

[Report 1929] / Medical Officer of Health, Paignton U.D.C.

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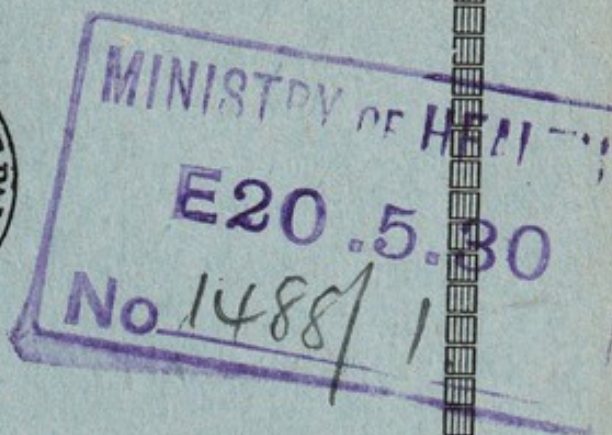
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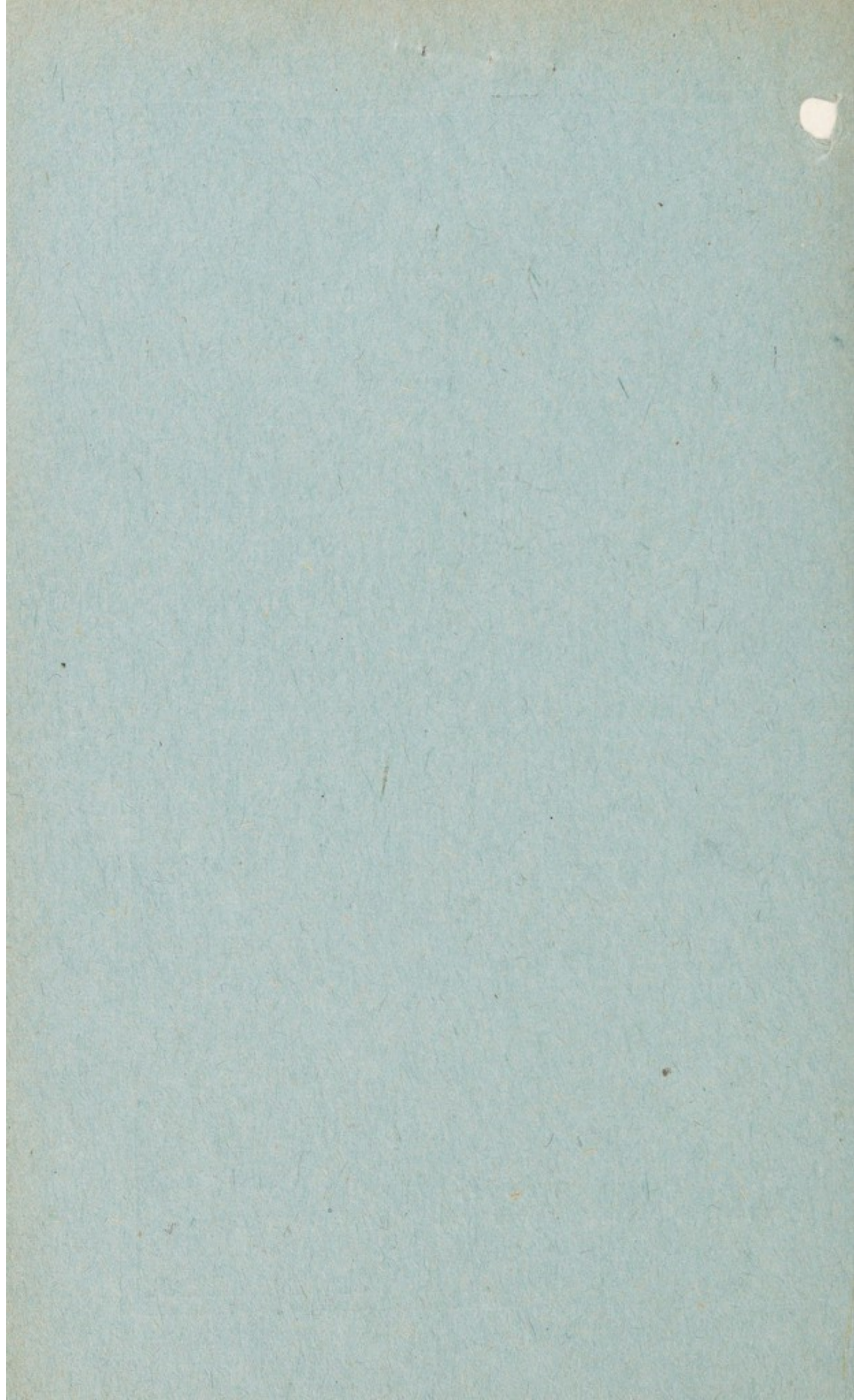
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1929.

REPORT
ON THE
PUBLIC HEALTH
OF THE
Urban District of Paignton
FOR
1929.

PAIGNTON :
AXWORTHYS' TORBAY PRINTING WORKS, PALACE AVENUE.



PAIGNTON
URBAN DISTRICT COUNCIL.

Public Health Department.

Medical Officer of Health :

R. JULYAN GEORGE, M.D., M.S., D.P.H.

Chief Sanitary Inspector :

Meat and Food Inspector :

FREDERICK J. THICK, M.S.I.A., etc.

Assistant Sanitary Inspector :

C. G. H. RICE, M.S.I.A.

Matron—Isolation Hospital

MISS I. FREEMAN.



ANNUAL REPORT

OF THE

Medical Officer of Health

For 1929.

TO THE CHAIRMAN AND COUNCILLORS OF THE URBAN DISTRICT
OF PAIGNTON.

GENTLEMEN,—

I have the honour to submit my Report for 1929.

GENERAL STATISTICS.

1.—

Area (acres)	5,177
Population—Census, 1921	12,480
" Estimated, 1929	22,282
R.G.'s Estimate	16,930

Estimated Population.

The population of the District, estimated on the same basis as for last year, i.e., 4.76 persons per house, is 22,282 living in 4,691 houses the distribution in the Wards being:—

	POPULATION		HOUSES.
North	6774	...	1426
South	5805	...	1222
East	3368	...	709
West	3568	...	751
Central.....	2767	...	583
	22282	...	4691

Number of inhabited houses—1921, 3349 ; 1929, 4691

Rateable Value (1st Oct., 1929) £165,620

Sum represented by a Penny Rate £672

2.—EXTRACTS FROM VITAL STATISTICS OF THE YEAR.

Births—	Total.	M.	F.
Legitimate	184	95	89
Illegitimate	13	6	7
Birth Rate—			
R.G.'s Estimate per 1,000 population			11.6
On Surveyor's estimated population per 1000			8.9
Deaths	247	113	134
Death Rate—			
R.G.'s Estimate per 1,000 population			14.6
On Surveyor's estimated population per 1000.			11.2
Number of women dying in, or in consequence of, childbirth—			
From Sepsis	Nil.		
From other causes	Nil.		
Death of Infants under 1 year of age—		Total.	
Legitimate, 12 ; Illegitimate, 2		14	
Deaths from Measles (all ages)		Nil.	
Deaths from Whooping Cough (all ages)		2	
Deaths from Diarrhoea (under 2 years of age)		Nil.	

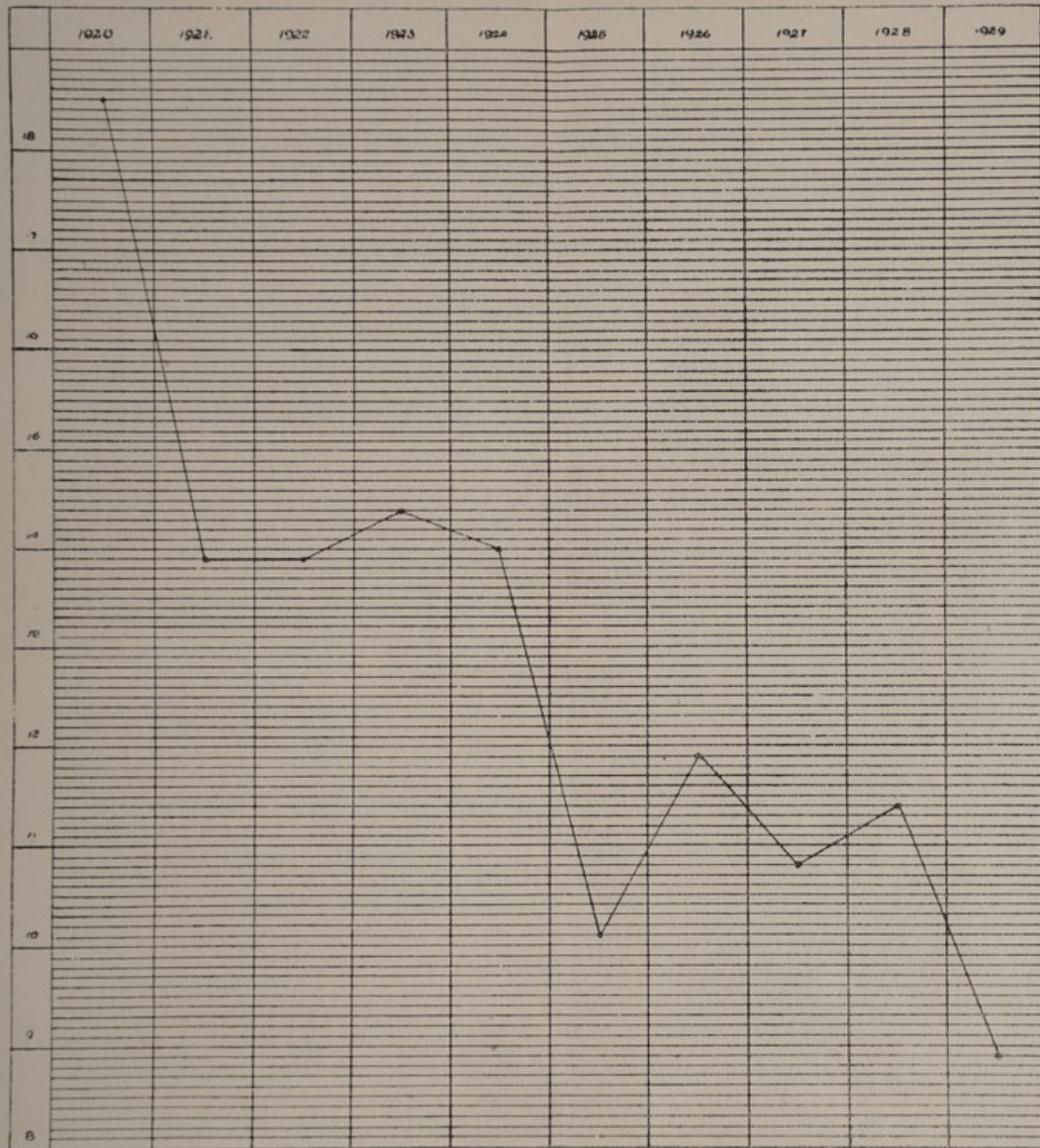
BIRTH-RATE, DEATH-RATE, AND ANALYSIS OF MORTALITY DURING THE YEAR 1929.

