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NEWQUAY URBAN DISTRICT COUNCIL.

CORNWALL.

Public Health Department.

Annual HEALTH Report  
Year 1945

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NEWQUAY ANNUAL HEALTH REPORT FOR THE YEAR 1945.

The Chairman and Members of the NEWQUAY URBAN DISTRICT COUNCIL.

Gentlemen,

Herewith I beg to present my 20th Annual Report on the Health and Sanitary Conditions of Newquay during the Year 1945. It is an "interim" Report, and is drawn up on the lines laid down by the Ministry of Health in Circulars 49/45, and 28/46.

Section A. Statistics and Social Conditions of the Area.

Area (in acres)            5,000 acres.

Population.    The figure given by the Registrar General as his mid-1945 estimate of the population is 9,742. This is a drop of 1,008 on the previous year's estimate; and of 1,658 on the mid-1943 estimate.

<u>Number of Inhabited Houses</u> (end of 1945) according to	
<u>Rate Book</u>	= 2,603
<u>Rateable Value</u>	= £114,782
<u>Sum represented by a Penny Rate</u>	= £440.

Social Conditions.

Social Conditions have remained substantially the same as in War Years. Reversion to Peace Time conditions, as in the pre-War years is taking a long time, chiefly due to the shortage of labour. The end of the War was followed by holiday rush, in which Newquay was filled to its utmost capacity, in spite of many Hotels and buildings still being requisitioned. In spite of the population of the town being at its "peak", with its consequent evils of overcrowding and a certain degree of limitation of food and fuel, the Health of the town has been very satisfactory.

When one takes a look at other Health Resorts, I think that Newquay must consider herself as being amongst the fortunate ones, with the "Dice loaded in her favour". The town presents an aspect of well-being, with the majority of buildings having had at least one coat of paint; and there are no unsightly areas of bomb-damaged houses, nor jungle-like gardens of empty houses to be seen as in many another health Resort.

We seem to be at least "one jump" ahead; and with foresight, it would seem that we shall maintain the jump ahead, as long as we get down at once to the real necessities for the maintenance of the good health record we have held in the past. Unfortunately I must repeat what I wrote in the Annual Report for last year, and for several years, the chief necessity in any Health Resort is a clean Bill of Health, and if this town is to be free of worry in this respect I put as the most imperative work in the immediate future, the provision of Main Water Supply, and Main Drainage to Crantock, Tregurrian, all those outlying parts of Newquay that have not yet got what, after all, are the ordinary decencies of life.

The population is estimated at about 10,000; but in the summer the population may well be in the region of 20,000. Modified Housing Schemes are in progress, but the demand for houses is acute, and will no doubt be met in due course. This will entail a further strain on the Main Drainage System of the town, which is already severely taxed, and I hope that at the first opportunity, the Scheme for the improved Main Drainage, postponed in 1939, will have priority amongst the works so necessary for the future Health of the Town. Possibly also the time is ripe to consider the scrapping of the various irrigation and sewage farms in the outer parts of Newquay; and to bring ourselves more up to date by developing a Septic Tank system of sewage disposal and by so doing to remove a certain amount of nuisance that is bound to increase as Newquay grows.

We would appear to be at the beginning of a New Era in the catering for the Holiday maker; and one feels that it will ultimately be the man on holiday who will decide the fortune of this or that Resort. Newquay has every natural attribute necessary for the making of a successful holiday; but I think that more needs to be done.

Apart from the catering for the pleasure side of a holiday, which does not concern this Report, I do suggest that too much money and labour cannot be spent on the Sanitation and Cleanliness of the Town.

Extracts from Vital Statistics of the Year.

<u>Live Births</u>	M.	F.	
Legitimate	75	63	
Illegitimate	11	13	
	86	76	Total = 162.

BIRTH RATE. 16.6 living as compared with that for England and Wales which is 16.1.

<u>Still Births.</u>	M.	F.	
Legitimate	2	1	
Illegitimate	-	-	
	2	1	Total = 3.

<u>DEATHS.</u>	M.	F.	
(Corrected for inward and outward transfer)	46	72	Total = 118.

DEATH RATE. Per 1000. 12.1 as compared with 11.6 for England and Wales. This is a "crude" rate; i.e. it makes no allowance for the age composition of the Newquay population, which works unfavourably in comparison with the Standard rate, because of the greater number of elderly people the town contains. No "comparability factor" has been given this year; and so it is not possible to give a "corrected" Death Rate.

