% 23%   |
| 1965 | (898)920* | 706                            | 214                       |           |

\*later figures by R.G.

In the Rural District for several years the percentage at home has been around 35%. England and Wales 30%.

DEATHS Table II These have been:

|                           | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 |
|---------------------------|------|------|------|------|------|------|------|
| Deaths Dartford M.B. (RG) | 603  | 525  | 625  | 631  | 605  | 588  | 631  |
| Dartford Town             | 436  | 400  | 452  | 428  | 431  | 449  | 443  |
| Adjusted M.B.rate (CF)    | 11.6 | 9.9  | 11.8 |      |      | 11.7 |      |
| England & Wales           | 11.6 | 11.5 | 12.0 | 11.9 | 12.2 | 11.3 | 11.5 |

The Borough death rates 1962-65 partly reflect movements in the comparability factor.

Age, season and place Table VI. The distribution of deaths by quarters in 1964 and 1965 followed the usual pattern which gives the highest death rate to the first quarter. 72% of non-institutional deaths continued to be the proportion occurring in hospital compared with 48% in England and Wales and 63% in the Rural District.

The proportion of deaths at all ages occurring at ages of 75 or over continues to be around 43% i.e. the same as for England and Wales. If postponement of death is an objective of public health, then our 43% should be 100%.

MAIN CAUSE Tables VII and VIII. As usual the probability that any death would be due to circulatory diseases was about 1 in 3, due to cancer 1 in 5, due to lung disease 1 in 7 and due to defective arteries of the brain (vasc.les. nerv.system) 1 in 8. Two-thirds to three-quarters of deaths due to cancer occurred before the age of 75 years.

The feature of note about our numbers, seasons, places, ages and causes of death is that it takes something outstanding to make a short term change in the pattern. Changes are occurring but in settled times the change from year to year is barely perceptible.

CIRCULATORY DISEASE Table VIII. Town deaths from this main cause from 1962 to 1965 were:
158, 152, 169, 152. The percentages relating to deaths from all causes were 37% 35% 38% 34%. The percentages for England and Wales were:
38% 37% 37% 38%.

In 1962, 1963, 1964 and 1965 Town deaths from this cause occurring at 75 years of age or over were: 58% 51% 46% and 42% of those occurring at all ages.

Coronary disease. Table IX. Trend. The years 1963-65 showed Town deaths to be substantially increased on the numbers for previous years. Perhaps this reflects the continual increase being shown by England and Wales and London. Our death rate from coronary disease, however, seems lower than that of England and Wales and that of London.

As percentages of deaths from all causes Borough (R.G.) deaths from coronary disease in the years 1962, 1963, 1964 and 1965 were 15% 19% 22% and 20% respectively. The percentages for the Town were 16% 23% 24% and 22%: for the long-stay patients of Bexley Hospital the percentages were 10% 11% 16% and 14%. The percentages for England and Wales were 18.0% 18.5% 19.6% and 20.4%.

Season. Table X. The first quarter of 1962 was an average winter, that of 1963 was a severe winter, the first quarters of 1964 and 1965 were mild. With this in view it is of interest to tabulate our coronary disease deaths by quarters compiled locally. This is done in Table X.

The figures for the first quarter of 1963 show but little reflection of the severity of that winter.

VASCULAR LESIONS OF NERVOUS SYSTEM CANCER Table VIII.

The Town deaths from this cause each year 1960-65 were 34, 47, 43, 59, 55, 47. In 1964 and 1965 the percentages of these deaths in all deaths here were 12% and 11%. For England and Wales 14% and 14%.

In the years 1960-65 Town deaths from this cause have been 83, 75, 68, 76, 87 and 81. At the South Metropolitan 1960-62 cancer annual registration rate about 140 cases could be expected annually in this district . . about 60 Town cases must seemingly be successfully cured annually.

Town cancer deaths in 1964 and 1965 comprised 19% and 18% respectively of all deaths. The percentages for England and Wales were 19.5% and 19.4%. The crude Town death rates per 1000 population were 1.95 and 1.81: for England and Wales were 2.21 and 2.23.

Cancer of the lung Table IX For the years 1958-65 deaths from this cause were as shown in the Table. Our death rate appears to be less than that of London.

In 1964 and 1965 6.4% and 4.8% of all Town deaths were from this cause. The percentages for England and Wales were 4.7% and 4.8%.

More than half the deaths occurred at age 65 or over. Tobacco shortens pensions as well as collecting taxes.

The England and Wales death rate shows a steady yearly increase so that the rate of 1965 is 125% that of 1958. At the South Metropolitan 1960/1962 cancer annual registration rate about 27 Town lung cancer cases are to be expected annually and as only 20 deaths are occurring annually about 7 here are being cured annually.

Cancer of the uterus The annual Town deaths from this cause for years 1960-65 were 3, 4, 2, 3, 2 and 5, total 19. These figures are given to put the risks cared for by cervical screening in perspective. The female deaths from lung cancer in the same years were 3, 1, 4, 6, 4 and 0, total 18. Thus females who have the tobacco habit are wilfully accepting a risk of cancer of the lung similar to that risk of cancer of the womb which they may take steps to avoid.

Leukaemia

Annual Town deaths since 1958 were 6, 2, 1, 2, 1, 1, and 1.

Average about 2. The crude death rate for the seven years is about 0.04. Rate for England and Wales 1965 = 0.06. Leukaemia is of interest in regard to ionising radiations.

RESPIRATORY DISEASE Town deaths from respiratory diseases 1958-65 have been 59,60, 63, 75, 64, 65, 65 and 45. This gives a 1965 crude death rate of 1.0. The England and Wales rate was 1.4 and Greater London 1.5.

DEATHS RELATING TO THE WELFARE OF INFANTS AND MOTHERS

Tables II, XI and XII There was one maternal death in 1964 in hospital.

The death rates for infants before and after birth were akin to those of England and Wales. The probability was high that the greater death rates of the Borough in 1965 could occur by chance. The 17 deaths in the first day of life in 1964-65 gave a rate of 10 per thousand. That for England and Wales in 1964 was 7.1. All the infant deaths occurred in hospital except two of the cot deaths and that of an immature foundling. There were two cot deaths in 1964 aged two months and ten weeks, and one cot death in 1965 aged eight months. The homes were satisfactory and the infants were previously healthy.

All but 5 of 32 stillbirths in 1964-65 were in hospital.

| DEATHS<br>THROUGH<br>INJURY                |  |
|--|--|
| Table XII<br>Motor<br>Vehicle<br>Accidents |  |

| Moto   | r Vehicle                   | Accidents E810-E835                           |   |
|--|-----------------------------|---|---|
| Dartford Town  | Deaths                      | Deaths all cause                              | s Population  |
| 1958<br>1959<br>1960<br>1961<br>1962<br>1963<br>1964 | 2<br>8<br>13<br>8<br>5<br>6 | 328<br>436<br>400<br>452<br>428<br>431<br>449 | 41140<br>41940<br>42950<br>43460<br>44180<br>44460<br>44420 |
| 1965 Eng and Wales                                   | 48                          | <u>443</u><br><u>3367</u>                     | <u>44700</u><br><u>347250</u>                               |
| 1965<br>From above:                                  |                             | 549379<br>as % of deaths<br>n all causes      | Death rate per 1000 pop.                                    |
| Dartford Town 1958-65<br>Eng & Wales 1965            | no appear                   | 1.4%  | .14   |

The above Dartford deaths are not necessarily on Dartford roads as deaths on the roads are assigned to the district of residence. The Chief Constable's reports show that deaths 1961-65 on roads in this district have been 13, 5, 4, 9, 6.

Home Accidents

| cidents E870 - E936            |   |
|--------------------------------|---|
| Deaths all caus                |   |
|                                | 43460   |
|                                | 44180<br>44460  |
|                                | 44420   |
| 449                            | 44700   |
| 2203                           | 221220  |
|                                |   |
| 549379                         | 47763000  |
|                                |   |
| as % of deaths<br>m all causes | Death rate<br>per 1000 pop.   |
| 0.9%                           | .09<br>.15  |
|                                | Deaths all caus  452 428 431 449 443 2203  549379  as % of deaths m all causes 0.9% |

Thus our death rate from this cause is perhaps less than that for England and Wales.

Years of life lost This loss is calculated on an assumption that we should each live at least to the age of 85. The details of deaths in this district have been:-

## Dartford Town

| Age at | deat | h in | yea   | rs - | Mot | or V | ehio | le A | ccid | lents |    |    |    |
|--------|------|------|-------|------|-----|------|------|------|------|-------|----|----|----|
| 1961   | 22   | 23   | 26    | 30   | 45  | 55   | 57   | 58   | 69   | 69    | 73 | 77 | 85 |
| 1962   |      | 20   |       |      | 47  | 52   |      | 82   |      |       | ., | -  | -  |
| 1963   | -    |      | 10000 | 61   |     | 1    | -000 |      |      |       |    |    |    |
| 1964   | 2    | 16   | 33    | 61   | 62  |      |      |      |      |       |    |    |    |
| 1965   | 39   | 43   | 61    | 86   | TON |      |      |      |      |       |    |    |    |

#### Home Accidents

| 1961 | 73<br>8 months | 13 | mont | ha | 19 | 75 | 77  | 77 | 82 | 89 | 72 | 79 |
|------|----------------|----|------|----|----|----|-----|----|----|----|----|----|
| 1963 | 31 91          | ., | mon  |    | 47 | 1) | 111 | 11 | 02 | 07 | 12 | 17 |
| 1964 | 10 weeks       | 24 | 44   | 61 | 69 |    |     |    |    |    |    |    |
| 1965 | 71 81          |    |      |    | -  |    |     |    |    |    |    |    |

## Therefore years of life lost:

| ****** | 020 3 | GOT | 01  | TTTO     | 100 |      |      |      |         |     |      |      |   |      |
|--------|-------|-----|-----|----------|-----|------|------|------|---------|-----|------|------|---|------|
|        |       |     |     |          | Mot | or V | ehic | le . | Accide  | nts |      |      |   |      |
| 1961   | 63    | 62  | 59  | 55       | 40  | 30   | 28   | 27   | 16      | 16  | 12   | 8 0  | - | 416  |
| 1962   | 81    | 65  | 43  | 43       | 38  | 33   | 29   | 3    |         |     |      |      | = | 335  |
| 1963   | 79    | 72  | 70  | 24       | 6   |      |      | 100  |         |     |      |      | = | 251  |
| 1964   | 83    | 69  | 52  | 24       | 23  |      |      |      |         |     |      |      | - | 251  |
| 1965   | 46    | 42  | 24  | 0        |     |      |      |      |         |     |      |      | - | 112  |
|        |       |     |     |          |     |      | To   | tal  | years   | of  | life | lost | - | 1365 |
|        |       |     |     |          |     | Hom  | e Ac | cid  | ents    |     |      |      |   |      |
| 1961   | 12    |     |     |          |     |      |      |      |         |     |      |      | - | 12   |
| 1962   | 84    | 84  | 36  | 10       | 8   | 8    | 3    | 0    | 13      | 6   |      |      | - | 252  |
| 1963   | 54    | 0   | Die |          |     |      | = 10 |      | ORDER . |     |      |      | - | 54   |
| 1964   | 85    | 61  | 41  | 24       | 16  |      |      |      |         |     |      |      | = | 227  |
| 1965   | 14    | 4   |     | The same |     |      |      |      |         |     |      |      | - | 18   |
|        |       |     |     |          |     |      | To   | tal  | years   | of  | life | lost | - | 563  |

Thus in Dartford the number of years of life lost from motor vehicle accidents is more than twice that from accidents in the home. Perhaps I should add that in elderly persons it is not always easy to say whether an injury is an underlying or merely a contributory cause of death.

Suicides

In the 12 years 1954-65 suicides have been:-

|                 | Average population | Deaths | Rate per 100,000 |
|-----------------|--------------------|--------|------------------|
| Swanscombe U.D. | 9000               | 6      | 5.5              |
| Northfleet U.D. | 21000              | 26     | 10.3             |
| Dartford Town   | 43000*             | 64*    | 12.4             |
| Dartford R.D.   | 48000*             | 33*    | 5.7              |
| Eng & Wales     | 47,763,000         | 5161   | 10.8             |

\*excluding long-stay hospitals

In Dartford Rural District and in Swanscombe Urban District a greater proportion than elsewhere of the population have lived their whole lives in the district and many work therein. One might conjecture that amongst the ageing generation in these two districts, diminished competition and increased neighbourliness might be associated with the lower suicide rate.

#### COMMUNICABLE DISEASE

Virus infections Measles. This appeared at the end of 1964 and early in 1965 in the usual biennial pattern but in addition both in the Borough and Rural District there was a period of increased incidence in the spring and summer of 1964 which was out of phase with the usual periodicity of the disease.

Influenza. Although the virus was present in England and Wales in the winters of 1964 and 1965, sickness from influenza was not prevalent here. The graphs for sickness benefit in the winter months showed no departure from smoothness in the curve of weekly claims.

Poliomyelitis. No case occurred, the last was in 1957.

Chickenpox, Mumps, and some German measles were evident in 1964.

Vaccination. Acceptances for poliomyelitis were good. The figures for primary vaccination against smallpox were good but there was no re-vaccination against smallpox of school children. The number of passengers under observation for smallpox after arriving from endemic areas without valid certificates of vaccination were 9 in 1964 and 1 in 1965.

Bacterial diseases Typhoid Fever. In 1964 and 1965 twenty-two contacts of cases occurring elsewhere were visited. One contact was excluded from work by his employer until the latter was advised otherwise.

Para-typhoid fever. In 1964 and 1965 four such contacts were visited.

Dysentery. In 1964 a female age nine years was confirmed as suffering from sonne dysentery. Whether the infection was a household one remained unknown as no specimens could be obtained therefrom.

A male age 64 working at a long-stay hospital in the neighbouring district was confirmed as suffering from sonne dysentery. He returned to work after producing negative specimens.

Food poisoning. In 1964 S. typhimurium caused one family outbreak and one sporadic case — a nurse. Four families on separate occasions each with food poisoning symptoms amongst their members were investigated but no food poisoning organism was identified. In 1965 there were: one family outbreak due to S. newport, one family outbreak and one sporadic case both attributed to Staphylococcus aureus, two family outbreaks and three sporadic cases in which the cause remained unknown.

Enquiries were by the Council's Public Health Inspectors. Laboratory work by Public Health and Hospital laboratories.

Tuberculosis. The number of cases in the tuberculosis register continued a downward trend. Of those removed from the register by death in 1964/65 the underlying cause of death was given as tuberculosis in only 3 cases. Cancer of the lung was given in one case notified as suffering from tuberculosis in 1958.

The mass X-ray surveys picked up no active case of tuberculosis in the two years but in 5340 males found 6 with cancer of the lung.

Rheumatic fever. In 1965 two cases occurred in boys at an approved school. Of the 120 boys and 30 staff most submitted throat swabs and 7 showed Group A Beta haemolytic streptococci. This finding is not unusual in a healthy population.

<u>Vaccination</u>. The figures for vaccination against diptheria, whooping cough and tetanus were good.

Worm diseases One immigrant female from India, age 21, showed ancylostoma duodenale (hook worm) while in hospital.

## RADIOACTIVITY

Fall-out Appendix VII As a result of test explosions in the Arctic in 1958 and 1961 and both in the Arctic and Pacific in 1962 fall-out of radioactive material was of interest during the period under review.

During these years the Agricultural Research Council Radiobiological Laboratory has kept the position under observation in regard to the food of the country as a whole while in Kent the County Analyst has kept local food supplies under observation. Iodine 131 and strontium 90 are the two radioactive materials which require most attention.

The radioactivity of iodine 131 is only short lived and this isotope is therefore not a great food problem except for infants dependent on milk, at the time of the fall-out.

The radioactivity of strontium 90 decays only slowly merely half being lost in 30 years. Chemically it is similar to calcium and consequently strontium is deposited in our bones where it is an intimate influence on blood forming tissue. To be on the safe side there should be caution should the diet average more than 130 strontium units a year. It will be seen from Appendix VII that the strontium 90 in milk was only about one-sixth of this figure and the trend was downwards.

Use of radioactive material

At the end of 1965 eight premises were registered by the Ministry for keeping and use of radioactive material and three premises were registered for disposal and accumulation of radioactive waste.

### DUST FROM CEMENT WORKS

In a memorandum of 1956 to the Joint Committee for the Abatement of Atmospheric Pollution and in my report for 1958 to this Council this feature of our environment was the subject of a review which included the history of the nuisance, the methods of manufacture of cement, the methods of dust prevention, the nature of the dust and its relation to the health of the local population. The review that now follows concerns the further evolution of the position to the end of 1965.

The Cement Vorks In 1959 one of the 4 kilns at Bevans Works, Northfleet was modified the use of/semi-dry process and a new electrostatic precipitator, after preliminary difficulties, was provided. In 1960 two other new precipitators for two other kilns at Bevans were put into use and also a new 350° chimney. In 1961 the new 400° chimney at Swanscombe Works was completed and in the following year the flue system came into operation to connect all normal kilns to that chimney. In 1962 a new precipitator was provided for the Metropolitan Works across the river and six small kilns on only chain arrestment were closed down. At the time of excessive dust nuisance in 1962 the production from Thames-side was reduced.

In 1963 the 4th kiln at Bevans Works was provided with a precipitator, a second new precipitator was provided for the Metropolitan Works and no kiln on Thames-side was allowed to work without an external means of dust arrestment even for brief periods. At Thames-side by the end of that year £2 million had been spent on dust arrestment since 1945 and the "overall average" dust slip had come down to 0.4 grains per ou.ft. in the emitted flue gases and the target set was 0.2 grains per ou.ft. which we are told is 0.2% of clinker produced. The "overall average" dust slip in 1964 and 1965 was 0.3 grains per ou.ft.

Trouble from clay

In 1961 with the exception of Bevans the Thames-side works in Kent had been obtaining estuarine clay from Cliff Marshes, which clay has a high silica and alkali content. As more clay was extracted the more it deteriorated in quality in this respect and the high alkali content resulted in a greater dust burden on the precipitators with the dust failing to dislodge from the collecting electrodes on rapping. Thus arrestment of dust was seriously impaired. The prospect of trouble became known to those concerned with management and administration and in 1961 steps were taken to obtain eccine clay from Essex, which clay has not the difficult properties of the estuarine clay.

Unfortunately before arrangements which included seeking planning permission were completed, weather and precipitator behaviour combined in 1962 to create periods of exceptional dust nuisance on Thames-side. The accompanying public indignation action and remedy are outlined below.

By the end of 1963 all except the Swanscombe Works were on eccine clay and arrangements for these works to obtain this clay subsequently materialised by the end of 1964. Also the districts of the Alkali etc. Works Act Inspectors were reduced in size so that the latter could give greater time to the Thames-side problems.

The reports from the Chief Alkali etc. Works Inspector and from the Industry are informative on these matters.

Administrative action In 1959 an approach was made from the Joint Committee to the Ministry for a public hearing into the nuisance caused by dust from cement works but the Minister was disposed to regard the matter as one of public relations in which the industry should take its part.

In 1960 a deputation from the Joint Committee met their Members of Parliament to discuss the assistance the latter could give towards obtaining information on the efficiency of dust arrestment plant, on new processes of manufacture and on the means by which the Inspectorate were able to carry out their duties.

In 1962 a deputation from the Joint Committee waited on the Minister of Housing and Local Government. The deputation expressed disappointment at the lack of improvement in the dust nuisance position and submitted a detailed statement. The Minister emphasized that he regarded the matter as seriously as did the Joint Committee. He placed importance on the obtaining of eccine clay from Essex.

In November 1962 the Member of Parliament for Dartford raised several questions in the House of Commons about the nuisance.

In 1963 a panel of Town Clerks and Clerks of Councils came into being to report on what legal action could be taken in the event of further serious dust deposit.

In 1963 the Member of Parliament pressed the Ministry of Housing and Local Government for the dust/clinker ratio to be supplied for individual works. The dust emitted as a percentage of clinker produced in a given time is used as an index of the ability of a plant to avoid dust nuisance.

The Minister however would not agree to give the figure for individual works but agreed to make available in the annual reports of the Chief Inspector the annual average figure for all works at Thames-side. When the figures appeared for 1964 and 1965 they were not the ratios but were grains per cu.ft. of flue gas.

In other manufacturing processes we can observe what is emitted from the chimneys but in the cement industry the dust is masked by steam and as the figure for dust content is not revealed, the public are not allowed to compare one works emission with that of another.

Grains per cu.ft. of flue gases, the figure given can, we are told, be easily converted to the figure for the ratio of dust emitted to clinker produced. Dust emitted at 0.2 grains per cu.ft is approximately equivalent to a rate of 0.2% clinker produced. I imagine however

that this only applies where the method of manufacture is uniform and this is not the case at Thames-side where the Northfleet Works as mentioned above, has the semi-dry method of manufacture.

Matters discussed alsewhers

The nature of this dust, the future deposits of dust, the features of suspended dust, the relationship of the dust to the health of the community, the difficulties of studying this relationship, the organizations made aware of our dust nuisance, the desirability or otherwise of research are aspects of this feature of our environment which have been discussed in my reports to other local authorities and for reasons of space, it is not expedient to repeat these discussions here.

Standard deposit gauge readings

In spite of their limitations these gauges are the means by which the trend of dust nuisance has been followed by public health authorities in this area. The trend lines from 1954 to 1962 when calculations were suspended for a review of the formula for assessing dust from cement works - are given in reports to other local authorities and for ressons of space, it is not expedient to repeat them here. Suffice to say that from 1958 to 1962 in figures for dust from osment works a rising trend was detectable.

As weather is influential in determining the amount of dust deposit in the gauges the percentage of dust from cement works as related to dust from other sources might be a guide to the trend of emissions from the works. The trend lines for this from 1959 to 1962 was markedly upward but they were not entirely reliable as dust from other sources is influenced by the fuels used in other industries and these have been subject to change.

In Appendix VI. of this report instead of trend lines histograms have been used for the years 1963, '64 '65.

The percentage of dust from cement works to dust from other sources in the combined readings of the most affected gauges -Horns Cross, Northfleet and Swanscombe - is perhaps a concise guide if one remembers the above limitations. A downward trend is detectable.

What do think ?

In the cement production area this Council organized the the public rehousing of occupants of houses in the immediate vicinity of certain cement works on the grounds that the environment created by dust from cement works was one in which people could not be expected to live. Nevertheless, about a 1 mile away in Swanscombe newly built private enterprise houses were readily sold at about £4000 each. Furthermore, an extensive residential redevelopment area has been provided by Northfleet Urban District Council in the immediate vicinity of the cement works there.

Talking to residents of the cement producing area reveals toleration as well as indignation.

Best practicable means While feeling that this dust nuisance should be kept down to a minimum, the public would not like to see the supply of cement unnecessarily restricted and thus, we can hardly wish for any better standard of dust prevention than the existing one which requires the provision of the best practicable means. This standard has the great virtue that it is adaptable to circumstances — it can be exacting where the residential community is large and cement production high, and can be enhanced as technical knowledge advances and resources improve. However, if adaptability is to be its virtue then interpretation of this standard should be kept under observation.

Any nuisance is tolerated better if it is known that it is not the product of thoughtlessness or lack of consideration of the public interest. Adaptability inherent in the above standard of dust prevention is no doubt used in the interest of the public as well as in the interest of the industry but it is not equitable for the industry to have a monoply of the relevant facts. The local authorities should also have access to information on how this standard is being interpreted.

Not only is it necessary for the best practicable means to be taken but it is equally necessary for the best practicable means to be seen to be taken. By declining to make certain readings relating to dust emission of individual works available to us as described above, the Minister appears to be content that we should be short of this ideal.

#### ADMINISTRATION

It is a duty to include in this report observations on sanitary administration so I will discuss here certain features of our local organisation as seen through the eyes of the district medical officer of health.

Possibilities

The changes of 1948 removed the management of personal health services from us leaving us with the management of certain matters of environment (i.e. housing etc.), controlling communicable disease, keeping ourselves informed on health affairs and directing informed influence where appropriate. The gap left by the departed personal health services was filled by the M.O.H. taking on appointments with three neighbouring authorities so that the population now served is almost 140,000.

Much is done or prohibited in the name of public health and there is a need for sound assessment of such action in terms of physical health and happiness. Had this need been better recognised the task of informing ourselves on the health affairs of our area would have expanded our work into that of a department of local health information conducting a continuing inquiry into the health affairs of our community and exchanging information with central authorities engaged in related work. Our records which are bare essentials would have been amplified and blended with those of the hospitals general medical services and personal health services.

Our department of local health information evolved above would have been linked with one local professional advisory committee and by now buying computor time would be our objective - statistical observation of the community is essential to public health administration.

These possibilities are fanciful but it is the rigidity and the obsolescence of district administrative structure that makes them so. It is not sufficiently appreciated that influencing the health of the future is a task different in nature from that which benefitted the past.

Realities

Amenity and local representation are matters of administration as well as public health and after 1948 the four public health committees of the four authorities served remained separate. The spectrum of discussion remained different from that of a professional committee. There was no lack of goodwill and four offices essential for separate administration were made available to the medical officer - the pity was and is that this generous quadruplication provided management with an obstacle rather than an asset.

In addition to the four public health committees five hospital committees and two safety committees invited attendance and it was a duty to accept. During certain vital periods in the evolution of certain voluntary organisations, membership to their committees was also accepted and in addition there were the committees of local professional organisations. On these committees biological public health is a fringe subject and the medical officer of health has to sit through many other discussions before his subject is reached. Thus while the time spent is not unproductive much chair-borne day dreaming has been and is incurred by him in the duty of informing himself and others on certain health affairs of this district.

Joint ad hoc committees may be thought to be the answer to the common interests of small local authorities and one was formed for matters concerning atmospheric pollution but the chairmanship changes each year, the officers are honorary and the committee works more as a public relations and pressure group rather than a working party for the study of local environment. Should a proposal which could contribute to human health arise in this district it would find difficulty in obtaining expression - the first obstacle being to convince other bodies not directly concerned with this district.

The district medical officer now has no precise direct bond with any of his technical colleagues apart from clerical assistants of whom none is fully engaged on his work. Co-operation in recognised public health matters is readily forthcoming but where to recognise public health and where to recognise amenity as the underlying motive of administration remains an unanswered question.

With the transfer of the personal health services a source of information on district health was lost. For information on community health the medical officer of health is now largely dependant on other public bodies and the information one can ask for is limited. While unanalysed data will pass for an annual report the inevitable delay following attempts to be informative draws innuendos from above.

Because the population of the individual local authorities here is small the statistics provided by the Registrar General are in less detail than those given to larger authorities. In regard to communicable disease the regulations give us but limited information - what is informative is the weekly summary of the public health laboratory service but this is not officially available.

No deputy is designated so that when the medical officer of health is not available the law cannot be fully asserted here on certain health matters which although uncommon are nevertheless of importance when they occur.

As the local authorities are small extraneous duties such as the medical assessment of candidates and of employees has to be mixed up with public health work and in the main has to be done when convenient to other departments. This consumes time.

Improvements attempted

The administrative set-up here is unusual - there are only eleven such appointments in England and Wales. With adjustment it could serve the public well and have useful possibilities but with so few colleagues in like position the scope for support in effecting a remedy is limited.

Memoranda on administrative matters have been submitted to three authorities with varying effect, and in this Borough the pattern that has evolved is the converse of that in the Rural District. When this local authority had its offices \( \frac{1}{4} \) mile from the neighbouring authority, a proposal was made for the two public health offices to be merged - both councils declined. For the one joint committee a technical panel was formed but it lasted only three meetings.

In regard to the personal health services some sort of decentralisation was hoped for but appeared not even to get consideration. Health education gets little attention in this district and proposals to County level were made to facilitate this district doing this work here for which the County get a grant - nothing resulted.

To remove obsolescence from the law on notifiable disease the County and the Local Government Associations were approached but no support was received. Finally a professional organisation was approached which submitted a memorandum to the Ministry. That was a dozen years ago - signs of response are only just appearing. Two attempts have been made to get the duty to provide County Hall with health information made reciprocal, both attempts were unsuccessful. The proposals of the County to limit the information on vaccination

were formally opposed and although our reasoning was appreciated by the Ministry, the County's proposals went into effect. The useful weekly summary of the Public Health Laboratory Service which is not officially available to medical officers of health we get from "under the counter" thanks to colleagues outside Public Health. The short-comings of the details provided by the Registrar General we have remedied by instituting our own classification of deaths and our own punch card system. It is time-consuming.

In regard to medical examinations, much time has been saved by the use of medical questionnaires and in many cases not asking to see the candidate. So far this practice has not let us down but it is widely different from that followed elsewhere.

In regard to there being no designated deputy, there was an opportunity to so designate a neighbouring colleague but not all neighbouring councils would agree and the proposal could not survive that obstacle.

Conclusions

The appropriate adviser on public health matters thirty years hence may now be a young person immersed in mathematics. He will not be able to follow his vocation here without a change in administrative structure. Unless we have an outbreak of serious acute disease - the chances are remote - remedy must await the reorganisation of Local Government and the Health Service.

For which we can now hope.

Amenity is emminently the concern of small local authorities.

Public health is a misfit in their responsibilities. Clues for the future reorganisation may be found in the following:-

- Work to improve amenity be separated from work to improve public health;
- 2) Amenity work to remain with local government;
- 3) Executive side of public health work be the province of the national health service through area health boards;
- 4) The advisory side of public health work be provided by a local office of health information linked with the office of the Registrar General;
- 5) This local office be administered by a local medical actuary responsible to the Registrar General and assisted by a local professional committee.

J. H. H.

JHH/MP.

## DARTFORD BOROUGH TABLE I.

## SOCIAL CONDITIONS

| The state of the s |                  | 1964            | 1965              |
|--|------------------|-----------------|-------------------|
| Area (acres)   |                  | 4,292           | 4,292             |
| Population (Census 1931)   | 28,928           | a window Indian | and the second of |
| " (Census 1951)  | 40,544           |                 |                   |
| " (Census 1961)  | 46,146           |                 |                   |
| Mid-year home population (R.G's estimate)  | columnit. France | 46,420          | 46,700            |
| Number of dwellings as at 1st April  |                  | 14,366          | 14,465            |
| (Items A1, A2, B3, B6 & C13 of the Analysis  |                  | O BRAILBOO-FEED | Labora .          |
| of Rateable values)  |                  |                 |                   |
| Rateable value   |                  | £1,877,916      | £1,877,893        |
| Sum represented by 1d. rate  |                  | 7,637           | 7,600             |

POPULATION. Increases in the population are, due to natural causes, i.e. excess of births over deaths, and immigration, both being related to new houses built.

| Year   | 1960       | 1961       | 1962       | 1963       | 1964       | 1965       |
|--|------------|------------|------------|------------|------------|------------|
| Est. mid-year home population                                    | 44,950     | 45,460     | 46,180     | 46,460     | 46,420     | 46,700     |
| Increase or decrease on previous year                            | +1,010     | +510       | +720       | +280       | -40        | +280       |
| Births Deaths including Bexley Hosp. Natural increase (excess of | 735<br>525 | 824<br>625 | 789<br>631 | 780<br>605 | 865<br>588 | 898<br>631 |
| births over deaths)  | 210        | 199        | 158        | 175        | 277        | 267        |
| Immigration or emigration  | +800       | +311       | +562       | +105       | -317       | +13        |
| Houses built   | 253        | 191        | 177        | 130        | 258        | 171        |

COMPARABILITY FACTORS. When local crude birth and death rates are multiplied by the area comparability factors they are comparable with the rate for England and Wales or with the adjusted rate for any other area. In the last eight years the factors for births (governed by the proportion of women aged 18 - 44 years) and for deaths (governed by the proportions of all age groups) have been as follows:-

| Year             | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 |
|------------------|------|------|------|------|------|------|------|------|
| Births<br>Deaths |      |      |      |      | 0.97 |      |      |      |

From 1953 to 1957 all deaths at Bexley Hospital were assigned to Dartford. From 1958 onwards only deaths of persons resident at the hospital six months or more were so assigned.

The following give a glimpse of some social conditions -

|  | 1962                             | 1963                             | 1964                             | 1965                             |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Cases dealt with by the N.S.P.C.C.   |                                  |                                  |                                  |                                  |
| Children affected<br>Prosecution for neglect   | 44                               | 63                               | 103                              | 81                               |
| Unemployed on December 31st. (Dartford and District) - Men Women   | 632<br>38                        | 215<br>60                        | 110<br>23                        | 67<br>13                         |
| Illegitimate birth rate for 1,000 births -   |                                  |                                  |                                  |                                  |
| Dartford Borough Dartford Rural District Northfleet Urban District Swanscombe Urban District England and Wales Kent A.C. | 40<br>29<br>38<br>39<br>66<br>53 | 46<br>30<br>38<br>64<br>69<br>56 | 55<br>72<br>51<br>56<br>72<br>62 | 50<br>77<br>39<br>34<br>77<br>68 |

## DARTFORD BOROUGH TABLE I - (continued)

POPULATION OF YOUNG PERSONS. A guide is necessary to the young population in the district in order that we may form an idea from vaccinations done of the proportion who have been given immunity to certain diseases. A rough estimate can be made from the births which have occurred in the district in the past. This assumes a stable population and does not take into account deaths after one year of age or the balance of those coming into the district over those leaving.

| Age<br>Dec. 31st                                   |  | Bir  | ths<br>Number   | Infant<br>deaths  | Approx.<br>Population   | Infants<br>surviving  | Approx.<br>Population   |
|--|--|--|---|---|---|---|---|
| 1964   | 1965   |  |   |   | Age Dec.1964  | to 1 year   | Age Dec. 1965   |
| 1964<br>-1 0 1 2 3 4 5 6 7 8 9 10 11               | 1965<br>0 1 2 3 4 5 6 7 8 9 10 11 12               | 1965<br>1964<br>1963<br>1962<br>1961<br>1960<br>1959<br>1958<br>1957<br>1956<br>1955<br>1954<br>1953 | 898<br>865<br>780<br>789<br>824<br>735<br>700<br>688<br>697<br>632<br>581<br>579<br>591 | 22<br>13<br>28<br>16<br>17<br>11<br>11<br>20<br>6<br>14<br>12<br>10 | 0 - 4 years<br>= 3908<br>5 - 11 year<br>= 4381<br>5 - 15 year<br>= 6667 | 876<br>  852<br>  752<br>  773<br>  807<br>  724<br>  689<br>  668<br>  691<br>  618<br>  569 | 0 - 4 years<br>= 4060<br>5 - 11 years<br>= 4528<br>5 - 15 years<br>= 6753 |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | 1952<br>1951<br>1950<br>1949<br>1948<br>1947<br>1946<br>1945<br>1944                                 | 533<br>562<br>594<br>656<br>722<br>816<br>729<br>581<br>651                             | 18<br>13<br>10<br>18<br>17<br>28<br>18<br>17<br>26                  | 12 - 15 year<br>= 2286<br>-<br>16 - 18 year<br>= 2204                   | 515<br>549<br>584<br>638<br>705<br>788  | 12 - 15 years<br>= 2225<br>16 - 18 years<br>= 2131                        |

Population of children (i) aged 5 - 11 years

| Dec. 31st. | Birth years    | Est. population |
|------------|----------------|-----------------|
| 1961       | 1950- 56       | 3981            |
| - 1962     | 1951- 57       | 4088            |
| 1963       | 1952- 58       | 4207            |
| 1964       | 1953- 59       | 4381            |
| 1965       | 1954- 60       | 4528            |
| (ii) aged  | 1 5 - 14 years |                 |
| 1965       | 1951- 60       | 6169            |

## NATURAL INCREASE

|      | Births | Deaths<br>(Town) | Natural<br>increase | Population<br>(Town) | Rate of natural<br>increase per 1000<br>population |
|------|--------|------------------|---------------------|----------------------|--|
| 1958 | 688    | 454              | 234                 | 41,140               | 5.7  |
| 1959 | 700    | 436              | 264                 | 41,940               | 6.3  |
| 1960 | 735    | 400              | 335                 | 42,950               | 7.9  |
| 1961 | 824    | 452              | 372                 | 43,460               | 8,6  |
| 1962 | 789    | 428              | 361                 | 44,180               | 8.2  |
| 1963 | 780    | 431              | 349                 | 44,460               | 7.8  |
| 1964 | 865    | 449              | 416                 | 44,420               | 9.4  |
| 1965 | 898    | 445              | 453                 | 44,700               | 10.1   |
|      |        |                  |                     |                      |  |