(Provisional figures. The rates for England and Wales have been calculated on a population estimated to the middle of 1929, but those for the towns have been calculated on populations estimated to the middle of 1928. The mortality rates refer to the whole population as regards England and Wales, but only to civilians as regards London and the groups of towns).

	BIRTH-RATE PER 1,000 TOTAL POPULATION		ANNUAL DEATH-RATE PER 1,000 POPULATION.										RATE PER 1,000 BIRTHS.		PERCENTAGE OF TOTAL DEATHS.			
	Live Birth	Still-births	All Causes.	Enteric Fever.	Small-pox.	Measles.	Scarlet Fever.	Whooping Cough	Diphtheria.	Influenza.	Violence.	Diarrhoea and Enteritis (under 2 years).	Total Deaths (under 1 year).	Certified Causes of Death.	Inquest Cases.	Certified by Coroner after P.M. No Inquest.	Uncertified Causes of Death.	
England and Wales	16.3	0.68	13.4	0.01	0.00	0.08	0.02	0.15	0.08	0.74	0.55	8.1	74	91.5	6.1	1.5	0.9	
107 County Boroughs and Great Towns*, including London	16.6	0.69	13.7	0.01	0.00	0.12	0.02	0.19	0.09	0.76	0.50	10.9	79	91.8	5.8	1.9	0.5	
157* Smaller Towns (1921 Adjusted Populations, 20,000-50,000)	16.0	0.71	12.3	0.01	0.00	0.06	0.02	0.15	0.07	0.71	0.45	5.9	69	92.6	5.4	1.0	1.0	
London	15.7	0.53	13.8	0.01	0.00	0.04	0.02	0.26	0.08	0.69	0.56	10.7	70	89.5	6.8	3.7	0.0	
Paignton	8.9	0.27	11.2	0.00	0.00	0.00	0.00	0.09	0.00	0.32	0.32	0.0	14	93.1	3.7	3.2	0.0	

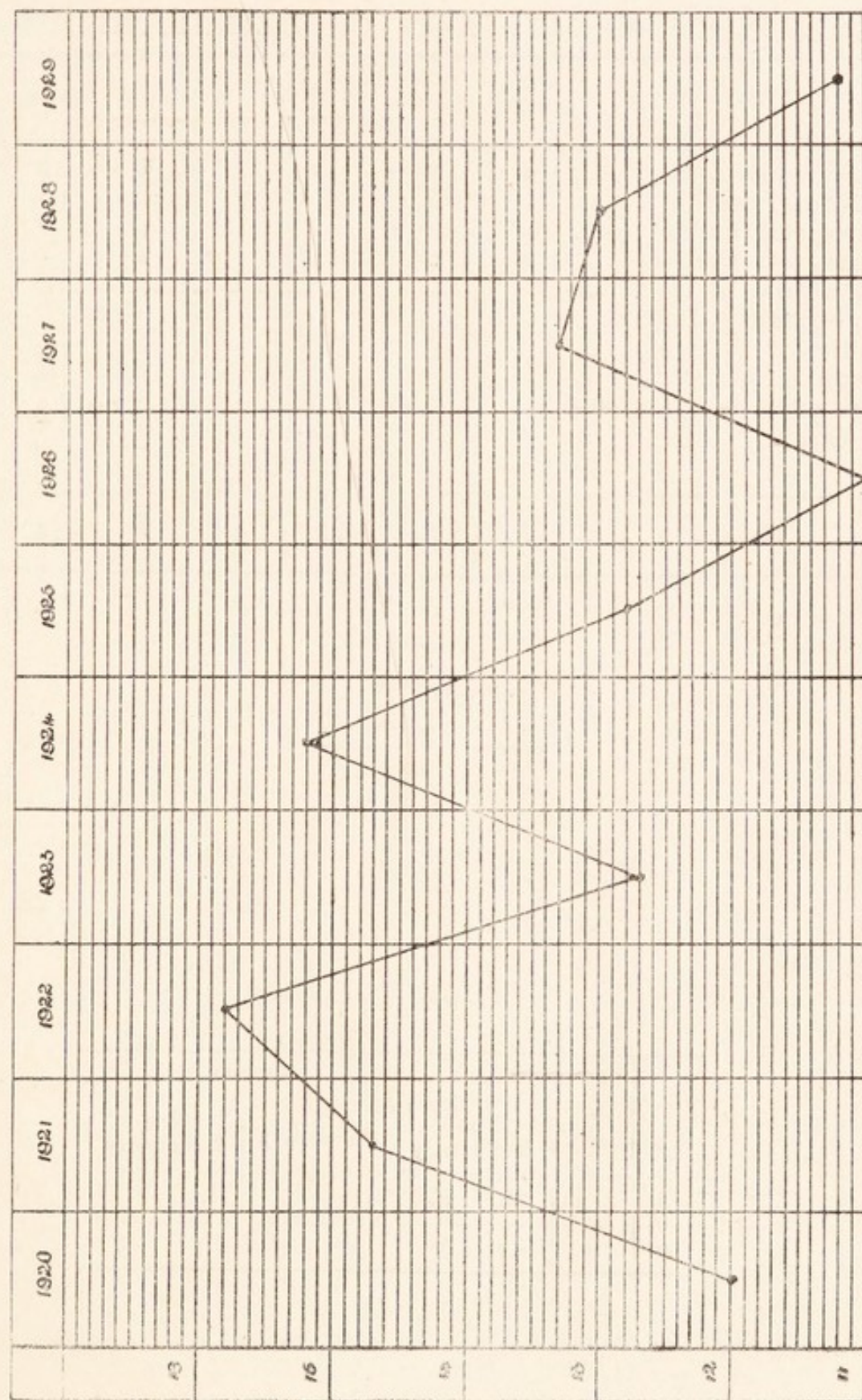
* By the extension of Uxbridge U.D. on the 1st April, 1929, the number of Smaller Towns is increased to 157.

CHART SHOWING BIRTH RATES FOR YEARS 1920—1929.



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CHART SHOWING DEATH RATES FOR YEARS 1920-29.