Deaths from Puerperal Causes.

No 29 Puerperal Sepsis-----0  
 No 30 Other puerperal Causes-----0

Deaths of Infants under One year of Age.

	M.	F.
All infants per 1000 live Births		
Legitimate	-	1
Illegitimate	-	-
	<u>Total = 1.</u>	

<u>Deaths from Cancer</u>	(all ages)	+	15
<u>Deaths from Measles</u>	(all ages)	=	0
<u>Deaths from Whooping Cough</u>	(all ages)	=	0
<u>Deaths from Diarrhoea</u> (under two years)		=	0

CAUSES OF DEATH.

The chief causes of Death were as follows----

1. Diseases of the Heart & Bloodvessels	----	49
2. Cancer, Malignant Disease.	----	15
3. Pulmonary Tuberculosis.	----	2
4. Cerebral Haemorrhage; Dis. of Brain	----	9
5. Respiratory Disease.	----	8
6. Violence, accidents, etc.	----	7
7. Nephritis	----	4
8. Diabetes	----	3
9. Other causes	----	21
		<u>118</u>

Ages at Death.

Under one year	-----	1
1 year and under 5 years	----	1
5 and under 15 years	----	0
15 and under 25 years	----	1
25 and under 50 years	----	6
50 and under 65 years	----	21
65 and under 80 years	----	58
80 years and over; and of these 4 were over 90;	----	30
and one over 100 years.		<u>118</u>

SECTION B. General Provision of Health Services for the Area.

- (1) Medical Officer of Health (Part time) A. G. P. Hardwick, MRCS, LRCP.  
(appointed 1926)
- (2) Sanitary Inspector (Whole time) J. H. Chapple, MSIA Assoc. RSI  
(appointed 1919)
- (3) Laboratory Facilities.  
Ambulance Facilities.  
Nursing in the Home.  
Treatment Control Centres.  
Hospitals.  
Maternity & Child Welfare.

Under the above Headings, there have been no changes from the arrangements made in former years.

Section C. Sanitary Circumstances of the Area.(1) WATER.

The greater part of the Urban District is supplied by the Newquay & District Water Company----a statutory company; but the areas which were admitted to the Urban District in 1934 and which are outside Newquay Proper, still rely on Wells, many of which are definitely BAD.

The areas which are not supplied with the Main Water Supply, are Crantock, Watergate, and Tregurrian.

The Main Water Supply is derived from the following sources

- (a) A main supply is obtained from deep adits at Indian Queens, and Ruthers by gravitation, and the water is conveyed by iron pipes to reservoirs at Quintrell Downs, and then by pipe line to Newquay.
- (b) A main supply from Trewollock, obtained by pumping from old mine shafts and adits, the water afterwards being conveyed to aeration and filtration plant at Fairpark.

WATER, Contd.

(c) A supplementary supply at Mount Wise, Newquay, obtained from a shaft by pumping.

(d) An additional supply was opened in 1943, which is derived from the Porth Stream. Legislation, following a Ministry of Health Inquiry in January, 1942, sanctioned this Supply, which is a chlorinated Water, and this supply is in full use and is satisfactory. This water runs through agricultural country and is known polluted water. Filtration and Pumping Plants, together with Chlorination works are in operation at Rialton.

This station is then connected to the existing pumping Main from Trewollock, and thence to Fairpark Service Reservoir. This supply came into service in August 1943, and monthly reports from the Company regularly submitted to me, confirm that the supply is a wholesome Water suitable for Public Supply.

With the exception of the occasional supply at Mount Wise, all the Main Water is now mixed at Fairpark Tank Reservoir, and this supply is now chlorinated Water.

Monthly analyses are regularly made by the Local Authority through the Laboratory at the Royal Cornwall Infirmary. In addition, the Company supplies your Medical Officer with a monthly Report.

During the year, these Reports have been entirely satisfactory; and a regular report is "This sample is clear and bright in appearance and of the highest standard of Bacterial Purity." These results are consistent with a pure and wholesome water suitable for the purposes of a public Supply.

CRANTOCK, WEST PENTIRE, TREGURRIAN.

I have to report again that no action has been taken to carry out the work of supplying these areas with Main Water.