DARTFORD BOROUGH
TABLE II - BIRTHS AND DEATHS, 1964 and 1965

|  | IADDE II - BIRI            |                  | 964   | ns, 1904 and      | 1905             | 1965   |                      |
|--|----------------------------|------------------|-------|-------------------|------------------|--------|----------------------|
|  |                            | M                | F     | Persons           | М                | F      | Persons              |
| Live Births:                             | Legitimate Illegitimate    | 426              | 392   | 818               | 428              | 425    | 853                  |
|  | TITEST CIMA CA             | <u>26</u><br>452 | 413   | <u>47</u><br>865  | <u>25</u><br>453 | 445    | <u>45</u><br>898     |
| Deaths from all ca                       | uses:                      | 274              | 314   | 588               | 324              | 307    | 631                  |
| Deaths from pregna                       |                            | Age Dec          | 7.7   | Markey and        | -4               | 201    | 364 1965<br>964 1965 |
| childbirth, abo                          |                            | -                | 1     | 55 1 805          | £1,87            | 7,916  | 0 077                |
| Stillbirths:                             | Legitimate                 | 8                | 4     | 12                | 10               | 8      | 18                   |
|  | Illegitimate               | 8<br>1<br>9      | - 4   | 13                | 11               | 8      | 18                   |
| Tonz                                     |                            |                  | -4    | 17                | 110              | -      | 19                   |
| Infant deaths by a                       | FF 4888 1 - FR 99 99 97    | 50 45            | 1,450 | 05/4 100 883      |                  | er 46  | 40 6                 |
| 0 to 6 days                              | Legitimate<br>Illegitimate | 4 1 5            | 5 1 6 | 9 2 11            | 1                | 11     | 13<br>2<br>15        |
|  |                            | _5               | 6     | 11                | 3                | 12     | 15                   |
| 7 to 27 days                             | Legitimate                 | 1                | 100   | AT 1 FEE          | 1                | er 1   | 2                    |
|  | Illegitimate               | 1                | -     | 1                 | -                | -      | - 2                  |
| Interestination and                      | C879-                      | 2                | -     | N. W.             | 91               | 91     |                      |
| 28 to 364 days                           | Legitimate<br>Illegitimate | 1                | 2     | 3                 | 3                | 2      | 5 -5                 |
|  |                            | 1                | 2     | 3                 | 3                | 2      | 5                    |
| Total under 1 year                       |                            |                  | Is    | No. Land 455      |                  | di the | The state of         |
|  | Legitimate<br>Illegitimate | 6                | 1     | 13<br>2<br>15     | 6                | 14     | 20                   |
|  |                            | 7                | 8     | 15                | 7                | 15     | 2 22                 |
| Rates per 1,000                          | Home Population            |                  |       |                   |                  |        |                      |
|  |                            |                  | rtfor | d Borough<br>1965 | Engl<br>196      |        | Wales<br>1965        |
| Crude live birth r                       | ate                        | 18.              |       | 19.2              | 18.              | anntha | 18.1                 |
| Crude live birth r                       |                            |                  |       |                   |                  |        |                      |
| by comparability                         | factor                     |                  | .2    | 17.7              | 18.              |        | 18.1                 |
| Crude death rate a                       | diusted by                 | 12               | • 1   | 13.5              | 11.              | ) 198  | 11.5                 |
| comparability fa                         |                            | 11               | .7    | 11.4              | 11.              | 3      | 11.5                 |
| Rates per 1,000                          | live and stillbirt         | hs               |       |                   |                  |        |                      |
| Maternal death rat                       | e                          | 1                | .1    | 650               | 0.               | 25     | 0.25                 |
| Stillbirth rate                          |                            | 14               | .8    | 20.7              | 16.              | 3      | 15.8                 |
| Perinatal death ra<br>(s. bs. & deaths 0 |                            | 27               | .3    | 37.1              | 28.              | 2      | 26.9                 |
| Rates per 1,000                          | Barteans Roll The          |                  |       |                   |                  |        |                      |
| 9.4                                      | Toron and the Party        | 10               | 7     | 16.7              | 12               | 0      | 11 3                 |
| Early neonatal dea<br>(deaths 0-6 days)  | th rate                    | 12               | .7    | 16.7              | 12.              |        | 11.3                 |
| Neonatal death rat<br>(deaths 0-27 days) |                            | 13               | .9    | 18.9              | 13.              | 8      | 13.0                 |
| Infant death rate                        |                            | 17               | .2    | 24.5              | 19.              | 9      | 19.0                 |
| (0-364 days)                             |                            |                  |       |                   |                  |        |                      |

## TABLE IIIA - CAUSES OF DEATH ACCORDING TO AGE

Registrar General's Return 1964

| Persons All causes   | 88 All ages | Under 4 weeks | w 4 wks - 11 mths. | 1 - 4 years | 1 5 - 14 years | - 15 - 24 years | o 25 - 34 years | œ 35 - 44 years | 45 - 54 years | 8 55 - 64 years | 25 65 - 74 years | + 52 266 | Main causes |
|--|-------------|---------------|--------------------|-------------|----------------|-----------------|-----------------|-----------------|---------------|-----------------|------------------|----------|-------------|
| Tuberculosis, respiratory  | -           | -             | -                  | -           | _              | -               | _               | _               |               | Reg             | 1016             | o Luga   |             |
| Tuberculosis, other  | -           | -             | -                  | 9-          | -              | -               | -               | -               | -             | TO TO           | -                | -        |             |
| Syphilitic disease<br>Diphtheria                                 | 2           | -             | -                  | -           | -              | -               | -               | -               | -             | -               | 2                |          |             |
| Whooping cough   | 3-          | -             | -                  | -           | -              | -               | -               | -               | 1150          | 0.5             | Inso             | BUTTO    |             |
| Meningococcal infections Acute poliomyelitis                     | -           | -             | -                  | -           |                | -               | -               | -               |               | A EA            | one !            | lod de   |             |
| Measles  | -           | -             | -                  | -           | -              | -               | -               | -               | -             | -               |                  | 190      |             |
| Other infective and parasitic diseases                           | 29          |               |                    | -           |                | _               |                 | man             | Sonli         |                 |                  | 111      |             |
| All and a first or a second of the second                        | 10          |               | Ī                  |             |                |                 | ale             | 2               | 2             | 2               | 6                | 7        | 1           |
| Malignant neoplasm, stomach<br>Malignant neoplasm, lung bronchus | 19          | - 0           |                    | -           | -              | 15              | -               | -               | 4             | 8               | 12               | 7        | 5           |
| Malignant neoplasm, breast                                       | 8           | -             | -                  | -           | -              | -               | 1               | 1.120           | W - 0         | 1               | 0 - 1            | 5        | )100        |
| Malignant neoplasm, uterus Other malignant and lymphatic         | 4           | -             | -                  | -           | -              | -               | 2200            | Magari          | EL PL         | 2               | in the           | 2        | )108        |
| neoplasms  | 45          | -             | -                  | -           | -              | 1               | 1               | 1               | 6             | 4               | 15               | 17       | )           |
| Leukaemia, aleukaemia  | 1           | -             | -                  | -           | -              | -               | -               | -               | -             | 202             | arala.           | 1        | )           |
| Diabetes   | 6           | -             | -                  | -           | -              | -               | -               | -               | -             | 1               | 3                | 2        |             |
| Vascular lesions of nervous system                               | 67          | -             | -                  | -           | 12             | 12              | 140             | 2               | 2             | 9               | 15               | 39       | ) 67        |
| Coronary disease, angina   | 128         | -             | -                  | 52          | -              | -               | -               | 4               | 6             | 31              | 36               | 51       | )           |
| Hypertension with heart disease<br>Other heart disease           | 10          | -             | -                  | 1           | -              | -               | -               | - 3             | - 3           | 1               | 1                | 29       | 212         |
| Other circulatory disease  | 34          | -             | -                  | -           | -              | -               | 1               | -               | 2             | -1              | 16               | 14       | 3           |
| Influenza  | 3-          | -             | -                  | -           | -              | -               | -               | -               | -             | -               | -                | 12       | )           |
| Pneumonia<br>Bronchitis  | 66          | -             | 1                  | 10-         | -              | 1               | -               | 1               | - 7           | 6               | 15               | 42<br>18 | }           |
| Other diseases of the  | 41          |               | -                  | 2-          | -              | -               |                 |                 | ,             | ,               | 16               | 10       | 116         |
| respiratory system   | 9           | -             | -                  | -           | -              | -               | -               | 700             | 1             | 1               | 3                | 4        | )           |
| Ulcer of stomach and duodenum                                    | 2           | -             | -                  | -           | -              | -               | -               | -               | 1             | -               | -                | 1        |             |
| Gastritis, enteritis and diarrhoea<br>Nephritis and nephrosis    | 4           | -             | -                  | -           |                | -               | -               | 1               |               | 11-0            | -                | -        |             |
| Hyperplasia of prostate  | 3-7         | -             | -                  | -           | -              | -               | -               | -3              | -             | 111=            | 000-0            | 111-1    |             |
| Pregnancy, childbirth, abortion<br>Congenital malformations      | 11          | 7             | 1                  | -           | -              | 1               | -               | 21              | -             | 1               | N-1              | 1        |             |
| Other defined and ill-defined                                    | 2 2         | -             | . 6                |             |                | 1               |                 | EFF             | 1122          | 3021            | and La           | T LOD B  |             |
| diseases Motor vehicle accidents                                 | 46          | 5             | -                  | -           | -              | - 2             | 1               | 3               | 3             | 7               | 9                | 18       |             |
| All other accidents  | 6           | -             | 1                  | -           | -              | 1               | -               | 1               | 1945          | 1               | 2                | 0 T      |             |
| Suicide  | 1           | -             | -                  | -           | -              | -               | -               | -               | -7            | 1               | 008-5            | adt=     |             |
| Homicide and operations of war                                   | 15          | -             | -                  | -           | -              | -               | -               | -               | -             | -               | 200              | 9D-0     |             |

# TABLE IIIB - CAUSES OF DEATH ACCORDING TO AGE Registrar General's Return

|                                    |      | 1     | 1965     |     |      |      |        |       |      |       |          |               |        |
|------------------------------------|------|-------|----------|-----|------|------|--------|-------|------|-------|----------|---------------|--------|
|                                    |      |       | hs       |     |      |      |        |       |      |       |          |               |        |
|                                    |      |       | months   |     |      |      | 0      |       | :    |       |          |               |        |
|                                    |      | weeks |          | yrs | yrs  | yrs  | yrs    | yrs   | yrs  | yrs   | yrs      |               | 68     |
|                                    | A.   | We.   | =        | 4   | 14   | 24   | 34     | 44    | 54   | 64    | 74       |               | causes |
|                                    | ages | 4     | weeks-11 | -   | -    | 2    | 2      | 4     | 5    | 9     | - 7      |               |        |
|                                    |      | er    | ee       | 8   |      |      |        |       |      | -     |          | +             | Main   |
| Persons                            | A11  | Under | 4        | -   | 5    | 15   | 25     | 35    | 45   | 55    | 69       | 75            | Ma     |
| All causes                         | 631  | 17    | 5        | 2   | 2    | 4    | 6      | 14    | 27   | 109   | 158      | 287           |        |
| Tuberculosis, Resp.                | 2    | -     |          |     |      | _    | 0.00   |       |      | 2     | 50       | THEO          |        |
| Tuberculosis, other                |      | 4_    | _        | _   | _    | _    | -      | chall |      |       | , alter  | berry         |        |
| Syphilitic disease                 | 2    | -     | _        | -   | -    | -    | -      | -     | -    | del   | 1        | 1             |        |
| Diptheria                          | -    | -     | _8       | -   | -    | -    | -      | -     | -    | 11/20 | th an    | HE LIN        |        |
| Whooping cough                     | -    | -     | -        | -   | -    | -    | -      | -     | -    | -     | 4.0      | 16/2016       |        |
| Meningococcal infections           | -    | -     | -        | -   | -    | -    | -      | -     |      | 2     | Short    | NI PIO        |        |
| Acute poliomyelitis                | -    | -     | -        | -   | -    | -    | -      | -     | -    | Tur   | Laborer  | OFTE          |        |
| Measles                            | -    | -     | -        | -   | -    | -    | -      | -     | -    | -     | A 1      | 8-011         |        |
| Other infective and parasitic      |      |       |          |     |      |      |        |       |      |       |          |               |        |
| diseases                           | 1    | -     | -        | -   | -    | -    | -      | -     | 1    | 1     | DI DIFFE | 1 200         |        |
| Malignant neoplasm, stomach        | 0    |       |          |     |      |      |        |       |      | 2     |          | 71            |        |
| Malignant neoplasm, stomach        | 23   | -     |          | -   | -    | 3    | -      | -     | 1113 | 2     | 4        | 33            |        |
| Malignant neoplasm, breast         | 10   |       |          |     | 0.00 | 1001 |        | 200   | 2    | 9 5 3 | 2        | 4             |        |
| Malignant neoplasm, uterus         | 6    |       |          | _   |      |      |        | 1     | 1    | 3     | 1        | -5            | 92     |
| Other malignant and lymphatic      |      |       |          |     |      |      |        | 1000  |      |       | ORK SE   | 3             | ,-     |
| neoplasms                          | 42   | -     | -5       | -   | 1    | -    | -      | 6     | 4    | 6     | 10       | 15)           |        |
| Leukaemia, aleukaemia              | 2    | -     | -        | -   | _    | -    | -      | -     | -    | 1     | -        | 1)            |        |
|                                    |      |       |          |     |      |      |        |       |      |       |          |               |        |
| Diabetes                           | 8    | -     | - 3      | -   | -    | -    | -      | -     | 1    | 2     | 3        | 2             |        |
| Vascular lesions of nervous system | 64   | -     | -        | -   | -    | -    | 10.700 | -50   | 2    | 12    | 19       | 31)           | 71     |
| Coronary disease, angina           | 126  |       |          |     |      |      | -      | _     | 5    | 31    | 36       | 54)           |        |
| Hypertension with heart disease    | 9    | -     |          |     | _    | _    | -      |       | -    | ,     | 2        | 7)            |        |
| Other heart disease                | 69   | -     | -        | -   | -    | -    | 1      | -     | 3    | 6     | 17       | 42)2          | 20     |
| Other circulatory disease          | 16   | -     | -        | -   | -    | -    | -      | -     | 2    | -     | 2        | 12)           |        |
|                                    |      |       |          |     |      |      |        |       |      |       |          | 4 4 4 4 4 4 4 |        |
| Influenza                          |      | -     | -        | -   | -    | -    | -      | -     | -    | -     | 0        | -)            |        |
| Pneumonia                          | 106  | -     | - "      | -   | -    | 1    | -      | 1     |      | 9     | 24       | 71)           |        |
| Bronchitis                         | 35   | -     | 1        | -   | -    | -    | -      | -     | 1    | 7     | 8        | 18)1          | 45     |
| Other diseases of respiratory      |      |       |          |     |      |      |        |       |      |       |          | 2             |        |
| system                             | 4    | -     | -        | -   | -    | -    | -      | -     | -    |       | 2        | 2)            |        |
| Ulcer of stomach and duodenum      | 5    |       | - 3      |     | _    |      | 1      | oup.  | 1    | 1     | 1        | 700           |        |
| Gastritis, enteritis and diarrhoea | 1    |       | 1        |     | -    |      | -      | 2000  | 1    | 730   | 1        | 1             |        |
| Nephritis and nephrosis            | 4    | -     |          | _   | -    | 1    | 1      |       |      | 96.0  | 100      | 2             |        |
| Hyperplasia of prostate            | 1    | -     | -        | -   | -    | -    | 5-2    | -     |      | 4 -1  | -        | 1             |        |
| Pregnancy, childbirth, abortion    | 1    | -     | -        | -   | -    | -    | -      | 000   | -    |       |          | -             |        |
| Congenital malformations           | 9    | 2     | 2        | 2   | 1    | -    | 1      | -     | 11-  | na-1  | 1        | -             |        |
| Other defined and ill-defined      | -    |       |          |     |      |      |        |       |      |       |          |               |        |
| diseases                           | 57   | 15    | 1        | -   | -    | 1    | 1      | 1     | 2    | 9     | 14       | 13            |        |
| Motor vehicle accidents            | - 5  | -     | 0        | -   | -    | -    | -      | 3     | 1070 | 1     | ON 50    | 01            |        |
| All other accidents                | - 6  | -     | -        | -   | -    | -    | -      | -     | 1    | -     | 1        | 4             |        |
| Suicide                            | - 6  | -     | -        | -   | -    | 1    | 10     | 830   | 112  | 2     | ban o    | 11519         |        |
| Homicide and operations of war     | -    | -     | -        | -   | -    | -    | -      | -     | -    | -     | 350      | 1             |        |

# TABLE IIIC - CAUSES OF DEATH ACCORDING TO AGE AND SEX Registrar General's Return 1964

| Strate comments  Strate | All ages  | 27 days | 4 weeks   | 1 - 4 years | 5 - 14 years | 15 - 24 years | 25 - 34 years | 35 - 44 years         | 45 - 54 years               | 55 - 64 years                         | 65 - 74 years                          | + 52            | Main causes      |
|--|---|---------|-----------|-------------|--------------|---------------|---------------|-----------------------|-----------------------------|---------------------------------------|--|-----------------|------------------|
| Males All causes   | 274   | 6       | 1         |             |              | 5             | 1             | 12                    | 21                          | 51                                    | 79                                     | 98              |                  |
| Syphilitic disease Malignant neoplasm, stomach Malignant neoplasm, lung, bronchus Other malignant & Lymph.neoplasms Leukaemia, aleukaemia Vascular lesions of nerv.system Coronary disease, angina Hypertension with heart dis. Other heart disease Other circulatory disease Pneumonia Bronchitis Other dis. of respiratory system Vlcer of stomach & duodenum Gastritis, enteritis & diarrhoea Congenital malformations Other defined and ill-def. dis. Motor Vehicle accidents  | 1<br>6<br>27  | 4 2 -   |           |             |              | 1 1 - 2       |               | 1 1 4 - 2 - 1 1 - 2 - | 1 3 2 - 1 6 - 2 - 3 1 1 1 - | 1 5 3 - 4 21 - 1 - 3 6 - 1 - 3 2      | 1 - 12 8 - 7 18 - 2 10 7 9 1 - 1 - 2 - | 18)             | 55<br>=23<br>164 |
|  |   |         |           |             |              |               |               |                       |                             |                                       |  | -               |                  |
| All other accidents Females  | 4   | 7       | 1 -       |             |              | 300           | 002           | anol<br>h-la          | tage<br>tage<br>b-II        | L To                                  | ale                                    | ALTER<br>AD TO  |                  |
| Females All causes   | 314   | 6       | 2         | 1           | -            | 2             | 4             | 6                     | 13                          | 39                                    | 73                                     | 168             |                  |
| Females  | 1<br>13<br>4<br>8<br>4<br>24<br>6<br>44<br>61<br>7<br>20<br>16<br>43<br>12<br>5<br>1<br>1<br>1<br>6 | 6 33    | 2 1 1 1 - | 1           |              | 2 1 1         | 4             | 6 -1 1 1 1            | 13 - 1 1 1 2 1 - 2          | 39 - 1 3 1 2 1 1 5 10 1 - 1 3 3 1 1 4 | 73 16 -1 -7 38 18 1 2 6 8 2 2 7        | 4) - 5 2) 10) 2 | 53<br>=44<br>164 |

# TABLE IIID - CAUSES OF DEATH ACCORDING TO AGE AND SEX Registrar General's Return 1965

|  |      |      |       |       |       | -             |       |       | -     |       |       |              |
|--|------|------|-------|-------|-------|---------------|-------|-------|-------|-------|-------|--------------|
|  |      |      |       | years | years | years         | years | years | years | years | years | m            |
|  |      |      |       | уе    | ye    | ye            | уе    | ye    | ye    | yea   | yea   | causes       |
|  | 00   | m    | 83    | 4     | 4     | 24            | 34    | 44    | 54    | 64    | 74    | neg          |
|  | ages | days | меекв | 1     | -     | -             | -1    | 1     | 1     | 1     | -     |              |
|  |      |      | 3     | -     | 5     | 5             | 5     | 5     | 45    | 55    | . 59  | 75 +<br>Main |
| Males  | A11  | 27   | 4     |       |       | -             | 2     | 2     | 4     | 5     | 9     | N A          |
| All causes   | 704  |      | 7     | 433   |       | 0             | 7     | 10    | 40    | (0    | 0.4   | 404          |
|  | 324  | 4    | )     | 1     | 1     | 2             | 3     | 10    | 16    | 69    | 94    | 121          |
| Respiratory tuberculosis   | 2    | -    | 1-3   | -     | 7     | -             | -     | -     | -     | 2     | 7     | 282000       |
| Syphilitic disease   | 2    | -    | -     | -     | 3.    | -             | -     | -     | 7 -   | -     | 1     | 1            |
| Malignant neoplasm, stomach<br>Malignant neoplasm, lung bronchus   | 5 23 |      | - [-  | -     | -     | a La          | 000   | 4     | 1     | 9     | 9     | 2)<br>4) 15  |
| Other Malignant & lymph.neoplasms  | -    |      |       |       | 1     | -             |       | A     | 3     | 4     | 8     | 8)           |
| Leukaemia, aleukaemia  | - 2  |      |       | -     | -     | 1011          | 12-   | Z     | 12    | 1     | 111   | 1)           |
| Diabetes   | - 3  | -    | -     | -     | -     | -             | -     | 454   | 1     | 1     | 1     | Cordinary    |
| Vascular lesions of nerv.system  | 18   | -    | -     | -     | -     | -             | -     | -     | 1     | 5     | 6     | 6 =18        |
| Coronary disease, angina   | 75   | -    | -     | -     | -     | -             | -     | -     | 5     | 22    | 23    | 25)          |
| Hypertension with heart disease  | 4    | -    | -     | -     | -     | -             | -     | -     | -     | -     | 1     | 3)           |
| Other heart disease  | 36   | -    | -     | -     | -     | -             | 1     | -     | 2     | 5     | 7     | 21)          |
| Other circulatory disease<br>Pneumonia   | 46   |      |       |       | -     | OF THE PERSON | 1     | 1     | The   | 5     | 16    | 3) 196       |
| Bronchitis   | 27   | -    | 1     | -     |       | -             | 100   | boo   | 1     | 6     | 7     | 12)          |
| Other diseases of resp. system   | 3    | 3 -  | -     | _     | - 1   | angd          | -     | LU_A  | 10.22 |       | 2     | 1)           |
| Ulcer of stomach and duodenum  | 4    | 0 -  |       | -     | -     | -             | -     | 102   | 1     | 1     | 1     | 1            |
| Gastritis, enteritis & diarrhoea   | 2    | -    | 1     | -14   | -     | 0.20          | -21   | 10-1  | 111-0 | 08_0  | 1     | ab -20880    |
| Nephritis and nephrosis  | 4    | -    | -     | -     | -     | 1             | 1     | -     | DD 20 | 08-8  | 1040  | 2            |
| Hyperplasia of prostate  | 1    | -    | -     | -     | -     | -             | -     | -     | -     | -     | -     | 1            |
| Congenital malformations   | 2    | -    | 7     | 1     | -     | -             | -     | -     | -     | -     | 1     | -            |
| Other def. and ill-def.diseases<br>Motor vehicle accidents   | 23   | 4    | 1     | -     | -     | -             | 1     | 7     | 1     | 4     | 7     | 4            |
| All other accidents  | 3 2  |      | 1 3   | D.    | 8     | -             | -     | -     | -     |       | -     | 2)           |
| Suicide  | 4    | -    | -     |       | -     | 1             | _     | 1     | 1     | 1     | -     | -5           |
| The state of the s |      |      |       |       |       |               |       |       | 200   | -     |       |              |
| Females  |      |      |       |       |       |               |       |       |       |       |       |              |
|  |      |      |       |       |       |               |       |       |       |       |       | Marie        |
| All causes   | 307  | 13   | 2     | 1     | 1     | 2             | 3     | 4     | 11    | 40    | 64    | 166          |
| Other infective and parasitic  |      |      |       |       |       |               |       |       |       |       |       |              |
| disease  | - 1  | -    | -     | -     | -     | -             | -     | -     | -     | 1     | -     | THE ALL      |
| Malignant neoplasm, stomach  | 4    | -    | -     | -     | -     | -             | -     | -     | -     | -     | 3     | 1)           |
| Malignant neoplasm, breast   | 10   | -    | -     | -     | -     | -             | -10   | -     | 2     | 2     | 2     | 1 35         |
| Malignant neoplasm, uterus<br>Other malignant & Lymph.neoplasms  | 14   |      | -     | 300   | -     | -             | -     | 2     | 4     | 2     | 2     | 7)           |
| Diabetes   | 5    |      | _     | 31    | -     | _             | _00   | -     | II T  | 1     | 2     | 2            |
| Vascular lesions of nerv.system  | 46   | -    | -     | -0    | -     | -             | -     | -     | 1     | 7     | 13    | 25 =46       |
| Coronary disease, angina   | 51   | -    | -     | _51   | -     | -             | -     | -     | -     | 9     | 13    | 29)          |
| Hypertension with heart dis.   | 5    | -    | -     | -     | -     | +             | -     | -     | 99%   | 10.0  | 1     | 4)           |
| Other heart disease  | 33   | -    | -     | -     | -     | -             | -     | -     | 1     | 1     | 10    | 21)          |
| Other circulatory disease  | 11   | 9 -  | 1 5   | -     | -     | -             | -     | -     | 2     | -     | -     | 9)169        |
| Pneumonia  | 60   | -    | -     | -     | -     | 1             | -     | 00    | 1000  | 4     | 8     | 47)          |
| Bronchitis<br>Other disease of resp. system  | 8    | 4-1  | 2 3   | 52    | 31    |               | 100   | 10-5  | LE D  | 23    | 100   | 1)           |
| Ulcer of stomach and duodenum  | - 1  | 1    | -     | 5     | -     | -             | 1     | 1     | 15/20 | 0.0   | Lo Es | ev The on    |
| Gastritis, enteritis & diarrhoea   | - 2  | -    | -     | 25    | -     | -             | -     | -     | 1     | 1520  | 00.20 | OUT I LEA    |
| Congenital malformations   | - 7  | 2    | 2     | 1     | 1     | -             | 1     | -     | -     | -     | -     | on Locales   |
| Other def. and ill-def. diseases   | 34   | 11   | -     | -     | -     | 1             | -     | -     | 1     | 5     | 7     | 9            |
| Motor vehicle accidents  | 2    | -    | -     | -     | -     | -             | -     | 1     | -     | -     | -     | 1            |
| All other accidents  | 4 2  | -    | -     | -     | -     | -             | -     | -     | 1     | -     | 1     | 2            |
| Suicide  | 2    | 200  | -     | -     |       | -             |       | -     | -     |       |       |              |
|  |      |      |       |       |       |               |       |       |       |       |       |              |

## TABLE IVA - CAUSES OF DEATH ACCORDING TO AGE

TOWN - Compiled locally

|  |          | 19    | 64    |   |    |     |     |      |         |                    |         |         |         |     |
|--|----------|-------|-------|---|----|-----|-----|------|---------|--------------------|---------|---------|---------|-----|
|  |          | 000   | .80   |   |    |     |     |      |         |                    |         |         |         |     |
|  |          | weeks | OH OH |   |    |     |     |      |         |                    |         |         |         |     |
|  |          | W.G.  | ==    |   |    |     |     |      |         |                    |         |         |         |     |
|  | ages     | 4     | 1     | N | 4  | 4   | 4   | 4    | 4       | 4                  | 99      | 4       |         |     |
|  | 8        |       | wks   |   | 3. | -   | CA  | 100  | 4       |                    | 9       | -       | 1       |     |
|  | A11      | Under | Z     | - | C  | 5   | 5   | 5    | 10      | 10                 |         | 10      | 10      |     |
|  | A        | Þ     | 4     |   |    | -   | -   | 25   | 35      | 45                 | 55      | 69      | 75      |     |
| All Causes   | 449      | 12    | 3     | - | 1  | -   | 6   | 4    | 14      | 28                 | 72      | 110     | 199     |     |
|  |          |       |       |   |    |     |     | -    |         |                    |         |         | HAD     |     |
| Tuberculosis, respiratory Tuberculosis, other          |          | 1     |       | - |    |     |     |      |         | -                  |         |         |         |     |
| Syphilitic disease                                     | - 2      | -     | _     | _ | -  | _   | -   | -    | TOTAL   | Thes.              | 072     | 2       | trogier |     |
| Diphtheria   | -        |       | -     | - | -  | -   | -   | -    | -       | 120                | 10-1    | ningl   | 0020    |     |
| Whooping Cough   |          | -     | -     | - | -  | -   | -   | -    | -       | -                  | 0650    | milb_0  | 1010    |     |
| Meningococcal infections                               | -        | -     | -     | - | -  | -   | -   | -    | -       | -                  | -       | 10.41   | 00200   |     |
| Acute poliomyelitis                                    | -        | -     | -     | - | -  | -   | -   | -    | -       | -                  | -3      | MOD - 1 | 1       |     |
| Measles  | -        | -     | -     | - | -  | -   | -   | -    |         |                    | 1100    |         | -       |     |
| Other infective & parasitic                            |          |       |       |   |    |     |     |      |         |                    |         |         |         |     |
| diseases   | -        | -     | -     | - | -  | -   | ō.b | 1    | Page    | bas                | orb     | tou2n   | 1 201   |     |
| Malignant neoplasm, stomach                            | 16       | -     | -     | - | -  | -   | -   | 150  | 1       | 2                  | 1       | 5       | 7)      |     |
| Malignant neoplasm, lung bronchus                      |          | -     | -     | - | -  | -   | -   | -    | -       | 4                  | 8       | 10      | 7)      |     |
| Malignant neoplasm, breast                             | - 6      |       | -     | - | -  | -   | -   | -    | 1070    | -                  | 1       | on In   | 42      | 91  |
| Malignant neoplasm, uterus                             | - 2      |       | -     | - | 8- | -   | -   | -    | Put-    | -                  | 2       | on Fa   | -       |     |
| Other malignant and lymphatic neoplasms                | 37       | -     | _     | _ | -  | 1   | 1   | 2    | 1       | 5                  | 2       | 11      | 13)     |     |
| Leukaemia, aleukaemia                                  | 1        |       | -     | - |    |     | -   | -    | 1000    | -                  | -       |         | 15      |     |
|  | - 0      |       |       |   |    |     |     |      |         |                    |         | 0       | -       |     |
| Diabetes   | 2        | -     | -     | - | -  | -   | -   | -    | 200     | luna.              | Louis   | 2       | BUNG!   |     |
| Vascular lesions of nervous                            |          |       |       |   |    |     |     |      |         |                    |         |         |         |     |
| system   | 55       | -     | -     | - | -  | -   | -   | -    | 2       | 3                  | 6       | 13      | 31)     | 55  |
| Coronary disease, angina                               | 108      | -     | -     | - | -  | -   | -   | -    | 2       | 5                  | 25      | 32      | 44)     |     |
| Hypertension with heart disease                        | 2        | -     | -     | - | -  | 100 | 1   | -    | T. L.   | 1                  | 1       | 1       | -)      |     |
| Other heart disease                                    | 29       | -     | -     | - | -  | -   | -   | -    | 2       | 1                  | 3       | 3       | 20)     |     |
| Other circulating disease                              | 29       | -     | -     | - | -  | -   | -   | -    | 1       | 2                  | 4       | 9       | 13)     | 283 |
| Influenza  |          | -     |       | - | -  | -   | -   | -    | -       | -                  | -       | -       |         |     |
| Pneumonia<br>Bronchitis                                | 31<br>33 | - 1   | 1     | - | -  |     |     | -    | 2       | 2                  | 0       | 2       | 24)     |     |
| Other diseases of the respiratory                      |          |       |       | - |    | -   |     |      | -       | 2                  | 0       | 000     | 12/     |     |
| system   | 1        | 2     | -     | _ | 1  | -   | _   | -    | -       | -                  | 2       | 1       | -5      | 65  |
| delining beautiful                                     |          |       |       |   |    |     |     |      |         |                    |         | mit.    | Mosc    |     |
| Vicer of stomach and duodenum                          | 2        | -     | -     | - | -  | -   | -   | -    | 21      | 1 2                | 120     | 1000    | 2       |     |
| Gastritis, enteritis & diarrhoea                       | -        | -     | -     | - | -  | -   | -   | -    | 1       | 1/200              | OF REAL | dula    | -       |     |
| Nephritis and nephrosis                                | -        | -     | -     | - | -  | -   | -   | -    | -       | -                  | -       |         | -       |     |
| Hyperplasia of prostate                                | -        | -     | -     | - | -  | -   | -   | -    | 10      | -                  | 10000   | -       | 17      |     |
| Pregnancy, Childbirth, abortion                        | 9        | 7     | -     | - | -  | -   | 4   | -    | nFar    | THE REAL PROPERTY. | DY 20   | 10 63   | - handa |     |
| Congenital malformations Other defined and ill-defined | 9        | -     | 1     | - | -  | -   | 1   | -    | 9735    | 1000               | 1 30    | alun.   | 0400    |     |
| diseases   | 41       | 5     | -     | _ | -  | _   | 201 | 1    | 2       | 2                  | 5       | 8       | 18      |     |
|  | - 0      | -     | 1     | - | -  |     | -   |      | III por | SECTION 1          | 1       | t Int   | negan   |     |
| Motor vehicle accidents                                | 6        | -     | -     | - | 1  | -   | 2   | do   | 5-71    | 1 2                | 2       | -       | NO.     |     |
| All other accidents<br>Suicide                         | 6        | -     | 1     | - | -  | -   | -   | -    | nat .   | 1                  | 1       | 2       |         |     |
| ALL PLOST ROCKERSON                                    | -        | 174   | 1000  | - | -  | 200 | -   | 1000 |         | 100                | -       | . 3     | 1       |     |

## TABLE IVB - CAUSES OF DEATH ACCORDING TO AGE

## BEXLEY HOSPITAL - Compiled locally (Resident more than 6 months)

1964

|   | ages  | 10   | 40    | or other | -      | 1      |         |         | causes |
|---|-------|------|-------|----------|--------|--------|---------|---------|--------|
|   | 88    | 4    | 24 24 | 4        | 54     | 54     | 74      | +       |        |
|   | A11   | te   | 141   | -1       | 1      | 1      | 1       | 75      | Main   |
|   | 4     | 0    | 15    | 35       | 45     | 55     | 65      |         | Ma     |
| All causes  | 140   | -    | - 1   | 4        | 7      | 18     | 42      | 68      |        |
|   | 324   |      |       | - 1      | 2      |        | 16      |         |        |
| Tuberculosis, respiratory                                       | -     | -    |       | 9 -      | -      | -      | -       |         |        |
| Tuberculosis, other   |       |      |       | -        | -      | -      | -       | -       |        |
| Syphilic disease<br>Diphtheria                                  | -5    | -    |       |          | -      | -      | -       | Seta    |        |
| Whooping cough  | 125   |      | 100   | - 3      | -      | - 61   | 10170   | elnā l  |        |
| Meningococcal infections  |       | -    |       | - 1      | -      |        | 1 39    | reliev  |        |
| Acute poliomyelitis   | -     | -    |       | -        | _      | -      | -       |         |        |
| Measles   | -     | -    |       | _ =      | -      | -      | 75      | -       |        |
| Other infective and parasitic                                   |       |      |       |          |        |        |         |         |        |
| disease   | -     | -    |       | 91-      | -      | 10,00  | -       | EDS-TO  |        |
| W 32 - 1 - 3 - 4 - 3  |       |      |       |          |        | And St | mT G    |         |        |
| Malignant neoplasm, stomach                                     | 3 2   | _    |       | 0 -      | -      | 1      | 2       | 1)      |        |
| Malignant neoplasm, lung bronchus<br>Malignant neoplasm, breast |       |      |       |          | -      | -      | -       | - \     |        |
| Malignant neoplasm, uterus                                      | -1    | -    | 3. 2  | 177      | -      | un Lin |         | 15      | 11     |
| Other malignant & lymphatic                                     | -3.   |      |       |          |        |        |         | 3       |        |
| neoplasms   | 5     | -    |       | -        | 1      | -      | 2       | 2)      |        |
| Leukaemia, aleukaemia   | -     | -    |       | -        | -      | -      | -       | -)      |        |
| Separatio and nephrosis   |       |      |       |          |        | BUOYS  | DE RE   | nmi     |        |
| Diabetes  | 3     | -    |       | CC -     | -00    | 1      | 1       | 1       |        |
| Vascular lesions of nervous syste                               | am 17 |      |       |          |        | 2      | 6       | 8)      | 17     |
| vascular lesions of hervous syste                               | am 11 |      |       | 8 -      | 0030   | ,      |         | 0)      | 17     |
| Coronary disease, angina  | 22    | -    |       | 2        | -      | 4      | 4       | 12)     |        |
| Hypertension with heart disease                                 | 3     | -    |       | -        | _      | -      | 1       | 25      | 51     |
| Other heart disease   | 16    | -    |       | 2        | -      | -      | 2       | 12)     | 7.70   |
| Other circulatory disease                                       | 10    | -    |       | 11 -     | 2      | -      | 4       | 4)      |        |
| Influenza   |       | -    |       | -        | no Gra | lyspu  | -       | 1.5     |        |
| Pneumonia   | 36    | -    | - 1   | -        | -      | 4      | 12      | 19)     | 45     |
| Bronchitis<br>Other diseases of the                             | 0     | -    |       | -        | -      | 7      | 3       | 2       | 100    |
| respiratory system  | 3     |      |       | 9        | -      | ashou  | 2       | 15      |        |
| respiratory system  | -     |      |       |          |        |        | 2 23    | /       |        |
| Vlcer of stomach and duodenum                                   | 1     | -    |       | -        | 1      | -      | -       | -       |        |
| Gastritis, enteritis & diarrhoea                                | 1     | -    |       | -        | 700    | 1      | -       | No. 23  |        |
| Nephritis and nephrosis   |       | -    |       | -        | -      | - 70   | 1570    | 2037.80 |        |
| Hyperplasia of prostate   | -     | -    |       | -        | 20     | deren  | -117    | Bota be |        |
| Pregnancy, childbirth, abortion                                 | - 5-  | -    | 2 -   | 14 =     | 670    | geolb  | -       | -       |        |
| Congenital malformations Other defined and ill-defined          | 1     | - 70 | 2 -   | 3 -      | -      |        | i denti | 000-0   |        |
| diseases  | 9     | -    |       | ) _      | 3      | 2      | 2       | 2       |        |
| 41564565  | -     |      |       |          | -      |        | -       |         |        |
| Motor vehicle accidents   | -     | -    |       | -        | -      | -      | -       | -       |        |
| All other accidents   | 1     | -    |       | -        | -      | _ 1    | -       |         |        |
| Suicide   | -     | -    |       | -        | -      | 1-     | -       | -       |        |
| Homicide and operations of war                                  | -     | -    |       | -        | -      |        |         | -       |        |