AGE INCIDENCE OF CASES OF INFECTIOUS DISEASES

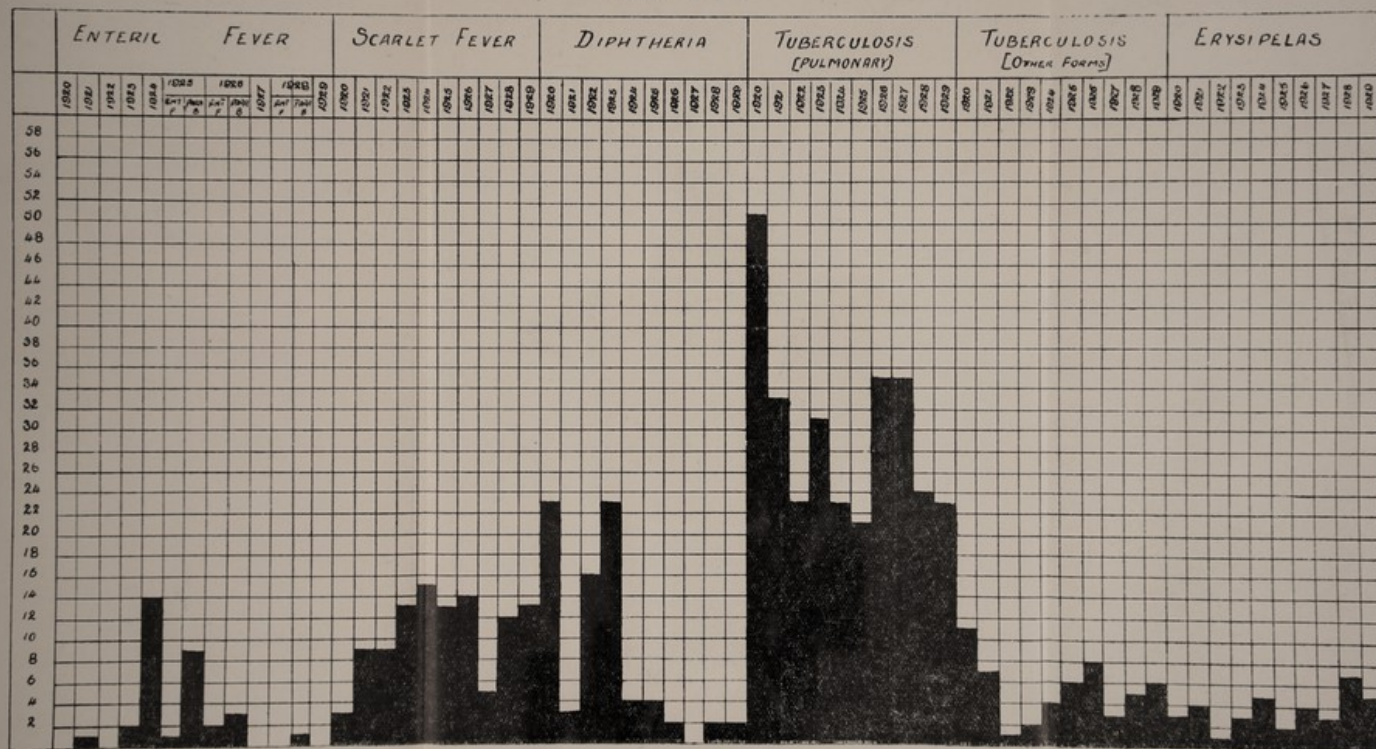
DISEASE			Up to 12 mths	1-5	5-10	10 15	15-25	25-45	45 uPward.
Pneumonia	...	...	4	9	1	2	1	10	11
Scarlet Fever	...	...	-	3	8	2	-	-	-
Puerperal Fever	...	...	-	-	-	-	1	-	-
Puerperal Pyrexia	...	...	-	-	-	.	2	-	-
Erysipelas	...	...	-	-	1	-	-	1	3
Ophthalmia	Neona-								
torum	...	...	1	-	-	-	-	-	-
Diphtheria	...	...	-	1	-	-	1	-	-
Encephalitis	Lethar-								
gica	...	...	-	-	-	-	2	.	-
TOTALS			5	13	10	4	7	11	14

TUBERCULOSIS.

NEW CASES.				DEATHS.			
Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
M.	F.	M.	F.	M.	F.	M.	F.
9	14	1	5	5	5	1	3

CASES OF INFECTIOUS DISEASES NOTIFIED 1920-29.

SHEET No. 1.



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TABLE SHOWING CANCER DEATHS PER 1,000
POPULATION—From 1918 to 1922

Date.	Population.	Total Deaths.	Cancer Deaths.	Ratio per 1000
1918	11,953	162	24	1.75
1919	12,484	182	23	1.36
1920	12,981	170	21	1.6
1921	12,480	184	26	1.76
1922	12,590	201	26	1.6
1923	13,050	167	22	1.72
1924	13,890	212	28	1.83
1925	14,340	186	16	1.12
1926	15,950	177	26	1.63
1927	16,370	218	29	1.77
1928	16,640	217	31	1.86
1929	22,000	247	28	1.27

NOTIFIABLE DISEASES DURING THE YEAR

Disease.	Total Cases Notified	Cases admitted to Hospital.	Total Deaths
Scarlet Fever	13	9	10
Pneumonia	38		
Erysipelas	5	1	
Encephalitis Lethargica	2		
Ophthalmia Neonatorum	1		10
Puerperal Pyrexia	2		
Puerperal Fever	1		
Diphtheria	2		
Tuberculosis—			
Pulmonary { M. 9	23		10
F. 14			
Total ...			
Non-Pulmonary { M. 1	6		4
F. 5			
Total ...			

HOSPITALS.

- A. (1) **Fever.**—Cases of Infectious Disease, other than Smallpox, are sent to the Isolation Hospital at King's Aish, Paignton. This Hospital, with its trained Staff, is entirely under the control of the Local Authority. It also receives suitable cases, on payment, from the Local Authorities of Brixham Urban, Dartmouth Borough, Dartmouth Port Sanitary, and Kingsbridge Rural.
- (2) **Smallpox.**—Arrangements are in force whereby any cases of Smallpox are sent to the County Smallpox Hospital at Upton Pyne.
- B. (1) **Tuberculosis.**—Tubercular cases are sent to Hawkmoor Sanatorium, Bovey Tracey; or Whitecliff Hospital, Torquay.
- (2) **Maternity.**—No special Hospital is maintained for Maternity cases.
- (3) **Children.**—There is a special Children's Ward at the District Hospital.

There is one General Hospital within the Urban District, but it takes in cases from outside the District. The Local Authority gives £20 yearly, but has no voice in its management. It has a Male Ward, and a Female Ward containing 5 beds each, and a small Children's Ward. There is also a Private Ward.

During 1929, 7 extra new beds have been added to the Men's Ward, and 9 new beds to the Women's Ward.

The extension to this Hospital has now been completed. Thus, accommodation has greatly been increased. In the new addition there are 5 Private Wards, a new Out-patient Department, 1 Nose and Throat room, 1 Massage room, and 1 Ophthalmic room. A new X-Ray Plant has also been installed.

AMBULANCE FACILITIES.

(a) **Infectious Diseases.**—All cases of Infectious Diseases are removed in an Ambulance kept exclusively for this work. It is under the control of the Medical Officer of Health.

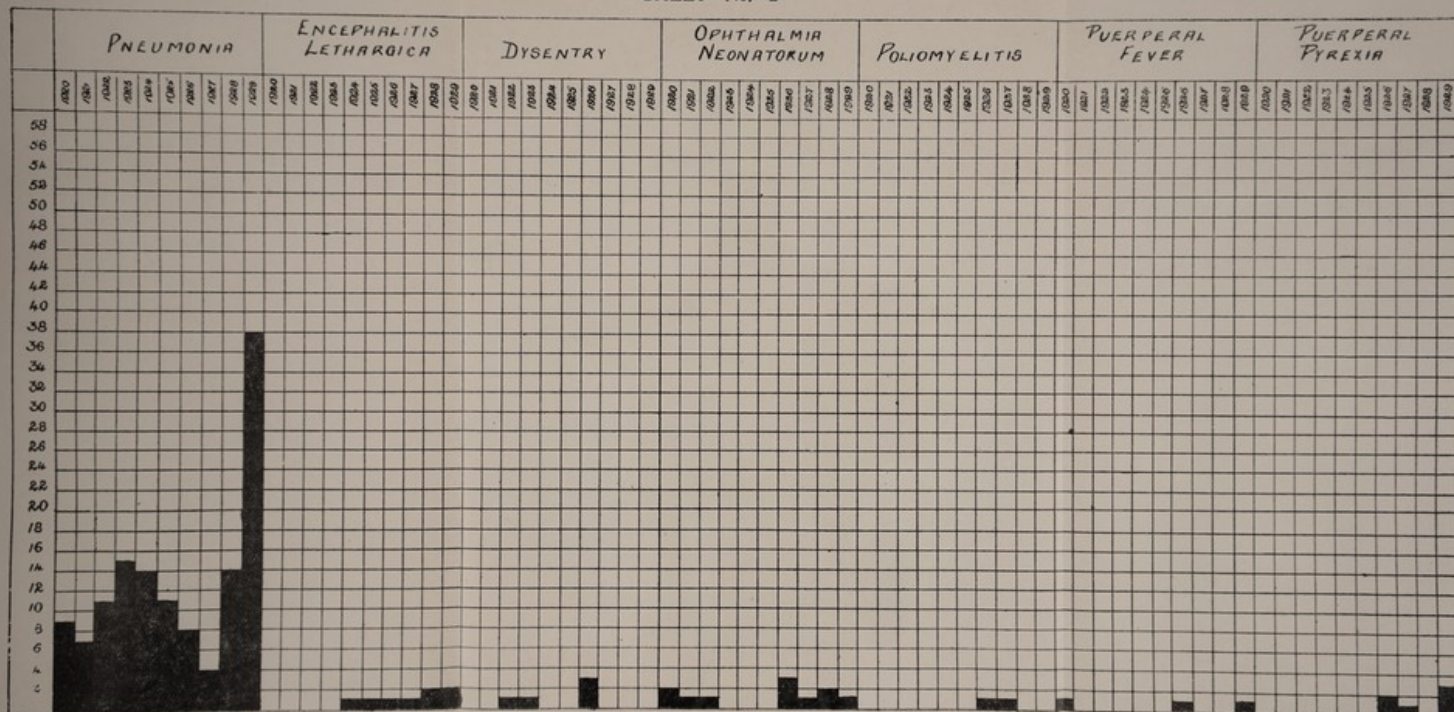
(b) **Non-Infectious and Accident Cases.**—A Morris Ambulance is maintained by the Local Authority, and under the control of the St. John Ambulance Brigade (Paignton Branch), to deal with all cases other than Infectious Diseases.

CLINIC AND TREATMENT CENTRES.

Maternity and Child Welfare.—There is a Maternity and Child Welfare Centre for consultation and advice. The latter is given by Dr. F. Muriel Morris, O.B.E., M.D., who is the Medical Officer.

CASES OF INFECTIOUS DISEASES NOTIFIED 1920-29.

SHEET No. 2.



School Clinic.—1, Curledge Street, Board Room, County Education.

Tuberculosis.—None.

Midwives.—Mrs. Stook, "St. Guy's," Southfield Road, Paignton, and Miss Mumford, Hayes Gardens, Paignton.

Midwives do not come under the jurisdiction of the Council.