The Schemes for this supply have been accepted, and sanctioned by the Ministry; and the Pipes are lying in dumps around the country side. But it is apparent that another summer season will pass before anything is done. The statements made in my Annual Report for last year are therefore entirely applicable to this year. It means that these areas will rely solely on their Wells, the majority of which are badly contaminated, and the water is not fit for human consumption. To ensure safety, it is necessary that all water should be boiled before drinking; and instructions to that effect have been issued.

(2) DRAINAGE & SEWERAGE.

The routine testing and inspections of drains and sewers have been carried out, and the results are to be found in the Annual Health Report of the Sanitary Inspector, which is attached.

I would suggest that possibly the time is now ripe for the

Local Authority to consider the possibility of doing away with its various Irrigation Farms, and sewage areas; and to bring the District more up to date by developing Septic Tank Systems. We inherited two of the irrigation farms, when the St. Columb Minor area was incorporated in the Newquay Urban District in 1934. There always appears to be a certain amount of nuisance from an irrigation area; and as Newquay is rapidly extending, with the eventual increase of houses in the Denver Road area, it would seem wise to consider a reconstruction of these systems at an early date.

(3) Rivers and Streams.

No action has been taken during the year.

(4) Closet Accommodation.

There is nothing fresh to report under this heading. The conditions are the same as in former years in the outlying districts; and until a Water and Sewerage scheme is provided for Crantock and Tregurrian, these localities must continue with their earth and sand privies.

Public Cleansing.

The Collection and Disposing of Refuse is undertaken by the Council under the supervision of the Sanitary Inspector, details of which are given in his Annual Report attached.

SANITARY INSPECTION OF THE AREA.

The usual summary of the Sanitary Inspector's Annual Report is omitted; and instead, the entire report of the Sanitary Inspector for the year 1945 is attached.

SECTION D.HOUSING.

Sanction has been given for the erection of a number of Houses to be erected by the Local Authority; similarly for the erection of pre-fabricated houses. These will be erected during 1946.

SECTION E.Inspection & Supervision of Food.Milk.

The number of Producers and/or Retailers on the Register is 36.

The statistics of samples taken, etc. are to be found in the Annual Report of the Sanitary Inspector.

The quality and condition of the milk supply slowly appears to improve, but there are too many loop holes in the various Acts and Regulations to allow local supervision to be really effective. The Government of 1943 appeared acutely alive to the dangers of Milk, but since then, in spite of many Regulations, and promises to ensure more pasteurisation of bulked milk there has been little, if any improvement. Until one can obtain absolute cleanliness at the source - i.e. at the farms especially, where the cleaning of cows before milking, the enforcement of the cleanliness of the milker himself, and the churns, and other utensils used in the preparation of the milk supply and its conveyance to the Consumer, are carried out, Local Authorities will find it more and more difficult to cope with the frequent reports of an unsatisfactory Milk Supply.

Meat & other Foods.

The statistics under this heading will be found in the Annual Report of the Sanitary Inspector. Owing to Government Control, all meat is slaughtered at the Central Slaughter House at Lane. This is not in the Newbury Urban District.

Adulteration, Etc.

No action has been taken during the year under the various Acts controlling this offence.



SECTION F.

Prevalence of, and Control over Infectious and Other Diseases.

The Table shows the Notifications received of cases of Infectious Diseases during the Year 1945.

Disease.	Cases Notified.	Services.		Admitted Hospital.		DEATHS
		Truro Isolation Hos.	M.O.P. Westward Ho.	M.O.P.	Westward Ho.	
Measles.	193	(2)			15	= 0
Chicken Pox,	52	(2)			1	0
Erysipelas.	2		1			0
Diphtheria.	1	(1)	1			0
Scarlet Fever.	4		2			0
Whooping Cough.	1					0
Malaria.	2	(2)		2		0
	255	7	4	2	16	0

Measles. A severe epidemic of Measles occurred during the first three months of the year, and cases occurred spasmodically throughout the latter half of the year.

Except for this epidemic of Measles the town was exceptionally free from notifiable infectious Diseases: The Auxiliary Isolation Hospital at Westward Ho, administered by the Cornwall County Hospital was closed at the end of October. This small Hospital filled a very useful function, and gave much help since its inception in 1941.

Diphtheria. One case occurred in an Adult R.A.F. Airman. Except for this case none occurred throughout the District.