## TABLE IVC - CAUSES OF DEATH ACCORDING TO AGE

TOWN - Compiled locally

|                                   |       | wks.    | mos.  |    |      |      |      |       |      |       |       |                             |           | 60     |
|-----------------------------------|-------|---------|-------|----|------|------|------|-------|------|-------|-------|-----------------------------|-----------|--------|
|                                   | 00    |         | -     | 2  | 4    | vt.  | 4    | 4     | 4    | 4     | 4     | 4                           |           | causes |
|                                   | ages  | H       | wks-1 | 1  | 3.   | -    | . 24 | 10    | 4    | . 54  | - 64  | 7                           |           |        |
|                                   | All   | Under 4 | t wk  | -  | 2    | 5    | - 51 | 25 -  | - 55 | 45 -  | - 55  | - 69                        | 75 +      | Main   |
| All causes                        | 443   | 14      | 6     | -  | 3    | 2    | 3    | 6     | 12   | 24    | 82    | 115                         | 176       |        |
|                                   | 442   | 14      | 0     |    | 13   | -    | ,    | 0     | 12   | -4    | 02    | 00000                       | 110       |        |
| Tuberculosis, respiratory         | -     | -       | -     | -  | -    | -    | -    | -     | -    | -     | -     | -                           | -         |        |
| Tuberculosis, other               | 2     | 1       | 5     | -  | 9-   | -    | 151  | CE OF | AT   | que   | 150   | BOTUGE                      | 1050      |        |
| Syphilitic disease<br>Diphtheria  | -     |         |       | 0  |      |      |      | -     | 3    | 00-0  | 150   | adjud                       | cody      |        |
| Whooping cough                    | _     | -       | -     | -  | -    | -    | -    | _     | -    | -     | -     | 01711                       | -         |        |
| Meningococcal infection           | -     | -       | -     | -  | -    | -    | -    | -     | -    | -     | do    |                             | -         |        |
| Acute poliomyelitis               | -     |         | -     | -  | _    | -    | -    |       | 11-0 |       | 1-1   | 00000                       | -         |        |
| Measles                           | -     | 1-1     | 1     | 14 | -    | -    | -    | -     | -    | -     | byEo  | BI-                         | -         |        |
| Other infective and parasitic     |       |         |       |    |      |      |      |       |      |       |       |                             |           |        |
| disease                           | -     | (-      | 7     | -  | -    | -    | 15-5 | -     | 10 % | no-i  | WHE.  | olds:                       | to the O  |        |
| Malignant neoplasm, stomach       | 10    | M-1     | 150   | -  | -20  | -    | REAL | 124   | -    | 2     | 2     | 5                           | 3         | )      |
| Malignant neoplasm, lung, bronchu |       | -       | -     | -  | -    | -    | -    | -     | 1    | -     | 6     | 11                          | 3         | )      |
| Malignant neoplasm, breast        | -6    | -       | -     | -  | -    | -    | 110  | -     | -    | 1     | 4     | 1                           | 11 4      | )      |
| Malignant neoplasm, uterus        | 5     | -       | -     | -  | -    | ugo. | -    | -     | 111  | mai   | 4     | 1                           | 1000      | ) 81   |
| Other malignant and lymphatic     |       |         |       |    |      |      |      |       | 10   | HER.  |       |                             |           | )      |
| neoplasms                         | 38    | -       | -     | -  | -    | 1    | -    | -     | 6    | 6     | 5     | 7                           | 13        | )      |
| Leukaemia, aleukia                | - 1   | -       | -     | -  | -    | -    | -    | -     | -    | -     |       | TIME .                      | 1         | )      |
| Dishatas                          | - 6   |         |       |    |      |      |      |       |      |       | n fa  |                             | 2         |        |
| Diabetes                          | 5     |         | de    | 1  |      | 1    | -    | -     | -    | _     | 1     |                             | 2         |        |
| Vascular lesions of nervous syst  | em 47 | -       | -     | -  | à    | _    | -    | _     | _    | _     | 8     | 13                          | 26        | ) 47   |
| Tablata Isolono ol molifono of o  | -     |         |       |    |      |      |      |       |      |       | 5 100 | W. D. W.                    |           | 7 41   |
| Coronary disease, angina          | 99    | _       | -     | -  | -    | -    | -    | -     | -    | 4     | 24    | 33                          | 38        | )      |
| Hypertension with heart disease   | 4     | -       | -     | -  | -    | -    | -    | -     | -    | -     | 1     | 2                           | 1         | )100   |
| Other heart disease               | 36    | 7 -     | -     | -  | -    | -    | -    | 1     | 34   | 4     | 4     | 9                           | 18        | 152    |
| Other circulatory disease         | 13    | -       | -     | -  | -    | -    | -    | -     | 1    | 1     | 2     | 2                           | 7         | )      |
| Diabetica S                       |       |         |       |    |      |      |      |       |      |       |       |                             |           |        |
| Influenza                         |       | -       | -     | -  | -    | -    | -    | -     | -    | 100   | -     | -                           | -         | 1      |
| Pneumonia                         | 45    | -       | -     | -  | -    | -    | 1    | -     | -    | -     | 6     | 8                           | 33        | 175    |
| Bronchitis Other diseases of the  | 29    | -       | 3     | -  | 00   | -    | -    | -     | -    | 2     | 0     | 9                           | 11        | 75     |
| respiratory system                | - 1   | -       | 12    | -  | 30   | 2_   | -    | -     | -    | _     | 3     | 122 4                       | 1         | 1      |
| respiratory system                |       |         | 1     | 2  |      |      | -    | 1     | -odr | 10    | Roni  | eals :                      | other     | -      |
| Vicer of stomach and duodenum     | - 5   | -       | 1     | 2  | 8 _0 | 125  | 0-1  | 10    | 102  | 1     | 1     | 1                           | 1         |        |
| Gastritis, enteritis & diarrhoea  | 4     | -       | 2     | -  | -    | -    | -    | -     | -    | 1     | -     | -                           | 1         |        |
| Nephritis & Nephrosis             | - 4   | -       | -     | -  | -    | -    | 1    | 1     | -    | 150   | 1     | 10.                         | 1         |        |
| Hyperplasia of prostate           | 2     | -       | -     | -  | -    | -    |      | -     | 0.0  | 17.12 | 03/20 | (although                   | 2         |        |
| Pregnancy, childbirth, abortion   | -     | -       | -     | -  | -    | -    | -    | -     | 12   | HOW   | date. | orn                         | Total Par |        |
| Congenital malformations          | 6     | 1       | 2     | -  | 1    | 1    | -    | 1     | -    | 270   | 10 -3 | certification of the second | ade.      |        |
| Other defined and ill-defined     |       | 17      | -     |    | - 0  |      |      | 1     |      | 0     | 7     | 10                          | 0         |        |
| diseases                          | 44    | 13      | 1     | -  | 2    | -    | 100  | O. R. | TTI  | 2     | 1     | 10                          | 8         |        |
| Motor vehicle accidents           | - 5   | -       | 1000  | 40 |      | -    | 201  | 200   | 3    |       | 1     |                             | 1         |        |
| All other accidents               | 4     | -       | -     | -  | -    | _    | -    | -     | -    | -     | -     | 1                           | 3         |        |
| Suicide                           | 7     |         | -     | -  | -    | -    | 1    | 1     | 1    | 2     | 2     | Edov.                       | 000       |        |
| Homicide and operations of war    |       |         | -     | -  | -    | -    | -    | -     | -    | tneh  | Local | Terior                      | IL        |        |
|                                   |       |         |       |    |      |      |      |       |      |       |       |                             |           |        |

## TABLE IVD - CAUSES OF DEATH ACCORDING TO AGE

## BEXLEY HOSPITAL - Compiled locally (Resident more than 6 months)

1965

|   |      |      |      |       |       |         |             |        |          | 68     |  |
|---|------|------|------|-------|-------|---------|-------------|--------|----------|--------|--|
|   | - 00 |      |      |       |       |         |             |        |          | causes |  |
|   | ages | 4    | 24   | 34    | 44    | 54      | 64          | 74     |          |        |  |
| 2 2 2 2 2 2 2 2   |      | - 1  | 15-  | 25-   | 35-   | 45-     | -55-        | -69    | 75+      | Main   |  |
|   | A11  | 0    | -    | 0     | W     | 4       | 5           | 9      | 7        | Ž      |  |
| All causes  | 187  | -09  | 1    | 2437  | 1     | 4       | 23          | 45     | 113      |        |  |
| all causes  | 101  |      | - 1  | - 4   | '7    | 4       | DIREC       | 47     | Batao    |        |  |
| Tuberculosis, respiratory                                       | 2    |      |      | -     | -     | -       | 2           | ed4o   | , sinc   |        |  |
| Tuberculosis, other   | -    |      |      | 9     | -     | -       | -           | 00200  | Nh-ol    |        |  |
| Syphilitic disease  | -    |      | -    | -     | -     | -       | -           | -      |          |        |  |
| Diphtheria  | -    | -    | -    | -     | -     | -       |             |        | 18/120   |        |  |
| Whooping cough<br>Meningococcal infections                      | -    |      | -    | -     | -     | -       | -           | 20110  | ormal I  |        |  |
| Acute poliomyelitis   |      |      |      |       | -     | -       | -           | -      |          |        |  |
| Measles   | -    | -    | -    | -     | _00   | 17 200  | nez b       | ds_81  | 11201    |        |  |
| Other infective and parasitic                                   |      |      |      |       |       |         |             |        |          |        |  |
| diseases  | -    |      | -    | 6-    | -     | 1500    | 00E .       | -      | nen i    |        |  |
| A disease -   |      |      |      |       |       |         |             |        |          |        |  |
| Malignant neoplasm, stomach                                     | - 7  |      |      | 7     | -     | Fan     | 920 0       | 1      | 205      | }      |  |
| Malignant neoplasm, lung, bronchu<br>Malignant neoplasm, breast | 8 3  |      |      | 6     |       | 7       | -           | pad-o  |          | 1      |  |
| Malignant neoplasm, uterus                                      | _    | _    |      | -     | -0.   | - Truck | SAL P       | 90.70  | 951      | 12     |  |
| Other malignant and lymphatic                                   |      |      |      |       |       |         |             |        |          | )      |  |
| neoplasms   | 5    | -    | -    | -     | -     | -       | -           | 3      | 2        | )      |  |
| Leukaemia, aleukaemia   | _1   |      |      | 8     | -     | -       | - 1         | -      | 2)-      | ) arad |  |
| Diabetes  | -    |      |      |       |       |         |             | 2      | 2        |        |  |
|   | _6   |      | - 7  | A.Tes | m.gr  | EJOY    | Long 3      | 3      | 2        |        |  |
| Vascular lesions of nervous                                     |      |      |      |       |       |         |             | -      |          | 1      |  |
| system  | 16   |      | -    | 1 -   | onel  |         | )           | 5      | 5        | ) 16   |  |
| Coronary disease, angina  | 26   |      |      | 35    | -     | 1       | 5           | 6      | 14       | )      |  |
| Hypertension with heart disease                                 | 4    |      | == - | 6-    | -     | Total   | No. of Line | 2      | 2        | 65     |  |
| Other heart disease   | 29   | -    | -    | -     | -     | -       | -           | 6      | 23       | }      |  |
| Other circulatory disease                                       | _ 0  |      | -    |       |       |         | -           | -      | 7        | 1      |  |
| Influenza   | -    | -    | -    | -     | _     | _       | -           | -      |          | )      |  |
| Pneumonia   | 59   | -    | 1    | -     | -     |         | 6           | 10     | 42       | )      |  |
| Bronchitis  | 12   |      | -    | -     | -     | 0000    | - Co        | 2      | 10       | 73     |  |
| Other diseases of the   | -    |      |      |       |       |         |             |        |          | }      |  |
| respiratory system  | m 2  |      |      | 6-    | 700   | 10520   | db Tom      | a nha  | alough . | 10 200 |  |
| Vicer of stomach and duodenum                                   | _    |      | -    | -     | HE OF | -       | 0.00        | 13 130 | and a    |        |  |
| Gastritis, enteritis & diarrhoea                                | -    | -    | -    | -     | -     | -       | -           | Sur- 3 | -        |        |  |
| Nephritis, nephrosis  | -    | -    | -    | -     | 7/6   | 100     | -           | 100    | Edd y    |        |  |
| Hyperplasia of prostate   | -    | - %- | -    | 3     | -     | -       | fold s      | india  | 10 70    |        |  |
| Pregnancy, childbirth, abortion                                 | -    | -    | -    | -     | 36    | a Col   | 5-13:       | bets . | Contra   |        |  |
| Congenital malformations Other defined and ill-defined          | 5 -  | - 7  | 81-  | 14    | 7/2   | 0.501   | Sectb       | -      | -        |        |  |
| Other delined and ill-delined diseases                          | 12   |      |      |       | 1     | -       | 1           | 6      | 4        |        |  |
| urocases.   | -12  |      |      | 8     | 1     |         | es man.     | A DOS  | DOD -    |        |  |
| Motor vehicle accidents   | -    |      |      |       | -     | -       |             |        |          |        |  |
| All other accidents   | _ 1  |      | =-   |       | 7.307 | 25      | note        | 12000  | 1        |        |  |
| Suicide   | -    |      |      | -     | -     | -       | -           | -      | -        |        |  |
| Homicide and other operations of war                            |      |      |      |       |       |         |             |        |          |        |  |
| or war  | -    |      | -    | 100   | -     | 1000    | -           |        | 100      |        |  |
|   |      |      |      |       |       |         |             |        |          |        |  |

## TABLE VA - CAUSES OF DEATH AT AGES 75 YEARS AND OVER - 1964 Town

|  |         |                |             | Mal       | Le      |               |         |      |                       |               | Fen       | nale    |         |              |
|--|---------|----------------|-------------|-----------|---------|---------------|---------|------|-----------------------|---------------|-----------|---------|---------|--------------|
|  |         |                |             |           |         |               |         |      |                       |               |           |         |         |              |
|  |         | Total          | Total       | 75 - 79   | 80 - 84 | 85 - 89       | 90 - 94 | + 56 | Total                 | 75 - 79       | 80 - 84   | 85 - 89 | 90 - 94 | + 56         |
| All causes   |         | 199            | 87          | 32        | 27      | 23            | 4       | 1    | 112                   | 46            | 40        | 15      | 11      |              |
| Mal. neopl. stomach Mal. neopl. lung, bronchus Mal. neopl. breast Mal. neopl. uterus Other mal. & lym. neopl.  | 32      | 7 7 4 - 13     | 4 7 - 7     | 2 6 - 1   | 1 - 4   | 1 1           | 1 1     | 3315 | 3<br>-<br>4<br>-<br>6 | - 3 - 5       | 3 - 1 - 1 | 121     |         | 1 13 55      |
| Leukaemia, aleukaemia<br>Diabetes  |         |                | 1           | 1         | 1       | -             | -       | 1    | 90.5                  | de            | -         | HT.     | H .     | 100          |
| Vasc. lesions of nerv.system   | 31      | 31             | 9           | 2         | 3       | _             | -       | -    | 22                    | 9             | 1         | 1       | 5       | a idi        |
| Coronary disease, angina   | ,       | 11             | 17          |           | 150     | 6             | -       | J    | 27                    | 13            | 10        | 4       | 1       | NEV.         |
| Other heart disease Other circulatory disease  | 77 (    | 20             | 8           | 6 2       | 5 3 3   | 2 2           | 1       | 7    | 12                    | 4 2           | 4 3       | 3 2     | 1       | 10           |
| Pneumonia<br>Bronchitis  | 39      | 24             | 12<br>11    | 4         | 4       | 3             | 1       | 1    | 12                    | 4             | 4 2       | 1       | 3       |              |
| Vicer of stomach & duodenum  |         | 2              | 1           | 1         | -       | -             | -       | **   | 1                     | -             | 1         | -       | -       | -            |
| Oth. def. & illdef. disease  |         | 18             | 4           | -         | 3       | 1             | -       | -    | 14                    | 5             | 7         | 1       | 1       | -            |
|  |         |                |             |           |         |               |         |      |                       |               |           |         |         |              |
|  |         |                |             |           |         |               |         |      |                       |               |           |         |         |              |
|  |         | Bexle          | у Но        | spit      | tal     |               |         |      |                       |               |           |         |         |              |
| All causes   |         | 68             | 13          | 6         | 4       | 2             | 1       | -    | 55                    | 18            | 20        | 14      | 3       | -            |
| Mal. neopl. stomach  | 4 9     | 1              | -           | -         | -       | -             | -       | DI   | 1                     | 1             | I ST      | -       | 701     | 100          |
| Mal. neopl. uterus<br>Other mal. & lym. neopl.   | 7       | 1 2            | -           | -         | -       | 1             | -       | -    | 1 2                   | 1             | -         | 1       | -       | -            |
| Diabetes   | ar requ | 1              | No.         | -         | -       | -             | -       | -    | 1                     |               | 1         | -       | -       | _            |
| Vasc. lesions of nerv.system   | 8       | 8              | 1           | -         | 1       | 1             | -       | -    | 7                     | 3             | 4         | 100     | -       | -            |
| Coronary disease, angina Hypertension with heart disease Other heart disease Other circulatory disease Pneumonia Bronchitis Other diseases of the respiratory system | 30 (    | 12 2 12 4 19 2 | 3 1 4 2 2 - | 2 - 2 1 1 | 1 1 1   | - 111 - 1 - 1 | 1 1     |      | 9 1 82 17 2           | 4 1 - 1 3 1 1 | 2 -4161   | 3 2 7   | - 2 - 1 | S 21/2 6/2 5 |
| Congenital malformation  |         | 9 1            | 9-          | 20-2      | -       | 121           | -       | -    | 1                     | 10            | -         | 1       | 200     | 1            |
| Other def. & illdef. disease   |         | 2              | -           | -         | -       | -             | -       | -    | 2                     | 1             | 1         | 100     | -       | -            |

## TABLE VB - CAUSES OF DEATH AT AGES 75 YEARS AND OVER - 1965

|  |             | To                         | wn        |         |         |         |         |       |          |             |         |         |      |            |  |  |
|--|-------------|----------------------------|-----------|---------|---------|---------|---------|-------|----------|-------------|---------|---------|------|------------|--|--|
|  | m Male      |                            |           |         |         |         |         |       |          |             | Female  |         |      |            |  |  |
|  | Main causes | Total persons              | Total     | 75- 79  | 80-84   | 85- 89  | 90- 94  | +56   | Total    |             |         | 85- 89  |      | 95+        |  |  |
| All causes   | 2           | 176                        | 81        | 37      | 29      | 6       | 9       | -     | 95       | 29          | 30      | 30      | 5    | 1          |  |  |
| Syphilitic disease   |             | 1                          | 1         | }-      | - 1     | -       | 7       | dony  | and y    | Stull Stull | 12      | que     | 11 - | Lex<br>No. |  |  |
| Mal. neopl. stomach Mal. neopl. lung, bronchus Mal. neopl. other Leukaemia   | 20          | ( 3 ( 13 ( 1               | 1 3 7 1   | 1 1 6 1 | 2 -     |         | - 1 -   | -     | 6 -      | - 3 -       | 1 -     | 1 - 1 - |      | H ESE      |  |  |
| Diabetes   |             | 0 3                        | 15        | -       | -       | -       | 0.50    | OF LY | 3        | 6 6         | 3       | 051     | -    | No.        |  |  |
| Vasc. lesions of nerv. system  | 26          | 26                         | 8         | 4       | 2       | 1       | 1       | -     | 18       | 6           | 6       | 4       | 2    | 100        |  |  |
| Coronary disease, angina Hypertension with heart dis. Other heart disease Other circulatory disease                                    | 64          | (38)                       | 15 1 9 2  | 7 - 4 2 | 5 1 2   | 1 - 1 - | 2 - 2 - | -     | 9 5      | 11 - 2      | 4 - 2 1 | 7 - 42  |      | 1 1 1      |  |  |
| Pneumonia Bronchitis Other diseases of the respiratory system  | 45          | (33)                       | 15 8      | 3 3     | 8 3     | 2 1 -   | 2 1     | affor | 18       | 4 1         | 62      | 8 -     | 200  | 7 C. C.    |  |  |
| Ulcer of stomach and duodenum<br>Gastritis, enteritis &<br>diarrhoea   |             | 1                          | 1         | -       | - 1     |         |         |       | 1        | 3 -         |         | 1       |      |            |  |  |
| Nephritis and nephrosis<br>Hyperplasia of prostate<br>Other defined and illdef. dis.<br>Motor vehicle accidents<br>All other accidents |             | 1<br>2<br>8<br>1<br>- 3    | 1 2 4 - 1 | 1 2 7   | 1 2 -   |         | 11111   | 11111 | 4 1 2    | - 1         | - 2 - 2 | - 55    | - 11 | E E 10 1   |  |  |
|  |             | Bexle                      | у Но      | spi     | tal     |         |         |       |          |             |         |         |      |            |  |  |
| All causes   |             | 113                        | 39        | 17      | 13      | 7       | 2       | 100   | 74       | 15          | 33      | 20      | 6    | -          |  |  |
| Mal. neopl. lung, bronchus<br>Mal. neopl. breast<br>Other mal. & lym. neopl.   | 4           | (1)                        | 1 - 2     | 1 1     | 1       | - 2 -   |         |       | 1        |             |         | 1 1 2   | 1 -  | 230        |  |  |
| Diabetes   |             | 2                          | -         | -       | -       | -       | -       | -     | - 2      | 1           | -       | 1       | -    | 14         |  |  |
| Vasc.lesions of nerv.system  | 5           | 5                          | 5         | -       | -       | -       | -       | -     | 5        | - 65        | 4       | 1       | -    | 75         |  |  |
| Coronary disease, angina Hypertension with heart dis. Other heart disease Other circulatory disease                                    | 45          | ( 13<br>( 2<br>( 22<br>( 8 | 7 11 2    | 3 - 4 2 | 2 - 5 - | 1 - 2 - | 1       | 517 6 | 6 2 11 6 | 3 - 4 -     | 2 1 3 4 | 1 1 4 1 | 1    |            |  |  |
| Pneumonia Bronchitis Other diseases of the respiratory system  | 52          | ( 42<br>( 9<br>( 1         | 9 7       | 4 2 -   | 4       | 3 1 -   | 1       | 0     | 33<br>2  | 4 1 1       | 16      | 10 -    | 3 -  |            |  |  |
| Oth. def. & illdef.disease<br>All other accidents  |             | 4                          | -         | -       |         | 10.1    |         | -     | 4 1      | 1 -         | 1 1     | 1 -     | 1 -  | -          |  |  |

## TABLE VI - DEATHS BY QUARTER AND PLACE 1964 and 1965

From 1958 onwards only the deaths of persons who have been in Bexley Hospital for over six months are assigned to Dartford. To avoid distortion, hospital deaths are deducted from the Borough deaths each quarter to give the number of Town deaths.

| to give the number of T                      | own deaths.      |            |                  |            |             |
|--|------------------|------------|------------------|------------|-------------|
|  | 1st qr.          | 2nd qr.    |                  | 4th qr.    | Year        |
|  | 1964 1965        | 1964 1965  | 1964 1965        | 1964 1965  | 1964 1965   |
| Total deaths assigned                        |                  |            |                  |            |             |
| to Dartford Borough<br>by Registrar General. | 172 185          | 147 145    | 136 142          | 134 158    | 589 630     |
| the late of the                              | 0.62             | 11.00      |                  | 16.        | Barrier St. |
| Bexley hospital deaths                       | 36 59            | 39 42      | 36 44            | 29 42      | 140 187     |
| Town deaths                                  | 136 126          | 108 103    | 100 98           | 105 116    | 449 443     |
| Town deaths                                  | 1)0 120          | 100 10)    | 100 30           | 10) 110    | 447 447     |
| Number of deaths                             | 1st qr.          | 2nd qr.    | 3rd qr.          | 4th gr.    | Year        |
| Dartford Town 1961                           | 131              | 111        | 195              | 115        | 452         |
| 1962   | 122              | 121        | 87               | 98         | 428         |
| 1963   | 138              | 82         | 99               | 112        | 431         |
| 1964<br>1965                                 | 136<br>126       | 108        | 100<br>98        | 105<br>116 | 449<br>443  |
| Annahar L. Co.                               |                  | 3 3        | ,                |            | STORMOOK IX |
| Crude quarterly death r                      |                  | 2 2 20 30  | 200-11           | 3          |             |
| Dartford Town 1961<br>(Pop. of Dartford1962  | 11.5             | 9.8        | 8.4<br>7.8       | 10.1       | 9.9         |
| less about 2000)1963                         | 12.4             | 7.4        | 8.9              | 10.0       | 9.7         |
| 1964   | 12.2             | 9.7        | 9.0              | 9.4        | 10.1        |
| 1965   | 11.3             | 9.2        | 8.8              | 10.4       | 9.9         |
| England & Wales 1961                         | 15.6             | 10.9       | 9.5              | 11.9       | 12.0        |
| 1962   | 15.5             | 11.1       | 9.4              | 11.9       | 11.9        |
| 1963<br>1964                                 | 17.0             | 11.0       | 9.6              | 11.2       | 12.2        |
| 1965   | 13.3             | 10.9       | 9.9              | 11.9       | 11.5        |
| Town deaths at home, in                      |                  |            |                  |            |             |
| Town deaths at home, in                      | nospi vai a      | 1964       |                  |            |             |
| All ages                                     | M F              | MF         | M F M            | F Year     |             |
|  | 1 1969 36        | La des sie | 9 . 181 - 18     | 3 1        |             |
| Home   | 17 17            | 18 13 1    |                  | 17 122     |             |
| Hospital<br>Elsewhere                        | 49 50            | 42 35 4    | 1 31 31          | 43 322     |             |
| MIDOWING TO                                  |                  |            | 2                |            |             |
|  | 58 68            | 60 48 5    | 6 44 45          | 60 449     |             |
|  |                  |            |                  |            |             |
| Aged 75+                                     |                  |            |                  |            |             |
| Home   | 10 9             |            | 6 8 4            | 10 57      |             |
| Hospital<br>Elsewhere                        | 18 24            | 15 17 1    | 6 16 13          | 23 152     |             |
| na n     | 00 77            |            | 2 24 47          | 77 400     |             |
| Marion 12                                    | 28 33            | 20 22 2    | 2 24 17          | 33 199     |             |
| Deaths by place as % o                       | f all death      | 8.         |                  |            |             |
| \$000 1 NO                                   |                  | 196        | 4                |            |             |
| All ages                                     | MF               | M F        | M F              | M F        | Year        |
| Home   | 25% 25%          |            |                  |            | 27%         |
| Hospital<br>Elsewhere                        | 72% 73%<br>3% 2% |            | 73% 70%<br>1% 2% |            | 72%<br>1%   |
| 2250411020                                   |                  | 7          |                  |            | -           |
|  | 100% 100%        | 100% 100%  | 100% 100%        | 100% 100%  | 100%        |
| Aged 75+                                     |                  |            |                  |            |             |
| Home   | 36% 27%          | 25% 23%    | 23% 27%          | 73% 30%    | 29%         |
| Hospital                                     | 64% 73%          |            |                  |            | 71%         |
| Elsewhere                                    |                  |            |                  |            | -           |
|  | 100% 100%        | 100% 100%  | 100% 100%        | 100% 100%  | 100%        |
|  | 719              | - 31 -     | 199              | 02         | 2 63        |
|  |                  | - 12 W     |                  |            |             |

# TABLE VI - DEATHS BY QUARTER AND PLACE 1964 and 1965 (continued)

Town deaths at home, in hospital and elsewhere

|                               |     |               |               |     |               | 1             | 965 |          |               |       |               |               |          |    |
|-------------------------------|-----|---------------|---------------|-----|---------------|---------------|-----|----------|---------------|-------|---------------|---------------|----------|----|
|                               |     | 1st<br>M      | qr<br>F       | 136 | 2nd<br>M      | qr.           | EAS | Frd<br>M | qr.           | 6 7 E | 4th<br>M      | qr.           | Yea      | ır |
| All ages                      |     |               |               |     |               |               |     |          |               |       |               |               |          |    |
| Home<br>Hospital<br>Elsewhere |     | 20<br>47<br>1 | 19<br>38<br>1 |     | 14<br>38<br>2 | 15<br>34<br>- |     | 10 32    | 14<br>41<br>1 |       | 17<br>47<br>— | 10<br>41<br>1 | 11<br>31 | -  |
|                               |     | 68            | 58            |     | 54            | 49            |     | 42       | 56            |       | 64            | 52            | 44       | 13 |
| Aged 75+                      |     |               |               |     |               |               |     |          |               |       |               |               |          |    |
| Home<br>Hospital<br>Elsewhere |     | 8<br>13<br>-  | 8<br>21<br>-  |     | 6 10 -        | 7<br>15<br>-  |     | 13       | 3<br>17<br>-  |       | 5<br>15<br>-  | 4 22 1        | 12       | 16 |
| Dootho by place               | 8.8 | 21            | 29            |     | 16            | 22            |     | 18       | 20            |       | 20            | 27            | 17       | 13 |

Deaths by placeas % of all deaths.

| -   | -  |   |    |   |     |
|-----|----|---|----|---|-----|
| A 7 | Э. | ~ | m  | ~ | 478 |
| Al  | -  | а | æ. | е | æ   |
|     | -  | - | 0  | - | ~   |

| Home<br>Hospital<br>Elsewhere | 30%<br>69%<br>1% | 33%<br>65%<br>2% | 26%<br>70%<br>4% | 30%<br>70% | 24%<br>76% | 25%<br>73%<br>2% | 27%<br>73% | 19%<br>79%<br>2% | 27%<br>72%<br>1% |
|-------------------------------|------------------|------------------|------------------|------------|------------|------------------|------------|------------------|------------------|
|                               | 100%             | 100%             | 100%             | 100%       | 100%       | 100%             | 100%       | 100%             | 100%             |
| Aged 75+                      |                  |                  |                  |            |            |                  |            |                  |                  |
| Home<br>Hospital<br>Elsewhere | 38%<br>62%       | 28%<br>72%       | 37%<br>63%       | 32%<br>68% | 28%<br>72% | 15%<br>85%       | 25%<br>75% | 15%<br>81%<br>4  | 26%<br>73%<br>1% |
|                               | 100%             | 100%             | 100%             | 100%       | 100%       | 100%             | 100%       | 100%             | 100%             |

Deaths in hospital as % of all deaths.

|              | Dartford<br>All ages | Town<br>75+ | Dartford<br>All ages |            | Northfleet<br>All ages | U.D.<br>75+ |
|--------------|----------------------|-------------|----------------------|------------|------------------------|-------------|
| 1964<br>1965 | 72%<br>72%           | 71%<br>73%  | 65%<br>63%           | 66%<br>58% | 55%<br>47%             | 48%         |
| 1966         |                      |             |                      |            | 51%                    | 43%         |

Deaths at ages of 65 and over as % of deaths at all ages.

|                      | Dartford   | Town       | Dartford          | R.D.              | Northflee         | t U.D.            | England    | & Wales    |
|----------------------|------------|------------|-------------------|-------------------|-------------------|-------------------|------------|------------|
| Aged                 | 65-74      | 75+        | 65-74             | 75+               | 65-74             | 75+               | 65-74      | 75+        |
| 1964<br>1965<br>1966 | 25%<br>26% | 44%<br>40% | 24%<br>23%<br>24% | 45%<br>45%<br>43% | 26%<br>28%<br>26% | 36%<br>39%<br>38% | 25%<br>26% | 42%<br>43% |

# TABLE VIIA - MAIN CAUSES OF DEATH BY MONTH AND QUARTER - 1964 (Compiled locally)

(a) TOWN

| Month<br>registered | All<br>causes    | Main<br>causes | Other causes | Circ.<br>disease              |        | other | Vasc.Les.<br>C.N.S. | Resp.  |
|---------------------|------------------|----------------|--------------|-------------------------------|--------|-------|---------------------|--|
| Aged under 75       | ZP/MO            | Smill or       | 20075        | sesung 1                      | INLUAD | pouns | 0 5                 | STATULES!  |
| January             | 25               | 21             | 4            | 7                             | 5      | 8     | - 51.2              | 1  |
| February            | 28               | 21             | 7            | 8                             | 2      | 2     | 2                   | 7  |
| March               | 22               | 20             | 2            | 7                             | 1      | 6     | 3                   | 3  |
| 1st. qtr.           | 75               | 62             | 13           | 22                            | 8      | 16    | 5                   | 11   |
| April               | 22               | 18             | 4            | 10                            | - 1    | 2     | 1                   | 4  |
| May                 | 24               | 15<br>17       | 5            | 9                             | 2      | 2     | 3                   | 2  |
| 2nd. qtr.           | 66               | 50             | 16           | 30                            | 3      | 5     | 5                   | 7  |
| July                | 16               | 13             | 3            | 6                             | 1      | 4     | 2                   | with   |
| August              | 21               | 15             | 6            | 6                             | -      | 3     | 4                   | 2  |
| September           | 17               | 15             | 2            | 6                             | 2      | 3     | 3                   | 1  |
| 3rd. qtr.           | 54               | 43             | 11           | 18                            | 3      | 10    | 9                   | 3  |
| October             | 23               | 18             | 5            | 10                            | 4      | - 15  | 2                   | 2  |
| November            | 16               | 13             | 3            | 4                             | 4      | 3     | -                   | 2  |
| December            | 16               | 14             | 2            | 7                             | -      | 3     | 3                   | 1  |
| 4th qtr.            | 55               | 45             | 10           | 21                            | 8      | 6     | 5                   | 5  |
| Year                | 250              | 200            | 50           | 91                            | 22     | 37    | 24                  | 26   |
| Aged over 75        |                  |                |              | 5.3                           |        |       | 51 28               |  |
| January             | 25               | 23             | 2            | 6                             | 1      | 5     | 6                   | 5  |
| February            | 16               | 14             | 2            | 6                             | -      | 3     |                     | 5 2  |
| March<br>1st qtr.   |                  | 18             | 6            | 10                            |        | 12    | 8                   | 12   |
|                     |                  | 55             | 0            | Marine Statement or Statement |        |       |                     |  |
| April               | 17               | 16             | 1            | 5                             | 2      | 1 01  | 2 2                 | 6  |
| May<br>June         | 18               | 15             | 3            | 7                             | -      | 1     | 5                   | 2 2  |
| 2nd qtr.            | 42               | 37             | 5            | 12                            | 4      | 2     | 9                   | 10   |
| July                | 15               | - 13           | 2            | 4                             | -      | 1     | 5                   | 3  |
| August              | 16               | 14             | 2            | 7                             | -      | 3     | 2                   | 2  |
| September           | 15               | 14             | 1            | 8                             | 11-    | 3     | 2 2                 | 1  |
| 3rd qtr.            | 46               | 41             | 5            | 19                            | -      | 7     | 9                   | 6  |
| October             | 17               | 17             | -            | 11                            | 2      | 1     | 1                   | 2  |
| November            | 13               | 12             | 1            | 3                             | -      | 2     | 2                   | 5 4  |
| December            | _ 20             | 17             | 3            | 10                            |        | 1     | 2                   |  |
| 4th qtr.            | - 50             | 46             | 4            | 24                            | 2      | 4     | 5                   | 11   |
| Year                | 199              | 179            | 20           | 77                            | 7      | 25    | 31                  | 39   |
| All ages            | 10               | 110            | alte         | 8.4                           | SE,    | - 24  |                     |  |
| January             | 50               | 44             | 6            | 13                            | 6 2    | 13    | 6 2                 | 6  |
| February<br>March   | 44<br>12         | 35<br>38       | 9            | 14                            | 1      | 10    | 5                   | 12   |
| 1st qtr.            | 136              | 117            | 19           | 44                            | 9      | 28    | 13                  | 23   |
|                     |                  |                |              |                               |        |       |                     | THE RESIDENCE OF THE PARTY OF T |
| April<br>May        | 39<br>27         | 34             | 5            | 15<br>11                      | 3 2    | 3     | 3                   | 10   |
| June                | 42               | 32             | 10           | 16                            | 2      | 3     | 3 8                 | 4 3  |
| 2nd qtr.            | 108              | 87             | 21           | 42                            | 7      | 7     | 14                  | 17   |
| July                | 31               | 26             | 5            | 10                            | 1      | 5     | 7                   | 3  |
| August              | 37               | 29             | 8            | 13                            | 95.    | 6     | 6                   | 4  |
| September           | 32               | 29             | 3            | 14                            | 2      | 6     | 5                   | 2  |
| 3rd qtr.            | 100              | 84             | 16           | 37                            | 3      | 17    | 18                  | 9  |
| October             | 40               | 35             | 5            | 21                            | 6      | 1 3   | 3                   | 4  |
| November            | 29               | 25             | 4            | 7                             | 4      | 5     | _ 2                 | 7  |
| December            | <u>36</u><br>105 | 31<br>91       | 14           | 17<br>45                      | 10     | 10    | 5<br>10             | 5<br>16  |
| 4th qtr.            |                  |                |              |                               | -      |       |                     |  |
| Year                | 449              | 379            | 70           | 168                           | 29     | 62    | 55                  | 65   |

# TABLE VIIB -MAIN CAUSES OF DEATH BY MONTH AND QUARTER - 1965

(Compiled locally)