Maternal Mortality.—All cases of Maternal Mortality are inquired into by the Medical Officer of Health.

Arrangements are in force whereby local Practitioners needing advice in cases of Puerperal Fever apply to the Medical Staff of the Torbay Hospital, Torquay.

The following Report was received from the Queen's Inspector November 8th, 1929 :—

"The Nurses were working well in a keen and conscientious way, and their services seemed to be appreciated."

We have two Queen's Nurses, who divide the work of Paignton and District. Mrs. Stook does all the midwifery, except in cases of emergency. She attends all Meetings of the Maternity and Infant Welfare Centre as far as possible.

REPORT OF THE QUEEN'S DISTRICT NURSES, Etc.

I have attended 77 general cases during the year 1929, from 1st January to 31st December. Surgical, 46; Medical, 29; T.B., 2; Operations, 6. Nursing and Casual Visits, 1,679.

(Miss) G. TREASURE,
Queen's District Nurse.

From 1st January, 1929, to 31st December, 1929, I have visited New Cases, 75; Medical, 39; Surgical, 27; Operations, 3; Relief Midwifery, 9; Nursing visits, 1,702; Casual visits, 125.

(Miss) A. BEARD,
Queen's District Nurse.

Paignton Nursing Association, Midwifery Branch, year ending 31st December, 1929. Number of cases taken, 96; Visits paid—Nursing, 1,254; Ante-Natal, 100.

(Mrs.) A. STOOK,
District Midwife.

LEGISLATION IN FORCE.

Paignton Improvement Act, 1898.

Paignton Urban District Council Act, 1911.

Paignton Urban District Council Act, 1926.

Paignton Urban District Water Act, 1900.

Infectious Diseases (Prevention) Act, 1890.

Public Health Acts Amendment Act, 1890. Parts 1, 2 and 3.

Private Street Works Act, 1892.

Public Health Acts Amendment Act, 1907.

Part 1.

Part 2, Sections 17, 18, 20, 22, 24, 25, 26, 27, 28, 29, 32 and 33.

Part 3, Sections 34, 35, 36, 37, 38, 39, 40, 41, 42, 48, 49, 50 and 51.

Part 4, Sections 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66 and 68.

Part 6.

Part 7, Sections 79, 83 and 86.

Part 8.

Part 10, Sections 92, 93, 94 and 95.

Health Resorts and Watering Places Act, 1921.

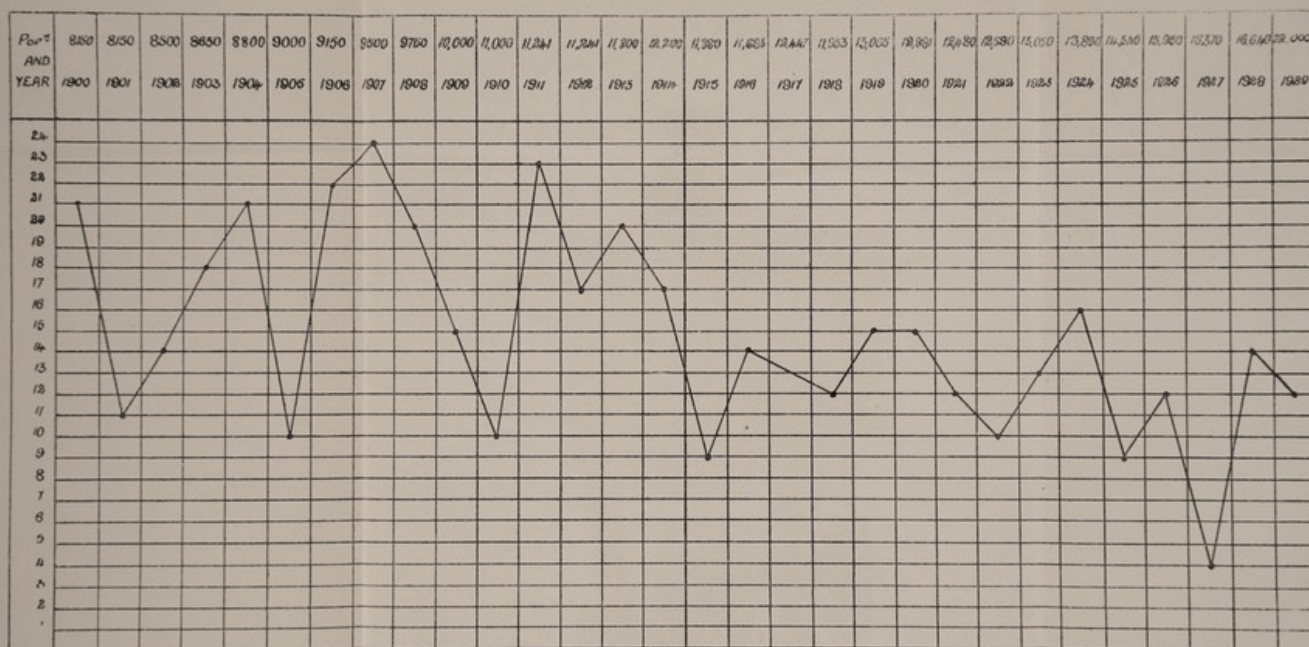
Public Health Act, 1925.

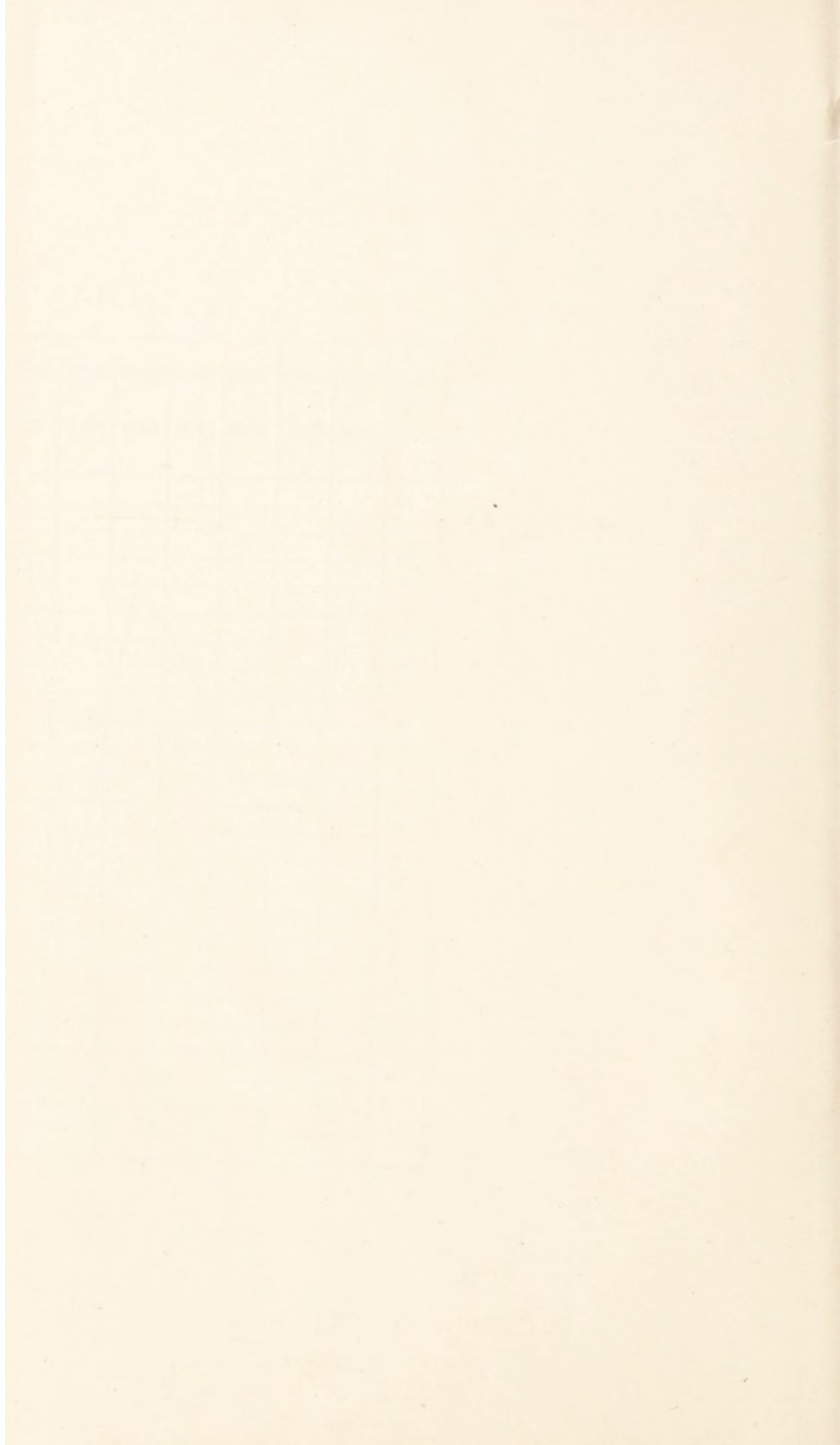
Part 2 (Streets and Buildings), Sections 15, 16, 17, 18, 19, 25, 26, 27, 28, 30, 31, 34 and 35.

Part 3 (Sanitary Provisions), Sections 38, 41, 42 and 43.



CHART SHOWING INFANT MORTALITY FOR YEARS 1900—1929.





Maternity and Child Welfare Centre.

THE Paignton Infant Welfare Centre is, as usual, a scene of activity on Tuesday afternoons, from 3 to 4 p.m.