IMMUNISATION against DIPHTHERIA.

This work, commenced in 1940, continued throughout the year.

<u>Number of children completing course.</u>	<u>Jan. 1945, to Dec. 1945.</u>
<u>Under 5 years.</u>	<u>5 and under 15 years.</u>
i. e.,	
124	20

The total number immunised from Sept. 1940, to December, 1945, and who completed the course of two injections ----

<u>Local Residents.</u>	<u>Government Evacuees.</u>
1498	657
<u>GRAND TOTAL = 2155.</u>	

The Registrar General's estimate of the Child Population in this town in mid 1945 is given as ----

Age Group	0 ---- 4 inclusive	=	699
	5 ---- 14 "	=	1270

The prophylactic in all cases was issued to the Practitioners of the town; and in every case the D.P.T. Toxoid was made available from the Devon County Laboratories.

Inoculation against the Typhoid Group of Fevers.  
Vaccine for the prophylactic treatment of those desirous of receiving it, is held by me.

Scabies and Verminous Conditions.  
With the end of the War, and the return of Evacuees to their own homes Verminous Conditions have practically disappeared. Judges Hostel was closed in October. This Hostel fulfilled an invaluable Service throughout the War; and the thanks of the community are due to the Matron who carried out these unpleasant duties with such success.

Venereal Disease.

Facilities are available under the arrangements of the Ministry of Health Circular 2226. The incidence of these diseases have greatly lessened in the District with the termination of the War.

TUBERCULOSIS.

No action has been required or taken under the P. H. (Prevention of Tuberculosis) Regs. 1925, or under section 177 of the Public Health Act, 1936.

New Cases, and Mortality during 1945. Civilians Only.

Age Periods.	Respiratory.		Non-Respiratory.		DEATHS.			
	M.	F.	M.	F.	Respiratory.		Non Resp.	
					M.	F.	M.	F.
5 --- 15								
15 --- 25								
26 --- 35								
36 --- 45	1	1						
46 --- & upwards	1	1			1	1		
	2	2			1	1		

Port Sanitary Regulations.

No action has been taken or found necessary during the Year. No vessels or passengers entering the harbour other than Fishing Boats.

Signed: A. G. P. HARDWICK.

Medical Officer of Health  
for Newquay.

September, 1946.



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April, 1946.

YEAR - 1945.

SANITARY INSPECTORS DEPARTMENT.

SANITARY INSPECTORS ANNUAL REPORT.

To the Chairman and Members of the Council, and Medical Officer of Health.  
Gentlemen,

Herewith I beg to submit to you my Annual Report for the year ending December, 1945.

General Statistics.

Total number of houses and premises inspected in the district.	529
Total number of complaints received, investigated and dealt with.	12
Total number of nuisances referred to Surveyors Department.	4
Total number of nuisances found and abated after notice.	Nil
Total number of Preliminary Notices served.	21
Total number of Formal Notices served.	1

Disinfection, Rooms, Bedding, etc.

Number of houses disinfected by fumigation and spraying.	Nil
Number of rooms disinfected by fumigation and spraying.	110
Number of articles of bedding, clothing, etc. destroyed by burning.	12
Number of articles of bedding, clothing, etc. disinfected by steam.	3091
Number of patients removed to Isolation Hospital.	7
Number of rooms treated for infestation.	45
Number of houses treated for infestation.	2

Drainage.

The following particulars include - Sets of drains and sections of drains to new houses and other premises, new sets and sections to existing premises, sections new main drains, sets and sections of existing drains, all of which were inspected, supervised, and tested during construction.

Total number of drains inspected, tested and passed.	103
Number of sets of drains to new houses inspected, tested, and passed.	1
Number of sections of new house drains.	Nil
Number of sets of new drains to existing premises.	1
Number of sections of new drains to existing premises.	3
Number of sets of existing house drains tested and remedied.	5
Number of Sanitary Certificates issued in respect of existing premises.	Nil
Number of new Water Closets inspected and passed.	2
Number of new connections to main sewer inspected and passed.	Nil
Number of new Cesspools inspected and passed.	3
Number of choked drains subsequently cleansed.	6
Number of sewer defects notified and repaired.	2
Number of defective Cesspool covers, etc. remedied.	2

### Existing Houses.

Number of houses in which defective drainage was found, and which were subsequently remedied = 9.