(a) TOWN

| Toolson Month  | Ionth    | All  | Main | Other | Circ.  | Cancer                   | Vasc.les. Resp. |
|--|----------|------|------|-------|--|--------------------------|-----------------|
| Sed under 75   |          |      |      |       |  |                          |                 |
| February   23   20   3   8   2   4   1   5   |          |      |      |       |  |                          | 4100000         |
| February         23         20         3         8         2         4         1         5           March         25         17         8         4         2         3         5           1st qtr.         75         56         17         20         5         10         6         15           April         22         19         3         9         1         4         -         5           May         18         18         -         8         3         4         2         1           June         25         14         11         6         4         2         2         -           August         12         12         -         8         1         2         1         -         5           August         12         12         -         8         1         2         1         -         4         4         2         2         -           September         28         19         9         8         2         4         4         1         2         1         -         -         -         5         2         -         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td>1 3</td><td>2 5</td></t<>   |          |      |      |       |  | 1 3                      | 2 5             |
| 1st qtr.   73   56   17   20   5   10   6   15   |          |      |      |       | 8  | 2 4                      | 1 5             |
| April 22 19 3 9 1 4 - 5 May 18 18 18 - 8 3 4 2 1 June 25 14 11 6 4 2 2 - 2nd qtr. 65 51 14 25 8 10 4 6  July 21 15 6 7 - 5 3 - August 12 12 - 8 1 2 1 - September 28 19 9 8 2 4 4 1  3rd qtr. 61 46 15 25 5 11 8 1  October 24 19 5 7 1 6 3 2  November 19 11 8 4 1 2 1 3  Qtan 4 1 2 1 3 4 4 5 3  Aged over 75  January 20 18 2 8 - 3 7  February 17 15 2 6 3 7  February 17 15 2 6 3 7  April 12 11 11 1 3 - 3 3 2 2  May 10 9 1 3 1 1 - 4  April 12 11 1 1 3 - 3 3 2 2  May 10 9 1 3 1 1 - 4  April 12 11 1 1 3 - 3 3 2 2  May 10 9 1 3 1 1 - 4  June 16 15 1 10 2 3  August 15 1 5 1 10 2 3  August 15 15 1 10 2 3  Aged over 75  January 17 15 2 6 3 7  April 1 2 11 1 1 3 - 3 3 2 2  May 10 9 1 3 1 1 - 4  June 16 15 1 10 2 3  Znd qtr. 38 35 5 16 1 4 5 9  July 13 13 - 6 - 4 1 2  August 15 15 15 - 4 - 3 4 2  September 19 14 4 5 6 5 5  August 15 15 15 - 2 4  November 16 11 4 5 5 9  July 13 13 - 6 - 4 1 2  August 15 15 15 - 2 4  November 16 11 4 5 9  July 13 13 14 - 6 - 4 1 2  August 15 15 15 - 2 4 - 3 4  November 16 11 4 5 5 5 - 2 4  August 15 15 15 - 2 4  August 15 15 1 10 1 - 2 5  September 19 14 5 1 10 7 7 4  October 16 11 5 5 5 - 2 4  August 15 15 15 - 2 4 - 3 4 2  September 19 14 5 6 - 5 5  August 15 15 15 - 2 5 5  August 15 15 15 - 2 5 5  August 15 15 1 10 10 7 4  October 16 11 5 5 5 - 2 4 4  November 15 12 1 5 5 - 2 4  August 15 15 15 - 2 5 5 5  August 15 15 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 3 5 5  August 15 15 15 10 10 3 5 5  August 15 15 15 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 3 5 5  August 15 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10 |          |      |      |       |  | The second second second | 3 5             |
| May June         18   18   18   -8   3   4   2   2   2   2   2   2   2   2   2   | 1st qtr. |      | 56   | 17    | 20   | 5 10                     | 6 15            |
| May June         18         18         -         B         3         4         2         1           June         25         14         11         6         4         2         2           August         12         12         12         8         10         4         6           July         21         15         6         7         -         5         3         -           August         12         12         2         8         1         2         1         -           October         28         19         9         8         2         4         4         1           November         19         11         8         7         1         6         3         2           November         19         11         8         7         1         6         3         2           November         19         11         8         7         1         6         3         2           November         19         11         8         7         11         -         4         1         2         1         3         2         2         4 <td>April</td> <td>22</td> <td>19</td> <td>3</td> <td>9</td> <td>1 4</td> <td>- 5</td>  | April    | 22   | 19   | 3     | 9  | 1 4                      | - 5             |
| 2nd qtr. 65 51 14 23 8 10 4 6  July 21 15 6 7 - 5 3 -  September 28 19 9 8 2 4 4 1  3rd qtr. 61 46 15 23 3 11 8 1  October 24 19 5 7 1 6 3 2  November 19 11 8 4 1 2 1 2 1  December 25 18 7 11 - 4 - 3  4th qtr. 68 48 20 22 2 12 4 8  Year 267 201 66 86 18 43 22 30  Aged over 75  January 20 18 2 8 - 3 7  February 17 15 2 6 - 3 5 3  January 16 14 2 6 1 - 7 7  1st qtr. 53 47 6 20 1 - 6 20  April 12 11 1 3 - 3 3 2  April 12 11 1 3 - 3 3 2  May 10 9 1 3 1 1 - 4  June 16 15 1 10 - 2 3  July 13 13 - 6 - 4 1 2  August 13 14 - 3 4 - 3 4 2  September 15 1 10 1 4 1 3 2 - 5 3  Ath qtr. 48 37 11 14 - 3 8 12  Year 176 155 21 64 3 17 26 45  April 34 5 6 - 5 3  Ath dtr. 48 37 11 14 - 5 5 3  Ath dtr. 48 37 11 14 - 5 5 5  June 41 31 10 10 3 3 3 12  Int qtr. 48 37 11 14 - 5 5 5  June 41 31 10 10 3 3 3 12  Int qtr. 48 37 11 14 - 5 5 5  June 41 31 10 10 3 3 3 3 12  Int qtr. 48 37 11 14 - 5 5 5  June 41 31 10 10 3 3 3 3 12  Int qtr. 48 37 11 14 - 5 5 5  June 41 31 10 10 3 3 3 3 12  Int qtr. 48 37 11 14 - 5 5 5  June 41 31 10 10 3 3 3 3 12  Int qtr. 126 103 86 17 39 9 14 9 15  July 34 28 6 13 - 9 4 2  September 39 29 10 12 5 7 6 1 1  July 34 28 6 13 - 9 4 2  September 40 30 10 12 1 6 5 6  November 52 23 9 7 1 5 5 2  September 40 30 10 12 1 6 5 6  November 52 23 9 7 1 5 5 6  Ath dth qtr. 116 85 51 36 2 15 12 20   |          | 18   |      | 2 17  |  |                          |                 |
| July         21         15         6         7         -         5         3         -           August         12         12         12         -         8         1         2         1           September         28         19         9         8         2         4         4         1           Gotober         24         19         5         7         1         6         3         2           Hovember         19         11         8         4         1         2         1         3         2           December         25         18         7         11         -         4         -         3         4           Year         267         201         66         88         18         43         22         30           Aged over 75         January         20         18         2         8         -         -         3         7           February         17         15         2         6         -         -         3         6           April         12         11         1         3         1         1         -         -   |          |      |      | 11    | The second secon | 4 2                      | 2 -             |
| August         12         12         -         8         1         2         1           3rd qtr.         61         46         15         23         5         11         8         1           October         24         19         5         7         1         6         3         2           November         19         11         8         4         1         2         1         3           4th qtr.         68         48         20         22         2         12         4         8           Year         267         201         66         88         18         43         22         30           Aged over 75         January         20         18         2         8         -         -         3         7           February         17         15         2         6         -         -         3         7           Perruary         17         15         2         6         -         -         3         7           January         10         9         1         3         -         3         3         2           April   | 2nd qtr. | 65   | 51   | 14    | 23   | 8 10                     | 4 6             |
| August         12         12         -         8         1         2         1           3rd qtr.         61         46         15         23         5         11         8         1           October         24         19         5         7         1         6         3         2           November         19         11         8         4         1         2         1         3           4th qtr.         68         48         20         22         2         12         4         8           Year         267         201         66         88         18         43         22         30           Aged over 75         January         20         18         2         8         -         -         3         7           February         17         15         2         6         -         -         3         7           Perruary         17         15         2         6         -         -         3         7           January         10         9         1         3         -         3         3         2           April   | July     | 21   | 15   | 6     | 7  | - 5                      | 3 -             |
| September         28         19         9         8         2         4         4         1           October         24         19         5         7         1         6         3         2           November         19         11         8         4         1         2         1         3           December         25         18         7         11         -         4         -         3           Ath qtr.         68         48         20         22         2         12         4         8           Year         267         201         66         88         18         43         22         30           Aged over 75         January         16         48         2         8         -         -         3         7           February         17         15         2         6         -         -         3         7           February         17         15         2         6         -         -         3         7           Istagram         10         9         1         3         -         3         7           Januar  |          |      |      | -     |  |                          | 1               |
| 3rd qtr.         61         46         15         23         3         11         8         1           October         24         19         5         7         1         6         3         2           November         19         11         8         4         1         2         1         5           December         25         18         7         11         -         4         -         3           4th qtr.         68         48         20         22         2         12         4         6           Year         267         201         66         88         18         45         22         30           Aged over 75         January         20         18         2         8         -         -         3         6           March         16         14         2         6         1         -         -         7           1st qtr.         53         47         6         20         1         -         6         20           April         12         11         1         3         -         3         1         1         - <t< td=""><td></td><td>28</td><td>19</td><td>9</td><td></td><td></td><td>4 1</td></t<>   |          | 28   | 19   | 9     |  |                          | 4 1             |
| November   19  |          | 61   | 46   | 15    | 23   |                          | 8 1             |
| November   19  | October  | 24   | 19   | 5     | 7  | 1 6                      | 3 2             |
| December   |          |      |      |       |  |                          |                 |
| 4th qtr.         68         48         20         22         2         12         4         8           Year         267         201         66         88         18         43         22         30           Aged over 75 January         January         17         15         2         6         -         -         3         6           March         16         14         2         6         -         -         3         6           March         16         14         2         6         1         -         -         7           1st qtr.         53         47         6         20         1         -         6         20           April         12         11         1         3         -         3         3         2           May         10         9         1         3         1         1         -         4         2         3         2           July         13         13         -         6         -         4         1         2         2         4         4         3         2         -         4         4         2   |          |      |      | 7     |  |                          |                 |
| Aged over 75   |          |      |      | 20    |  |                          |                 |
| Aged over 75   | Year     | 267  | 201  | 66    | 88   | 18 43                    | 22 30           |
| January   17   15   2   6   -   3   7  |          |      |      |       |  | 1/2                      |                 |
| February         17         15         2         6         -         3         6           March         16         14         2         6         1         -         -         3         6           1st qtr.         53         47         6         20         1         -         6         20           April         12         11         1         3         -         3         3         2           May         10         9         1         3         1         1         -         4           June         16         15         1         10         -         -         2         3           2nd qtr.         38         35         3         16         1         4         5         9           July         13         13         -         6         -         4         1         2           August         13         13         -         4         -         3         4         2           September         11         10         1         4         1         3         2         -           August         15         12 <td>January</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3 7</td>  | January  |      |      |       |  |                          | 3 7             |
| April 12 11 1 3 - 6 20  April 12 11 1 3 - 3 3 2 2  May 10 9 1 3 1 1 - 4  June 16 15 1 10 - 2 3  2nd qtr. 38 35 3 16 1 4 5 9  July 13 13 - 6 - 4 1 2  August 13 13 - 4 - 3 4 2  September 11 10 1 4 1 3 2 - 3  3rd qtr. 37 36 1 14 1 10 7 4  October 16 11 5 5 - 2 4  November 13 12 1 3 3 - 3 1 5  December 19 14 5 6 - 5 3  4th qtr. 48 37 11 14 - 3 8 12  Year 176 155 21 64 3 17 26 45  All ages  January 45 37 8 16 1 3 5 12  Year 176 155 21 64 3 17 26 45  All ages  January 40 35 5 14 2 4 4 11  March 41 31 10 10 3 3 3 3 12  1st qtr. 126 103 23 40 6 10 12 35  April 34 30 4 12 1 7 3 7  April 34 36 6 17 39 9 14 9 15  July 34 28 6 13 - 9 4 2  September 39 29 10 12 3 7 6 1  September 39 29 10 12 3 7 6 1  November 39 29 10 12 3 7 6 1  November 32 23 9 7 7 1 1 5 2 8  December 44 32 12 17 - 4 5 6  Ath qtr. 116 85 31 36 2 15 12 20  | February |      |      |       |  | Se ou Bu                 |                 |
| April 12 11 1 3 - 3 5 2 May 10 9 1 3 1 1 - 4 4 June 16 15 1 10 2 3 2 2 3 2 1 4 1 5 9 1 1 2 3 1 1 1 - 4 4 1 2 3 2 2 3 3 1 6 1 1 4 5 9 9 1 1 3 1 5 - 6 - 4 1 1 2 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1   |          |      |      |       | THE RESERVE AND ADDRESS OF THE PERSON NAMED IN   | 1 -                      |                 |
| May         10         9         1         3         1         1         -         4           June         16         15         1         10         -         -         2         3           2nd qtr.         38         35         3         16         1         4         5         9           July         13         13         -         6         -         4         1         2           August         13         13         -         6         -         4         1         2           September         11         10         1         4         -         3         4         2           September         11         10         1         4         1         3         2         -           3rd qtr.         37         36         1         14         1         10         7         4           October         16         11         5         5         -         -         2         4           November         13         12         1         3         -         3         1         5           December         49 <t< td=""><td>1st qtr.</td><td>53</td><td>47</td><td>6</td><td>20</td><td>1</td><td>6 20</td></t<>  | 1st qtr. | 53   | 47   | 6     | 20   | 1                        | 6 20            |
| June         16         15         1         10         -         2         3           2nd qtr.         38         35         3         16         1         4         5         9           July         13         13         -         6         -         4         1         2           August         13         13         -         4         -         3         4         2           September         11         10         1         4         1         3         2         -           3rd qtr.         37         36         1         14         1         10         7         4           October         16         11         5         5         -         -         2         4           November         13         12         1         3         -         3         1         5           December         19         14         5         6         -         -         5         3           4th qtr.         48         37         11         14         -         3         8         12           Year         176         155  | April    |      |      | 1     | 3  | - 3                      | 3 2             |
| 2nd qtr.       38       35       3       16       1       4       5       9         July       13       13       -       6       -       4       1       2         August       13       13       -       4       -       3       4       2         September       11       10       1       4       1       3       2       -         3rd qtr.       37       36       1       14       1       10       7       4         October       16       11       5       5       -       -       2       4         November       13       12       1       3       -       3       1       5         December       19       14       5       6       -       -       5       3       1       5         December       19       14       5       6       -       -       5       3       1       4       1       4       1       4       1       4       1       4       1       4       1       4       1       4       1       4       1       4       1       4  |          |      |      | 100   |  | 1 1                      | - 4             |
| July         13         13         -         6         -         4         1         2           August         13         13         -         4         -         3         4         2           September         11         10         1         4         1         3         2         -           3rd qtr.         37         36         1         14         1         10         7         4           October         16         11         5         5         -         -         2         4           November         13         12         1         3         -         3         1         5           December         19         14         5         6         -         -         5         3           4th qtr.         48         37         11         14         -         3         8         12           Year         176         155         21         64         3         17         26         45           All ages         January         45         37         8         16         1         3         5         12           Febr   |          |      | 15   | 1     | 10   |                          |                 |
| August 13 13 - 4 - 3 4 2 September 11 10 1 4 1 3 2 - 3rd qtr. 37 36 1 14 1 10 7 4  October 16 11 5 5 2 4  November 13 12 1 3 - 3 1 5  December 19 14 5 6 5 3  4th qtr. 48 37 11 14 - 3 8 12  Year 176 155 21 64 3 17 26 45  All ages January 45 37 8 16 1 3 5 12  February 40 35 5 14 2 4 4 11  March 41 31 10 10 3 3 5 12  Tebruary 40 35 5 14 2 4 4 11  March 41 31 10 10 3 5 5 12  April 34 30 4 12 1 7 3 7  May 28 27 1 11 4 5 5 2 5  June 41 29 12 16 4 2 4 3  2nd qtr. 103 86 17 39 9 14 9 15  July 34 28 6 13 - 9 4 2  August 25 25 - 12 16 37 4 2 15 5  October 40 30 10 12 3 7 6 1  September 39 29 10 12 3 7 6 1  November 32 23 9 7 1 5 2 8  December 44 32 12 17 - 4 5 6  November 32 23 9 7 1 5 2 8  December 44 32 12 17 - 4 5 6  Ath qtr. 116 85 31 36 2 15 12  | 2nd qtr. | 38   | 35   | 3     | 16   | 1 4                      | 5 9             |
| August 13 13 - 4 - 3 4 2 September 11 10 1 4 1 3 2 - 3rd qtr. 37 36 1 14 1 10 7 4  October 16 11 5 5 2 4  November 13 12 1 3 - 3 1 5  December 19 14 5 6 5 3  4th qtr. 48 37 11 14 - 3 8 12  Year 176 155 21 64 3 17 26 45  All ages January 45 37 8 16 1 3 5 12  February 40 35 5 14 2 4 4 11  March 41 31 10 10 3 3 5 12  Tebruary 40 35 5 14 2 4 4 11  March 41 31 10 10 3 5 5 12  April 34 30 4 12 1 7 3 7  May 28 27 1 11 4 5 5 2 5  June 41 29 12 16 4 2 4 3  2nd qtr. 103 86 17 39 9 14 9 15  July 34 28 6 13 - 9 4 2  August 25 25 - 12 16 37 4 2 15 5  October 40 30 10 12 3 7 6 1  September 39 29 10 12 3 7 6 1  November 32 23 9 7 1 5 2 8  December 44 32 12 17 - 4 5 6  November 32 23 9 7 1 5 2 8  December 44 32 12 17 - 4 5 6  Ath qtr. 116 85 31 36 2 15 12  | July     | 13   | 13   |       | 6  | - 4                      | 1 2             |
| September         11         10         1         4         1         3         2         -           3rd qtr.         37         36         1         14         1         10         7         4           October         16         11         5         5         -         -         2         4           November         13         12         1         3         -         3         1         5           December         19         14         5         6         -         -         5         3           4th qtr.         48         37         11         14         -         3         8         12           Year         176         155         21         64         3         17         26         45           All ages         January         45         37         8         16         1         3         5         12           February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12  |          |      |      | 10-   |  |                          |                 |
| October         16         11         5         5         -         2         4           November         13         12         1         3         -         3         1         5           December         19         14         5         6         -         -         5         3           4th qtr.         48         37         11         14         -         3         8         12           Year         176         155         21         64         3         17         26         45           All ages         January         45         37         8         16         1         3         5         12           February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12           February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12           February  |          |      |      | 1     | 4  | 1 3                      | 2               |
| November         13         12         1         3         -         3         1         5           December         19         14         5         6         -         -         5         3           4th qtr.         48         37         11         14         -         3         8         12           Year         176         155         21         64         3         17         26         45           All ages         January         45         37         8         16         1         3         5         12           February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12           February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12           February         40         35         5         14         2         4         4         11         4  | 3rd qtr. | _ 37 | 36   | 1     | 14   | 1 10                     | 7 4             |
| November         13         12         1         3         -         3         1         5           December         19         14         5         6         -         -         5         3           4th qtr.         48         37         11         14         -         3         8         12           Year         176         155         21         64         3         17         26         45           All ages         January         45         37         8         16         1         3         5         12           February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12           February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12           February         40         35         5         14         2         4         4         11         4  | October  | 16   | 11   | 5     | 5  | all some Show            | 2 4             |
| 4th qtr.       48       37       11       14       -       3       8       12         Year       176       155       21       64       3       17       26       45         All ages       January       45       37       8       16       1       3       5       12         February       40       35       5       14       2       4       4       11         March       41       31       10       10       3       3       3       12         Ist qtr.       126       103       23       40       6       10       12       35         April       34       30       4       12       1       7       3       7         May       28       27       1       11       4       5       2       5         June       41       29       12       16       4       2       4       3         2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2 <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>- 3</td> <td></td>  |          |      |      | 1     |  | - 3                      |                 |
| Year         176         155         21         64         3         17         26         45           All ages         January         45         37         8         16         1         3         5         12           February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12           1st qtr.         126         103         23         40         6         10         12         35           April         34         30         4         12         1         7         3         7           May         28         27         1         11         4         5         2         5           June         41         29         12         16         4         2         4         3           2nd qtr.         103         86         17         39         9         14         9         15           July         34         28         6         13         -         9         4         2  |          |      |      | 5     | 6  | 51 2                     | 5 3             |
| All ages         January       45       37       8       16       1       3       5       12         February       40       35       5       14       2       4       4       11         March       41       31       10       10       3       3       3       12         1st qtr.       126       103       23       40       6       10       12       35         April       34       30       4       12       1       7       3       7         May       28       27       1       11       4       5       2       5         June       41       29       12       16       4       2       4       3         2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1  |          |      |      | 11    | The second division in the latest devices the latest devices and the latest devices devices and the latest devices | - 3                      | 8 12            |
| All ages         January       45       37       8       16       1       3       5       12         February       40       35       5       14       2       4       4       11         March       41       31       10       10       3       3       3       12         1st qtr.       126       103       23       40       6       10       12       35         April       34       30       4       12       1       7       3       7         May       28       27       1       11       4       5       2       5         June       41       29       12       16       4       2       4       3         2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       2       -       12       1       5       5       2         September       39       29       10       12       3       7       6  |          | 176  | 155  | 21    | 64   | 3 17                     | 26 45           |
| January       45       37       8       16       1       3       5       12         February       40       35       5       14       2       4       4       11         March       41       31       10       10       3       3       3       12         1st qtr.       126       103       23       40       6       10       12       35         April       34       30       4       12       1       7       3       7         May       28       27       1       11       4       5       2       5         June       41       29       12       16       4       2       4       3         2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1         3rd qtr.  |          |      |      |       |  |                          |                 |
| February         40         35         5         14         2         4         4         11           March         41         31         10         10         3         3         3         12           1st qtr.         126         103         23         40         6         10         12         35           April         34         30         4         12         1         7         3         7           May         28         27         1         11         4         5         2         5           June         41         29         12         16         4         2         4         3           2nd qtr.         103         86         17         39         9         14         9         15           July         34         28         6         13         -         9         4         2           August         25         25         -         12         1         5         5         2           September         39         29         10         12         3         7         6         1           3rd qtr.         98   |          | 45   | 37   | 8     | 16   | 1 3                      | 5 12            |
| March       41       31       10       10       3       3       3       12         1st qtr.       126       103       23       40       6       10       12       35         April       34       30       4       12       1       7       3       7         May       28       27       1       11       4       5       2       5         June       41       29       12       16       4       2       4       3         2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1         3rd qtr.       98       82       16       37       4       21       15       5         October       40       30       10       12       1       6       5       6 <t< td=""><td></td><td></td><td>35</td><td>5</td><td></td><td></td><td></td></t<>  |          |      | 35   | 5     |  |                          |                 |
| 1st qtr.       126       103       23       40       6       10       12       35         April       34       30       4       12       1       7       3       7         May       28       27       1       11       4       5       2       5         June       41       29       12       16       4       2       4       3         2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1         3rd qtr.       98       82       16       37       4       21       15       5         0ctober       40       30       10       12       1       6       5       6         November       32       23       9       7       1       5       2       8         December  |          | 41   | 31   | 10    | 10   | 3 3                      | 3 12            |
| May       28       27       1       11       4       5       2       5         June       41       29       12       16       4       2       4       3         2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1         3rd qtr.       98       82       16       37       4       21       15       5         October       40       30       10       12       1       6       5       6         November       32       23       9       7       1       5       2       8         December       44       32       12       17       -       4       5       6         4th qtr.       116       85       31       36       2       15       12       20  | 1st qtr. |      | 103  | 23    |  | 6 10                     | 12 35           |
| May       28       27       1       11       4       5       2       5         June       41       29       12       16       4       2       4       3         2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1         3rd qtr.       98       82       16       37       4       21       15       5         October       40       30       10       12       1       6       5       6         November       32       23       9       7       1       5       2       8         December       44       32       12       17       -       4       5       6         4th qtr.       116       85       31       36       2       15       12       20  | April    | 34   | 30   | 4     | 12   | 1 7                      | 3 7             |
| 2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1         3rd qtr.       98       82       16       37       4       21       15       5         October       40       30       10       12       1       6       5       6         November       32       23       9       7       1       5       2       8         December       44       32       12       17       -       4       5       6         4th qtr.       116       85       31       36       2       15       12       20  |          |      |      | 61    |  |                          | 2 5             |
| 2nd qtr.       103       86       17       39       9       14       9       15         July       34       28       6       13       -       9       4       2         August       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1         3rd qtr.       98       82       16       37       4       21       15       5         October       40       30       10       12       1       6       5       6         November       32       23       9       7       1       5       2       8         December       44       32       12       17       -       4       5       6         4th qtr.       116       85       31       36       2       15       12       20  |          | 41   | 29   |       | 16   |                          | 4 3             |
| August       25       25       -       12       1       5       5       2         September       39       29       10       12       3       7       6       1         3rd qtr.       98       82       16       37       4       21       15       5         October       40       30       10       12       1       6       5       6         November       32       23       9       7       1       5       2       8         December       44       32       12       17       -       4       5       6         4th qtr.       116       85       31       36       2       15       12       20  |          |      |      |       |  |                          | 9 15            |
| 3rd qtr.     98     82     16     37     4     21     15     5       October     40     30     10     12     1     6     5     6       November     32     23     9     7     1     5     2     8       December     44     32     12     17     -     4     5     6       4th qtr.     116     85     31     36     2     15     12     20  |          |      |      | 6     |  |                          | 4 2             |
| 3rd qtr.     98     82     16     37     4     21     15     5       October     40     30     10     12     1     6     5     6       November     32     23     9     7     1     5     2     8       December     44     32     12     17     -     4     5     6       4th qtr.     116     85     31     36     2     15     12     20  |          | 25   |      | 95    |  | 1 5                      | 5 2             |
| October       40       30       10       12       1       6       5       6         November       32       23       9       7       1       5       2       8         December       44       32       12       17       -       4       5       6         4th qtr.       116       85       31       36       2       15       12       20   |          |      |      |       |  |                          | 6 1             |
| 4th qtr. 116 85 31 36 2 15 12 20   |          |      |      |       |  |                          |                 |
| 4th qtr. 116 85 31 36 2 15 12 20   |          |      |      |       |  |                          | 5               |
| 4th qtr. 116 85 31 36 2 15 12 20   |          |      |      |       |  | 3                        | 5 6             |
| A SA   |          |      |      |       |  |                          |                 |
| Year 443 356 87 152 21 60 48 75  | 3.9      | 750  | LA F | 100   |  |                          |                 |
|  | Year     | 443  | 356  | 87    | 152  | 21 60                    | 48 75           |

- 34 -

# TABLE VIIC - MAIN CAUSES OF DEATH BY MONTH AND QUARTER - 1964

(Compiled locally)

# (b) BEXLEY HOSPITAL

| Caucas            | CRUDSO   | (p)                | BEXLEY HO |         | JOST    | VARC.       | The Party of the P |                   |
|-------------------|----------|--------------------|-----------|---------|---------|-------------|--|-------------------|
| Month             | All      | Main               | Other     | Circ.   | Cano    | er<br>Other | Vasc.les   |                   |
| registered        | causes   | causes             | causes    | disease | Lung    | Other       | C.N.S.   | disease           |
| Aged under 75     |          |                    |           |         |         |             |  |                   |
| January           | 11       | 11                 | 21-124    | 3       | 13 - 10 | 3           | 10 -1 P.   | 5                 |
| February          | 2        | 1                  | 1         | -       | -       | -977        | -  | Stanfal.          |
| March             | _ 5      | 5                  | 27-17     | 2       | -       | - 1000      | 2  | 1                 |
| 1st qtr.          | 18       | 17                 | 1         | 5       | -       | 3           | 2  | 7                 |
| April             | 7        | 6                  | 1         | 3       |         | - 194       | - 1343   | 3                 |
| May               | 7        | 5                  | 2         | - 2     | 1-      | - 3         | -  | 3                 |
| June              | 5        | 4                  | 1         | 2       | -       | -8          | 2  | -                 |
| 2nd qtr.          | 19       | 15                 | 4         | 7       | -       | -           | 2  | 6                 |
| July              | 11       | 9                  | 2         | 5       | ~1      | 1           | 1  | 1                 |
| August            | 2        | 182                | 2         | 5 - /   | 134     | - 81.55     | - 19   | 101               |
| September         | _ 5      | 5                  | 1 209     | 2       | -       | - 00        | - 00   | 3                 |
| 3rd qtr.          | 18       | 14                 | 4         | 7       | 1       | 1           | 1  | 4                 |
| October           | 5        | 4                  | 1         | A -     |         | -17         | -170   | 4                 |
| November          | 4        | 4                  | - 2       | 1 -     | 1       | 1           | 1  | redotto           |
| December          | 8        | 6                  | 2         | 2       | I -and  | -5          | 3  | oden 1            |
| 4th qtr.          | 17       | 14                 | 3         | 2       | 1       | 1           | 4  | 6                 |
|                   |          |                    |           |         | _       | -           | -  | 107               |
| Year              | 72       | 60                 | 12        | 21      | 2       | 5           | 9  | 23                |
| Aged over 75      | -        | THE REAL PROPERTY. |           |         |         |             |  | -                 |
| January           | 5        | 5                  | 766       | 2       | 187     | - 95        | 9173-  | 3                 |
| February<br>March | 8        | 7 5                | 1 100     | 3 2     | 350     | - 5165      | -  | 4 2               |
|                   | 18       | 17                 | 1         | 7       | -       | -           | 1  | 9                 |
| 1st qtr.          |          |                    | -         |         |         | No.         |  | 7                 |
| April             | 6        | 5 7                | 1         | 3       | -       | -           | 2 2  | -                 |
| May<br>June       | 7        | 6                  | 1         | 4       |         | 1           | 1  | Links             |
| 2nd qtr.          | 20       | 18                 | 2         | 11      | -       | 1           | 5  | 1                 |
|                   | 7        | 7                  | -         |         | -       | 0875        |  |                   |
| July<br>August    | 1        | 4                  | 3 3 7     | 4       |         | 2           | 1  | 2                 |
| September         | 7        | 7                  | 3 320     | - 3     | 100     | 1           | 1 33   | 7                 |
| 3rd qtr.          | 18       | 18                 |           | 7       | 102     | 3           | 1 40   | 7                 |
| October           | 4        | 4                  | 3         | 2       | -       | -           | -0.000   | 2                 |
| November          | 4        | 4                  | -         | 2       | -       | -           | 1  | 1                 |
| December          | 4        | 3                  | 1         | 1 1     | 100     | -5106       | - 17   | 2                 |
| 4th qtr.          | 12       | 11                 | 1         | 5       | 0.5     | -965        | -1 -   | 5                 |
|                   |          |                    | 6 10      |         | - 55    | 100         | 0 7 1  |                   |
| Year              | 68       | 64                 | 4         | 30      | -       | 4           | 8  | 22                |
| All ages          |          |                    |           |         |         |             |  |                   |
| January           | 16       | 16                 | -         | 5       | -       | 3           | -  | 8                 |
| February          | 10       | 8                  | 2         | 3       | 6400    | 100-75-00   | WEST TRANSPER  | 5                 |
| March             | 10       | 10                 | -         | 4       |         | - 7         | 3  | 3                 |
| 1st qtr.          | 36       | 34                 | 2         | 12      | -       | 3           | 3  | 16                |
| April             | 13       | 11                 | 2 2       | 6       | 05      | 383.00      | 2 2  | 3                 |
| May<br>June       | 14<br>12 | 12                 | 2         | 6       | 60      | 1 500       | 3  | 4                 |
| 2nd qtr.          | 39       | 33                 | 6         | 18      | 1000    | 1           | 7  | 7                 |
| July              | 18       | 16                 | 2         | 9       | 1       | 1           | 1  |                   |
| August            | 6        | 4                  | 2         | 7       | 014     | 2           | 1  | 4                 |
| September         | 12       | 12                 | 8 -       | 5       | 3-      | 1           | -  | 6                 |
| 3rd qtr.          | 36       | 32                 | 4         | 14      | 1       | 4           | 2  | 11                |
| October           | 9        | 8                  | 0 100     | 2       | 100     | C-100000000 |  | 6                 |
| November          | 8        | 8                  | 08 8/6    | 2       | 1       | 1           | 2  | 2                 |
| December          | 12       | 9                  | 3         | 3       | 100-    | -           | 3  | 3                 |
| 4th qtr.          | 29       | 25                 | 4         | 7       | 1       | 1           | 5  | 11                |
| don dor.          |          | -)                 | 4         |         |         |             | ,  | The second second |
| Year              | 140      | 124                | 16        | 51      | 2       | 9           | 17   | 45                |

- 35 -

# TABLE VIID - MAIN CAUSES OF DEATH BY MONTH AND QUARTER - 1965

(Compiled locally)

(b) Bexley Hospital

| nth                  | All    | Main   | Other   | Circ.         |       | cer  | Vasc.les. | Resp.        |
|----------------------|--------|--------|---------|---------------|-------|--|-----------|--------------|
| gistered             | causes | causes | causes  | disease       | Lung  | Other  | C.N.S.    | disease      |
| ged under 75         | causes | GEORGE | Quusea. | - CITATION IN | 1700  | THE OWNER OF THE OWNER O |           | 7070000      |
| January              | -11    | 9      | - 2     | 3             | t     | 25   | - 100     | 4            |
| February             | 11     | ģ      | 2       | - 3           | (4)   | 3 2  | 1         | 4            |
| March                | 7      | 7      |         | 5             | 200   |  | - 1       | 1            |
|                      |        |        |         |               | -     | - 81   | - 5770    | 2            |
| ist qtr.             | 29     | 25     | 4       | 11            | 1     | 5  | 1         | 7            |
| April                | 5      | 5      | 9 -     | 5.1           | -     | - 5  | 2         | 2            |
| May                  | 8      | 7      | 5 1     | 2             | -     | -5   | 3         | 2            |
| June                 | _ 7    | 5      | 2       | 1             | -     | - 01   | 2         | 2            |
| 2nd qtr.             | 20     | 17     | 3       | 4             | -     | 7.66   | 7         | 6            |
|                      | 8      | 6      | - 2     | 7             |       | -  | 2         | -            |
| July                 |        |        | 2       | 3             | -     | -3   | 2         | Tau 1        |
| August               | 4      | 3      |         | 1             | -     |  | 200       | 2            |
| September            | 5      | 4      | 11      | 2             | -     | - 81   | 1 1       | 1            |
| 3rd qtr.             | 17     | 13     | 4       | 6             | -     | -  | 3         | 4            |
| October              | 3      | 2      | 1       | -             | 1     | 1  | -         | Carried Told |
| November             | 2      | 1      | 9 1     | 2 7-          | -     | -  | -)        | 1            |
| December             | 3      | 2      | 1       | -             | -     | -  |           | 2            |
| 4th qtr.             | 8      | 5      | 3       |               | 1     | 1  |           | 3            |
| TEACH THE P          |        |        |         | 04            |       |  |           |              |
| Year                 | 74     | 60     | 14      | 21            | 2     | 6  | 11        | 20           |
| ged over 75          |        |        |         |               |       |  |           | THURST       |
| January              | 12     | 9      | 3       | 3             | -     | 18   |           | 5            |
| February             | 7      | 9      | 1       | - 3           | 2-    | -5   | -3 %      | 3            |
| March                | 11-    | 10     | 1       | 3             | 74.   | -01  | 1         | 6            |
| - 1st qtr.           | 30     | 25     | 5       | 9             | -     | 1  | 1         | 14           |
|                      |        |        |         |               |       |  |           |              |
| April                | 8      | 8      |         | - 3           | -     | 1  | 1         | 3            |
| May                  | 6      | 6      | -       | 3             | 0-    | -  | -         | 3            |
| June                 | 8      | 8      | 11 -    | 6             | -     | -09  | 1.770     | 505 1        |
| 2nd qtr.             | 22     | 22     | -       | 12            | -     | 1  | 2         | 7            |
| July                 | 9      | 9      | -       | 5             | N-    | -  | -         | 4            |
| August               | 8      | 8      | 2       | _ 2           | -     | 1  | -1        | 5            |
| September            | 10     | 10     | T -     | 7             | R4-   | -01  |           | 3            |
| 3rd qtr.             | 27     | 27     |         | 14            | -     | 1  |           | 12           |
|                      |        |        |         | - 17          |       |  |           |              |
| October              | 4      | 3      | 1       | -             | -0-   |  | - 70      | 3            |
| November             | 11     | 10     | 1       | 4             | 1     | -  | -2 10     | 5            |
| December             | 19     | 19     | -       | 5             | -     | -11  | 2         | 12           |
| 4th qtr.             | 34     | 32     | 2       | 9             | 1     | 700  | 2         | 20           |
| Year                 | 113    | 106    | 7       | 44            | 1     | 3  | 5         | 53           |
| 1001                 |        | 100    | 200     | - 44          |       |  |           | - ,,         |
| 11 ages              |        |        |         |               |       |  |           |              |
| January              | 24     | 19     | 5 3     | 6             | -     | 4  | - 100     | 9            |
| February             | 17     | 14     | 3       | 6             | 1     | 2  | _ 1       | 4            |
| March                | 18     | 17     | 3131    | 8             |       | -  | 1.000     | 8            |
| 1st qtr.             | 59     | 50     | 9       | 20            | 1     | 6  | 2         | 21           |
| April -              | 13     | 13     | OX5     |               | 1000  |  |           | 7,000        |
| May                  | 14     | 13     | 0 1     | 4             | 0+    | 107  | 3         | 5            |
| June                 | 15     | 13     | 81 2    | 5 7           | 10    | -03  | 3         | 5            |
| - Lile               | -17    | 17     | 0       |               | -     | -  | 3         | 3            |
| 2nd qtr.             | 42     | 39     | - 3     | 16            | 1     | 1  | 9         | 13           |
| July                 | 17     | 15     | 2       | - 8           | ST    | -  | 2 2003    | 5            |
| August               | 12     | 11     | M 1     | 3             | 5%    | 102  | -010      | 7            |
| September            | 15     | 14     | C = 1   | 9             | 2 - 2 | 441  | 1         | 4            |
|                      |        |        |         | 20            | -     | 4  | 3         | 16           |
| 3rd qtr.             | 44     | 40     | 4       | - 20          | 8-4   | - 1  | 2         |              |
| October              | 7      | 5      | 2       | 5.10 -        | 91    | 1  | -5 200    | 3            |
| November             | 13     | 11     | 2       | 4             | 1     | -35  | -310 p    |              |
|                      | 22     | 21     | 1       | 5             | -     | -  | 2         | 14           |
| December             |        |        |         |               |       |  |           |              |
| December<br>4th qtr. |        | 37     | 5       | 9             | 2     | 1  | 2         | 23           |
| December<br>4th qtr. | 42     | 37     | 5       | 9             | 2     | 1  | 2         | 23           |