All mothers and children under 5 years of age are welcome. The big room in which tea is served is for that hour a busy, happy place—"Toddlers" playing in one part; a table of work, showing model garments in another; Virol being sold elsewhere, while the Hon. Secretary greets each mother with a smile and enters names in her big register. While sitting round in friendly chat, mother and babies wait their turn to go into the weighing-room, and thence through to see the doctor. Each new baby is taken to the doctor's room, after weighing, and there advice is given re feeding, etc. A record is kept in each case, and the mother asked to bring baby back in a week, fortnight or month, as considered necessary.

If treatment is needed, the mother is advised to take baby to her own doctor, no treatment being given at the Centre.

During the past year, the Centre has been opened 44 times; 69 new babies have been brought up, who between them made 811 attendances.

The "toddlers," i.e., children over 1 year of age, made 1,253 attendances, seeing the doctor 126 times.

Expectant mothers are learning the value of ante-natal treatment. Thirty-eight came up for advice. Pelvic measurements were taken, and the urine tested. If any abnormality is noted, the patient is referred to her own doctor.

In the weighing-room, Nurses Stook, Beard and Treasure weigh the babies and children, entering the weight on a card, which the mother keeps to know the progress made. Miss Bishop, our Health Visitor, brings each mother in to see the doctor.

Our thanks are, as usual, due to our Hon. Secretary and her energetic Committee of voluntary helpers.

F. MURIEL MORRIS, O.B.E., M.D.

Medical Officer in Charge of Paignton Infant Welfare Centre.

MATERNITY AND CHILD WELFARE CENTRE. **ANNUAL REPORT FOR THE YEAR ENDING 1929.**

THE Centre was opened 44 times during the year, and at the end of that time there were 216 mothers' names on the Register, and the following attendances were made:—

Mothers ...	...	...	...	...	...	1567
Infants ...	...	...	...	...	...	811
Toddlers ...	...	...	...		...	1253

During the year 75 new mothers joined the Centre, and the expectant mothers made 61 attendances. There were 69 new babies brought to the Centre.

MILK GRANTS.

These were again given at the discretion of Dr. Morris and Miss Bishop to needy cases. ...

Dr. Morris often finds the time at her disposal far too short to see all the mothers who are waiting for her advice. During the year, Dr. Date and Miss Booker from the County Council, visited the Centre, and on one of his visits Dr. Date expressed his satisfaction at the progress being made, and he said there were quite as many mothers and children attending as could be efficiently dealt with on the one afternoon.

Miss Bishop is most conscientious and enthusiastic over her work, and is always willing to give to the mothers the benefit of her skilled knowledge.

Nurses Stook, Treasure and Beard are very faithful in their attendance. Miss Nicholson, the Assistant Secretary, is always willing to help in the absence of Nurses.

SOCIAL.

The stall of children's garments is a help to the mothers, who often are able to purchase for a small sum garments for their children, and the Secretary is grateful to those ladies who from time to time send parcels of children's garments. The usual Summer Outing took place in June, when a large party left the Parish Church Schools for a trip over the moors.

CHRISTMAS TEA.

This was agreed, by one and all, to have been the most successful function the Centre has ever had.

In conclusion, the Secrerary would like to thank all the members of the Sub-Committee for their faithful service during the year. In presenting this Report, all the workers at the Centre feel sure that there has never been better work done than during the past year. All mothers who came did so to receive help and advice over the upbringing of their children, and not just to spend a pleasant hour or so.

(Signed) **MAY STATHAM,**

January, 1930.

Hon. Secretary,

HEALTH VISITOR'S REPORT.**Centre Figures for Year 1929—**

Times Centre opened	...	...	...	...	...	44
Attendances—						
Mothers	...	...	...	...	...	1631
New babies	...	...	...	...	...	69
Expectant	...	...	...	...	...	61
Babies ...	...	...	...	...	...	811
Toddlers	...	...	...	...	...	1253

(Miss) A. D. BISHOP.

HEALTH EDUCATION.

The journal, "Better Health," is now published in the District, and distributed as widely as possible.

The following extracts are, with the kind permission of the Surveyor and Engineer, taken from his Annual Report to the Council; with my best thanks for them:—

STATISTICS.

Area of Paignton Urban District: acres	...	...	...	5,177
Mileage of Class I. Main Roads	...	...	...	6.58
Mileage of Class II. Main Roads	...	...	...	2.519
Mileage of Unclassified Main Roads	...	...	...	.503
Mileage of Classified District Roads	...	...	...	1.43
Mileage of Unclassified District Roads	...	...	...	43.12
Mileage of Private Streets	...	...	...	12.2
Total Road Mileage	...	...	...	66.352
Area of Parks and Pleasure Grounds	...	...	...	73.75 acres
Owned	...	...	...	70.75 acres
Leased	...	...	...	3 acres
Area of Allotments—				
Permanent	...	...	...	8.725 acres
Leased or temporarily appropriated	...	...	...	12.24 acres
TOTAL	...	...	...	20.965 acres

HOUSING.

The total number of dwellings erected in 1929 is 220, and this figure has only been twice exceeded, i.e., in 1926, 230; and 1927, 306.

In the year under review, 139 of the total of 220 houses have been erected by private enterprise, unassisted by subsidy grants. This is the highest figure ever recorded.

It will be noted that the four-roomed type of house accounts for 17.27 per cent. of the total, while the five-roomed type has a percentage figure of 49.09 per cent. These figures show that the smaller type of house was more in favour, and this fact may be attributed to the facilities offered to purchasers of these houses by the operation of the Small Dwellings Acquisition Act.

This Act enables the Council to make arrangements with Building Societies whereby the latter increase their advance on the property to 90 per cent. of the amount of the valuation. There has been a considerable increase in the number of applications for this additional advance, and it is hoped that the granting of this facility will result in an increase in the number of owner-occupiers of small properties.

HOUSING, Etc., ACT, 1923.

Housing Subsidies under this Scheme ceased to be payable after September, 1929.

Grants paid during the first nine months of the year numbered 68, 34 being of £80 each, and £50 grants being made in 34 instances.

CERTIFICATES OF COMPLETION.

Issued for Grants of £112 — 247	...	...	...	£27664
" " " 80 — 74	...	...	...	5920
" " " 75 — 65	...	...	...	4875
" " " 50 — 59	...	...	...	2950
Subsidies granted	...	445		£41,409
Deduct Grants returned: 7 at £112				
and 5 at £ 75	...	...	...	£1,159
				£40,250

Of this sum, £29150 will be returned to the Council by the Ministry of Health by means of Annual Grants spread over a period of 20 years. The balance of £11,100 is payable from local funds.

PLANS SUBMITTED TO COUNCIL, 1929

Month 1929	Houses.		Bungalows		Hotels.		Flats		Business Premises and Flats		Total Dwellings	
	Plans	Houses	Plans	Dwellings	Plans	Dwellings	Plans	Dwellings	Plans	Dwellings	Plans	Dwellings
January ...	10	179	3	8	1	1			1	1	13	187
February...	7	87	2	5							11	94
March ...	3	31									3	31
April ...	9	36	4	4							13	40
May ...	6	32	2	3					1	3	9	38
June ...	2	3	2	2					1	1	5	6
July ...			4	4							4	4
August ...	7	37	2	2					1	1	10	40
September	4	8	3	3			1	4			7	11
October ...	6	7	3	8							10	19
November	6	12	1	5							7	17
December	4	15	2	6							6	21
Totals ...	64	447	28	50	1	1	1	4	4	6	98	508
Year 1928.	99	335	24	33			7	19	10	16	140	403
Increase + or Decrease —	—35	+112	+4	+17	+1	+1	—6	—15	—6	—10	—42	+105

PLANS SUBMITTED TO COUNCIL, 1929.

Plans submitted to Council,				1929.		1928.	
DWELLINGS ONLY.				Plans	Dwell-ings	Plans	Dwell-ings
Total dwellings submitted	...	...	...	98	508	140	403
Total dwellings approved...	...	...	...	83	348	128	328
Disapproved	...	...	...	15	160	12	75
Subsequently re-submitted and approved				13	153	8	48
Total disapproved (dwellings)	...	...	...	2	7	4	27

Completed Dwellings.

WARD	3 rooms	4 rooms	5 rooms	6 rooms	7 rooms	8 rooms and over	Totals.
North	1	11	21	17	15	10	75
South	—	8	37	13	2	—	60
East	1	2	—	1	2	9	15
West	1	13	26	1	—	1	42
Central	—	4	24	—	—	—	28
Totals	3	38	108	32	19	20	220
Per-centage of Grand Total	1.37%	17.27%	49.09%	14.54%	8.64%	9.09%	

SEWERAGE.

Collaton Scheme.—A Sewage Disposal Works scheme for the village of Collaton was designed and constructed during the year, drains which originally discharged in a field being connected thereto, and other houses have since been provided with drains.

St. Michael's Road.—About 250ft. of the sewer in this road was found to be in a state of collapse, and was relaid with 12in. pipes.

Generally.—The exceptional rainfall at the end of November and beginning of December placed a severe tax on the sewerage scheme. The town was fortunate in the absence of prolonged flooding, and in this respect we were more fortunate than many of the towns in the vicinity.

Town Planning.—The Council's No. 1 Town Planning Scheme embraces 2,223.789 acres. The Preliminary Statement and Map No. 2 has not yet received the final approval of the Ministry of Health. Several conferences have taken place between the Council and interested owners and at the Ministry of Health.

The Council have given consideration to the area to be included in No. 2 Town Planning Area, and conferences are proceeding.

(Signed) **F. RALPH PENWILL**, M.L.M. Cy.E., P.A.S.I., M.R.San.I.
Engineer and Surveyor.