Number of houses in which other Housing and Public Health Acts defects were found and subsequently remedied = 7.

### Collection and Disposal of Refuse.

The disposal of house refuse continues satisfactorily on the controlled system, supervised by the Sanitary Inspectors Department.

### Factories Act, 1937.

There are at present in the district 67 Factories and one Laundry.

Number of Preliminary Notices served to remedy defects and complied with = Nil.

### Public Buildings, Cinemas, etc.

Number of Certificates issued in respect of cinemas for purposes of the Licensing Authority, regarding sanitary accommodation, water supply, ventilation, temperature, cleanliness, and satisfactory means of escape in case of fire = 3.

These premises are inspected periodically in a general way, but specially annually for the purpose of the certificates.

### Water Supply.

Number of samples of the Public Water Supply taken for analysis in various parts of the District (Chemical and Bacteriological examination) = 8.

### Milk and Dairies Order, 1926.

Number of producers and /or retailers appearing on the Register ending 31st December, 1945 = 36.

Number of new purveyors of milk registered and Certificates issued during the year = Nil.

Number of purveyors discontinued throughout the year = 4.

Number of milk shops in the district, year ending 31st December, 1945 = 4.

Number of milk shops in the district discontinued during the year = 1.

### Dairies and Cowsheds.

During the year visits were made to Dairies and Cowsheds in the area, in connection with the standard required by the Milk and Dairies Order.

Number of Informal Notices given to bring cowsheds up to the required standard, and since remedied = 4.

### Milk (Special Designations) Order, 1936.

Number of Tuberculin Tested milk Distributors Licensed in the District = Nil.

Number of Tuberculin Tested Milk Bottling Establishments in the District = Nil.

Number of Pasteurised Milk Distributors licensed in the District = 4.

Number of Pasteurising Establishments licensed in the District = 1.

Number of Accredited distributors registered in the District = 2.

Pasteurised, and Accredited milks are retailed within the District.

Public Health Meat Regulations.

Inspection Slaughterhouse, shops, stores and vehicles for meat and other foods, year ending 31st December, 1945. Partial examinations are made at the Government Slaughterhouse by arrangement with St. Austell R.D.C.

Number of Slaughtermen licensed in accordance with the requirements of the Slaughter of Animals Act, 1933 = 10.

Slaughtermens Licences are granted subjected to renewal annually; upon satisfactory compliance with the various Acts, Orders, Regulations and competency, approval is not withheld.

Meat Regulations.

Bye-laws requiring the stunning of all animals for food, prior to slaughter by means of mechanically operated instrument is operative in the district.

Inspection of Carcasses and Organs.

Upon examination the following was condemned as unfit for human consumption, voluntarily surrendered, and despatched for salvage purposes.

Beef Carcasses.	lbs.	lbs.
Steer Carcase	382	
Heifer Carcase	280	
Bullocks Carcase	<u>578</u>	1240
Beef Quarters		
part hind quarter	<u>44</u>	44
Parts Beef Carcasses		
Shin	22	
Meat	51½	
2 Breasts & loin	109	
Forearm & breast	46	
1 Calf leg	8	296½
Bullocks leg	<u>60</u>	
Ox Organs		
Offal	28	
4 heads & tongues	108	
3 livers & lungs	82	
liver, lung, & spleen	62	
Tripes	58	
liver, kidney, & fat	29	
Lungs, heart, spleen, & tail	<u>10</u>	377
Sheep Carcasses, parts Carcasses, & Organs.		
Lamb Carcase	28	
legs	28½	
side (less shoulder)	25	
Lung & Offal	<u>6</u>	87½
Pig Carcasses & Organs.		
Carcase & pluck	76	
liver, lungs, & heart	30	
Offal	<u>10</u>	116
	<u>2161</u>	<u>2161</u>

TOTAL = 2161 lbs.

Canned Meat & other Foods condemned.