- 36 -

|                  | TABL               | E VIII -       | MAIN          | CAUSES OF DEAT                       | H (continue         | d) - BY AG                       | E                              |
|------------------|--------------------|----------------|---------------|--------------------------------------|---------------------|----------------------------------|--------------------------------|
|                  | All                | Main<br>causes | Other causes  | (440-468)<br>Circulatory<br>diseases | (140-205)<br>Cancer | (330-334)<br>Vasc.les.<br>C.N.S. | (470-527)<br>Resp.<br>diseases |
|                  |                    |                |               | England and W                        | ales                |                                  |                                |
| 1963             | 572,868<br>100%    | 477,021<br>83% | 95,847<br>17% | 213,522<br>37%                       | 102,416             | 80,340                           | 80,743                         |
| 1964             | 534,737            | 441,816        | 92,921        | 198,19 <b>2</b><br>3 <b>7</b> %      | 104,699             | 73,965                           | 64,960                         |
| 1965             | 549,379<br>100%    | 457,845<br>83% | 91,534        | 206,180<br>38%                       | 106,338             | 78,149<br>14%                    | 67,178                         |
|                  |                    |                |               | Town (compil                         | ed locally)         | 77%                              |                                |
| 1963             | 431                | 353            | 78            | 152                                  | 77                  | 59                               | 65                             |
| 96               | 100%               | 82%            | 18%           | 35%                                  | 18%                 | 14%                              | 15%                            |
| 1964             | 449<br>100%        | 379<br>84%     | 70<br>16%     | 169<br>38%                           | 87<br>19%           | 55<br>12%                        | 15%                            |
| 1965             | 443                | 356            | 87            | 152                                  | 81                  | 48                               | 75                             |
| %                | 100%               | 80%            | 20%           | 34%                                  | 18%                 | 11%                              | 17%                            |
|                  |                    |                | A             | s percentage o                       |                     | 8                                |                                |
|                  |                    |                |               | Town 1                               | 964                 |                                  |                                |
| Aged             | 0-74               |                |               |                                      |                     |                                  |                                |
|                  | r. 100%            | 82%            | 18%           | 28%                                  | 32%                 | 7%                               | 15%                            |
|                  | r. 100%<br>r. 100% | 76%<br>79%     | 24%           | 46%<br>33%                           | 12%<br>24%          | 8%<br>16%                        | 10%                            |
|                  | r. 100%            | 81%            | 19%           | 38%                                  | 25%                 | 9%                               | 9%                             |
|                  | 100%               | 80%            | 20%           | 36%                                  | 24%                 | 10%                              | 10%                            |
| Aged             | 75+                |                |               |                                      |                     |                                  |                                |
|                  | r. 100%            | 90%            | 10%           | 36%                                  | 21%                 | 13%                              | 20%                            |
| 2nd qt           | r. 100%            | 88%            | 12%           | 29%                                  | 14%                 | 21%                              | 24%                            |
|                  | r. 100%<br>r. 100% | 89%<br>92%     | 11%           | 41%<br>48%                           | 16%<br>10%          | 19%<br>10%                       | 13%<br>22%                     |
| 4011 40          | 100%               | 90%            | 10%           | 39%                                  | 16%                 | 15%                              | 20%                            |
| All a            |                    | 90%            | 10/0          | 77/0                                 | 10/0                | 17/0                             | 20/0                           |
|                  | r. 100%            | 86%            | 14%           | 33%                                  | 26%                 | 10%                              | 17%                            |
| 2nd qt           | r. 100%            | 80%            | 19%           | 39%                                  | 13%                 | 13%                              | 16%                            |
|                  | r. 100%            | 84%<br>87%     | 16%<br>13%    | 37%<br>43%                           | 18%<br>18%          | 18%<br>10%                       | 11%                            |
| 4                | 100%               | 84%            | 16%           | 38%                                  | 20%                 | 12%                              | 14%                            |
|                  | 100,0              | 04,0           | 10,0          | 7070                                 | 20/0                | 12/0                             | 14/0                           |
|                  | Distr              | ibution of     | f deaths f    | rom each main<br>Town 1964           | cause between       | en two age                       | groups                         |
| Aged             | 0-74 year          | 8              |               |                                      |                     |                                  |                                |
| 1st qt           | r. 55%             | 53%            | 68%           | 50%                                  | 65%                 | 38%                              | 48%                            |
| 2nd qt           | r. 61%             | 57%            | 76%           | 71%                                  | 57%                 | 36%                              | 41%                            |
| 3rd qt<br>4th qt |                    | 51%<br>49%     | 69%<br>71%    | 49%<br>47%                           | 61%<br>73%          | 50%<br>50%                       | 45%<br>30%                     |
| F - 5            | 55%                | 53%            | 71%           | 54%                                  | 65%                 | 44%                              | 40%                            |
| Aged             |                    | 271            | .,,           | 747                                  |                     | 74/                              | 200                            |
| 1st qt           |                    | 47%            | 32%           | 49%                                  | 36%                 | 62%                              | 52%                            |
| 2nd qt           | r. 39%             | 43%            | 24%           | 29%                                  | 43%                 | 64%                              | 59%                            |
| 3rd qt           |                    | 49%            | 31%           | 51%                                  | 39%                 | 50%                              | 55%                            |
| 4th qt           |                    | 51%            | 29%           | 53%                                  | 27%                 | 50%                              | 70%                            |
|                  | 45%                | 47%            | 29%           | 46%                                  | 35%                 | 56%                              | 60%                            |

TABLE VIII - MAIN CAUSES OF DEATH (continued) - BY AGE

# As percentage of all causes Town 1965

| 358   | All<br>causes                   | Main<br>causes                  | Other causes                   | (440-468)<br>Circulatory<br>diseases         | (140-205)<br>Cancer            | (330-334)<br>Vasc.les.<br>C.N.S. | (470-527)<br>Resp.<br>diseases |
|---|---------------------------------|---------------------------------|--------------------------------|--|--------------------------------|----------------------------------|--------------------------------|
| ged 0-74                                    |                                 |                                 |                                |  |                                |                                  |                                |
| st qtr.                                     | 100%<br>100%<br>100%            | 77%<br>78%<br>75%               | 23%<br>22%<br>25%              | 27%<br>35%<br>38%                            | 20%<br>28%<br>23%              | 8%<br>6%<br>13%                  | 21%<br>9%<br>2%                |
| th qtr.                                     | 100%                            | 71%<br>75%                      | 29%<br>25%                     | <u>32%</u><br>33%                            | 21%<br>23%                     | <u>6%</u><br>8%                  | 12%<br>11%                     |
| Septemble .                                 | 100,0                           | 137                             | 2)/0                           | 77/0   | 2)/0                           | 0,0                              | 11/0                           |
| ged 75+                                     | la.                             | 335                             | 40                             |  |                                |                                  |                                |
| st qtr.<br>end qtr.<br>erd qtr.<br>th qtr.  | 100%<br>100%<br>100%<br>100%    | 89%<br>92%<br>97%<br>77%        | 11%<br>8%<br>3%<br>23%         | 38%<br>42%<br>38%<br>29%                     | 2%<br>13%<br>30%<br>6%         | 11%<br>13%<br>19%<br>17%         | 38%<br>24%<br>11%<br>25%       |
| Teng  | 100%                            | 88%                             | 12%                            | 36%  | 11%                            | 15%                              | 26%                            |
| ll ages                                     |                                 |                                 |                                |  |                                |                                  |                                |
| st qtr.<br>Ind qtr.<br>Ird qtr.<br>Ith qtr. | 100%<br>100%<br>100%<br>100%    | 82%<br>84%<br>84%<br>73%        | 18%<br>17%<br>16%<br>27%       | 32%<br>38%<br>38%<br>31%                     | 13%<br>22%<br>26%<br>15%       | 10%<br>9%<br>15%<br>10%          | 28%<br>15%<br>5%<br>17%        |
|   | 100%                            | 80%                             | 20%                            | 34%  | 18%                            | 11%                              | 17%                            |
|   | Distri                          | ibution of                      | deaths fr                      | om each main ca                              | ause betwee                    | en two age g                     | roups                          |
|   |                                 |                                 |                                | Town 1965                                    |                                |                                  |                                |
| ged 0-74                                    |                                 |                                 |                                |  |                                |                                  |                                |
| st qtr.<br>2nd qtr.<br>3rd qtr.<br>4th qtr. | 58%<br>63%<br>62%<br>59%        | 54%<br>59%<br>56%<br>56%        | 74%<br>82%<br>94%<br>64%       | 50%<br>59%<br>62%<br>61%                     | 94%<br>78%<br>56%<br>82%       | 50%<br>45%<br>53%<br>33%         | 43%<br>40%<br>20%<br>40%       |
|   | 60%                             | 56%                             | 76%                            | 58%  | 75%                            | 46%                              | 40%                            |
| ged 75+                                     |                                 |                                 |                                |  |                                |                                  |                                |
| st qtr.<br>2nd qtr.<br>5rd qtr.<br>1th qtr. | 42%<br>37%<br>38%<br>41%<br>40% | 46%<br>41%<br>44%<br><u>44%</u> | 26%<br>18%<br>6%<br>35%<br>24% | 50%<br>41%<br>3 <del>8</del> %<br>39%<br>42% | 6%<br>22%<br>44%<br>18%<br>25% | 50%<br>56%<br>47%<br>67%<br>54%  | 57%<br>60%<br>80%<br>60%       |
|   | 40,0                            | 200                             |                                | 1 30 2 16                                    |                                | The Barre                        | - 27 S 327 A                   |

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TABLE IX.

| LUNG C                                    | 1958<br>1959<br>1960<br>1961<br>1962<br>1964<br>1965<br>1965   | Year  |
|---|--|---|
| ath -                                     | 76<br>73<br>70<br>75<br>67<br>100<br>108<br>99<br>668<br>The infl<br>of takir  | Town  |
| Bexley<br>Hospital<br>deaths              | 15<br>19<br>10<br>20<br>21<br>15<br>22<br>26<br>148<br>148<br>the rate   | Bexley<br>Hospital<br>deaths  |
| Borough<br>deaths<br>(Local)              | 91<br>92<br>80<br>95<br>88<br>115<br>130<br>125<br>125<br>816<br>beyond 2.0  | Borough<br>deaths<br>(Local)  |
| Borough<br>deaths<br>(R.G.)               |  | Borough<br>deaths<br>(R.G.)   |
| Town population                           |  | Town<br>population  |
| Borough                                   | 43140<br>43940<br>44950<br>45460<br>46180<br>46420<br>46700<br>363250<br>ion of 363235<br>the rate beyon   | Borough<br>population   |
| Comp.                                     | 0.76<br>0.85<br>0.86<br>0.86<br>0.78<br>0.92<br>0.92<br>0.84<br>0.84<br>0.84   | Comp.   |
| Town X orude death rate                   | 1.84<br>1.74<br>1.63<br>1.73<br>1.51<br>2.25<br>2.45<br>2.21<br>1.92<br>that it  | Town X crude death rate   |
| R.G.<br>Borough<br>crude<br>death<br>rate | 2.11<br>2.13<br>1.88<br>2.18<br>2.06<br>2.76<br>2.76<br>2.76<br>2.70<br>2.79   | R.G.<br>Borough<br>orude<br>death<br>rate   |
| Borough<br>adjusted<br>death<br>rate      | 1.60<br>1.82<br>1.61<br>1.87<br>1.61<br>2.12<br>2.53<br>2.26<br>1.92<br>probability  | Borough<br>adjusted<br>death<br>rate  |
| Eng.and<br>Wales<br>death                 | 1.86<br>1.87<br>2.01<br>2.07<br>2.20<br>2.29<br>2.24<br>2.38<br>2.12<br>of 1 in<br>Jan 63).  | Eng. and<br>Wales<br>death  |
| London<br>death<br>rate                   | 1.84<br>1.89<br>2.02<br>2.05<br>2.26<br>2.36<br>2.13<br>2.13<br>2.17**   | London<br>death<br>rate   |
|   | G CANCER - DARTFORD  Bexley Borough Borough Town Borough Comp. Town <sup>X</sup> R.G.  Town Hospital deaths deaths population population factor crude Borough Eng.and death crude adjusted Wales deaths death death death death rate rate rate | 76 15 91 91 41140 43140 0.76 1.84 2.11 1.60 1.86 73 19 92 93 41940 43940 0.85 1.74 2.13 1.82 1.87 70 10 80 84 42950 44950 0.86 1.63 1.88 1.61 2.01 75 20 95 99 44460 45460 0.86 1.73 2.18 1.87 2.07 88 95 44180 46460 0.85 2.25 2.18 1.87 2.07 100 15 115 116 44460 46460 0.85 2.25 2.50 2.12 2.07 100 15 126 44470 46420 0.85 2.25 2.76 2.34 2.29 126 44700 46700 0.84 2.21 2.70 2.26 2.34 2.29 126 44700 46700 0.84 2.21 2.70 2.26 2.34 2.34 1.88 1.87 2.20 118 1.89 1.89 1.89 2.29 1.26 44700 0.85 2.25 2.76 2.25 2.29 1.92 2.29 |

The influence of chance on a rate of 0.47 in a population of 363250 is such that it offers a probability of 1 in 20 of taking the rate beyond 0.54 and 1 in 100 of taking the rate beyond 0.56.

X This cannot be adjusted by C.F. as the latter applies to the whole Borough which includes Bexley Mental Hospital.

\*\*Greater London.

TABLE X. DEATHS FROM CORONARY DISEASE BY QUARTERS

|                |          | Dar   | tford | Town | um of ce | poy   | Bexle | y Hosp | ital  |       |
|----------------|----------|-------|-------|------|----------|-------|-------|--------|-------|-------|
| Ages           | 0-1      |       | 75+   |      |          | 0-74  |       | 75+    |       | 3     |
| 5 5 5          | M        | F     | M     | F    | Total    | M     | F     | M      | F     | Total |
| 1962-1st qtr   |          | 108   | 1     | 3    | 10       | 11    | 1 58  | 2      | 3 8 9 | 7     |
| 2nd "<br>3rd " | 9        | 2     | 2     | 5    | 16<br>20 | 2     | 3     | 1      | 3     | 6     |
| 4th "          | 7        | 3     | 9     | 2    | 21       | 1     | 1     | -      | 1     | 3     |
| Year           | 35       | 5     | 14    | 13   | 67       | 4     | 6     | 4      | 7     | 21    |
| 1963-1st qtr   | .11      | 5     | 6     | 10   | 32       | 1     | 4     | age to | 2     | 7     |
| 2nd "          | 13       | 2     | 4 5   | 9    | 28       | 1     | 1     | -      | 1     | 3     |
| 3rd "<br>4th " | 5        | 2 3 2 | 5     | 8 5  | 21<br>19 | 1 209 | 1     | 5%     | 2     | 2 3   |
| Year           | 36       | -     | 20    | 32   | 100      | 1000  | 6     | 200    | 5     | 1000  |
| lear           | 70       | 12    |       | 25   | 100      | 4     | W/D   | 15 M M | 2     | 15    |
| 1964-1st qtr   | . 7      | 7     | 6     | 9    | 29       | 3     | -     | 1      | 1     | 5     |
| 2nd "<br>3rd " | 16<br>10 | 7 3   | 6     | 3 6  | 27<br>25 | 3 2 3 | 2     | 1      | 5     | 10    |
| 4th "          | 9        | 5     | 4     | 9    | 27       | 32    | -     | 1      | -     | 1     |
| Vann           | 40       | 22    | 17    | 27   | 108      | 8     | 2     | 7      | 0     | 22    |
| Year           | 42       | 22    | 17    | 27   | 108      | 0     | 2     | 3      | 9     | 22    |
| 1965-1st qtr   |          | 5     | 8     | 5    | 23       | 5     | 2     | 1      | 2     | 10    |
| 2nd "          | 9        | 5 5 6 | 4 2   | 5    | 23<br>25 | 1 2   | -     | 2      | 3     | 3 8   |
| 3rd "<br>4th " | 16       | 2     | 2     | 7    | 27       | -     | 1 = 2 | 2      | 2     | 5     |
|                | -        | 3000  |       | 24   |          | 0     | 7     | 000    | 2000  | 10000 |
| Year           | 40       | 18    | 16    | 24   | 98       | 8     | 3     | 8      | 7     | 26    |

# TABLE XI. DEATHS OF INFANTS UNDER ONE YEAR OF AGE

|                    | 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   |                         | 19   | 64   | 10000                            | 196                                   | 55      |
|--------------------|---|-------------------------|------|------|----------------------------------|---------------------------------------|---------|
| Age<br>Under 1 day | Cause<br>Congenital malformation  | 759.3<br>757.3          | M 1  | F 1  | I.C.D.<br>758.6                  | M -                                   | F 1     |
|                    | Immaturity  | 776<br>769              | -    | 100  | 776<br>774                       | 1                                     | 2       |
|                    | Atelectasis c immaturity<br>Birth injury  | 762.5                   | 1000 | 900  | 762.5<br>761.0<br>760.0<br>760.5 | 1010                                  | 1 1 2 2 |
| 1 to 6 days        | Congenital malformation   | 754.1<br>754.5<br>754.7 | 1 -  | 1    | 759                              | - 97                                  | 1       |
|                    | Hernia of abdominal cavity Immaturity Asphyxia Meningitis Birth injury  | 774<br>762              | 1 1  | 0.00 | 560.4<br>340.3<br>761            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1       |
| 7 to 27 days       | Congenital malformation<br>Injury at birth  | 754.5                   | 1    | -    | 751<br>760.0                     | 1                                     | 1       |
| 28 to 364 days     | Congenital malformation Accidental suffocation Bronchopneumonia Tracheobronchitis Meningitis by pneumococcus Gastro-enteritis | 754.7<br>E924<br>491    | 7    | 1 8  | 754.5<br>500<br>340.1<br>571.0   | 1 1 7                                 | 1 15    |

# . TABLE XII - INJURY

# (a) ACCIDENTS ON THE ROAD

Casualties (not necessarily Borough residents) on local roads (Chief Constable's analysis).

| inju | ry  | Killed             |  | Seriously injured  |  | Slightly         |  | Total  |  |
|------|---|--------------------|--|--|--|------------------|--|--|--|
| 1964 | 1965                                      | 1964               | 1965   | 1964   | 1965   | 1964             | 1965   | 1964   | 1965   |
| 336  | 305                                       | 9                  | 6  | 115  | 93   | 311              | 302  | 435  | 401  |
| 130  | 133                                       | 3                  | 2  | 55   | 42   | 140              | 124  | 198  | 168  |
|      |   | 1                  | 4  | 20 10 20   | 100000000000000000000000000000000000000  |                  |  |  | 98   |
|      | inju<br>accid<br>1964<br>336<br>130<br>81 | 336 305<br>130 133 | injury Killaccidents 1964   1965   1964  336   305   9 130   133   3 81   60   1 | injury accidents  1964   1965   1964   1965  336   305   9   6   130   133   3   2   81   60   1   4 | injury Killed Serio inju 1964 1965 1964 1965 1964 1965 1964 1965 1964 1965 1964 1965 1964 1965 1964 1965 130 133 3 2 55 81 60 1 4 23 | injury accidents | injury accidents Killed Seriously sligh injured injured 1964 1965 1965 1965 1965 1965 1965 1965 1965 | injury accidents   Killed   Seriously   Slightly   injured   injured   1964   1965   1 | injury accidents   Seriously injured   To injured   1964   1965   1964   1965   1964   1965   1964   1965   1964   1965   1964   1965   1964   1965   1964   1965   1964   1965   1964   1965   1964   1965   1964   1965   130   133   3   2   55   42   140   124   198   19 |

Deaths of Borough residents not necessarily on Borough roads.

| 1964    |        |  | Place of accident          |
|---------|--------|--|----------------------------|
| 2 year  | rs F   | Ran from behind stationary van and   | Outside home.              |
| 16 year | rs M   | was struck by car. Sidecar passenger of motor cycle combination/motor car. | Lewisham                   |
| 33 year | rs F   | Motor car/Bridge.  | M2 motorway                |
| 61 year | rs M   | Pedestrian/motor car.  | On the A2 Dartford         |
| 62 year | rs M   | Bicycle/motor car.   | Blenheim Road, Dartford    |
| Che     | morrh. | Road accident not involving motor vehi                                     | 200                        |
| 71 year | rs M   | Pedal cyclist collided with kerb.  | Dartford                   |
| 1965    |        |  | 964 10/52 M Electrocu      |
| 39 year | rs M   | Van/lorry.   | bern? and Mod is Mo        |
| 43 year | rs F   | Struck by car while crossing road behind stationary lorry.                 | Near her home in Dartford. |
| 61 year | rs M   | Head-on collision with motor car.  | Greenwich.                 |
| 86 year | rs F   | Pedestrian/motor vehicle   | West Hill near her home    |
|         |        | Not on public highway  | to et al Fractured         |
| 41 year | rs M   | Participating in 3-wheel race and  | Brands Hatch.              |

# International classification of injuries

| Age | External cause of injury | Nature of injuries | Age | External cause of injury | Nature of injuries |
|-----|--------------------------|--------------------|-----|--------------------------|--------------------|
|     | 1964                     |                    |     | 1969                     | 5                  |
| 2   | E 812                    | N 803              | 39  | E 816.0                  | N 803              |
| 16  | E 815.4                  | N 996.8            | 43  | E 812                    | N 803              |
| 33  | E 823.4                  | N 803              | 61  | E 815.4                  | N 803              |
| 61  | E 812                    | N 803              | 86  | E 812                    | N 805              |
| 62  | E 813                    | N 803              |     |                          | Latel              |
| 71  | E 843                    | N 805              | 41  | E 835                    | N 805              |

E 812 = Motor vehicle traffic accident to pedestrian.

N 803 = Fracture of skull.

### TABLE XII - INJURY (continued)

# (b) ACCIDENTS IN THE HOME

| ersons receiving in-patien | t treatment at the | Dartford Group | of Hospitals: |
|----------------------------|--------------------|----------------|---------------|
|----------------------------|--------------------|----------------|---------------|

| 1 1 1 1 1 1 1 | Fal     | ls     | Burns &  |      | Pois  | oning | 0        | ther   | To    | otal |
|---------------|---------|--------|----------|------|-------|-------|----------|--------|-------|------|
|               | 1964    | 1965   | 1964     | 1965 | 1964  | 1965  | 1964     | 1965   | 1964  | 196  |
| 0-4           | 4       | 1      | 2        | 1    | 4     | 1 30  | 5307     | 1      | 10    | 4    |
| 5-64          | 1       | 1      | 1        | 5    | 1     | -     | 1        | -      | 4     | 6    |
| 65+           | 4*      | 6 *    | F07      | 219  | 2 320 | Box   | 1 arri 4 |        | 4     | 6    |
| 1980 168      | 9       | 8      | 3        | 6    | 5     | 151   | 1130     | -11.17 | 18    | 16   |
|               |         |        |          |      |       |       |          |        |       |      |
| ength of sta  | y in ho | spita: | l in wee | ks   |       |       |          |        |       |      |
|               |         | Und    | er 1 wee | k 1  | - 2-  | 3- 4  | - 8-     | 12-    | 13- C | ases |
| 1964          |         |        | 10       | 5    |       |       | 1        | 2      | - 1   | 18   |
| 1965          |         |        | 7        | 3    | 1     | - 3   | 7        | -      | 1 100 | 16   |

<sup>\*</sup> Deaths in above admissions.

1964 82 years F Myocardial infarction. Coronary atheroma. 81 years F Bronchopneumonia. Parkinson's disease.

1965 73 years F Cerebral abscess. Long-stay hospital.

Death transferred out to Greenwich.

#### Deaths from accidents in the home:

| ear  | Age            | Sex         |  |   |       |   |                   |
|------|----------------|-------------|--|---|-------|---|-------------------|
| 1964 | 10/52          | M           | Asphyxia by polythene sheet of cot   | E | 925.0 | N | 991               |
| -    | 24             | M           | Electrocution by old hair dryer  | E | 914.0 | N | 992               |
|      | 44             | F           | Extensive burns. Fish fryer on fire  | E | 916.6 | N | 946               |
|      | 44<br>61       | M           | Fractured ribs & pelvis from fall  | E | 900   | N | 808               |
| 1965 | 69<br>64<br>71 | F<br>M<br>F | Ruptured spleen. Fall near home<br>Asphysia. Impacted food. Long-stay hospital<br>Sub-dural haematoma-fall in garden |   | 927.7 | N | 865<br>933<br>854 |
|      | 79             | M           | Fractured pelvis due to fall from window.  |   |       |   |                   |
|      | 1601 1         |             | Long-stay hospital (allocated to town deaths)  | E | 902.7 | N | 808               |
|      | 81             | F           | Fractured femur.Fall. Long-stay hospital   |   | 903.7 | N | 821               |
|      | 81             | F           | Carbon monoxide poisoning.   | E | 890   | N | 968               |
|      | 86             | F           | Fractured femur.Fall.Long-stay hospital (Death transferred out)  | E | 903.7 | N | 821               |

# England & Wales (includes residential institutions)

|                | Unde | r 15 | Over | 15   | A11  | ages |
|----------------|------|------|------|------|------|------|
|                | 1964 | 1965 | 1964 | 1965 | 1964 | 1965 |
| Poisoning      | 69   | 50   | 1410 | 1333 | 1479 | 1383 |
| Falls          | 75   | 68   | 3901 | 3854 | 3976 | 3922 |
| Burns & Scalds | 187  | 203  | 580  | 548  | 767  | 751  |
| Others         | 545  | 534  | 393  | 427  | 938  | 961  |
| Total          | 876  | 855  | 6284 | 6162 | 7160 | 7017 |
|                | 22   |      |      | -    |      | -    |

# TABLE XII - INJURY (continued)

- (c) ACCIDENTS AT WORK NIL
- (d) OTHER ACCIDENTS

| 50-64 | 71 | M | Fall near home<br>Collision with kerb ri<br>Fall in garden | iding | pedal | cycle ) | These accidincluded in |  |
|-------|----|---|--|-------|-------|---------|------------------------|--|
|       |    |   |  |       |       |         |                        |  |

# (e) SUICIDE

| 1964   | 64 | F | Drowning              | E | 975.8 | N | 990   |
|--------|----|---|-----------------------|---|-------|---|-------|
| 1965   | 21 | M | Train injuries        |   | 979.8 |   | 996.8 |
| 194 19 | 33 | F | CO poisoning          |   | 972.0 |   | 698   |
|        | 44 | M | CO poisoning          |   | 972.0 |   | 968   |
|        | 52 | M | CO poisoning          |   | 972.0 |   | 968   |
|        | 53 | F | Salicylate poisoning  |   | 970.0 |   | 972   |
|        | 58 |   | Barbiturate poisoning |   | 970.0 |   | 971   |
|        | 58 | M | Salicylate poisoning  |   | 970.0 |   | 972   |

# (f) HOMICIDE - NIL

# TABLE XIII - STILLBIRTHS

| I.C.D<br>Y No. | Cause                                    |      | Borou  | the second | 000    | Dartfo<br>R.D. |          | Borough<br>and<br>R.D. | % of al<br>Stillb<br>Borough | Eng.                        |
|----------------|--|------|--------|------------|--------|----------------|----------|------------------------|------------------------------|-----------------------------|
|                | Vause                                    | 1964 | 1965   | Total      | 1964   | 1965           | Total    | 1964-65                | and<br>R.D.                  | Wales                       |
| 30             | Chr.dis. in mother                       | 1    | -      | 1          | 18.    | 82             | 1        | 1                      | 1%                           | 3%                          |
| 32.2           | Haemorrhage & prem.                      |      | 4      | 4 1 3      |        | **             |          |                        | 15                           | 16                          |
| 36.2           | separation placenta                      | 1    | 2      | 3 2        | 2      | **1+2          | 5        | 8                      | 10%                          | 12%                         |
| 32.3-4         |  | 100  | 1*+1   | 2          | 3      | 4              | 7        | 9                      | 12%                          | 12%                         |
| 34.1           | Difficult labour +                       |      | -55-   | 12-200     | 10%-40 | di bu-         | unollons | Inl suns               | 000.00                       | and                         |
| 74.0           | disproportion                            | -    | -      | - 6        | 2      | 44.0           | 1 70     | 7 11                   |                              | 2%                          |
| 34.2<br>36.0   | malposition<br>Cord conditions           | 1    | 1      | 2          | 1 2    | 1*+2           | 4        | 4                      | 5%                           | 270                         |
| 37             | Birth injuries                           | 2    | -      | 2          | 2      | -              | 4        | 2                      | 8%                           | 2%<br>3%<br>8%<br>2%<br>11% |
| 38.0           | Anencephalus                             | -    | 1      | 1          | 3      | 1              | 4        | 5                      | 3%<br>6%<br>3%               | 1196                        |
|                | 3 Other malform.N.S.                     | 1    | 1      | 2          | -      | 1              | 7        | 2                      | 3%                           | 6%                          |
| 39.2           | Erythroblastosis                         | -    | 1      | -          | 2      | 127            | 3        | 3                      | 4%                           | 5%                          |
| 39.4           | Maceration                               | 1*+1 | 1      | 3          | 2+1**  | 1              | 4        | 7                      | 9%                           | 6%                          |
|                | 388 2                                    |      |        | _          |        |                |          | Na island              |                              |                             |
|                | 40 4                                     | 8    | 8      | 16         | 16     | 15             | 31       | 47                     | 61%                          | 70%                         |
| 34.6           | Difficult labour.                        |      | 12     |            | 3      | 1              | 082      | legel I                | - 11                         | 4                           |
|                | No mention of under-                     |      | 15     | 1          |        | 1              | DEGRE    | Infli                  |                              |                             |
|                | lying cause                              | 1    | 923    | 1          | -      | -              |          | 1                      | 1%                           |                             |
| 36.1           | Placenta praevia                         | 1    | -      | 1          | 1      | -              | 1        | 2                      | 1%<br>3%<br>3%<br>4%         |                             |
| 36.4           | Prem.sep.placenta                        | -    | 1*+1   | 2          | -      | 230            | 10 200   | 2                      | 3%                           |                             |
| 36.5           | Placenta infarct                         | -    | -      | -          | 1*+1   | 1              | 3        | 3                      | 4%                           | 09101-                      |
| 36.6           | Other abnormality                        |      | 100000 | 100.00     |        |                | - 120    |                        |                              | Chicano                     |
|                | placenta and cord                        |      | 2      | 2          | 7 130  | 1              | 2        | 4                      | 5%                           |                             |
| 38.5           | Malformation of                          | 50   | -      | 1          | -      | 1000           | -        | 7                      | act.                         |                             |
| 38.7           | other system etc.                        | 7    | 1      | 1 6        | 2      | -              | 2        | 10                     | 4%                           | PARITO                      |
| 39.5           | Other ill-def.cause<br>Cause unspecified | 3    | 1*+2   | 3          | 1      | 3              | 4 2      | 5                      | 13%                          | BUIDO                       |
| 27.0           | cause unspecified                        |      | 1742   | 7          | -      | 10             | -        | 2                      |                              |                             |
| 2              | The state of the state of                | 5    | 11     | 16         | 8      | 6              | 14       | 30                     | 39%                          | 30%                         |
| - S            | 0 02 0                                   | 8    | 8      | 16         | 16     | 15             | 31       | 47                     | 61%                          | 70%                         |
| Es B           | 01 2 8 8 8                               | 13   | 19     | 32         | 24     | 21             | 45       | 77                     | 100%                         | 100%                        |

<sup>\*</sup> denotes at home, \*\* 1964 ambulance, 1965 nursing home. Remainder in hospital.

TABLE XIV - PREVALENCE OF INFECTIOUS DISEASES (other than tuberculosis)

| 1964                    | All<br>ages | Under<br>1 | 1-4  | 5-9  | 10-14   | 15-24     | 25-44 | 45-64               | 65+ |
|-------------------------|-------------|------------|------|------|---------|-----------|-------|---------------------|-----|
| gentery                 | 2           | -          | -    | 1    | -       |           | -     | 1                   |     |
| cysipelas               | 1           | -          | na . | 0.00 | -(0)    | -         | -     | 1                   | -   |
| ood poisoning           | 2           | -          | -    |      | -       | - Valence | 1     | 2 1200              | -   |
| easles                  | 287         | 10         | 145  | 128  | 2       | 2         | -     |                     | -   |
| neumonia                | 3           | -          | -    | - 1  |         | 1         | - 1   | - 1000              | -   |
| merperal pyrexia*       | 59          | -          | -    |      | -       | 23        | 34    | -                   | -   |
| carlet Fever            | 34          | - 6        | 12   | 18   | 1       | 3         |       | 10-                 | 0 - |
| nooping cough           | 39          | 4          | 19   | 15   | 1       | Saligri   | 3     | - 1                 | -   |
| Totals                  | 427         | _14        | 176  | 163  | _4      | 29        | 36    | 3                   | -   |
| 1965                    |             |            |      |      |         |           |       |                     |     |
| rsentery **             | 36          | 1          | _    | _    | _       | _         | 4     | 12                  | 19  |
| ood poisoning           | 9           | -          | 2    | HUIT | 4 4 10  | X 1.00    | 2     | 3                   | 1   |
| eningococcal infection  | 1           | 1          | -    | -    | -       | _         | -     | _                   | -   |
| asles                   | 563         | 24         | 305  | 229  | 4       | 1         | -     | -                   |     |
| hthalmia neonatorum     | 1           | 1          | -    | -    |         | 1         | and a |                     | -   |
| erperal pyrexia         | 47          | -0.0       | -    | 594  |         | 20        | 27    | _                   | 200 |
| arlet fever             | 11          | 1          | 3    | 4    | 3       | -         |       | THE PERSON NAMED IN | _   |
| nooping cough           | 4           | 1          | 1    | 2    | 9617196 | -         | -     | -                   | -   |
| ration tropped bests, h | 672         | 29         | 311  | 235  | 7       | 22        | .33   | 15                  | 20  |

<sup>\*</sup> All cases were in-patients of the maternity wards of the Dartford Group of hospitals. In 1965 three of these cases were residents of Dartford Borough.
\*\* 35 cases were infections with sh.sonnei in the Mental Hospital.

The following communicable diseases were reported from schools:-

|           |         |        |                 |         |        | - 44 | -        |       |       |         |       |      |      |       |
|-----------|---------|--------|-----------------|---------|--------|------|----------|-------|-------|---------|-------|------|------|-------|
| 11123     | 27      | 22     | 15              | 31      | 87     | 88   | 39       | 77    | 54    | 210     | 65    | 135  | 287  | 563   |
| December  | 1       | -      | 2               | -       | 1      | -    | 2        | -     | 3     | -       | 2     | -    | 11   | -     |
| lovember  | -       | -      | 1               | -       | 1      | -    | 2        | -     | 5     | -       | -     | 3    | 9    | 3     |
| october   | -       | -      | -               | -       | -      | -    | -        | -     | -     | -       | 1     | -    | 1    | -     |
| September | mt ment | 1 1    | .0700           | 1 25.50 | S Tour | -196 | . eostal | odel  | 11964 | W . 700 | or to | 1 1  | mb 1 | 3     |
| lugust    | 5       | 3      | 1               | 1       | 13     | 8    | 2        | 1     | 9     | -       | -     | 2    | 30   | 15    |
| July      | 20      | 1-     | 2               | - 11    | 61     | 2    | 8        | 2     | 11    | 6       | 6     | 4    | 108  | 15    |
| June      | 1       | 4      | 3               | 4       | 8      | 15   | 8        | 14    | 5     | 11      | 7     | 24   | 32   | 72    |
| fay       | 233     | 6      | 1               | 6       | -      | - 19 | 5        | 12    | 5     | 7       | 28    | 6    | 39   | 56    |
| april     | -       | 2      | 4               | 4       | 3      | 14   | 6        | 19    | 7     | 21      | 10    | 14   | 30   | 74    |
| farch     | 100     | 3      | 1               | 9       | 100    | 28   | 4        | 11    | 4     | 140     | 10    | 39   | 19   | 230   |
| Pebruary  | DET E   | 51     |                 | 3       | ade_t  | 1    | 2        | 5     | 3     | 13      | 100 4 | 16   | 6    | 38    |
| January   | 30.     | 2      | 1 30            | 4       | 232 8  | 1    | 221      | 12    | 4     | 12      | 20121 | 26   | 1    | 57    |
|           |         | 1 1965 |                 | 1965    |        | 1965 |          | 1965  |       | 1965    |       | 1965 |      | 1965  |
| EASLES    | 8+ /    | Albans | Tov             | m       | Dw.    | ent  | Ud orb   | field | D-    | iory    | Ио    | ath  | Boro |       |
|           |         |        |                 |         |        |      |          |       |       |         |       |      | E E  | 136-1 |
|           |         | Whoo   | ping o          | cough   |        |      | 1        | 3     |       | 10      |       |      |      |       |
|           |         |        | let Fe          | ever    |        |      | 31       | 6     |       | 16      |       |      |      |       |
|           |         | Mump   |                 |         |        |      | 28       |       |       | 6       |       |      |      |       |
|           |         |        | uenza           |         |        |      | 1        |       |       | 29      |       |      |      |       |
|           |         |        | tigo            | 10162   |        |      |          | 4     |       | 1       |       |      |      |       |
|           |         |        | dular<br>an mea |         | 101 9  |      | 2        | 4     |       | 10      |       |      |      |       |
|           |         |        | ric 'F          |         |        |      |          | 1     |       | 3       |       |      |      |       |
|           |         |        | ritis           |         |        |      |          | 1 10  |       | -       |       |      |      |       |
|           |         |        | unctiv          | ritis   |        |      |          | 1     |       | 3       |       |      |      |       |
|           |         |        | kenpox          |         |        |      | 31       | 2     | 1     | 85      |       |      |      |       |
| 19891 77  |         |        |                 |         |        |      | 196      |       |       | 65      |       |      |      |       |
|           |         |        |                 |         |        |      | 106      | 4     | 10    | 6=      |       |      |      |       |

# DARTFORD BOROUGH Table XIV (continued)

# MEASLES (continued)

Biennial Cycle

|         | November | December     | January | February   | March | April | Total      |
|---------|----------|--------------|---------|------------|-------|-------|------------|
|         |          |              |         |            |       |       |            |
| 1950-51 | 138      | 288          | 161     | 58         | 44    | 20    | 709        |
| 1951-52 | -        | -            | -       | - 40       | -     | -     | 2202       |
| 1952-53 | 154      | 238          | 255     | 77         | 88    | 17    | 829        |
| 1953-54 | 244      | 2067         | -       | 55 -       | 5 -   | 25-76 | an 1955 au |
| 1954-55 | red Tun  | Com State    | 6       | 43         | 284   | 473   | 806        |
| 1955-56 | 2        | 1067         | -       | 40 -       | 3 -   | 1     | 1          |
| 1956-57 | 2        | 5067         | 12      | 25         | 107   | 303   | 447        |
| 1957-58 | Ston     | ARRIVAL LINE | WALL CO |            | 1     | 5     | 6          |
| 1958-59 | 20       | 7            | 20      | 47         | 105   | 175   | 374        |
| 1959-60 | 8        | -25 AT-25    | 35-24   | 91-81 -51- | O det | 07 -  | 8          |
| 196061  | 207      | 206          | 149     | 81         | 117   | 46    | 806        |
| 1961-62 | er. 1    | Real bear    | 1       | 1          | - 8   | -19   | 2          |
| 1962-63 | 1        | 11           | 10      | 33         | 147   | 135   | 337        |
| 1963-64 | 1        | -            | 1       | 6          | 19    | 31    | 58         |
| 1964-65 | 9        | 11           | 57      | 38         | 230   | 74    | 419        |
| 1965-66 | 3        | -            | 1       | 4          | 19    | 32    | 59         |

#### SCARLET FEVER AND WHOOPING COUGH

| 1001                     | S     | it.   |      |       |         |          | Hi         | gh-    |                   |       |     |       |                     |                    |
|--------------------------|-------|-------|------|-------|---------|----------|------------|--------|-------------------|-------|-----|-------|---------------------|--------------------|
| 1964                     | Alb   | ans   | To   | wn    | Br      | ent      |            | eld    | Pr                | iory  | He  | ath   | Bor                 | rough              |
| Qtrs                     | SF    | WC    | SF   | WC    | SF      | WC       | SF         | WC     | SF                | WC    | SF  | WC    | SF                  | WC                 |
| 1st<br>2nd<br>3rd<br>4th | - 1 7 | 1 2 - | 1    | 1 4 - | 4 -     | 4 2 -    | 1 2 -      | 3 1 -  | 7<br>5<br>-<br>11 | 7 2 1 | - 1 | 3 5 - | 10<br>12<br>-<br>12 | 8<br>16<br>14<br>1 |
|                          | -     | 3     | 3    | 5     | 4       | 6        | 3          | 4      | 23                | 10    | 1   | 11    | 34                  | 39                 |
| 1965                     |       |       |      |       |         |          |            |        |                   |       |     |       |                     |                    |
| Qtrs                     | SF    | WC    | SF   | WC    | SF      | WC       | SF         | WC     | SF                | WC    | SF  | WC    | SF                  | WC                 |
| 1st<br>2nd<br>3rd<br>4th | 1265  |       | P01- | 1     | 1 1 1 1 | 10 10 10 | 2 1<br>2 1 | 101 17 | 1                 | 1     | 2   | 1     | 5<br>2<br>3<br>1    | 1 - 3              |
|                          | 1     | -     | 1    | 1     | 3       | -        | 3          | 1      | -                 | 3     | 2   | 1     | 11                  | 4                  |