FACTORIES, WORKSHOPS AND WORKPLACES,**1.—INSPECTION OF FACTORIES, WORKSHOPS AND WORKPLACES, inspections made by Sanitary Inspectors.**

Premises. (1)	Number of		
	Inspections. (2)	Written Notices. (3)	Occupiers prosecuted. (4)
Factories (Including Factory Laundries)	6	0	0
Workshops (Including Workshop Laundries)	141	0	0
Workplaces (Other than Outworkers' premises)	5	0	0
TOTAL	152	0	0

2.—DEFECTS FOUND IN FACTORIES, WORKSHOPS AND WORKPLACES.

Particulars. (1)	Number of Defects.			Number of offences in respect to which Prosecutions were instituted. (5)
	Found. (2)	Remedied. (3)	Referred to H. M. Inspector. (4)	
NUISANCES UNDER THE PUBLIC HEALTH ACTS :—*				
Want of cleanliness			—	} Nil.
Want of ventilation	—	—	—	
Overcrowding	—	—	—	
Want of drainage of floors	—	—	—	
Other nuisances	1	1	—	
Sanitary accommodation :—				
Insufficient			—	} Nil.
Unsuitable or defective			—	
Not separate for sexes			—	
OFFENCES UNDER THE FACTORY AND WORKSHOP ACTS :—				
Illegal occupation of underground bakehouse (s.101)	—	—	—	
Other offences	—	—	—	
(Excluding offences relating to outwork and offences under the Sections mentioned in the Schedule to the Ministry of Health (Factories and Workshops Transfer of Powers) Order, 1921).				
Total	1	1	0	0

*Including those specified in Sections 2, 3, 7 and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

CAUSES OF DEATH DURING THE YEAR 1929.

	M.	F.
All causes	113	134
Whooping cough	1	1
Influenza	4	3
Encephalitis Lethargica	1	1
Tuberculosis, or respiratory system	5	5
Other tuberculous diseases	1	3
Cancer—malignant disease	10	18
Diabetes	1	2
Cerebral Hæmorrhage, etc.	7	11
Heart disease	24	29
Arterio-sclerosis	5	9
Bronchitis	5	3
Pneumonia (all forms)	3	7
Other respiratory diseases	1	3
Ulcer of stomach or duodenum	1	—
Appendicitis and typhlitis	2	1
Acute and chronic nephritis	5	3
Congenital debility and malformation, premature birth	7	2
Suicide	1	1
Other deaths from violence	4	3
Other defined cases	23	29
Causes ill-defined or unknown	2	—
Deaths of Infants under 1 year—		
Total	8	4
Illegitimate	—	2
Total births	101	96
Legitimate	95	89
Illegitimate	6	7

Matron's Report

THE ISOLATION HOSPITAL.

Total number of cases admitted, 38 :—Males, 17 ; Females, 21.

Disease—	PAIGNTON.	BRIXHAM.	DARTMOUTH.	KINGSBRIDGE.
Scarlet Fever ...	9	—	10	—
Diphtheria ...	3	1	8	5
Erysipelas ...	1	—	—	—
Septicæmia ...	—	1	—	—
TOTALS ...	13	2	18	5

Deaths, 2: Erypsielas 1, Septicæmia 1.

(Signed) **I. FREEMAN**, Matron.

The water supply has been sufficient and of the usual high quality. The Trunk Main was duplicated just in time, or last Summer there would have been a great shortage.

The Council have now decided on a definite policy as regards the Drainage of the District, and as soon as the necessary Preliminaries are gone through they will begin to put it into operation.

R. JULYAN GEORGE, M.D., M.S., D.P.H.,

Medical Officer of Health.

ANNUAL REPORT

OF

SANITARY INSPECTOR.

TO THE CHAIRMAN AND MEMBERS OF THE PAIGNTON URBAN
DISTRICT COUNCIL.

MR. CHAIRMAN AND GENTLEMEN,—

I herewith submit my Annual Report for the year ending 31st December, 1929.

Complaints.—During the year a number of complaints were received and dealt with. Upon investigation, several of these were found not to come under the Public Health or Housing Acts ; therefore they were outside my jurisdiction.

DRAINAGE.

Old Houses.—The drainage system of 130 houses was smoke-tested during the year, and of this number, 49 were found to be in a defective condition, and as a result, 37 were completely re-laid, and 12 were repaired. In all the foregoing cases the sanitary fittings also came under review, and where necessary were brought up to standard to comply with the Council's Byelaws.

In addition, several new Lavatories have been provided, also lavatory basins, sinks, etc., necessitating new drainage.

During the year I reported to the Council the very unsatisfactory position as regards the drainage of certain cottages at Collaton. Such cottages had for a number of years drained by a sewer on to the marsh. As a result, the Council decided to instal a Septic Tank system to drain such cottages, and also to construct the same of such a size to allow for the admission of a certain number of new houses in course of erection, and for a few existing cottages.

The Septic Tank system was duly installed by the Surveyor's Department, and is proving of great benefit to old and new properties.

New Houses.—During the year the drainage and sanitary fittings of 314 houses erected, or in course of erection, were tested and inspected. In this connection, 1142 visits were paid, and 534 tests applied.

Sewers.—The following new sewers, extensions to existing sewers, have been laid during the year :—

NEW SEWERS.	EXTENSIONS.
York Gardens.	Cedar Road.
Locarno Avenue.	Maidenway Lane.
Three Beeches.	Southfield Avenue.
Barnfield Road.	Elm Park Estate.
	Tweenaway Lane.
	Winsu Avenue.
	Oldway.

INFECTIOUS DISEASES AND DISINFECTION.

Visits were paid in connection with notification of Infectious Disease, and enquiries made as to possible source of infection.

Any sanitary defects found during such inspections have also been remedied.

Disinfection.—96 rooms have been disinfected for the following causes :—Scarlet Fever, Tuberculosis, Cancer, Chicken Pox, Measles.

Disinfection is always carried out after cases of Notifiable Infectious Disease, free of charge. Also in certain other diseases, such as Measles, Chicken Pox, Cancer, etc. In addition, clothing, etc., is dealt with at the Steam Disinfector at the Isolation Hospital.

The following Articles were disinfected during the year :—

ARTICLE.	No.
Mattresses	21
Pillows	44
Blankets	27
Bolsters	1
Eiderdowns	2
Feather Beds	3
Cushions	2
Sheets	9
Rugs	1
Miscellaneous	47

Several articles of bedding, clothing, etc., have been destroyed on request. Disinfectant and disinfectant soap are given away every Saturday morning from the Mill Yard Depot.

FOOD INSPECTION.

Food Premises.—Frequent visits have been paid to premises where food is prepared for sale.

Butchers, fishmongers, fruiterers, grocers, and all shops where food is exposed for sale, including fish and fruit stalls, have been kept under observation.

Several local butchers, also one or two from surrounding districts, hawk meat in Paignton.

Slaughterhouses.—There are four Slaughterhouses in the District in addition to farms and other places where pigs are killed.

No Public Slaughterhouse exists, and the question of providing one is still in abeyance.

I cannot too strongly impress upon the Council the need for such a Building in Paignton. The various slaughtering places are scattered, all over the District, and although every effort is made to inspect as many carcasses as possible, the provision of a central, modern, slaughtering place would greatly assist proper inspection. It is to be hoped, therefore, that the Council will give very early consideration to this important matter.

Meat Inspection.—The Notification of "intention to slaughter" as required by the Meat Regulations, have been duly received during the year, and as the result a considerable number of visits to the slaughterhouses and other places have been paid at all hours (including Sundays and Bank Holidays) for the purpose of inspecting carcasses.

2,349 visits have been paid to slaughterhouses, places where pigs are killed, and butchers' shops.

The marking of meat after inspection is not carried out in this District.

Unsound Food.—During the year the following food has been condemned and destroyed as unfit for human consumption.

				ENGLISH.			IMPORTED.		
				cwt.	qrs.	lbs.	cwt.	qrs.	lbs.
Beef	...	...	...	7	3	4	2	1	19½
Mutton	...	...	...	0	1	22	0	0	20
Pork	...	...	...	1	1	24			
Offal	...	...	...	5	0	17	1	1	6
				14	3	11	3	3	17½

OTHER FOODS.

13½lbs. Lobsters ; 4 tins of Prawns ; 6 tins Pears ; 2 tins Peaches ; 3 tins Apricots ; 3 tins Pineapple.

Nature of Diseases, or Condition—

MEAT.			OTHER FOODS.	
			ENGLISH.	IMPORTED.
Beef	...	Tuberculosis. Dropsy.	Bone Taint. Bruised.	Unsound.
Pork...	...	Tuberculosis. Pleurisy.		
Mutton	...	Unsound. Dropsy.		

BAKEHOUSES.

The number of Bakehouses on the Register is 12. Cleansing has been carried out at the stated times.

DAIRIES, COWSHEDS AND MILKSHOPS.

Under the Milk and Dairies Orders, 41 Retailers and Dairymen, and 27 Cowkeepers are registered.

Frequent visits are paid from time to time to all premises where milk is produced and dealt with, and efforts are made to see that every precaution is taken against contamination, in order to obtain a clean milk supply.

During the year, 11 samples of milk were taken for Bacteriological Analysis from farms.

Certain infringements of the Milk and Dairies Orders by Retailers of Milk (chiefly relative to bottling milk in the street instead of on registered premises) were noticed during the year, and a circular letter was sent to each Retailer, dealing with such matter.

The Milk Store of one Retailer was found to be kept in a very unsatisfactory condition, and as a result of representation, a different building is now used and conditions are more satisfactory.