The following unsound Tinned Food, etc. were inspected, voluntarily surrendered, and destroyed, being unfit for human consumption. Viz:-

Meat Products.	TOTAL		lbs.
190 tins Meat (various)	190	Oranges	660
		Strawberries	4
Fish.		Cheese	6
78 tins Pilchards		Fish	482
6 tins Mackerel		Sugar	129
3 tins Crawfish		Bacon	55 $\frac{3}{4}$
2 tins Herrings		Sausages	24
3 tins Salmon		Potatoes	280
2 tins Sardines		TOTAL =	1640 $\frac{3}{4}$
3 tins Shrimps			
<u>97</u>	97		
Vegetables.			
3 tins Meat & Vegetables		Also: 1 Tin Syrup	
42 tins Beans		3 Jars Pickles	
13 tins Peas		2 Pkts. Dried Eggs	
30 tins Pork & Beans		116 dozen Eggs.	
3 tins Mixed Vegetables			
2 tins Carrots			
<u>93</u>	93		
Milk.			
100 Tins Milk (various)	100		
Fruit.			
1 tin Damsons			
3 tins Jam			
10 tins Marmalade			
1 tin Pineapples			
<u>15</u>	15		
Soup.			
22 tins Soup (various)	22		
	TOTAL =		517

Rats & Mice Destruction Act, 1919.  
& Infestation Order, 1943.

During the year Rat destruction has been operative at the Councils Refuse Disposal Site, and sewage disposal plants at Crantock, Gustiveor, Trencreek, and St. Columb Minor, under contract with W.A.E. Committee the control at these sites is still satisfactory.

Total number of bodies seen and disposed of = 415.  
Estimated number of rats destroyed = 1215  
Number of private premises treated = 46  
Number of premises treated, owned or occupied by the Local Authority = 101

Petroleum Regulations Acts,  
1928 - 1936.

Number of premises in the district licensed to store Petroleum = 25.

The Licences are renewable annually, and in all cases expire at the end of the year.

Number of storage plants not reopened = 20.

Carbide of Calcium.

Number of premises in the district licensed to store Carbide of Calcium in accordance with the above Acts, and the Petroleum (Carbide of Calcium) Order, 1929 = 2.

The Carbide of Calcium Licences are in respect of approved stores which are subject to various conditions contained in the Acts, and Order, and are renewable at the end of the year.

Hackney Carriages.

The numbers and descriptions of vehicles licensed to ply for hire in the Urban District are as follows:-

From July 1st, 1945, to June 30th, 1946.

Vehicles, Hackney Carriages.	55
Drivers, number of drivers of Hackney Carriages.	66
Hackney Carriages. Number of new Hackney Carriage Licences issued during the year.	23
Drivers. Number of new Hackney Carriage Drivers Licences issued during the year.	33

The vehicles employed are on the whole a good type for hire purposes, and a steady average as regards numbers appear to be maintained from year to year, the present provision is understood to be ample for the needs of the District.

Minor defaults occurring during the season were remedied without recourse to any action of the Council.

I am Gentlemen,

Yours faithfully,

J. H. CHAPPLE, F.S.I.A. & C.R.S.I.

Sanitary, Housing, & Meat  
Inspector.



COLLECTION AND DISPOSAL OF WASTE MATERIALS.

MONTHLY TONNAGE AND INCOME YEAR 1945.

<u>January to June, 1945, inclusive.</u>					<u>July to December, 1945, inclusive.</u>				
	Tons	Cwt	Lbs.	£		Tons	Cwt	Lbs.	£
January	10	5	0	68	July	10	0	0	66
February	10	9	56	69	August	20	3	56	121
March	27	18	0	104	September	14	3	0	104
April	12	1	56	80	October	12	17	0	83
May	12	17	84	85	November	15	6	0	96
June	16	12	0	108	December	13	0	56	85
	<u>90</u>	<u>3</u>	<u>84</u>	<u>515</u>		<u>85</u>	<u>10</u>	<u>0</u>	<u>558</u>
									<u>4</u>
									<u>1</u>
									<u>10</u>
									<u>9</u>

First half year 1945, January to June inclusive.

Monthly Average Tonnage = 15 tons 0 cwt 70 lbs.

Monthly Average Income = £85 19s 6d.

Monthly Average Tonnage for full year = 14 tons 12 cwt 91 lbs. Monthly Average Income for full year = £89 9s 10½d.

TOTAL TONNAGE for full year = 175 tons 13 cwt 84 lbs. TOTAL INCOME for full year = £1,075 18s 9d.

Second half year 1945, July to December, inclusive.

Monthly Average Tonnage = 14 tons 5 cwt 0 lbs.

Monthly Average Income = £93 0s 3½d.

J. H. CHAPPLE,

Salvage Officer.