# TABLE XV - TUBERCULOSIS, 1964 and 1965

# (a) Respiratory

| WARRENTAL | MEASTER   | THE NAME | TO WO AN YOU THE | SETTING. |
|-----------|-----------|----------|------------------|----------|
| NOTIFICA  | COLUMN SE | 1 50     | PART PROPERTY    | YEARS    |
|           |           |          |                  |          |

| Year | Town | Bexley<br>Hospital | Total | Year | Town | Bexley<br>Hospital | Total |
|------|------|--------------------|-------|------|------|--------------------|-------|
| 1956 | 21   | 22                 | 43    | 1961 | 20   | 5                  | 25    |
| 1957 | 32   | 3                  | 35    | 1962 | 17   | 9                  | 26    |
| 1958 | 22   | 5                  | 27    | 1963 | 10   | -                  | 10    |
| 1959 | 15   | 9                  | 24    | 1964 | 12   | 2                  | 14    |
| 1960 | 9    | 3                  | 12    | 1965 | 8    | 8                  | 16    |

#### NOTIFICATIONS BY AGE AND SEX

| 1964             | Total | 0-14  | 15-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64           | 65+ |
|------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|-----|
| Males<br>Females | 8     | - 1   | 1 2   | 1     | -     | 2     | 1     | 2               | 1   |
| Salavana 1       | 14    | 1 00  | 3     | 2     | -111  | 2     | 9 1   | 2               | 2   |
| 1965             |       |       |       |       |       |       |       |                 |     |
| Males            | 13    | -     | -     | -     | 1000  | 5     | 4     | AND THE SERVICE | 2   |
| Females          | _ 3   | -     | -     | 2     | -     | -     | 0 1   | -               | -   |
|                  | 16    | regri | Afox  | 2     | 1     | 5     | 5     | STA1            | 2   |

# Of the above notifications the following were infectious:-

|        |             | Sex | Age  | Occupation            |
|--------|-------------|-----|------|-----------------------|
| Town   | 1964        | F   | 21/2 | Infant                |
|        | Crobbono.   | F   | 30   | Housewife (immigrant) |
|        |             | M   | 38   | Fitter                |
|        |             | M   | 56   | Shot blaster          |
|        |             | F   | 76   | Housewife             |
|        | 1965        | M   | 36   | Building supervisor   |
|        | THE WALL TH | M   | 38   | Clerk                 |
|        |             | F   | 53   | Immigrant             |
|        |             | M   | 53   | Chef                  |
| Bexley | Hospital    |     | ?    |                       |

#### NUMBER OF CASES OF RESPIRATORY TUBERCULOSIS ON THE REGISTER ON DECEMBER 31st

|      | Male | Female | Persons |      | Male | Female | Persons |
|------|------|--------|---------|------|------|--------|---------|
| 1956 | 297  | 209    | 506     | 1961 | 255  | 197    | 452     |
| 1957 | 293  | 227    | 520     | 1962 | 266  | 191    | 457     |
| 1958 | 295  | 221    | 516     | 1963 | 250  | 187    | 437     |
| 1959 | 283  | 223    | 506     | 1964 | 228  | 177    | 405     |
| 1960 | 250  | 201    | 451     | 1965 | 219  | 170    | 389     |

# CHANGES IN THE REGISTER IN 1964 and 1965

| Removals: 1964     | 1965  |
|--------------------|---|
| Lost sight of 1    | 4   |
| Left district 28   | 12  |
| Not tuberculosis 1 | 19  |
| Recovered 16       | 24  |
| Deaths 9           | 2   |
| 55                 | 42  |
| I                  | Lost sight of 1 Left district 28 Not tuberculosis 1 Recovered 16 Deaths 9 |

## TABLE XV - TUBERCULOSIS, 1964 and 1965 (continued)

(a) Respiratory (continued)

#### DEATHS OF PERSONS SUFFERING FROM TUBERCULOSIS

Persons removed from the tuberculosis register following death:

| D            |      |                              | Cause of death  |                               |              | 55 pag                   |
|--------------|------|------------------------------|---|-------------------------------|--------------|--------------------------|
| Year<br>born |      | register<br>Year<br>notified | Underlying  | Contributory                  | Year<br>died | Infection when diagnosed |
| 1885         | M    | 1958                         | Myocardial infarction   | -                             | 1964         | Yes                      |
| 1893         | M    | 1955                         | Coronary disease, angina  | 37-1: 99 -41                  | 1962         | Yes                      |
| 1893         | M    | 1958                         | Carcinoma of lung   | BATHE CINCIPLE                | 1964         | Yes                      |
| 1897         | M    |                              | Cerebral haemorrhage Arteriosclerosis   | 100 - 150 12                  | 1964         | Yes                      |
| 1908         | M    |                              | Coronary occlusion Atheroma   | Pulmonary<br>tuberculosis     | 1964         | ?                        |
| 1910         | M    |                              | Cor. Pulmonale<br>Chronic bronchitis  | Pulmonary<br>tuberculosis     | 1964         | Yes                      |
| 1920         | F    |                              | Intra cerebral haemorrhage Hypertension                                       | figuredut mais vani           | 1964         | Yes                      |
| 1891         | F    | 1964                         | Pulmonary tuberculosis  | Brown atrophy of heart        | 1964         | ?                        |
|              | -    |                              | (at death found to be resid   | 1961                          |              | northenne                |
| 1934         | F    | 1964*                        | Pneumonia   | Healed pulmonary tuberculosis | 1964         | orvani ro                |
| Domesta      | face | mand at an                   | 1065  |                               |              | TARABARA                 |
| Removed      | ITON | register                     | 1907  |                               |              | olubradur                |
| 1901         | M    |                              | Congestive cardiac failure<br>Chr. pulmonary tuberculosis<br>and ch. syphilis | in Tabertalcers               | 1965         | Yes                      |
| 1902         | M    | 1965 *                       | Pulmonary tuberculosis  | Hiatus hernia                 | 1965         | Yes                      |

<sup>\*</sup>Bexley mental hospital.

No death from respiratory tuberculosis occurred in 1964 or 1965 which referred to a person not on our register of tuberculosis.

(notified at time of death)

# TABLE XV -

## TUBERCULOSIS

# (a) Respiratory (continued) MASS X-RAY

| 964                                 | Over Indus |                 |        |         |           | ine se<br>stry<br>F |                                       | e<br>lic*<br>F       | Tota<br>M | l<br>F | Persons |
|-------------------------------------|------------|-----------------|--------|---------|-----------|---------------------|---------------------------------------|----------------------|-----------|--------|---------|
| lo. X-rayed                         | 939        | 4               | 940    | 266     | 825       | 654                 | 2                                     | 219                  | 2706      | 1143   | 3849    |
| tuberculosis                        | 2-         | -               | -      | -12     | no Et es  | 19                  | 63                                    | S_<br>Syonal         | - 8       | - 4    | 16      |
| incidence %                         | 37-101     | -               | -      | -       | on lyan,  | - in the            | -                                     | uno zeo              | 955       | - N    | 1893    |
| OT PREVIOUSLY                       | K-RAYED    | (in             | clude  | d in    | above)    |                     |                                       |                      |           |        |         |
| lo. X-rayed                         | 100        | -               | 137    | 129     | 159       | 258                 | 1                                     | 34                   | 397       | 421    | 818     |
| incidence %                         | 14,1       | CLASS<br>IN LIS | on for | 2       | 200       | aulpoo              | -                                     | Deron<br>Ameri       | 945 8     | . H    | 1908    |
| 965                                 |            |                 |        |         |           |                     |                                       |                      |           |        |         |
| o. X-rayed<br>ctive<br>tuberculosis | 630        | 2               | 1541   | 686     | 461       | 87                  | 2                                     | 211                  | 2634      | 986    | 3620    |
| ncidence %                          | -(02       | est be          | ols !  | no-like | oz 95.01  | town),              | 1-11                                  | (20)                 | -         | -      | -       |
| OT PREVIOUSLY                       | (-RAYED    | (in             | clude  | d in    | above)    |                     |                                       |                      |           |        |         |
| o. X-rayed                          | 18         | 1               | 320    | 349     | 163       | 35                  | 1                                     | 23                   | 502       | 408    | 910     |
| ncidence %                          | -          | -0.09           | -      | 100     | uliah -al | SERVICE SERVICE     | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 139 <del>5</del> 2-2 | 4-2-55EP  | - H    | 1991    |

<sup>\*</sup> colleges, hospitals, etc. only.

| ON-TUBERCULOSIS CASES FOUN | D        |     | 19   | 64          | 19    | 65     |
|----------------------------|----------|-----|------|-------------|-------|--------|
|                            |          |     | Male | Female      | Male  | Female |
| arcinoma of bronchus       |          |     | 3    | -           | 3     | -      |
| neumonitis                 |          |     | 4    |             | 4     | 1      |
| ronchiectasis              |          |     | -    |             | 1     |        |
| iatus hernia               |          |     | 2    |             | 1     | 417    |
| ubsternal goitre           |          |     | -    | - 200       | 1     | 1      |
| ulmonary fibrosis          |          |     | 1    | 219         | 170 - | 30%    |
| leural thickening          |          |     | 1    | 1           | 1     | -      |
| bdominal adhesions         |          |     | 1    | -           | -     | -      |
| allous formation after cou | gh fract | ire | 1    | -           | -     | -      |
| ypho-scoliosis             |          |     | -    | 1           | - 96  | 1 -969 |
| yopathy                    |          |     | L-1  | SEATE OF    | -     | 1      |
| Moved into district        |          |     |      | C3 (C50) #5 | 0.98  |        |
|                            |          |     | 13   | 2           | 11    | 3      |
|                            |          |     |      |             |       |        |
| ardio vascular lesions     |          |     | 3    | 2           | 7     | 4      |
| bnormalities requiring no  | action   |     | 81   | 7           | 61    | 5      |

#### TABLE XV -

#### TUBERCULOSIS

# (a) Respiratory (continued)

DARTFORD CHEST CLINIC: Dartford Borough provides about one quarter of the population served by the clinic.

| vacounation in SERRyear under  | 1961                        | 1962                        | 1963           | 1964           | 1965                      |
|--|-----------------------------|-----------------------------|----------------|----------------|---------------------------|
| Total persons attending for first time (a) Referred by doctors (b) Contacts (c) From other sources, e.g. transfers | 1,516<br>1,081<br>356<br>79 | 1,715<br>1,217<br>448<br>50 |                |                | 1,444<br>722<br>696<br>26 |
| New cases (a) Active pulmonary tuberculosis (b) Non-pulmonary tuberculosis (c) Bronchial neoplasm                  | 50<br>14<br>23              | 57<br>10<br>39              | 50<br>10<br>34 | 41<br>11<br>32 | 23<br>9<br>34             |
| Found to be sputum positive  |                             |                             |                |                |                           |
| (a) New cases<br>(b) Old cases   | 9                           | 25<br>24                    | 16             | 18             | 14                        |
| Total attendances Total individuals attending  | 7,197                       | 7,328                       | 6,948          | 6,181          |                           |

In addition to the above some 500 conditions other than tuberculosis or cancer were found each year.

#### TUBERCULOSIS (b) NON-RESPIRATORY

#### NOTIFICATIONS IN RECENT YEARS

| 1957 | 2 | 1960 | 2 | 1963 | 7 |
|------|---|------|---|------|---|
| 1958 | 6 | 1961 | 8 | 1964 | 2 |
| 1959 | 2 | 1962 | 2 | 1965 | 2 |

The notifications of 1964 were: one female aged 26 with tuberculosis of endometrium and one male aged 29 with urogenital tuberculosis and infected urine.

The notifications of 1965 were: one female aged 25 with tuberculosis of uterus and one male aged 40 with tuberculosis of the testis.

NUMBER OF CASES OF NON-PULMONARY TUBERCULOSIS ON REGISTER AT DECEMBER 31ST.

|                                      | Male                       | Female                     | Persons                    |                                      | Male                       | Female                     | Persons                    |
|--------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------------------|----------------------------|----------------------------|----------------------------|
| 1956<br>1957<br>1958<br>1959<br>1960 | 27<br>25<br>28<br>25<br>25 | 33<br>33<br>33<br>30<br>31 | 60<br>58<br>61<br>55<br>56 | 1961<br>1962<br>1963<br>1964<br>1965 | 27<br>25<br>26<br>25<br>25 | 35<br>34<br>34<br>37<br>36 | 62<br>59<br>60<br>62<br>61 |
| CHANGES IN THE REC                   | ISTER                      |                            |                            |                                      |                            |                            |                            |
| Addit                                | ions:                      | 1964                       | 1965                       | Removal                              | g:                         | 1964                       | 1965                       |
| New notificat<br>Inward transf       |                            | 2 2                        | 2                          | Recovered<br>Lost sight<br>Death     | of                         | 68 1 3                     | 3                          |

The removal by death related to a boy aged 15 months who died from tuberculous meningitis. He came from a crowded household. He was notified in 1963 and died in 1963.

#### TABLE XVI - VACCINATIONS

#### Virus Diseases

## (a) POLIOMYELITIS

For the years 1957 to 1960 the figures provided by County Hall for raccination against poliomyelitis for each year gave the number of persons form in each of stated years who had received vaccination in each year under review. When we had figures in this detail we could assemble them in a way which demonstrated the size and pattern of the immunity barrier ready to oppose the spread of poliomyelitis. For 1961 the figures we received related to persons in age groups each of several years of birth. For 1962 similar groupings were also used but the groupings of years of birth were slightly different. For 1963 the groupings were the same as 1962 and we were able to manage the figures concisely enough for example to give the following in our 1963 report:-

Percentage of young population vaccinated 1959-1963

| Born      | Estimated population | No. had<br>2nd dose | % of<br>population | *No. had<br>3rd dose | % of population |
|-----------|----------------------|---------------------|--------------------|----------------------|-----------------|
| 1957-1963 | 5104                 | 3389                | 67%                | 3858                 | 76%             |
| 1943-1956 | 8578                 | 1602                | 19%                | 6233                 | 73%             |
| 1943-1963 | 13682                | 4991                | 36%                | 10091                | 74%             |

<sup>\*</sup> For footnote see 1963 report, it explains why more 3rd doses than 2nd doses.

The raw figures for this current report were provided to us in yet a different form. For 1964 they were in age groups which differed from those of 1963 and the figures for 1965 not only differed in their age groups from those of 1964 but in addition were limited to age groups under sixteen years of age.

The above difficulties explain some of the short comings in the presentation of the figures that follow:-

Completed courses of primary vaccination (3 doses or equivalent) Dartford

|                   |                           |   |             |                 |                       |                        |                          |                          | Borough  | n                      |
|-------------------|---------------------------|---|-------------|-----------------|-----------------------|------------------------|--------------------------|--------------------------|--|------------------------|
| Vaccinated        |                           |   |             | Vacc:           | inated                |                        | 92.000                   | aren.                    |  |                        |
| Previous<br>years | 1961                      | Born<br>in<br>year                            | 1962        | 1963            | 1964                  | 1965                   | 1962-65                  | Est.<br>pop.<br>1965     | % immune<br>Dec.31<br>1965<br>Dartford<br>M.B. | and<br>Wales           |
|                   | oltre<br>ercels<br>conleg | 1965<br>1964<br>1963<br>1962                  | - 81        | -<br>111<br>513 | -<br>138<br>512<br>53 | 237<br>636<br>43<br>20 | 237<br>774<br>666<br>667 | 876<br>852<br>752<br>773 | 27%<br>91%<br>88%<br>86%                       | ?<br>65%<br>71%<br>71% |
| 10516             | 2347                      | ( 1961<br>(Previous<br>(years &<br>(a few ot) | 544<br>2109 | 82<br>189       | 20)<br>647)           | 591*                   | 646+                     | 807                      | 80% +  | ?                      |

<sup>\*</sup> born 1949-61

TABLE XVI

VACCINATIONS (continued)

### (a) POLIOMYELITIS (continued)

Completed course of 4 doses

Dartford M.B.

| Complete                                  | en contrae c                  | 1 4 00868                    | Dar Glord H.D.       |                               |                      |  |  |
|---|-------------------------------|------------------------------|----------------------|-------------------------------|----------------------|--|--|
| 1961                                      |                               | 1962                         |                      |                               | 1963                 |  |  |
| Age group                                 | Completed<br>4 doses          | Age group                    | Completed<br>4 doses | Age group                     | Completed<br>4 doses |  |  |
| School children<br>aged under<br>12 years | 2472                          | Born 1943 to<br>1956         | 623*                 | Aged betwee 5 and 12 years    | een 404*             |  |  |
|   | Age group                     | 1964<br>Completed<br>4 doses | Ago                  | 1965<br>e group               | Completed<br>4 doses |  |  |
|   | Born 1964<br>" 1963<br>" 1962 | 12                           | 4.5                  | orn 1965<br>" 1964<br>" 1963  | 1 20er               |  |  |
|   | " 1962<br>" 1961<br>" 1949-6  | 0 519*                       | the .                | " 1963<br>" 1962<br>" 1958-61 | 452*) 518            |  |  |
|   | " 1933-4                      | 8 2                          | 100                  | 1949-57                       | 66*)                 |  |  |

\*When dead vaccine had been previously given by injection 4th doses by injection or by oral route were given around the year of school entry. Most of these latter doses must therefore have been given at ages from 5 to 8. By 1965 the practice followed was to give three oral doses in infancy followed by a fourth oral dose on starting school.

# Percentage of children aged 5 - 11 who have had 4 doses

| Year | Birth<br>years | Est.<br>Pop. | Number<br>with<br>4th<br>dose | (e)  | rers<br>(f)<br>Pop. | leavers<br>immune<br>2472/3981=<br>62%<br>(f) | Col.(d)<br>cumula-<br>tive. |      | No.with<br>4th dose<br>at end<br>of year<br>(h)-(i) | % with<br>4th dose<br>at end of<br>year<br>j/c x 100 |
|------|----------------|--------------|-------------------------------|------|---------------------|---|-----------------------------|------|---|--|
| 1961 | 1950-56        | 3981         | 2472                          | 1950 | 584                 | 362   | 2472                        | 362  | 2110  | 53%  |
| 1962 | 1951-57        | 4088         | 623                           | 1951 | 549                 | 340   | 3095                        | 702  | 2393  | 59%  |
| 1963 | 1952-58        | 4207         | 404                           | 1952 | 515                 | 319   | 3499                        | 1021 | 2478  | 59%  |
| 1964 | 1953-59        | 4381         | 519                           | 1953 | 577                 | 358   | 4018                        | 1379 | 2639  | 60%  |
| 1965 | 1954-60        | 4528         | 452                           | 1954 | 569                 | 352   | 4470                        | 1731 | 2739  | 61%  |

The above table contains assumptions and estimates the rough nature of which only justify figures to the nearest hundred. The figures are not so rounded off in order that the origin of certain figures can thereby be discerned.

### TABLE XVI - VACCINATIONS (continued

#### (b) SMALLPOX

# NUMBERS VACCINATED and REVACCINATED by age at date of Vaccination Vaccinated

| Year       | Under 1 year  | 1 year | 2 - 4      | 5 - 15           | 15 or over | Total |
|------------|---------------|--------|------------|------------------|------------|-------|
| 1965       | ?             | 476    | ?          | ?                | ?          | ?     |
| 1964       | ?             | 377    | ?          | ?                | ?          | ?     |
| 1963       | ?             | 139    | ?          | ?                | ?          | ?     |
| 1962       | 562           | 81     | 183        | 639              | 908        | 2373  |
| 1961       | 500           | 38     | 13         | 13               | 6          | 570   |
| 1960       | ?             | ?      | ?          | ?                | ?          | ?     |
| 1959       | 433           | -      | 38 —       | 14               | 9          | 494   |
| 1958       | 357           | -      | 27         | 16               | 20         | 420   |
| ache la be |               |        | Revaccin   | nated            |            |       |
| 1965       | ? ?           | ?      | ?          | 1)Age 5-7        | 301 - ?    | ?     |
| 1964       | ?             | ?      | ?          | -) years         | ?          | ?     |
| 1963       | ?             | ?      | ?          | 1) "             | ?          | ?     |
| 1962       | 59            | 10     | 137        | 916              | 2065       | 3128  |
| 1961       | ("S23 12028") | 207 -1 | de prop 10 | Francisco 1 1600 | 6          | 6     |
| 1960       | ?             | ?      | ?          | ?                | ?          | ?     |
| 1959       | -             | 1      | /          | 4                | 11         | 15    |
| 1958       | 17,1965       | _      | 1/         | 10               | 29         | 40    |

INFANT VACCINATION RATE: Up to the end of 1961 most infants who were vaccinated were vaccinated in the first year of life but in 1962 more infants than in former years were vaccinated at a later age. In 1963 the second year of life was advocated as an age for vaccination. The percentage of the number of births in a year of those vaccinated while under one year of age in that year is used here as a vaccination rate up to 1962.

|      | Now of live births | No. vaccinated under 1 yes       | r % of births of those vaccinated            |
|------|--------------------|----------------------------------|--|
| 1965 | 898                | *** ** Column . 301 200 1570 390 | Sandan San San San San San San San San San S |
| 1964 | 865                | ?                                | ?  |
| 1963 | 780                | (a) - I Books   Francisco        | ?  |
| 1962 | 789                | 562                              | 72%  |
| 1961 | 824                | 500                              | 61%  |

SECOND YEAR VACCINATION RATE: With practice changing to vaccination in the second year of life the County no longer record vaccinations at ages under 1 year, consequently the expedient rate is now the vaccinations done as a percentage of infants surviving to the age of one year.

|      | Infants aged 1 year approx. | Vaccinations done at age 12 - 23 months | % of those eligible vaccinated |
|------|-----------------------------|---|--------------------------------|
| 1965 | 852                         | 476                                     | 56%                            |
| 1964 | 752                         | 377                                     | 50%                            |
| 1963 | 773                         | 139                                     | 18%                            |
| 1962 | 807                         | 81                                      | 10%                            |
| 1961 | 724                         | 38                                      | 5%                             |

SCHOOL CHILD IMMUNTTY DECEMBER 1965: When records of vaccination and revaccination of all young age groups were available it was feasible to make an estimate of school child immunity. Records are now incomplete and this is no longer feasible. However, vaccination and revaccination of children of school age is now minimal and the immunity is mainly that from the vaccinations and revaccinations done in 1962 when smallpox was in the country. Our 1963 report estimated 1530 or 26% of those born 1949-58 to have this legacy in December 1963. 638 and 584 • 1222 left this age group by December, 1965 i.e. 26% 1222 = 318 left who were immune therefore 1530 - 318 = 1212 with immunity remained. The 5-14 population Dec. 1965 was 6169. Thus roughly 1212/6169 = 20% of school children had some immunity in December, 1965.

TABLE XVI -

VACCINATIONS (continued)

## Bacterial Diseases

# (c) DIPHTHERIA

## NUMBER VACCINATED

| Vacan | Age at 31st               | Primary inoculations | Reinforcing inoculations |
|-------|---------------------------|----------------------|--------------------------|
| Year  | December in<br>years      | done in the year     |                          |
| 1965  | 0 - 4<br>5 - 7<br>8 - 16  | 941<br>6<br>3        | 481<br>440               |
| 1964  | 0 - 4<br>5 - 9<br>10 - 14 | 695<br>7             | 434<br>375<br>3          |
| 1963  | 0 - 4                     | 643                  | 431                      |
|       | 5 - 9                     | 4                    | 332                      |
|       | 10 - 14                   | 1                    | 4                        |
| 1962  | 0 - 4                     | 665                  | 390                      |
|       | 5 - 9                     | 14                   | 274                      |
|       | 10 - 14                   | 3                    | 3                        |
| 1961  | 0 - 4                     | 795                  | 244                      |
|       | 5 - 9                     | 71                   | 395                      |
| 1960  | 10 - 14                   | 35                   | 62                       |
|       | 0 - 4                     | 794                  | 139                      |
|       | 5 - 9                     | 32                   | 262                      |
|       | 10 - 14                   | 5                    | 17                       |

## PRIMARY VACCINATIONS

at age 0 - 4 years before December 31st, 1965 in children aged 0 - 10 years

| 45      | Age<br>Dec.31 | AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM | ccinat | ed in | year e | nding    | Decemb | er 31st | PLEASE VE | Est. | %                                   |
|---------|---------------|--|--------|-------|--------|----------|--------|---------|-----------|------|-------------------------------------|
| Born    | 1965          | 1955-59  | 1960   | 1961  | 1962   | 1963     | 1964   | 1965    | 1955-65   | Pop. | vaccinated<br>at age<br>0 - 4 years |
| 1965    | 0             | salozolai  | off    | nolta | Longi  | Viete la | 3      | 417     | 417       | 876  | 48%                                 |
| 1964    | 1             | PERSONAL PROPERTY.   | no     | t bo  | rn     | 9.000    | 315    | 488     | 803       | 852  | 94%                                 |
| 1963    | 2             | Es 3102  |        | 777   | - 19   | 295      | 351    | 23      | 669       | 752  | 89%                                 |
| 1962    | 3             | No.  |        | -     | 318    | 334      | 21     | 7       | 680       | 773  | 88%                                 |
| 1961    | 4             | - 4 70   | -      | 376   | 326    | 9        | 7      | 6       | 724       | 807  | 90%                                 |
| 1960    | 5             | 1- 7-7-  | 332    | 331   | 13     | 3        | 1      | 1       | 680       | 724  | 94%                                 |
| 1959    | 6             | 142  | 385    | 41    | 4      | 2        |        | 1       | 574       | 689  | 83%                                 |
| 1958    | 7             | 466  | 16     | 24    | 4      |          |        |         | 510       | 668  | 76%                                 |
| 1957    | 8             | 514  | 19     | 23    | 1080   | 1 32     | aged   | 5 +     | 556       | 691  | 80%                                 |
| 1956    | 9             | 482  | 12     | 10.05 | BEFRE  | 1000     | engine | Prode . | 494       | 618  | 80%                                 |
| 1955    | 10            | 445  |        |       | A Park |          |        | 5       | 445       | 569  | 78%                                 |
| 1955-65 | 0-10          | 2049   | 764    | 795   | 665    | 643      | 695    | 941     | 6552      | 8019 | 82%                                 |
|         | 1             | 26%  | 9%     | 10%   | 8%     | 8%       | 9%     | 12%     | 82%       |      |                                     |

TABLE XVI -

VACCINATIONS (continued)

Bacterial Diseases

(c) DIPHTHERIA (continued)

REINFORCING VACCINATIONS by December 31st, 1965

| Born             | Age<br>Dec.31<br>1965 | 1955-59   | 1960 | 1961   | 1962 | 1963 | 1964 | 1965 | 1955-65 | Est.<br>popu-<br>lation | %<br>revaccin-<br>ated by<br>Dec.65 |
|------------------|-----------------------|-----------|------|--------|------|------|------|------|---------|-------------------------|-------------------------------------|
| 1965             | 0                     |           |      | - 20 - |      |      | 14   | ar   | - 8_ 9  | 876                     | 0%                                  |
| 1964             | 1                     | \$4<br>10 | 1    | not bo | rn   | ated | -    | 32   | 32      | 852                     | 4%                                  |
| 1963             | 2                     |           |      |        | 19   | -    | 25   | 322  | 347     | 752                     | 46%                                 |
| 1962             | 3                     | 20        |      |        | E=3  | 18   | 292  | 77   | 387     | 773                     | 50%                                 |
| 1961             | 4                     |           |      | -      | 20   | 302  | 77   | 50   | 449     | 807                     | 56%                                 |
| 1960             | 5                     | OF.       | 2    | 9      | 268  | 75   | 40   | 147* | 539     | 724                     | 74%                                 |
| 1959             | 6                     | -         | 6    | 134    | 67   | 36   | 75*  | 147  | 465     | 689                     | 67%                                 |
| 1958             | 7                     | -         | 70   | 65     | 35   | 66*  | 75   | 147  | 458     | 668                     | 69%                                 |
| 1957             | 8                     | 9         | 28   | 36     | 55*  | 66   | 75   | -    | 269     | 691                     | 39%                                 |
| 1956             | 9                     | 18        | 35   | 79*    | 55   | 66   | 75   | -    | 328     | 618                     | 53%                                 |
| 1955             | 10                    | 46        | 187  | 79     | 55   | 66   | 75   |      | 508     | 569                     | 91%                                 |
| 955/65           | 0-10                  | 73        | 326  | 402    | 555  | 695  | 809  | 922  | 3782    | 8019                    | 47%                                 |
| 0-10 a<br>% reva | ge group<br>ccinated  | 1%        | 4%   | 5%     | 7%   | 9%   | 10%  | 11%  | 47%     | TO AND DE               | AV YEARTS                           |

<sup>\*</sup>Average of age group of several years. \*Some of these revaccinations at school entry may be in children already enumerated at age 18-21 months.

# (d) WHOOPING COUGH

| NUMBER VACCINATED Year | Age at 31st<br>December in<br>years  | Primary inoculations done in the year | Reinforcing inoculations done in the year |
|------------------------|--------------------------------------|---------------------------------------|---|
| 1965                   | 0 - 4<br>5 - 7<br>8 - 16             | 924<br>1<br>1                         | 398<br>96<br>1                            |
| 1964                   | 0 - 4<br>5 - 9<br>10 - 14            | 682                                   | ?   |
| 1963                   | 0 - 4<br>5 - 9<br>10 - 14            | 611 2 -                               | ? ?                                       |
| 1962                   | 0 - 4<br>5 - 9                       | 647                                   | ?   |
| 1961                   | 10 - 14<br>0 - 4<br>5 - 9<br>10 - 14 | 740<br>37<br>12                       | ?<br>?                                    |
| 1960                   | 0 - 4<br>5 - 9<br>10 - 14            | 759<br>22<br>1                        | ? ?                                       |

TABLE XVI .

VACCINATIONS (continued)

Bacterial Diseases

(d) WHOOPING COUGH (continued)

#### PRIMARY VACCINATIONS

|        | Age                 | 1 9939    | Va       | ccinat | ed in | year e | nding       | Decemb | er 31s  | t       | Est.     | 1 %  |
|--------|---------------------|-----------|----------|--------|-------|--------|-------------|--------|---------|---------|----------|------|
| Year   | Dec.31<br>1965      | 1958      | 1959     | 1960   | 1961  | 1962   | 1963        | 1964   | 1965    | 1958-65 |          |      |
| 1965   | 0                   | William . |          | not    | born  |        |             |        | 405     | 405     | 876      | 46%  |
| 1964   | 1                   | PEldro    |          |        |       |        |             | 310    | 485     | 795     | 852      | 93%  |
| 1963   | 2                   | bedree    |          |        |       |        | 287         | 345    | 23      | 655     | 752      | 87%  |
| 1962   | 3                   | 975 6     |          |        |       | 331    | 310         | 21     | 6       | 668     | 773      | 86%  |
| 1961   | 4                   | croso     |          |        | 370   | 299    | 9           | 6      | 5       | 689     | 807      | 86%  |
| 1960   | 5                   | balanted  | DON'T 97 | 332    | 308   | 12     | 3           | hra-   | of met. | 655     | 724      | 86%  |
| 1959   | 6                   | 17 63.17  | 292      | 367    | 31    | 3      | 2           | one on | 1 57 bi | 695     | 689      | 101% |
| 1958   | 7                   | 229       | 281      | 32     | 17    | 2      | No. of Lots | aged   | 1 5+    | 561     | 668      | 84%  |
| 1958-6 | 5 0-7               | 229       | 573      | 731    | 726   | 647    | 611         | 682    | 924     | 5123    | 6141     | 84%  |
|        | ge group<br>cinated | 4%        | 9%       | 12%    | 12%   | 11%    | 10%         | 11%    | 15%     | 84%     | ELV<br>5 | 6-10 |

<sup>\*</sup> Illustrates the scope for error in our population estimate based on births but excluding migration.

REINFORCING VACCINATIONS. As since 1960 combined vaccine has been used for whooping cough, diphtheria and tetanus and reinforcing vaccinations at 18-21 months are done with the combined vaccine the number of reinforcing vaccinations at this age for whooping cough is similar to that for diphtheria.

### (e) TETANUS

1965 is the first year for which we have figures for tetanus vaccination.

| Age 31st<br>December | Primary vaccinations<br>done in 1965 | Reinforcing vaccinations<br>done in 1965 |
|----------------------|--------------------------------------|--|
| 0 - 4 years          | 941                                  | 481                                      |
| 5 - 7 years          | 6                                    | 440                                      |
| 8 - 16 years         | 3                                    | Nov. 19-19 85017 1 12 189 don 10         |

In view of the introduction of the combined vaccine in 1960 the numbers of primary vaccinations against tetanus in years 1960-64 can be assumed to be almost identical with those of diphtheria vaccination.

TABLE XVI

# VACCINATIONS (continued) Bacterial Diseases

#### (f) TUBERCULOSIS

Children in close contact with patients suffering from tuberculosis are, if necessary, vaccinated with B.C.G. The following vaccinations were carried out at the Chest Clinic, Dartford:-

|                  |      | Children | under | 15 years | of age |      |      |
|------------------|------|----------|-------|----------|--------|------|------|
|                  | 1959 | 1960     | 1961  | 1962     | 1963   | 1964 | 1965 |
| Dartford R.D.    | 160  | 139      | 131   | 184      | 119    | 120  | 131  |
| Dartford Borough | 133  | 126      | 126   | 129      | 101    | 93   | 126  |

Some persons attend other clinics and therefore, these figures are incomplete.

Vaccination of school children is carried out by the School Health Services. These children are skin tested and those who do not react are vaccinated. Those who do react are referred to the Chest Physician for further investigation. Figures are not available for the Rural District.

1961

610

1962

670

1963

1964

1965

Total number of persons vaccinated with B.C.G. at Dartford Chest Clinic including residents elsewhere and hospital staff:-

1960

660

1959

676

|   | 676 668                            | 619                               | 670 564                           | 592 595                       | bedanilbay                        |
|---|------------------------------------|-----------------------------------|-----------------------------------|-------------------------------|-----------------------------------|
|   | COMI                               | PARISON WITH                      | H OTHER AREA                      | S                             |                                   |
|   | Dartford<br>M.B.                   | Dartford<br>R.D.                  | Northfleet U.D.                   | Kent<br>C.C.                  | England<br>& Wales                |
| POLIOMYELITIS   |                                    |                                   |                                   |                               |                                   |
| Primary vaccination<br>Born 1964 and vaccinated<br>1964 or 1965   | 91%                                | 87%                               | 80%                               | 81%<br>"eligible<br>children" | 65%                               |
| Reinforcing vaccination<br>Born 1954-60 and had 4th<br>dose by December 1965  | 61%                                | 74%*                              | 59%                               | 71%<br>"eligible<br>children" | ?                                 |
| SMALLPOX  |                                    |                                   |                                   |                               |                                   |
| Primary vaccination<br>Aged 13-23 months<br>vaccinated in 1965  | 56%                                | 71%                               | 65%                               | 61%<br>"eligible<br>children" | 33%                               |
| Revaccination<br>School children<br>revaccinated 1965 as<br>% of school entrants                                      | 0%                                 | 0%                                | 0%                                | ? of general ?                | 3%                                |
| DIPHTHERIA  |                                    |                                   |                                   | and a company                 |                                   |
| Primary vaccination<br>Born 1964 and<br>vaccinated in 1964 or 19  | 94%<br>65                          | 87%                               | 93%                               | 66% "eligible children"       | realing to                        |
| Reinforcing vaccination<br>Born 1961 and reinforcing<br>vaccination by 1965.  | 56%<br>g                           | 75% *                             | 56%                               | ?                             | ?                                 |
| "% total number of 0-4<br>age group who have<br>completed primary vacc.<br>within last 5 years" by<br>December, 1965. | Pop. 4060<br>Vacc. 3293<br>% = 81% | Pop. 5831<br>Vacc.4472<br>% = 80% | Pop. 2367<br>Vacc.1824<br>% = 77% | ?                             | Pop.4113000<br>Vacc. ?<br>% = 56% |
| December, 1965.   |                                    |                                   |                                   |                               |                                   |

With the prevailing use of triple vaccine comparisons for whooping cough and tetanus vaccination can be assumed to be similar to the above.

<sup>\*</sup> The population estimate does not include an estimate for the balance of migration and thus is an underestimate which makes above percentage an overestimate.