Licenses have been granted to 5 Retailers to sell Certified Milk, none of which is bottled in the District.

FACTORIES AND WORKSHOPS.

A Register of Factories and Workshops is kept, and the following are the Trades or Businesses contained therein:—

Bakers	...	...	...	...	...	...	...	11
Basket Makers	...	...	...	...	...	...	...	2
Boat Builders	...	...	...	...	...	...	...	1
Boot Repairers	...	...	...	...	...	...	...	13
Bottling Works	...	...	...	...	...	...	...	1
Brick Works	...	...	...	...	...	...	...	3
Builders	...	...	...	...	...	...	...	20
Builders' Merchants	...	...	...	...	...	...	...	1
Coach Builders and Painters	...	...	...	...	...	...	...	2
Cider Factories	...	...	...	...	...	...	...	1
Dress Makers	...	...	...	...	...	...	...	6
Dry Cleaners	...	...	...	...	...	...	...	1
General	...	...	...	...	...	...	...	4
Ironmongers	...	...	...	...	...	...	...	2
Joiners	...	...	...	...	...	...	...	15
Laundries	...	...	...	...	...	...	...	7
Marine Engineers	...	...	...	...	...	...	...	1
Milliners	...	...	...	...	...	...	...	8
Mineral Water Works	...	...	...	...	...	...	...	2

Motor Repairers	...	...	...	...	...	...	23
Painters	...	...	...	...	...	...	2
Plumbers	...	...	...	...	...	...	3
Photographers	...	...	...	...	...	...	3
Printers	...	...	...	...	...	...	2
Quarries	...	...	...	...	...	...	4
Smiths	...	...	...	...	...	...	4
Stone Masons	...	...	...	...	...	...	2
Tailors	...	...	...	...	...	...	5
Umbrella Repairers	...	...	...	...	...	...	2
Upholsterers	...	...	...	...	...	...	5
TOTAL							156

All are inspected periodically, and any defects found are dealt with. Notices of infringement of the Act have been received from the Factory Inspector during the year, and received attention.

HOUSE REFUSE COLLECTION AND DISPOSAL.

All this work is now under my control, Refuse Disposal being added to my duties in May of this year.

Collection.—Mechanical transport is used for this work. During the year, owing to the unsatisfactory service due to constant break-downs of the Ford lorry engaged on this work, the Council decided to replace this lorry by purchasing an additional 30cwt. Thornycroft.

Three 30cwt. Thornycroft lorries are now in daily use for the collection of refuse, throughout the winter months. In the summer this is augmented by an additional lorry (30cwt. Morris).

The amount of refuse collected during the year amounted to approximately 4,534 tons.

Trade refuse is also collected by the Council, free of cost.

The majority of houses, etc., have proper dustbins. Arrangements are in force for the collectors to notify me immediately of the absence of a suitable receptacle, or where it is defective, and after investigation a request is at once sent to the owner for a dustbin to be supplied. By this prompt action, many nuisances which arise from the use of old boxes, tins, and improperly covered bins, are prevented.

As mentioned in previous Reports, I again appeal to householders to place, as far as possible, only dry refuse in the dustbins.

Disposal.—The method of disposal of Refuse Collection is by controlled tipping, and covering with a sufficient layer of earth, in accordance with the requirements of the Ministry of Health.

This work has been carried out at Goodrington Park, and the portion to be filled in with refuse is now nearing completion.

HOUSING AND PUBLIC HEALTH ACT.

A Tabular Statement, as required by the Ministry of Health, showing the number of inspections carried out, and action taken, etc., under the Housing and Public Health Acts, will be found on Page 17.

With reference to last year's Report on the subject of Closing Orders, the six houses therein referred to have been demolished, as forecasted. In one case three of them have been replaced by three modern cottages. built on the same site.

During the year, representation was made to the Council that one house in Winner Street was in such a state as to be unfit for human habitation, and the Council made a Closing Order. The premises are now used as a Store.

In the year under review, the Council erected 13 houses on the old Destructor site, now known as York Gardens. This number now brings the total houses erected by the Council to 257. In spite of this record, a large waiting list for Council houses still exists.

To further alleviate the position, the Council are negotiating for the purchase of land at Tweenaway, where it is proposed to erect more Council houses. If the Scheme in contemplation becomes an accomplished fact, it will very considerably ease the situation.

The number of houses inspected under the Housing and Public Health Acts totalled 327, and of this number 227 were found not to be in all respects fit for human habitation.

Included in the 327 inspected, are 107 houses inspected under the Housing Consolidation Regulations, 1925.

Of the 227 houses found not to be in all respects reasonably fit for human habitation, I have pleasure in stating that 184 were remedied, and the remaining 43 are in respect of Notices served at the end of the year.

It was only found necessary to serve 17 Statutory Notices during the year, all the rest of the work being carried out as a result of Preliminary Notice, or verbal intimation.

Some of the house-to-house inspections took place at Collaton, and are some of the cottages referred to under the "Drainage" heading as being connected to the new septic tank system, in addition a proper water supply has been provided inside each house, and also a water supply and flushing cistern to each W.C.

STAFF.

During the year, changes occurred in the Staff.

Mr. R. K. Lean, Assistant Sanitary Inspector, appointed in October, 1927, was successful in obtaining the appointment as Sanitary Inspector under the Bridgwater Town Council, and left in April, 1929.

Mr. C. G. Rice, of Plymouth, was appointed in May, 1929, as successor to Mr. Lean, and I am pleased to testify to the very satisfactory way in which he has carried out all duties entrusted to him.

Owing to the increase of work in the Department, it was found necessary to have clerical assistance, and in July, 1929, Mr. R. C. Stentiford was appointed as Clerk to the Department, and he has given entire satisfaction in the way he has carried out his duties.

Conclusion.—In concluding this Report, I should like to take the opportunity of conveying my heartiest thanks to the Chairman of the Public Health Committee. Also to the Members of the Council generally, for the support and consideration extended to me.

I also wish to thank my colleagues, who have at all times given me their cordial co-operation and assistance.

I am, Mr. Chairman and Gentlemen,

Your obedient servant,

FREDK. J. THICK, M.S.I.A., Etc.,

Chief Sanitary Inspector.

Meat and Foods Inspector.

SHORT SUMMARY.

Drains of New Houses or Buildings passed ...	...	220
Drains re-laid to old houses ...	...	37
Drains repaired to old houses ...	...	12
Drains cleared ...	...	17
Drain tests applied to new houses ...	...	534
Drain tests applied to old houses ...	...	130
New W.C.'s built ...	...	45
New W.C. pans fitted ...	...	63
Inspection chambers constructed ...	...	50
New soil pipes fixed ...	...	18
Soil pipes repaired ...	...	2
W.C.'s repaired ...	...	4
Rooms disinfected...	...	96
Windows repaired ...	...	7
Internal walls repaired ...	...	9
Roofs repaired ...	...	16
Stoves repaired ...	...	2
Floors repaired ...	...	10
Dustbins provided ...	...	90
Sinks, etc., provided ...	...	53
Waste pipes to sinks, etc., trapped ...	...	43
Coppers repaired ...	...	2
Flush cisterns repaired ...	...	7
Interceptors fixed ...	...	34

External walls repaired	6
External walls lime-washed	2
Contamination of drinking water cisterns prevented ...	9
Yards paved	12
Water supply taken indoors	12
Down pipes provided or repaired	5
Ceilings repaired	8
Flush cisterns provided	40
F.A.I.'s provided or repaired	34
Cesspools repaired	1
Dampness remedied	8
Vent shafts fixed	24
New wash-houses constructed	5
New shuting	8
Accumulations removed	4
Stalls cleaned	2
Visits to slaughterhouses, butchers' shops, etc. ...	2349
Unsound food condemned and destroyed—	
18cwt. 3qrs. $\frac{1}{2}$ lbs.	

Number of New Houses erected during the year.

(a) Total (including numbers given separately under (b)...	220
(b) With State assistance under the Housing Acts :—	
(1) By the Local Authority	13
(2) By other Bodies or persons	207

1.—Unfit Dwelling Houses.

Inspection—

(1) Total number of Dwelling Houses inspected for housing defects (under Public Health or Housing Acts)...	327
(2) Number of Dwelling Houses inspected and recorded under the Housing Consolidated Regulations, 1925 ...	107
(3) Number of Dwelling Houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	1
(4) Number of Dwelling Houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation...	227

2.—Remedy of Defects without service of formal Notices.

Number of defective Dwelling Houses rendered fit in consequence of informal action by the Local Authority, or their Officers	184
---	-----

3.—Action under Statutory Powers.

A.—Proceedings under Section 3 of the Housing Act, 1925.

(1) Number of Dwelling Houses in respect of which Notices were served requiring repairs	8
(2) Number of Dwelling Houses which were rendered fit after service of formal Notices :—	
(a) By Owners	8
(b) By the Local Authority, in default of Owners	0
(3) Number of Dwelling Houses in respect of which Closing Orders became operative in pursuance of declarations by Owners of intention to close	0

B.—Proceedings under Public Health Acts :—

(1) Number of Dwelling Houses in respect of which Notices were served requiring defects to be remedied	9
(2) Number of Dwelling Houses in which defects were remedied after service of formal Notices :—	
(a) By Owners	9
(b) By Local Authority, in default of Owners ...	0

C.—Proceedings under Sections 11, 14, and 15 of the Housing Act, 1925 :—

(1) Number of representations made with the view to the making of Closing Orders	1
(2) Number of Dwelling Houses in respect of which Closing Orders were made	1
(3) Number of Dwelling Houses, in respect of which Closing Orders were determined, the Dwelling Houses have been rendered fit	0
(4) Number of Dwelling Houses in respect of which Demolition Orders were made	0
(5) Number of Dwelling Houses demolished in pursuance of Demolition Orders	0

Meteorologist's Report

TOWN HALL, PAIGNTON,

March, 1930.