#### APPENDIX I.

#### HOUSTNG

|  |             | HOUSING  |           |                 |          |         |                             |      |
|--|-------------|----------|-----------|-----------------|----------|---------|-----------------------------|------|
| NEW DWELLINGS. The following w   | ere comp    | pleted i | n recen   | t years         | :-: In   |         |                             |      |
|  | 1960        | 1961     | 1962      | 1963            | 1964     | 1965    |                             |      |
| By Council enterprise  | 78          | 109      | 33        | 52              | 150      | 138     |                             |      |
| By private enterprise  | 175         | 82       | 144       | 78              | 108      | 33      |                             |      |
|  | 253         | 191      | 177       | 130             | 258      | 171     |                             |      |
| By Council enterprise - One bedroom  | 13          | 38       | 29        | 12              |          | 32      |                             |      |
| Two bedrooms   | 65          | 60       | 4         | 4               | 68       | 26      |                             |      |
| Three bedrooms   | 1-109430    | 9        | ME (2)    | 36              | 82       | 80      |                             |      |
| Four bedrooms  | TOO I TO    | 2        | Out I de  | Teditor         | and Smit | wo. IS  |                             |      |
|  | 78          | 109      | _33       | 52              | 150      | 138     |                             |      |
| APPLICANTS FOR COUNCIL HOUSES.   | Waiting     | g list a | at end o  | f Decem         | ber, 19  | 60-1965 |                             |      |
|  | 1960        | 1961     | 1962      | 1963            | 1964     | 1965    |                             |      |
|  | 1276        | 1268     | 1180      | 1149            | 1194     | 1162    |                             |      |
| Priority on medical grounds.   | Recomme     | endation | s were    |                 |          |         |                             |      |
| Tuberculo  | sis         |          |           | Other           | than tu  | berculo | sis                         |      |
| Number of point  | s given     |          |           |                 | r of po  | ints gi | ven                         |      |
| Total Applications 0 1-  | 5 6-10      | ol and   | AT        | Total           | ons 0    | 1-5     | 6-10                        |      |
| 1964 (a)*  | , , ,       | r foul   |           | 25              | 3        | 20      | 2                           |      |
| (b)* 1 - 1   | people to   |          |           | 72              | 19       | 50      | 3                           |      |
| 1965 (a)*  | de telks    |          |           | 42              | 8        | 33      | 1                           |      |
| (b)* 1 - 1   | 900000      | als .    |           | 64              | 13       | 49      | 2                           |      |
| (a) = for transfer (b) =   | for rel     | nousing  |           |                 |          |         |                             |      |
| Rehoused or transfe  | erred       |          |           | Rehou           | sed or   | transfe | rred                        |      |
| 1964 (a)   | to supplied |          | 1964      | (a) 13          | 2        | 11      | -                           |      |
| (b)<br>1965 (a) 1  | Eger        |          | 1965      | (b) 40<br>(a) 9 | 10       | 30<br>8 | -                           |      |
| 1965 (a) 1 (b) 1 - 1   | 100         |          | 1905      | (b) 20          | 1        | 19      | M Joseph                    |      |
| - 30.0   |             |          | 1064      | 100             | -        |         |                             |      |
| UNFIT HOUSES  Made fit by informal ac  | tion        |          | 1964      | 196             | -        |         |                             |      |
| Made fit by statutory n  | notice      |          | 47        | 27              |          |         |                             |      |
| Demolished by Council s  |             |          | 8         | nil             |          |         |                             |      |
| Closed by statutory act<br>Families displaced  | ion         |          | nil<br>10 | nil<br>5        |          |         |                             |      |
| Houses demolished or closed:   | S BOD       | =-       | TT pag    | - 63            | - 54     | 049     | 115H                        |      |
| 1964 Nos. 107-119 Hythe Stre   |             |          | 1965      |                 | -29 Ove  | (5 h    | et<br>louses)bo<br>lolished | ough |
| COLUMNIA OF THE STATE OF THE ST | A TOTAL     | 106.     |           | and and         | HOII 60  | De dell | Oligied                     | Telu |
| STATUTORY OVERCROWDING: Known of IMPROVEMENT GRANTS. Discretions   | ry 1964     | €8017.   | 8. 1      | one<br>Stan     |          |         | 767. 0.                     |      |
| TOTA 4001 1001 1001  |             | £5748.   | 4 1965    | 196             |          | 61      | 934.15.                     |      |
| CARAVANS. Site licences in force   |             | .64 - 3  |           | of car          | avans p  | ermitte | 31.12.<br>31.12.            |      |

#### APPENDIX II.

#### WATER

GATHERING GROUND. The chalk below this district is part of the gathering ground for this part of Kent. All the permanent dwellings of Dartford Borough have the Metropolitan Water Board's water piped into them. Two hospitals and three factories have their own well supplies.

QUANTITY. The quantity of water at present is abundant.

QUALITY.

# (a) Bacteriological

In the following the number of E.coli. type 1 per 100 ml. is used to summarize the information provided by samples.

|   | Number of |      | E.col | i type 1                    |
|---|-----------|------|-------|-----------------------------|
|   |           | les  |       | 00 ml.                      |
|   | 1964      | 1965 | 1964  | 1965                        |
| Dartford Metropolitan Water Board well(raw water) | 249       | 205  | 0     | 0                           |
| West Hill Hospital (raw water)                    | 10        | 10   | 0     | 0                           |
| Bexley Hospital (chlorinated in well)             | 4         | 3    | 0     | 0                           |
| J. & E. Hall Ltd.(2 wells) (raw water)            | 8         | 8    | 0     | 0                           |
| Dartford Paper Mills Ltd.(2 wells) (raw water)    | 4         | 4    | 0     | 0                           |
| London Paper Mills (raw water) No.3 well          | 0         | 1    |       | - 0                         |
| No.2 well   | 4         | 7    | 0     | 0                           |
| No.1 well   | 4         | 17   | 0     | 0 in twelve,<br>1,3,3,7,&90 |

# (b) Chemical

General. The following number of part per million is used to summarize the information provided by samples

|  | Number of samples |      | Av.albuminoid<br>ammonia |      | Natural fluorid |      |
|--|-------------------|------|--------------------------|------|-----------------|------|
|  | 1964              | 1965 | 1964                     | 1965 | 1964            | 1965 |
| Dartford Metropolitan Water Board well | 4                 | 4    | 0.02                     | 0.04 | 0.15            | 0.15 |
| London Paper Mills                     | 0                 | 2    | -                        | 0.06 | -               | ?    |

Nitrates. With the feeding of newborn and premature babies in mind the water at West Hill Hospital was sampled periodically for estimation of nitrates.

| No. of samples |      | Average n | itrate nitrogen | Ran          | Range       |  |  |
|----------------|------|-----------|-----------------|--------------|-------------|--|--|
| 1964           | 1965 | 1964      | 1965            | 1964         | 1965        |  |  |
| 8              | 3    | 11 p.p.   | m 9 p.p.m       | 10-12 p.p.m. | 8-10 p.p.m. |  |  |

#### SWIMMING BATHS

Bacteriological analysis of swimming bath water is done to ascertain the sterilizing ability of the chlorine dosage on the pollution introduced by bathers.

|                              | No. of |      | E. coli type 1 |      |          | Plate count |      |            |  |
|------------------------------|--------|------|----------------|------|----------|-------------|------|------------|--|
|                              | samp   | les  | per 100 ml.    |      | Ave.     | Ave. Range  |      | Ave. Range |  |
|                              | 1964   | 1965 | 1964           | 1965 | 1964     | 1965        | 1964 | 1965       |  |
| Burnham Road-Shallow end     | 9      | 10   | 0              | 0    | 6        | 0-50        | 0    | 0-0        |  |
| Deep end                     | 9      | 10   | 0              | 0    | 2        | 0-12        | 14   | 0-125      |  |
| Dartford College of Physical |        |      |                |      |          |             |      |            |  |
| Education - Shallow end      | 8      | 9    | 0              | 0    | 1        | 0-7         | 1    | 0-12       |  |
| Deep end                     | 8      | 9    | 0              | 0    | 2        | 0-13        | 1    | 0-4        |  |
| Oakfield Lane C.P.School     |        |      |                |      |          |             |      |            |  |
| Inlet end                    | 0      | 1    | CLUE COM       | 0    | or samop | 10% 000     | 0    | -          |  |
| Outlet end                   | 0      | 1    | pa Traff       | 0    | -        | -           | 7    | -          |  |

#### APPENDIX III.

#### DRAINAGE

With the few exceptions mentioned below all the dwellings in the Borough are on main drainage, the sewage being led to the works of the West Kent Main Sewerage Board on the periphery of the Borough by the River Thames.

Work carried out on the instigation of the Council's Public Health Inspectors

| was as follows:-   |  | 1964            | 1965           |
|--|--|-----------------|----------------|
| Drains   | - cleared by service of notice<br>cleared by department<br>repaired<br>reconstructed                                       | 1<br>445<br>5   | 4<br>424<br>3  |
| 2001<br>12 12 142 15<br>10 10 10 10 10 10 10 10 10 10 10 10 10 1 | gully fenders repaired<br>inspection chambers provided<br>inspection chambers repaired<br>vent shaft or air inlet repaired | 1 2 1           | 1 10 10        |
| Cesspools  | - emptied repaired abolished   | 4               | 3              |
| Drainage work  | - drains tested by water<br>drains tested by smoke, colour etc.<br>visits for supervision etc.                             | 19<br>16<br>226 | 27<br>9<br>100 |

Where main drainage was not in use the position in December, 1965 was:-

| Domestic premise | s - Cesspool (foul and sink waste) | 38 |
|------------------|------------------------------------|----|
|                  | Cesspools for foul water only      | 1  |
|                  | Cesspools for sink with earth or   |    |
|                  | chemical closets                   | 2  |
|                  | Septic tanks                       | 7  |
| Factories        | - with cesspools                   | 4  |
|                  | with septic tanks                  | 4  |
|                  | with chemical closets              | 4  |

Some of the cesspools are emptied by the Council, some are emptied by other arrangements, others are never emptied.

#### APPENDIX IV.

#### FOOD HYGIENE

FOOD PREPARATION. Food premises and inspections by the Council's Public Health

| Inspectors were:-                               | Premi<br>1964 | ses<br>1965 | Inspections<br>1964 1965 |     |  |
|---|---------------|-------------|--------------------------|-----|--|
| Bakehouses                                      | 6             | 6           | 20                       | 19  |  |
| Butchers  | 25            | 29          | 132                      | 96  |  |
| Cafes, restaurants, canteens etc.               | 63            | 64          | 140                      | 153 |  |
| Confectioners                                   | 47            | 40          | 91                       | 63  |  |
| Dairies   | 3             | 2           | 4                        | 3   |  |
| Fish fryers and fishmongers(incl.market stalls) | 12            | 13          | 105                      | 42  |  |
| Greengrocers                                    | 29            | 29          | 86                       | 60  |  |
| Grocers   | 69            | 61          | 221                      | 141 |  |
| Ice-cream premises (incl.manufacturers)         | 93            | 91          | 66                       | 26  |  |
| Licensed premises (non-catering)                | 46            | 48          | 84                       | 36  |  |
| Slaughterhouses                                 | 1.            | 1           | 64                       | 66  |  |
| Butchers stalls in markets                      | 1             | 1           | 37                       | 62  |  |
| Grocers stalls in markets                       | gman E1       | 11 ba       | 44                       | 70  |  |
| Fishmongers stalls in markets                   | 1             | \$1         | 43                       | 63  |  |
|   |               |             |                          |     |  |

Of the premises registered as dairies, one only is used as such and this only on rare occasions. The figure for ice cream premises is the number of premises registered most of which are grocers or confectioners, the inspections of which are recorded under these headings.

#### APPENDIX IV. (continued)

Registered premises. Section 16 of the Food and Drugs Act, 1955 requires certain premises to be registered. Those registered were:-

|                                 | 1964         | 1965 |
|---------------------------------|--------------|------|
| Sausage making and cooked meats | 32           | 31   |
| Ice cream manufacture and sale  | itale del ti | 100  |
| Ice cream storage and sale      | 110          | 90   |

Visits to these premises are included in the figures tabulated above.

In 1964 and 1965 as a result of the foregoing inspections, 29 and 49 notices were served and 28 and 44 notices were complied with. The following summarizes the defects remedied:-

|   | 1964 | 1965 |
|---|------|------|
| Premises and equipment cleansed, repaired or improved | 20   | 51   |
| Provision of facilities for first aid or cleanliness  | 14   | 21   |
| Protection of food from risk of contamination         | 7    | 4    |
| Repair or cleaning of sanitary accommodation          | 1    | 21   |
| Miscellaneous   | 4    | 1    |

MILK. The Regulations require this Council to register (a) dairies not being dairy farms, (b) distributors. At 31st December, 1965, 2 dairies and 32 registered distributors were retailing milk in the Borough. All milk sold must be designated and regulations require dealers selling this milk to be licensed by this Council. The number of dealers' licences in force at the 31st December, 1965 were:-

| Tuberculin tested<br>Untreated | Designation no longer | applicable |
|--------------------------------|-----------------------|------------|
| Pasteurised                    | 22                    |            |
| Sterilised                     | 29                    |            |

For possession of a licence, milk sold under these designations must comply with the prescribed tests. For the purpose of these tests the following samples were submitted to the County Analyst by the Council's Public Health Inspectors:

| Designation       | Prescribed test                | 1964 | 1965   |               |
|-------------------|--------------------------------|------|--------|---------------|
| Tuberculin tested | Methylene blue                 | 0    | STREET | All           |
| Untreated         | Methylene blue                 | -    | 0      | satisfied the |
| Pasteurised       | Methylene blue and phosphatase | 22   | 13     | prescribed    |
| Sterilised        | Turbidity of filtrate by heat  | 4    | 4      | tests.        |

ICE-CREAM. Ice-cream is also tested for cleanliness by the time it takes to bleach methylene blue. Anything shorter than  $2\frac{1}{2}$  hours (i.e. grades III and IV) means that the conditions of manufacture and handling require investigation. The results of samples submitted to the laboratory by the Council's Public Health Inspectors were as follows:-

Ice-cream from hot mix manufactured in the Borough and sold from soft ice-cream dispenser:-

|       | 34 | 1964      | 1965      |
|-------|----|-----------|-----------|
| Grade | 1  | 5 samples | 6 samples |
|       | 2  | 6 "       | 3 "       |
|       | 3  | 7 ."      | 1 sample  |
|       | 4  | nil To of | nil       |

Prepacked hot mix ice-cream manufactured outside the Borough:-

| Grade | 1 | 3 samples | 3 samples |
|-------|---|-----------|-----------|
|       | 2 | nil       | 2 "       |
|       | 3 | nil       | 1 sample  |
|       | 4 | nil       | nil       |

#### APPENDIX IV (continued)

Soft ice-cream made outside and frozen at retailers' premises

| Grade | 1 | 12 | samples  | 3 samples |
|-------|---|----|----------|-----------|
|       | 2 | 7  |          | 3 "       |
|       | 3 | 9  | " onvini | nil       |
|       | 4 | 12 | " adivoz | nil       |

MEAT. The following relate to carcases inspected by the Council's Public Health Inspectors at the slaughterhouse of Bexley Hospital.

|  | Cattle                 | ore, feed, in Ed  | 0-200          | Dissident In I       |
|--|------------------------|-------------------|----------------|----------------------|
|  | excl.cows<br>1964 1965 | Cows<br>1964 1965 | 1964 1965      | Pigs<br>1964 1965    |
| Killed<br>Inspected                                  | 10 1<br>10 1           | 7 7 7             | 44 40<br>44 40 | 901 1092<br>901 1092 |
| All diseases except tuberculosis and cysticercosis - |                        |                   |                |                      |
| Whole carcases rejected                              | None None              | none none         | none 3         | 1 1                  |
| Carcases-parts of which were rejected                | Destinated.            | 2 1               | millened tel   | 22 179               |
| Percentage diseased                                  | 100 to 654 516         | 29% 14.3%         | - 7.59         | 6 2% 16.5%           |
| Tuberculosis only -                                  |                        |                   |                |                      |
| Whole carcases rejected<br>Carcases-parts of which   | ONE PROM CHARLE        | zehlunds no be    | Priso Stoq     | Unprotected          |
| were rejected  |                        | - PLS             | a dirty bot    | 29 12                |
| Percentage diseased                                  | or of state            | misches hits be   | ner follow     | 3% 1.1%              |
|  |                        |                   |                | 2 - When             |
| Cysticercosis -                                      |                        |                   |                |                      |
| Carcases found infested                              | ost that fro           | na 1958 to 596    | SAT SARVE      | Tor Decisions        |

#### SEIZURE OR SURRENDER OF UNSOUND FOOD.

| The amount of unsound f   | ood sur    | rendered<br>1964 | Wast- |                       | 1965              |      |
|---------------------------|------------|------------------|-------|-----------------------|-------------------|------|
|                           | tons       | cwts.            | lbs.  | tons                  | cwts.             | lbs. |
| Fish                      | -          | 3                | 66    | enoless to            | 5                 | 61   |
| Meat, poultry etc.        | Laure Laur | 6                | 267   | have 1                | 9                 | 96   |
| Groceries - miscellaneous | 1064       | -                | 31    |                       | 8                 | -    |
| Tinned food               | 19         | 8                | 99    | - 901                 | 11                | 70   |
| Frozen food               | May - and  | 7                | 104   | ah helden an          | 10                | 38   |
| Fresh fruit               | Bost a     | fected g         | 48    | and Decke in his      | Sept-las.         | 38   |
|                           | 20         | 9                | 55    | 3                     | 5                 | 79   |
|                           | -          |                  |       | Branch World Williams | The second second | _    |

FOOD UNFIT FOR CONSUMPTION EXPOSED FOR SALE. Items of food the fitness of which was the subject of complaint to this office by customers were:-

|  | 196    | 54          | 198    | 55        |
|--|--------|-------------|--------|-----------|
|  | Number | 64confirmed | Number | confirmed |
| Tainted, "off" or old                    | 2      | 2           | 4      | 3         |
| Moulds                                   | 8      | 8           | 2      | 2         |
| "Dirt" etc.                              | 2      | 2           | 1      | 1         |
| Insects or their larvae, etcdo- sampling | 3      | 3           | 6      | 6         |

### APPENDIX IV. (continued)

#### Legal Proceedings

|  | Fines     | F      | es     | Costs      |        |
|--|-----------|--------|--------|------------|--------|
| 1964.  | £         | £      | å      | £ d        |        |
| Insect excreta in walnut whip  | 15        |        |        | 31         |        |
| Bacon with blow fly eggs and larvae  | 25        | 10     | 10     |            |        |
| Steak and kidney with mould growths  | 25        | 1007   | 10     |            |        |
| Mouldy sliced bread  | Case dism | nissed | i upon | warrant    | y plea |
| Cake with mould growths  | 20        | 7      | 4      | of Buff -  |        |
| Smoking in food room-open food in room   | 4         | 4      | 4      | 12-110-    |        |
| Smoking in food room-open food in room<br>Ice-cream vehicle without hot water      | 7         | 2      | 2      |            |        |
| No address on ice-cream vehicle  | 2         | 952    | - 1    | 965        |        |
| no address on 100 of can remote  | -         |        |        |            |        |
| 1965.  |           |        |        |            |        |
| Insects in pancake mixture   | 20        | 4      | 4      | hed        |        |
| Rancid butter  | 25        | 5      | 5      |            |        |
| No address on food stall   | 2         | 5      | 5      |            |        |
| No address on ice-cream vehicle  | 2         | 3      | 3      |            |        |
| No address on ice-cream vehicle  | 2         | 912    | W 20 8 | SALES AND  |        |
| Smoking whilst handling lettuces   | 5         | 5      | 5      | 307.005    |        |
| No soap and nailbrush on ice-cream vehicle   | 20        | 5      | 5      |            |        |
| No soap and nailbrush on ice-cream vehicle<br>Unprotected meat carried on shoulder | 20        | 5      | 5      | 0702-      |        |
| Unprotected bacon carried on shoulder  | 5         | 3      | 0      |            |        |
| Unprotected pork carried on shoulder   | 10        | 2      | 2      | an address |        |
| Unprotected pork carried on shoulder   | 10        | 2      | 2      | Demonson   |        |
| Milk sold in dirty bottle  | 5         | 5      | 5      | 17227-12   |        |

# APPENDIX V.

#### FOOD CONTENT

SAMPLING. In 1964, 140 informal samples were obtained by the Council's public health inspectors and were sent for analysis. 18 samples were reported as inferior. In 1965, 2 formal and 129 informal samples were taken and 20 were reported as inferior.

CUSTOMERS: COMPLAINTS. In 1964, 12 and in 1965, 11 were related to recognisable items of foreign matter in food.

#### LEGAL PROCEEDINGS.

|   | Fines    | F   | ees | Costs  |      |  |
|---|----------|-----|-----|--------|------|--|
| 1964  | £        | £   | 8   | £      | 8    |  |
| Bread containing soiled dough<br>Malt loaf containing piece of tin    | 20<br>25 | 7 4 | 7 4 | 1051   | 7.00 |  |
| 1965  |          |     |     |        |      |  |
| Apple pie containing wood<br>Bread containing soiled dough            | 25<br>30 | 10  | 10  | 26     | 5    |  |
| Bread roll containing soiled dough Bacon containing surgical dressing | 25<br>15 | 5   | 5   | petane | 1    |  |

#### APPENDIX VI.

#### AIR HYGIENE

#### SMOKE CONTROL

DOMESTIC. By the end of 1965 smoke control orders were in operation for areas Nos. 1, 2, 3, 4 and 5, Temple Hill North, East and West, the details of the premises being:-

| Areas (acres)                                | 1010 |
|--|------|
| Number of local authority dwellings          | 3057 |
| Number of other dwellings                    | 3102 |
| Number of industrial and commercial premises | 64   |
| Number of other premises                     | 35   |

INDUSTRIAL. Complaints attended to by the Council's Chief Public Health Inspector were mainly in 1965 and were as follows.

Acid smuts, remedied by addition of alkaline dust to flue gases. Dark smoke, remedied by new steam raising plant.

Grit emission - circumstances exceptional.

Smoke from car breaking operations.

MEASUREMENTS. The monthly collections of deposit analysed by the County Analyst with the daily measurements of smoke and acidity made in this office were included in the readings for the whole Thameside area distributed by the Thameside Joint Committee for the Abatement of Atmospheric Pollution.

#### DUST FROM CEMENT WORKS

Standard deposit gauge readings. In spite of their limitations these gauges are the means by which the trend of dust nuisance has been followed by public health authorities in this area. The trend lines from 1954 to 1962 - when calculations were suspended for a review of the formula for assessing dust from cement works - are given in other reports and it is not expedient to repeat them here. Suffice to say that from 1958 to 1962 in figures for dust from cement works a rising trend was detectable.

As weather is influential in determining the amount of dust deposit in the gauges the percentage of dust from cement works as related to dust from other sources might be a guide to the trend of emissions from the works. The trend lines for this from 1959 to 1962 was markedly upward but they were not entirely reliable as dust from other sources is influenced by the fuels used in other industries and these have been subject to change.

In this appendix, instead of trend lines, histograms have been used for the years 1963, 1964 and 1965.

The percentage of dust from cement works to dust from other sources in the combined readings of the most affected gauges - Horns Cross, Northfleet and Swanscombe - is perhaps a concise guide if one remembers the above limitations. A downward trend is detectable.

# AIR HYGIENE DEPOSIT GAUGE READINGS

Tons per square mile

| Month       |      | solved | i     |     | To     |          | 1 7 | otal     | DOS   |      | from |          | Dust from other sources |          |         |  |
|-------------|------|--------|-------|-----|--------|----------|-----|----------|-------|------|------|----------|-------------------------|----------|---------|--|
| 188         | 163  | 164    | 165   | 163 | 164    | 165      | 63  | 164      | 165   | 163  | 164  | 165      | 163                     | 164      | 165     |  |
| WHITE       | OAK  |        |       |     |        |          |     |          |       |      |      |          |                         |          |         |  |
| Jan         | 15   | 8      | 6     | 7   | 6      | 4        | 22  | 14       | 10    | 8    | 3    | 2        | 14                      | 11       | 8       |  |
| Feb         | 10   | 7      | 6     | 16  | 9      | 7        | 26  | 16       | 13    | 6    | 4    | 4        | 20                      | 12       | 9       |  |
| Mch         | 6    | 7      | 8     | 7   | 9      | 7        | 12  | 16       | 15    | 1    | 4 3  | 0        | 11                      | 12       | 15      |  |
| Apl         | 7 6  | 7      | 3     | 6 7 | 10     | 14       | 13  | 17       | 17    | 4 3  | 2    | 0        | 10                      | 15       | 17      |  |
| June        | 6    | 5      | 6     | 6   | 5      | 6        | 12  | 10       | 12    | 3    | 2    | 3 2      | 9                       | 8        | 9       |  |
| July        | 5    | 3      | 6     | 4   | 8      | 10       | 9   | 11       | 16    | 2    | 1    |          | 7                       | 10       | 14      |  |
| Aug         | 6    | 5      | 3     | 5   | 7      | 5        | 11  | 12       | 9     | 1    | 3    | 2        | 10                      | 9        | 7       |  |
| Sept        | 8    | 4 8    | 10    | 4 3 | 5 22   | 5 5      | 12  | 10       | 15    | 4    | 3 0  | 0        | 8 9                     | 7 30     | 15      |  |
| Oct<br>Nov  | 6    | 7      | 8     | 3   | 6      | 7        | 9   | 13       | 15    | 0    | 3    | 4        | 9                       | 10       | 11      |  |
| Dec         | 8    | 6      | 5     | 4   | 4      | 5        | 12  | 10       | 10    | 3    | 3    | 0        | 9                       | 7        | 10      |  |
| BOW AL      | RROW |        |       | 3   |        | 62       | 100 | 22       | 46    | 36   | 31   | 21       | 125                     | 144      | 143     |  |
| Jan         | 29   | 18     | 10    | 9   | 13     | 7        | 38  | 32       | 17    | 28   | 18   | 5        | 10                      | 14       | 12      |  |
| Feb         | 12   | 17     | 14    | 7   | 17     | 15       | 19  | 34       | 29    | 12   | 14   | 13       | 7                       | 20       | 16      |  |
| Mch         | 12   | 18     | 16    | 22  | 22     | 13       | 11- | 40       | 30    | 125  | 13   | 12       | 191                     | 27       | 18      |  |
| Apl         | 20   | 13     | 21    | 21  | 13     | 16       | 41  | 26       | 37    | 30   | 5    | 15       | 11                      | 21       | 22      |  |
| May<br>June | 11   | 16     | 7     | 9   | 19     | 19       | 20  | 35<br>35 | 13    | 10   | 14   | 2        | 10                      | 21       | 11 21   |  |
| July        | 14   | 7      | 15    | 22  | 14     | 14       | 36  | 21       | 29    | 30   | 4    | 9        | 6                       | 17       | 20      |  |
| Aug         | 12   | 10     | 15    | 12  | 20     | 13       | 24  | 30       | 28    | 12   | 11   | 10       | 12                      | 19       | 18      |  |
| Sept        | 19   | 10     | 10    | 37  | 23     | 11       | 56  | 33       | 21    | 33   | 9    | 1        | 23                      | 24       | 20      |  |
| Nov         | 9    | 17     | 21 26 | 7 6 | 19     | 20<br>19 | 16  | 36       | 41 46 | 8 5  | 16   | 23<br>25 | 13                      | 20       | 18      |  |
| Dec         | 17   | 15     | 9     | 13  | 13     | 9        | 30  | 28       | 18    | 18   | 14   | 2        | 12                      | 14       | 16      |  |
| DARTE       |      |        | 12    |     | 16     | 59       | 150 | 36       | 34    | 204+ |      | 128      | 123                     | 234      | 213     |  |
| Jan         | 19   | 14     | 9     | 8   | 11     | 10       | 27  | 25       | 19    | 14   | 12   | 3        | 13                      | 23       | 16      |  |
| Feb         | 15   | 13     | 10    | 17  | 13     | 12       | 32  | 27       | 22    | 15   | 9    | 8        | 17                      | 18       | 14      |  |
| Mch         | 8    | 15     | 11    | 6   | 13     | 9        | 14  | 28       | 21    | 4    | 9    | 6        | 10                      | 19       | 15      |  |
| Apl         | 18   | 12     | 14    | 15  | 10     | 12       | 33  | 19       | 26    | 22   | 3 7  | 8        | 11                      | 16       | 16      |  |
| May<br>June | 13   | 14     | 12    | 6   | 9      | 7 8      | 18  | 24 23    | 20    | 7    | 5    | 8        | 6                       | 18       | 12      |  |
| July        | 10   | 5      | 11    | 11  | 111    | 8        | 21  | 16       | 19    | 15   | 2    | 4        | 6                       | 14       | 15      |  |
| Aug         | 10   | 9      | 12    | 10  | 8      | 8        | 20  | 17       | 20    | 7    | 6    | 5 2      | 13                      | 11       | 15      |  |
| Sept        | 10   | 8      | 7     | 15  | 14     | 8        | 25  | 22       | 15    | 16   | 10   | 2        | 9                       | 12       | 13      |  |
| Nov         | 7 8  | 13     | 17    | 6   | 10 8   | 12       | 13  | 23       | 25    | 6 3  | 8 9  | 15       | 7                       | 15       | 10      |  |
| Dec         | 11   | 12     | 7     | 9   | 9      | 7        | 20  | 22       | 13    | 9    | 8    | 0        | 11                      | 14       | 13      |  |
| JOYCE       |      |        | muon  | 1   | 10 200 | - this   |     | adte     | -     | 129  | 88   | 72       | 125                     | 188      | 166     |  |
| Jan         | -    | 17     | 9     | -   | 15     | 5        | -   | 32       | 14    | -    | 17   | 5        | -                       | 15       | 9       |  |
| Feb         | -    | 19     | 9     | 16  | 18     | 5 7      | -   | 35       | 14    | -    | 20   | 6        | 24                      | 15       | 8       |  |
| Mch<br>Apl  | 9    | 17     | 14    | 15  | 17     | 17       | 24  | 34       | 34    | 10   | 12   | 12       | 10                      | 22<br>16 | 9<br>32 |  |
| May         | -    | 14     | 5     | -   | 17     | 5        | -   | 32       | 10    | 10   | 8    | 2        | 10                      | 24       | 8       |  |
| June        | 12   | 14     | 10    | 13  | 13     | 5 7      | 25  | 27       | 17    | 9    | 7    | 6        | 14                      | 20       | 11      |  |
| July        | 13   | 7      | 10    | 19  | 12     | 9 6      | 33  | 19       | 20    | 15   | 3    | 6        | 18                      | 16       | 14      |  |
| Aug         | 15   | 9      | 8 7   | 12  | 10     | 10       | 27  | 19 23    | 13    | 8    | 7    | 6        | 19                      | 12       | 7       |  |
| Sept<br>Oct | 17   | 22     | 20    | 11  | 14     | 37       | 28  | 36       | 57    | 19   | 10   | 14       | 111                     | 26       | 43      |  |
| Nov         | 16   | 14     | 22    | 20  | 9      | 18       | 36  | 24       | 41    | 9    | 10   | 14       | 25                      | 14       | 27      |  |
| Dec         | 14   | 6      | 7     | 11  | 7      | 6        | 26  | 13       | 13    | 16   | 5    | 0        | 10                      | 8        | 13      |  |
| 60          |      | 10     | 1331  | 183 | 42     | 97       | 148 | 112      | 1     | 6 8  | 114  | 74       |                         | 193      | 197     |  |

# AIR HYGIENE DEPOSIT GAUGE BEADINGS

Tons per square mile

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# AIR HYGIENE (continued) DEPOSIT GAUGE READINGS (continued)

| nth   | D:   | issol |       | 100000000000000000000000000000000000000 | issol |     |          | otal  |       | Dust from cement wks |      |          | Dust from other sources |      |         |
|-------|--|-------|-------|---|-------|-----|----------|-------|-------|----------------------|------|----------|-------------------------|------|---------|
|       | 163  | 164   | 165   | 163                                     | 164   | 165 | 163      | 164   | 165   | 163                  | 164  | 165      | 163                     | 164  | 165     |
| INS C | ROSS   |       |       | -                                       |       |     |          |       |       |                      |      |          |                         |      |         |
|       | -  | 35    | 25    |   | 36    | 11  | -        | 71    | 36    | 2 -                  | 55   | 29       | 18                      | 16   | 7       |
|       | 34   | 33    | 35    | 30                                      | 22    | 1   | 64       | 55    | 36    | 60                   | 39   | 34       | 4                       | 16   | 2       |
|       | 27   | 32    | 28    | 20                                      | 18    | 6   | 47       | 50    | 34    | 36                   | 40   | 33       | 11                      | 10   | 1       |
|       | 24   | 35    | 38    | 15                                      | 30    | 84  | 39       | 66    | 122   | 33                   | 48   | 51       | 6                       | 18   | 71      |
|       | 22   | 23    | 15    | 20                                      | 15    | 39  | 41       | 38    | 54    | 37                   | 34   | 25       | 4                       | 4    | 29      |
| ie.   | 23   | 24    | 22    | 22                                      | 11    | 27  | 45       | 35    | 49    | 38                   | 26   | 34       | 37                      | 9    | 15      |
| У     | 14   | 9     | 18    | 29                                      | 13    | 19  | 43       | 22    | 37    | 39                   | 6    | 27       | 4                       | 16   | 10      |
| t     | 27   | 16    | 12 25 | 15                                      | 65    | 15  | 32<br>52 | 81 23 | 27    | 21 49                | 58   | 24       | 11                      | 23   | 7<br>16 |
| *     | 18   | 34    | 11    | 25 23                                   | 38    | 26  | 41       | 72    | 37    | 32                   | 43   | 16       | 3 9                     | 29   | 21      |
|       | 19   | 45    | 54    | 13                                      | 33    | 35  | 32       | 78    | 89    | 20                   | 67   | 65       | 12                      | 11   | 24      |
|       | 29   | 44    | 27    | 31                                      | 24    | 14  | 60       | 68    | 42    | 54                   | 66   | 18       | 6                       | 2    | 24      |
| ***** |  |       | 301   | 1                                       | -     | 274 | -        |       |       | 419+                 | 496  | 376      | 77                      | 163  | 227     |
| NSCO  | THE RESERVE AND ADDRESS OF THE PERSON NAMED IN | 29    | 13    | 25                                      | 23    | 8   | 62       | 52    | 22    | 46                   | 43   | 17       | West 200                | 1600 | 1337    |
|       | 37   | 26    | 18    | 24                                      | 22    | 21  | 45       | 47    | 39    | 36                   | 30   | 28       | 16                      | 9    | 5       |
|       | 18   | 24    | 23    | 11                                      | 19    | 25  | 29       | 43    | 48    | 20                   | 27   | 31       | 9                       | 16   | 17      |
| 7 - 3 | 19   | 16    | 31    | 17                                      | 15    | 38  | 36       | 31    | 69    | 27                   | 16   | 38       | 9                       | 15   | 31      |
|       | 18   | 19    | 14    | 16                                      | 32    | 17  | 34       | 51    | 32    | 25                   | 28   | 17       | 9                       | 23   | 15      |
| e     | 19   | 27    | -0.3  | 17                                      | 16    | 8/  | 36       | 43    | 68    | 27                   | 23   | 18       | 9                       | 20   | 50      |
| y     | 14   | 14    | 17    | 23                                      | 23    | 12  | 37       | 37    | 29    | 22                   | 6    | 17       | 15                      | 31   | 12      |
|       | 17   | 12    | 22    | 12                                      | 18    | 26  | 29       | 30    | 48    | 19                   | 18   | 27       | 10                      | 12   | 21      |
| t     | 21   | 17    | 20    | 23                                      | 21    | 10  | 44       | 38    | 30    | 36                   | 25   | 21       | 8                       | 13   | 11      |
|       | 19   | 32    | 20    | 15                                      | 25    | 16  | 34       | 58    | 36    | 28                   | 43   | 24       | 6                       | 15   | 12      |
|       | 19   | 28    | 39    | 12                                      | 19    | 23  | 31       | 47    | 62    | 19                   | 39   | 46       | 19                      | 8    | 16      |
|       | 24   | 31    | 26    | 22                                      | 20    | 12  | 46       | 51    | 38    | 41                   | 36   | 26       | 5                       | 15   | 12      |
| THFL  |  |       | Jas   |   |       | 58  |          |       |       | 346                  | 334  | 310      | 124                     | 194  | 213     |
| -     | 27   | 27    | 20    | 12                                      | 25    | 16  | 39       | 52    | 36    | 34                   | 38   | 25       | 5                       | 14   | 11      |
| 3     | 18   | 23    | 17    | 27                                      | 27    | 15  | 45       | 50    | 32    | 36                   | 24   | 22       | 9                       | 26   | 10      |
| 6     | 20   | 19    | 20    | 17                                      | 24    | 17  | 37       | 43    | 38    | 27                   | 19   | 24       | 10                      | 24   | 14      |
|       | 13   | 17    | 13    | 17                                      | 9 12  | 25  | 35       | 21 29 | 53 26 | 30                   | 9    | 32<br>13 | 5                       | 12   | 13      |
| e     | 15   | 20    | 15    | 15                                      | 15    | 11  | 30       | 35    | 26    | 24                   | 12   | 13       | 6                       | 23   | 13      |
| у     | 13   | 10    | 14    | 11                                      | 14    | 10  | 24       | 24    | 24    | 20                   | 111  | 9        | 4                       | 13   | 15      |
|       | 20   | 12    | 17    | 16                                      | 25    | 19  | 36       | 37    | 37    | 24                   | 19   | 23       | 12                      | 18   | 14      |
| t     | 18   | 12    | 19    | 16                                      | 14    | 11  | 34       | 26    | 30    | 26                   | 14   | 14       | 8                       | 12   | 16      |
|       | 17   | 24    | 19    | 21                                      | 21    | 11  | 38       | 45    | 30    | 26                   | - 26 | 18       | 12                      | 19   | 12      |
|       | 16   | 25    | 40    | 8                                       | 16    | 24  | 24       | 41    | 64    | 13                   | 34   | 36       | 11                      | 7    | 28      |
|       | 20   | 21    | Joyni | 19                                      | 19    | 593 | 40       | 40    | -30   | 32                   | 28   | -        | 8                       | 12   |         |
|       | -  |       |       |   |       |     | TRE      |       | 1     | 316                  | 247  | 229±     | 93                      | 196  | 167     |

TREND

of Horns Cross, Swanscombe and Northfleet readings. i.e. "tons per 3 sq miles"

| -    |   |  |  |  |   |   |  |  |   |  |  |  |  |
|------|---|--|--|--|---|---|--|--|---|--|--|--|--|
| nth  | Dust from Dust from cement wks elsewhere                          |  |  |  |   |   |  | otal<br>olids  | 22<br>26  | % Dust from cement works                                       |  |  |  |
|      | 163   | 164  | 165  | 163  | 164   | 165   | 163  | 164  | 165   | 163  | 164  | 165  |  |
| Le y | 132<br>83<br>92<br>86<br>89<br>81<br>64<br>111<br>86<br>52<br>127 | 136<br>93<br>86<br>73<br>75<br>61<br>23<br>95<br>53<br>112<br>140<br>130 | 71<br>84<br>88<br>121<br>55<br>65<br>53<br>70<br>59<br>55<br>147 | -22<br>30<br>18<br>16<br>22<br>23<br>33<br>19<br>27<br>35<br>19<br>264 | 39<br>59<br>30<br>45<br>43<br>52<br>60<br>53<br>24<br>63<br>26<br>29<br>523 | 23<br>23<br>32<br>123<br>57<br>78<br>37<br>42<br>41<br>48<br>68 | 101<br>154<br>113<br>110<br>102<br>111<br>104<br>97<br>130<br>113<br>87<br>146 | 175<br>152<br>116<br>118<br>118<br>113<br>83<br>148<br>87<br>175<br>166<br>159 | 94<br>107<br>120<br>244<br>112<br>143<br>90<br>112<br>100<br>103<br>215 | 85<br>73<br>84<br>84<br>80<br>77<br>66<br>85<br>76<br>60<br>87 | 78<br>61<br>74<br>62<br>64<br>54<br>28<br>64<br>61<br>64<br>84<br>82 | 76<br>78<br>73<br>50<br>49<br>45<br>59<br>62<br>59<br>53<br>68 |  |

(34)

# AIR HYDIEMS (continued)

d Herns Orons, Swanscoops and Mortadiser readings, Les. "tone per 5 so sellen

# AIR HYGIENE (continued) DEPOSIT GAUGE READINGS

| M        | onth  | % Dust   | from o   | cement work   | s  |  |
|----------|---|--|--|---|--|--|
|          | 1969  | 1963   | 198  | 1964  | 1965   | 1965   |
| W        | HITE OAK  |  |  |   |  |  |
|          | Jan Feb Mch Apl May June July Aug Sept Oct Nov Dec OW ARROW Jan Feb Mch Apl May | 36<br>23<br>8<br>31<br>23<br>25<br>22<br>9<br>33<br>10<br>0<br>25<br>274<br>74<br>33 | 77 87 22 77 62 63 85 67 63 63 63 63 63 63 63 63 63 63 63 63 63 | 23<br>26<br>26<br>16<br>10<br>16<br>7<br>25<br>30<br>0<br>20<br>30<br>229<br>55<br>42<br>33<br>19<br>39 | 82<br>94<br>97<br>42<br>45<br>69<br>72<br>75<br>61<br>87<br>79<br>72<br>64<br>84 | 18<br>30<br>1<br>0<br>0<br>23<br>12<br>19<br>0<br>42<br>28<br>1<br>174<br>27<br>45<br>39<br>39<br>18 |
| <u>D</u> | June July Aug Sept Oct Nov Dec  | 50<br>62<br>84<br>50<br>58<br>50<br>28<br>60<br>622+<br>ENTRAL                       | 23<br>54<br>11<br>61<br>61<br>74<br>87<br>74                   | 39<br>32<br>20<br>35<br>28<br>45<br>48<br>50<br>446   | 55<br>27<br>59<br>55<br>72<br>67<br>74<br>74                                     | 35<br>31<br>35<br>4<br>56<br>54<br>13<br>396   |
| <u>J</u> | Feb Mch Apl May June July Aug Sept Oct Nov Dec                                  | 47<br>29<br>67<br>38<br>64<br>72<br>35<br>64<br>46<br>22<br>45<br>581                | 7. 4. 4. 5. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.          | 35<br>34<br>15<br>29<br>20<br>11<br>33<br>43<br>36<br>46<br>38<br>387                                   | 70<br>70<br>63<br>60<br>51<br>50<br>57<br>62<br>47<br>60<br>56                   | 34<br>27<br>31<br>3<br>39<br>18<br>23<br>12<br>59<br>47<br>0   |
|          | Jan<br>Feb<br>Mch<br>Apl<br>May<br>June<br>July                                 | 0<br>50<br>36<br>45  | 1964   | 52<br>57<br>38<br>22<br>26<br>24<br>17  | 196  | 35<br>45<br>57<br>5<br>19<br>37<br>29  |
|          | Aug<br>Sept<br>Oct<br>Nov<br>Dec  | 30<br>68<br>47<br>25<br>62   | 150 977 35   | 39<br>43<br>28<br>40<br>36<br>422   | 100  | 45<br>5<br>25<br>39<br>0<br>341  |

# AIR HYGIENE (continued) DEPOSIT GANGE PEADINGS

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| 35<br>57<br>57<br>57<br>29<br>44<br>39<br>34<br>34<br>34<br>34 |             |      |     |

# AIR HYGIENE (continued) DEPOSIT GAUGE READINGS (continued)

| Month  | % Dust fr  | om cement works   | TH.  |
|--|--|---|--|
|  | 1963   | 1964  | 1965   |
| HORNS CROS  Jan Feb Mch Apl May June               | 94<br>77<br>85<br>90<br>85   | 77<br>70<br>80<br>73<br>90<br>74  | 82<br>94<br>97<br>42<br>45<br>69                                     |
| July Aug Sept Oct Nov Dec SWANSCOMBE               | 90<br>66<br>94<br>78<br>63<br>90<br>912+                             | 28<br>72<br>63<br>60<br>86<br><u>98</u><br>871                              | 72<br>75<br>61<br>43<br>73<br>43<br>796                              |
| Jan Feb Mch Apl May June July Aug Sept Oct Nov Dec | 74<br>80<br>69<br>75<br>74<br>75<br>59<br>66<br>82<br>83<br>61<br>89 | 83<br>63<br>63<br>53<br>55<br>54<br>17<br>61<br>65<br>75<br>83<br>72<br>744 | 79<br>72<br>64<br>54<br>55<br>27<br>59<br>55<br>72<br>67<br>74<br>69 |
| Jan Feb Mch Apl May June July Aug Sept Oct Nov Dec | 87<br>80<br>73<br>86<br>89<br>80<br>84<br>66<br>76<br>68<br>54<br>80 | 73<br>48<br>39<br>44<br>46<br>33<br>47<br>52<br>55<br>58<br>81<br>71<br>647 | 70<br>70<br>63<br>60<br>51<br>50<br>37<br>62<br>47<br>60<br>56       |

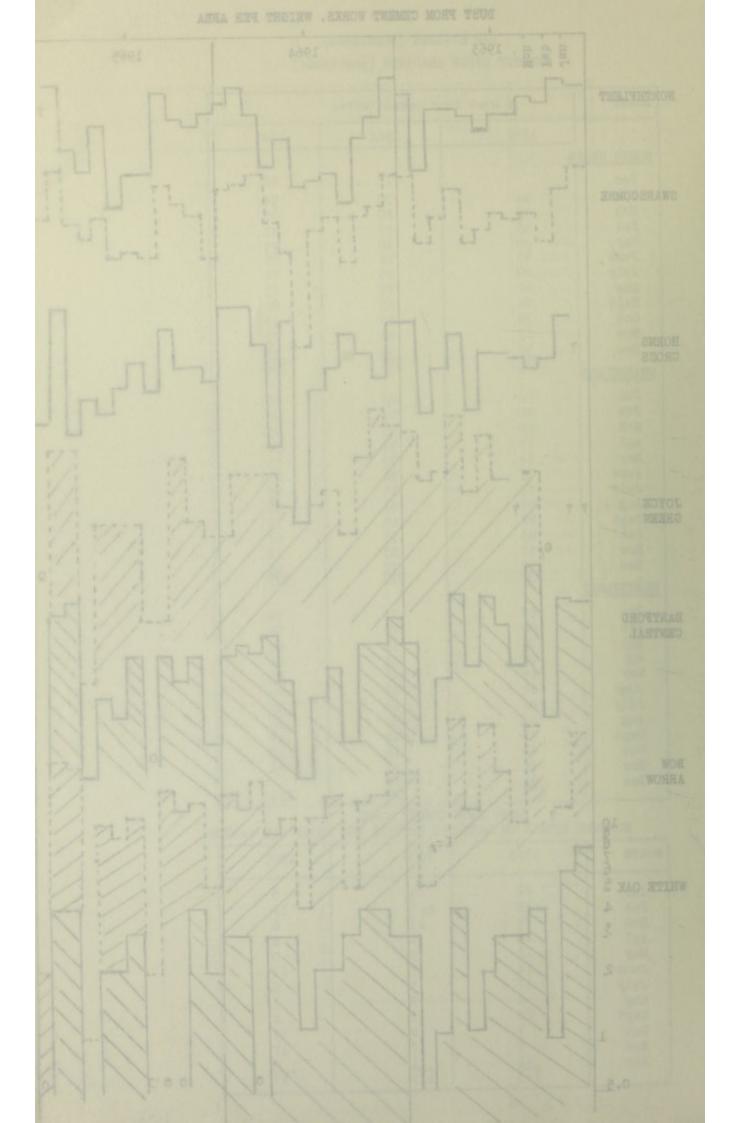
DUST FROM CEMENT WORKS
MONTHLY TOTALS OF DARTFORD CENTRAL AND WHITE OAK GAUGES

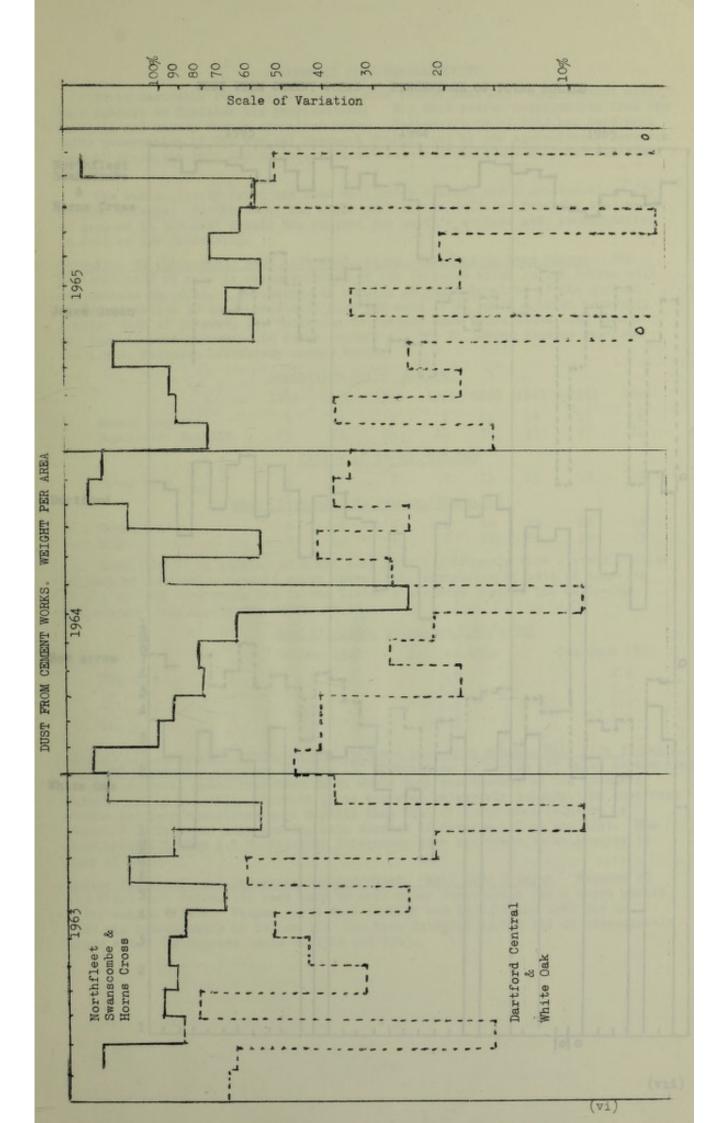
| Month  | 1963 | 1964 | 1965 |
|--|------|------|------|
| Jan Feb Mch Apl May June July Aug Sept Oct Nov Dec | 22   | 15   | 5    |
|  | 21   | 13   | 12   |
|  | 5    | 13   | 6    |
|  | 26   | 6    | 8    |
|  | 10   | 9    | 0    |
|  | 14   | 7    | 11   |
|  | 17   | 3    | 6    |
|  | 8    | 9    | 7    |
|  | 20   | 13   | 2    |
|  | 7    | 8    | 19   |
|  | 3    | 12   | 17   |
|  | 12   | 11   | 0    |
|  | 165  | 119  | 93   |

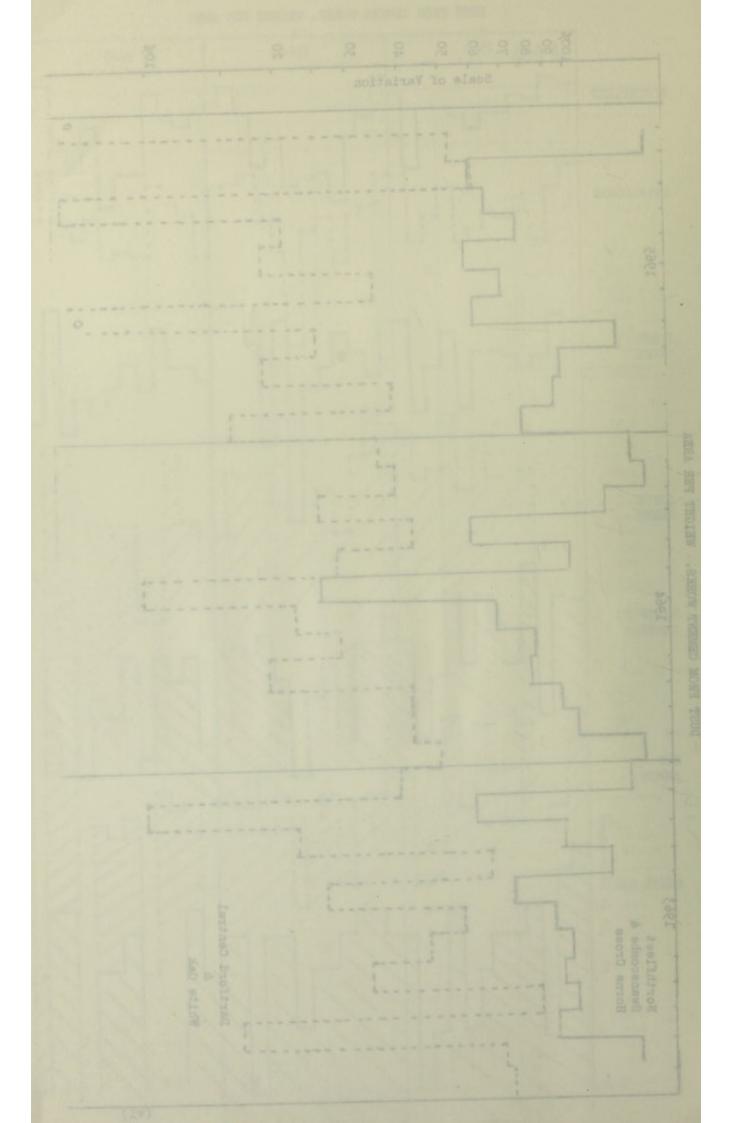
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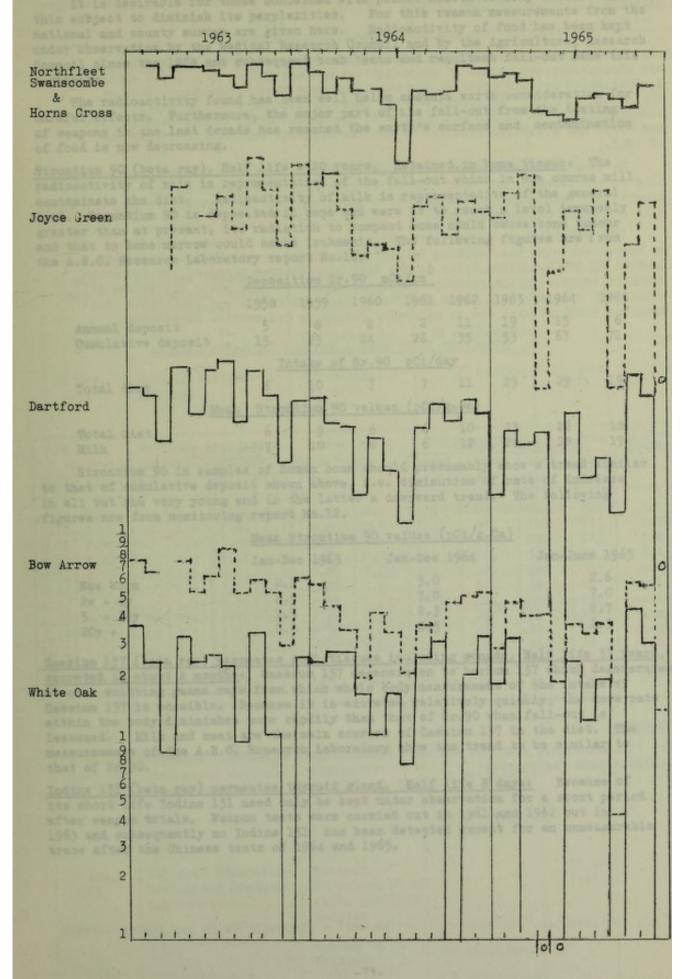
|  |  | . 46 |  |
|--|--|------|--|
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|  |  |      |  |

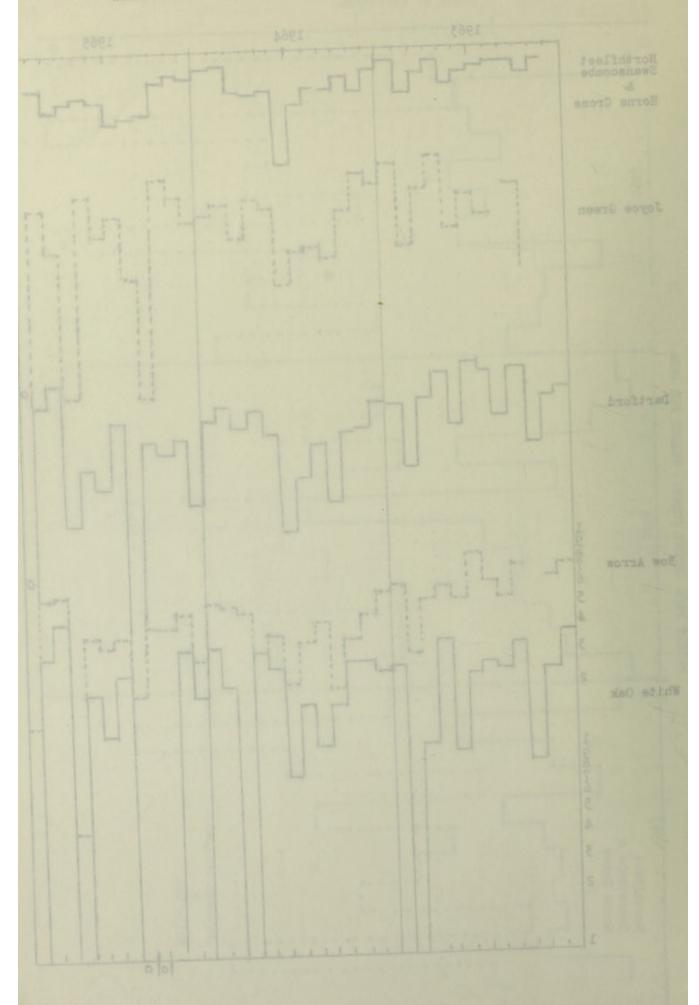
MOST FOR DESIGN OF DATE OF DATE AND DELIES OAK DAUCES











#### APPENDIX VII- RADIOACTIVITY

It is desirable for those concerned with public health to keep contact with this subject to diminish its perplexities. For this reason measurements from the national and county survey are given here. Radioactivity of food has been kept under observation by the Medical Research Council and by the Agricultural Research Council since the 1958 and subsequent bomb tests and resultant fall—out made this necessary.

The radioactivity found has been well below amounts worth consideration for harmful effects. Furthermore, the major part of the fall-out from the testing of weapons in the last decade has reached the earth's surface and contamination of food is now decreasing.

Strontium 90 (beta ray). Half life = 20 years, Retained in bone tissue: The radioactivity of rain is representative of the fall-out which in due course will contaminate the diet. Radioactivity of milk is representative of the general diet. Strontium 90 is deposited in bone and were it to reach a level immensely greater than at present, its radiation to compact bone could cause bone tumour and that to bone marrow could cause leukaemia. The following figures are from the A.R.C. Research Laboratory report No.16.

|                                      | Depos:   | ition S  | r.90 m  | i/km <sup>2</sup> |          |          |          |          |
|--------------------------------------|----------|----------|---------|-------------------|----------|----------|----------|----------|
|                                      | 1958     | 1959     | 1960    | 1961              | 1962     | 1963     | 1964     | 1965     |
| Annual deposit<br>Cumulative deposit | 5<br>15  | 8 23     | 2 24    | 2<br>26           | 11<br>35 | 19<br>53 | 15<br>67 | 6<br>71  |
|                                      | <u>I</u> | ntake of | f Sr.90 | pCi/d             | lay      |          |          |          |
| Total diet                           | 6        | 10       | 7       | 7                 | 11       | 25       | 29       | 19       |
| Mea                                  | n Stron  | ntium 90 | values  | (pCi/             | g.Ca)    |          |          |          |
| Total diet<br>Milk                   | 6 7      | 9        | 6       | 6                 | 10<br>12 | 23<br>26 | 26<br>28 | 18<br>19 |

Strontium 90 in samples of human bone should presumably show a trend similar to that of cumulative deposit shown above, i.e. diminution of rate of increase in all but the very young and in the latter a downward trend. The following figures are from monitoring report No.12.

|          | Mean Strontium | 90 values (pCi/g.Ca) |               |
|----------|----------------|----------------------|---------------|
|          | Jan-Dec 1963   | Jan-Dec 1964         | Jan-June 1965 |
| New born | 2.1            | 3.0                  | 2.6           |
| 2w - 4y  | 4.5            | 7.0                  | 7.0           |
| 5 - 19y  | 1.5            | 2.3                  | 2.7           |
| 20y +    | 0.5            | 0.5                  | 1.3           |

Caesium 137 (beta ray) permeates soft tissues including gonads. Half life 33 years, excreted in about 4 months: Caesium 137 degenerates to barium 137 which degenerates at once emitting gamma rays from which whole body measurement of the intake of Caesium 137 is possible. Because it is excreted relatively quickly, the dose rate within the body diminishes more rapdily than that of Sr.90 when fall-out is lessened. Milk and meat are the main sources of Caesium 137 in the diet. The measurements of the A.R.C. Research Laboratory show the trend to be similar to that of Sr.90.

Iodine 131 (beta ray) permeates thyroid gland. Half life 8 days: Because of its short life Iodine 131 need only be kept under observation for a short period after weapon trials. Weapon tests were carried out in 1961 and 1962 but in 1963 and subsequently no Iodine 131 has been detected except for an unmeasurable trace after the Chinese tests of 1964 and 1965.

### APPENDIX VII- RADIOACTIVITY (continued)

### RADIOACTIVITY OF FOODSTUFFS IN KENT

The following is from reports by the County Analyst:

With the suspension of the large scale testing of atomic weapons in the atmosphere, the amount of contamination has now fallen to a level similar to that which existed prior to the atomic weapons test programme resumed in the Autumn of 1962. As predicted, the level of Strontium 90 increased temporarily in the Spring of 1964 due to the annual cycle of the weather and crops and a similar rise but of shorter duration occurred in the Spring of 1965.

In view of this decrease in the amount of radioactive contamination, this survey recently has been limited to milk only - justified on the ground that two-thirds of the Strontium 90 in our diet is contributed by milk and other dairy products.

The significance of the level of Strontium 90 in milk may be assessed by comparison with the "working levels" recommended by the Medical Research Council of 400 Strontium Units in the diet of individuals and of 130 Strontium Units in the diet of the population as a whole. On this basis the amount of artificial radioactivity found at present is of no danger and represents less than one tenth of that due to naturally occurring radioactive substances.

## Strontium 90 in Milk - Monthly Composite Samples

1962 - 1965

| Month | N1   | umber of | f sample | 98   |          |            |       | rontiu | m 90  |       |        |      |
|-------|------|----------|----------|------|----------|------------|-------|--------|-------|-------|--------|------|
|       | Year | Year     | Year     | Year | p/0:     | i/litre    | *     | natos  | 00.00 | pCi/g | .Ca*   |      |
|       | 1962 | 1963     | 1964     | 1965 | 1962     | 1963       | 1964  | 1965   | 1962  | 1963  | 1964   | 1965 |
| Jan   | 125  | 88       | 99       | 83   | 4.6      | 10.3       | 29.7  | 26.2   | 4.0   | 8.5   | 25.6   | 21.9 |
| Feb   | 105  | 143      | 136      | 112  | 5.2      | 9.8        | 31.0  | 26.8   | 4.4   | 8.4   | 27.0   | 22.3 |
| Moh   | 112  | 160      | 94       | 80   | 4.7      | 11.0       | 38.0  | 38.4   | 4.0   | 9.6   | 32.5   | 32.6 |
| Apl   | 81   | 64       | 122      | 74   | 7.0      | 15.5       | 30.8  | 23.8   | 5.8   | 13.4  | 26.3   | 22.5 |
| May   | 107  | 169      | 94       | 83   | 9.7      | 25.0       | 32.6  | 17.4   | 8.6   | 21.6  | 28.6   | 15.5 |
| June  | 80   | 84       | 118      | 42   | 9.1      | 28.0       | 34.5  | 15.1   | 8.2   | 24.5  | 30.0   | 12.2 |
| June  | 103  | 100      | 120      | 110  | 11.7     | 35.5       | 28.8  | 16.8   | 10.4  | 31.0  | 25.5   | 15.4 |
| Aug   | 65   | 62       | 96       | 86   | 15.9     | 34.4       | 22.4  | 13.5   | 14.6  | 32.8  | 18.8   | 12.4 |
| Sept  | 106  | 54       | 85       | 81   | 15.4     | 32.5       | 21.8  | 13.3   | 13.6  | 27.6  | 17.9   | 11.2 |
| Oct   | 95   | 146      | 81       | 80   | 14.9     | 28.1       | 21.4  | 12.1   | 13.0  | 24.0  | 16.9   | 10.  |
| Nov   | 120  | 123      | 93       | 66   | 14.4     | 36.4       | 22.4  | 14.1   | 12.5  | 31.4  | 19.0   | 11.  |
| Dec   | 64   | 87       | 38       | 36   | 12.3     | 34.3       | 27.1  | 17.8   | 10.4  | 29.6  | 21.3   | 150  |
|       |      | C 065    | D settle |      | 1000 971 | THE COLUMN | W 200 | Regard |       | 7     | 100 00 |      |

#### INDUSTRY

In accordance with the Radioactive Substances Act, 1960, the following premises were registereds in 1964 for one source of Caesawa 197 not proceeding a military as a few providing a beam for operating propagate at ecompliant

There was no regard toto one and 1965 were area after more water

<sup>\*</sup> pCi = picocurie. pCi/g.Ca = Strontium Unit = picocurie Sr.90 per gramme calcium

# Radioactive Substances Act 1960 - APPENDIX VII. CERTIFICATES OF REGISTRATION UNDER SECTION 1 (continued)

|                   |                    |   | TEAN SVITOADICAS   | 30                                 |                                 |                 |
|-------------------|--------------------|---|--|------------------------------------|---------------------------------|-----------------|
| No.<br>in<br>file | Date<br>registered | Premises  | Radioactive<br>substances                                | Maximum<br>Radioactivity           | Date from<br>which use<br>began |                 |
|                   | 26 August<br>1963  | Wiggins Teape Paper<br>Mills                                  | Thallium 204   | 175 millicuries                    | 1 Dec.<br>1963                  | 19th Se<br>1964 |
| 1                 | 18th Sept.<br>1964 | Wiggins Teape Paper<br>Mills                                  | Thallium 204<br>Carbon 14                                | 175 milliouries<br>500 microcuries |                                 | 13 June<br>1967 |
|                   | 15 Oct<br>1963     | London Paper Mills  | Thallium 204   | 25 millicuries                     | 1 Dec.<br>1963                  | 1965            |
|                   | 10 Sept.<br>1963   | Greaseproof Paper<br>Mills                                    | Thallium 204   | 25 millicuries                     | 1 Dec.                          | 1365            |
| 3 4 5 5           | 26 Nov.<br>1963    | Wellcome Foundation<br>Biological Control<br>Laboratories     | Iodine 131 Phosphorous 32 Sulphur 35                     | 2 millicuries                      | 1 Dec. 1963                     | 10 Nov<br>1965  |
|                   | volt es            | Total   | Carbon 14 )<br>Tritium                                   | 10 milliouries                     | at on                           | 15 34           |
|                   | 28 Nov.<br>1963    | Baldwin Instrument<br>Company                                 | Not alpha<br>particle<br>emitter                         | 100 curies                         | 1 Dec.<br>1963                  | 18 Feb<br>1966  |
|                   | 28 Nov.<br>1963    | Wellcome Foundation<br>Chemical Develop-<br>ment Laboratories | Iodine 131   | 100 microcuries                    | 1 Dec.<br>1963                  | 10 Nov<br>1965  |
|                   | 15 June<br>1965    | College of Technology   | Not alpha<br>particle<br>emitter<br>not strontium        | 10 millicuries                     | 17 June<br>1965                 |                 |
|                   | 5961               | 5961 4373   | 90   | Rogical                            | Me Me                           |                 |
|                   | 15 June<br>1965    | College of Technology   | Cobalt 60 or<br>Caesium 137 or<br>Radium 226             | -10 millicuries                    | 17 June<br>1965                 |                 |
|                   | 8 Nov.<br>1965     | Wellcome Foundation<br>Chemical Develop-<br>ment Laboratories | Iodine 131 or 125  | 2 millicuries                      | 10 Nov.<br>1965                 |                 |
|                   | 8 Nov.<br>1965     | Wellcome Foundation<br>Biological Control<br>Laboratories     | Iodine 125<br>Iodine 131<br>Phosphorus 32<br>Sulphur 35  | 2 millicuries                      | 10 Nov.<br>1965                 | 11 Dec.<br>1965 |
|                   | 1960               | torage depois   | Carbon 14 }  | 10 millicuries                     | 2                               | 190             |
|                   | 9 Dec.<br>1965     | Wellcome Foundation<br>Biological Control<br>Laboratories     | Neither<br>Strontium 90 nor<br>Alpha particle<br>emitter | the constitute                     | 11 Dec.<br>1965                 | -               |
| -                 |                    |   | Carbon 14 )<br>Tritium )                                 | 10 millicuries                     |                                 |                 |
| -                 | 339                |   | 100  |                                    | 1                               |                 |

# CERTIFICATES OF AUTHORISATION FOR THE DISPOSAL AND ACCUMULATION OF RADIOACTIVE WASTE

| Date<br>Registered  | Premises   | Maximum<br>amounts   | Effective<br>date of<br>registration      | Registration revoked w.e.f.            |
|---|--|--|---|--|
| 26 Nov.<br>1963   | Wellcome Foundation<br>Biological<br>Laboratories                                  | By deposit-<br>2 microcuries/cu.ft<br>By burning-<br>5 microcuries/day | 1 Dec.<br>1963                            | 10 Nov.<br>1965                        |
| 1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>100 |  | Liquid-<br>1 millicurie/day  | Kandon-Rappa                              | 15 006                                 |
| 28 Nov.<br>1963   | Wellcome Foundation<br>Chemical Develop-<br>ment Laboratories                      | By deposit-<br>2 microc/131/cu.ft<br>By burning-                       | 1 Dec.<br>1963                            | 10 Nov.<br>1965                        |
| Part Court  | Stephenia Della de la la la compositiona de la | 5 microc/one week Liquid- 100 microc/month                             | Paragraphia<br>Paragraphia<br>Paragraphia | 1965 as                                |
| 15 June<br>1965   | College of<br>Technology   | Solid-<br>10 microc/container<br>1 microc/article                      | 17 June<br>1965                           | 29 Nov.<br>1965                        |
| ider çile   |  | Liquid-<br>500 microc/week   | Company and                               |  |
| 8 Nov.<br>1965  | Wellcome Foundation<br>Chemical Develop-<br>ment Laboratories                      | Solid-<br>2 microc/cu.ft<br>Burning-                                   | 10 Nov.<br>1965                           | 19 Aug.<br>1966                        |
| Ame V   | 38 200 125 125 125 125 125 125 125 125 125 125                                     | 5 microc/week Liquid- 100 millic/month                                 | 20 0001100                                | Sack Ship.                             |
| 8 Nov.<br>1965  | Wellcome Foundation<br>Biological<br>Laboratories                                  | Solid-<br>2 microc/cu.ft   | 10 Nov.<br>1965                           | 11 Dec.<br>1965                        |
|   |  | 5 microc/day Liquid- 1 millic/month                                    | 13.0 PA                                   | 14.9 10 3.<br>14.9 10 3.               |
| 26 Nov.   | College of   | Solid-   | 29 Nov.                                   |  |
| 1965  | Technology   | 2 microc/cu.ft 19 Liquid-<br>500 microc/week                           | 1965                                      |  |
| 9 Dec.  | Wellcome Foundation  | Solid-   | 11 Dec.                                   | 19 August                              |
| 1965  | Biological<br>Laboratories   | 2 microc/cu.ft Burning- 5 microc/day                                   | 1965                                      | 1966                                   |
| 1965  |  | Liquid-<br>1 millic/month  | Valione No<br>Biological<br>Labedalogic   |  |
| A 20 A STATE OF   | salundilla Q   | \$1 modza0   |   |  |
| The second  | A COLUMN TO THE REAL PROPERTY.   | Training   |   | 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

- 74 -

#### DARTFORD BOROUGH

#### APPENDIX VIII.

#### VERMIN CONTROL AND DISINFESTATION

|   |        |      |      | Premises<br>1964 | involve<br>1965 |      |  |
|---|--------|------|------|------------------|-----------------|------|--|
| Premises inspected as a result of                       |        |      |      | 220              |                 | 186  |  |
| Infestations found by independent                       |        |      |      | 3                |                 | 11   |  |
| Premises treated for rats                               |        |      |      | 152              |                 | 149  |  |
| Premises treated for mice                               |        |      |      | 67               |                 | 48   |  |
|   | Comple | ints | Trea | tments           | Premi           | ises |  |
|   | 1964   | 1965 | 1964 | 1965             | 1964            | 1965 |  |
| Bed Bugs  | 4      | 5    | 14   | 4                | 14              | 67   |  |
| Wasps   | 32     | 90   | 32   | 70               | 32              |      |  |
| Fleas   | 1      | 2    | 3    | 1                | 3               |      |  |
| Woodworm Other insects Disinfected for other infections | 17     | 14   | 2 2  | 5                | 2 2             | 5    |  |

#### APPENDIX IX.

#### HYGIENE OF PLACES OF WORK

FACTORIES. The Council enforces the provision of sanitary conveniences in all factories. In factories without mechanical power the Council also enforces the provision of adequate cleanliness, temperature, ventilation and drainage.

|   | 1904      | 1905     |
|---|-----------|----------|
| Number on register at 31st December             | 210       | 198      |
| Inspections                                     | 224       | 150      |
| Defects found                                   | 15        | 19       |
| Defects remedied                                | 16        | 18       |
| Defects referred to H.M. Inspector              | pedert co | St wis - |
| Defects referred by H.M. Inspector              | 5         | 1307 5   |
| Outworkers in the Borough at 31st December      | 43        | 26       |
| OFFICES, SHOPS AND RAILWAY PREMISES             | B ACT     |          |
|   | 1964      | 1965     |
| Number of premises registered at end of year    | 330       | 409      |
| Number of premises receiving general inspection | 313       | 124      |
| Number of visits by Public Health Inspectors    | 387       | 1642     |

### The premises inspected were:

Number of defects found

| Offices Retail shops Wholesale shops and warehouses                      | 78<br>205 | 21<br>88  |
|--|-----------|-----------|
| Catering establishments open to public, and canteens Fuel storage depots | 23        | 14<br>nil |
|  | 313       | 124       |

297

565

The registration provisions of the Act came into operations in mid-1964. By 1st January, 1965 the remainder of the Act was in operation.

#### DARTFORD BOROUGH

### APPENDIX IX (continued)

Visits under the Offices, Shops and Railway Premises Act are for enforcement of provisions in regard to cleanliness, overcrowding, temperature, ventilation, lighting, sanitary conveniences, washing facilities, supply of drinking water, accommodation for clothing, sitting facilities, seats for sedentary work, eating facilities, floors, passages and stairs, fencing of exposed parts of machinery and first aid.

In 1965 a special survey was carried out by the Council's Public Health Inspectors in regard to lighting. Inadequate lighting was found to be rare.

### SHOPS ACT, 1950

Set out below are details of the number of inspections made and notices served and complied with during the year:-

|  | 1964       | 1965 |
|--|------------|------|
| Number of inspections made                     | 246        | 78   |
| Number of notices served                       | 9          | 10   |
| Number of notices complied with                | 13         | 11   |
| Analysis of notices complied with:-            |            |      |
| Abstracts*                                     | 9          |      |
| Sanitary accommodation defective*              | Lumrul- at |      |
| Sanitary accommodation insufficient*           | Drotori,   |      |
| Inadequate temperature                         | 6          | 3    |
| Half-day or Sunday closing offences            | -          | 8    |
| Offences relating to intervals for meals, etc. | 40.70      | -    |
| Inadequate washing facilities *                | 1          |      |
| No seats for female assistants *               | 2          |      |
| Inadequate ventilation *                       | Server 1   |      |

<sup>\*</sup>In 1965 inspected under the Offices, Shops and Railway Premises Act, 1963.

### APPENDIX X.

#### HYGIENE FACILITIES PROVIDED BY COUNCIL

SLIPPER BATHS. The Council provide and maintain the public slipper baths and washing facilities at Spital Street. The number of persons using these were:-

|               | 1962         | 1965    | 1964    | 1965    |
|---------------|--------------|---------|---------|---------|
| Men           | 11,895       | 13,792* | 13,039* | 12,199* |
| Boys<br>Women | 405<br>3,473 | 3,597*  | 3,200*  | 2,929*  |
| Girls         | 404          | 484     | 409     | 403     |
|               | 16,177       | 18,321  | 17,057  | 15,853  |

<sup>\*</sup>These figures include old age pensioners, 407 men and 618 women in 1963, 578 men and 653 women in 1964 and 575 and 613 respectively in 1965.

#### PUBLIC HEALTH COMMITTEE

1964 - 1965

Chairman: Alderman Mrs. A. Ager

Deputy Chairman: Councillor E. J. Grover

The Mayor (Councillor A.L. Cowell, J.P.) Councillor R.D. Sage Alderman J. Huggett Alderman E.C.G. Lanyon Alderman E.T. Lenderyou Councillor Mrs. E.P. May

Councillor Mrs. D. Smith Councillor D.H. Stubbs Councillor J.S.R. Wise

1965 - 1966

Chairman: Alderman Mrs. A. Ager

Deputy Chairman: Councillor E. J. Grover

The Mayor (Councillor Mrs. D. Smith, J.P.) Councillor R.F. Maxted Alderman J. Huggett Alderman E.T. Lenderyou Councillor W.H. Forsyth Councillor Mrs. B.M. Gribble Councillor Mrs. E.M. Grover

Councillor Mrs. E.P. May Councillor R.D. Sage Councillor D.J. Wise Councillor K.A.B. Wood

#### PUBLIC HEALTH OFFICERS

Medical Officer of Health (part-time) Chief Public Health Inspector Additional Public Health Inspectors

J. H. Hudson T. H. Iddison J. Wann

Pupil Public Health Inspector

(left 15.1.65) (left 5.2.65) J. Wightman (left 31.7.64) K. Palmer (commenced 1.4.65) I. S. Fox

C. R. Rampling (commenced 9.8.65) R. Pyman (commenced 30.8.65)

N. J. Hibbett (commenced 28.9.64)

(left 5.11.64) R. A. Simpson (commenced 20.9.65)

E. Sorrell (Miss)(retired 30.6.65)
M. Pestell (Mrs)

M.E. Taylor(Mrs) (commenced 20.4.64 (left 13.8.65 G.M. Cook (Mrs) (commenced 26.4.65

Chief Clerk Clerical Assistants