TO THE CHAIRMAN AND GENTLEMEN OF THE PAIGNTON URBAN
DISTRICT COUNCIL.

GENTLEMEN,—

I have pleasure in submitting to you my Annual Report of the climatological conditions in Paignton for the year 1929.

Observations are taken twice daily throughout the year, and compilations of records are herewith submitted.

Paignton is situated in North Latitude $50^{\circ} 26'$ and West Longitude $3^{\circ} 34'$. The town faces East, and many parts of the town are situated on the highest elevations overlooking Torbay.

The Meteorological Station is situated in Queen's Park and at the Main Shelter on the Esplanade, and is maintained by the Urban District Council and under the Air Ministry. The Thermometers are contained in a Stevenson Screen, 4 feet from the ground. The Sun Maximum Thermometer (Black Bulb in Vacuo) is on a stand close by. The Grass Minimum Thermometer is placed out nightly.

A Barograph has been added to the Station at the Main Shelter and is much appreciated by the general public.

The Rain Gauge is an approved Meteorological Standard pattern with an 8-inch top, with the rim 12 inches from the ground. A self-recording Rain Gauge is now installed for rain storms.

The Sunshine Recorder is a Campbell-Stokes pattern with glass sphere, approved by the Meteorological Office, and is placed at the top of the tower of the Pavilion, 30 feet from the ground, to the latitude, etc., of the Station.

An Anemometer is also fixed on the same tower. The Barometer is a Fortin with brass scales, and Mercury Reservoir, and is so fixed that its zero coincides with the fiducial point in the Reservoir. The readings are taken in millibars and inches.

Observations are taken twice daily throughout the year, and the weather is reported daily to the Meteorological Office, London, and appears in the daily Weather Report issued by that Office, and their other publications—weekly, monthly and yearly, and in the London and Provincial newspapers, and the local Press. The daily records are shown in the Main Shelter and Winner Street, and judging by the great number of people who observe them and take notes, it is very evident that the publication of the Records is appreciated.

The Station was inspected by C. H. Ockenden, Esq., Meteorological Office Inspector, Air Ministry, on the 15th May, 1929, and all the Instruments tested and certified.

Appended are the statistics of the "means" and "averages" of the Barometer, Thermometers, Rainfall, Sunshine, Humidity, Wind Direction Forces, and other phases of the weather.

I remain, Gentlemen,

Your obedient servant,

C. BELLINGER, F.R.Met. Soc.,

Town Meteorologist.

PAIGNTON CLIMATE, 1929.

The climatic conditions during the year were generally fine and dry for the first nine months, and very wet the last three months. Cool for the first half, accountable by the frequency of Easterly wind, especially in January and February, and warmer second half, particularly the last three months. Up to the end of September there was a deficiency of average rainfall to the extent of 7.50 inches, but the abnormal rainfall of October, November and December turned this deficiency into an excess over average of 6.28 inches. The outstanding features of the conditions which prevailed was the excess amount of sunshine in eleven out of the twelve months, only February showing a deficiency. March was particularly sunny and dry. September was real summerlike, sunny, dry, warm, recording temperatures of 80.0°F. , but in contrast to the fine conditions enjoyed came the turbulent months of October, November and December, these months were characterised with severe and violent gales, particularly in November and December, the wind blowing hurricane force at times, which wrought terrible destruction in the neighbourhood, trees being felled like ninepins. The weather was insistent, gales upon gales. Not for years has there been so many ships seeking shelter in Torbay, and with the gales came torrential rains, falls one 1 to 2 inches being quite common. Much flooding occurred in the district, and with it, too, there was thunder and lightning, and thunderbolts were seen to have fallen in the neighbourhood. The lightning was a very frequent and beautiful display. It is noteworthy that in the midst of the cyclonic weather in December came an anti-cyclone with the highest pressure for the year, 30.775 inches, giving fairly fine weather for a few days, but followed very shortly by violent disturbances, pressure falling almost vertically $1\frac{3}{4}$ inches, the tempest and wetness being continued to the last but one day of the year. The last day passed out peaceful and sunny, with slight shower.

The Sunshine record of 1869.5 hours, mean daily 5.12 hours, is very good, and the fourth highest recorded since 1911. It is 84 hours more than last year, and 159.1 hours above the average for 19 years. February was the only month that recorded below the average to the extent of 35.1 hours. The sunniest month was July, with 258.8 hours, and the dullest February with 40.1 hours. The day of most hours of sunshine was May 20th, with 14.7 hours.

March, April and June to September were sunny months. The number of days on which bright sunshine was recorded was 309, against 306 last year.

The Rainfall record of 43.90 inches, daily mean 0.12 inches, is 2.76 inches above last year's total, and considerably above the average for 19 years, which is 37.62 inches, an excess of 6.28 inches. The record is misleading, because the year was not a wet one; in fact, to the end of September the total rainfall recorded was 16.35 inches, or 7.50 inches below the average. The month of October recorded an excess fall of 1.02 inches above the average. 3.63 inches of its total fall was during the night-time, so that its wetness was not so noticeable, but November, with 13.10 inches, and December, with 9.49 inches, turned a deficiency into an excess for the year. The rainfall in November was severe and heavy—1.35 inches and over was recorded on four days; 1.14 inches and over on three days; the mean daily amount being 0.43 inches. Rainfall in December was heavy, but not quite so severe as in November, but rain fell on more days. The month opened with ten consecutive rainy days, and five following with lesser rains. From the 16th to the 19th there was no rain, and then followed rainy days to the end of the month. The greatest fall was one record of 1.13 inches, and five days between .70 to .98 inches. The number of days upon which measurable rain fell in the two months was 45, and with "trace" only, six.

The wettest month of the year was November, 13.10 inches. The driest months were March, 0.25 inches, and September, 0.26 inches. The greatest fall in 24 hours occurred on October 5th, 1.81 inches. In only five months was there an excess of rainfall over the average. Measurable rainfall was recorded on 145 days, compared with 194 last year. The record is 53 days below the average for 19 years.

Temperature.—The mean temperature for the year is 50.7°F., being 1.4° lower than last year's mean, and 0.3° below the average for 19 years. Although the difference is small, it is affected by the lower means of the months of January, February, March, April and May, and June changeable, the lower mean being accounted for by the Easterly current prevailing. September was the warmest month of the year, and recorded the highest temperature, 80.0°F on the 9th and 12 inst. The mean temperature of the month was 61.8°F, being 3.9° above the average for 19 years. July was warm after the 10th, and August was a warm month, with fairly consistent temperatures. The coldest month was January, with a mean temperature of 38.7°F, which is 4.5° below the average. The lowest temperature was recorded in this month, 23.0°F, on the 17th and 27th inst.

Atmospheric Pressure.—The mean pressure (corrected to sea level) for the year is 29.999 inches, the same being 0.065 inches above last year's mean. The highest corrected pressure was 30.775 inches on 17th December, and the lowest 28.828 inches on 6th December, giving an extreme range of pressure of 1.947 inches, which is greater than last year's extreme. The months of November and December showed the most severe irregularities in pressure. October was moderately so. High and consistent pressures were manifest in January, March, April (until the last week) and September, and fairly high in July and August.

The prevailing winds for the year were from a Westerly quarter. Out of 732 observations, 394 were observed from this quarter, and 270 from an Easterly quarter. The mean force of the wind is 3.5, against 3.8 last year. During the greater period of the nine months to September, the wind force was on the moderate side. The tabulated records are for the force of wind at observation only, and do not include the gales which have taken place at other times; these total 42. Twenty-nine of these occurred in October, November and December. These were the months of cyclones. Gales were recorded on October 5th, 6th 7th from the S.E., S.W., W.S.W., with heavy rains, and on the 24th from S.W. and W.N.W., with heavy rains. November 10th—12th, gales severe and strong from the N.W. and W.S.W., heavy rains; 15th, from S.E., heavy rains; 18th—19th, S.W., with heavy rains; 22nd—23rd, from S.S.E. and W.S.W., with heavy rain, thunderstorms with it, and very bright lightning all night; 24th—25th, from S.W., heavy rain.

December was rather worse for cyclonic conditions. On the 2nd, gale from S.W.; 4th and 5th, severe gale, with deluge of rain; 6th to 9th, gales, violent, with rain, hail, thunder and lightning, the gales from W., N.W. and S.W.; gales on the 23rd from S.E.; 24th, S. and W., with heavy rain; 25th, W., with hail shower, and on 28th—29th gales from W. and W.N.W.

Lowest temperature on the grass, 17.0°F. , in January. Number of ground frosts, i.e., 30.4° or below, 50, compared with 47 last year. Not severe or lasting. Hail, 13 times, compared to 14 last year. Snow and sleet, 9 times, compared with 3 last year. Not severe or lasting. Thunder and lightning, 17 times, compared with 6 last year. Lighting was seen a good many nights during the stormy periods. Cloud amount, 5.5, compared with 6.1 last year. Gales recorded, 46, compared with 21 last year. Mean of Relative Humidity, 75 per cent., being 1 per cent. less than last year. The temperature of the sea is taken throughout the year, and other records are given in the tabulated list of records.

BRIEF MONTHLY SUMMARY.

January.—Cold. Deficiency of precipitation. Frequency of N. and E. wind. Quiet. High pressure. Sunshine above average. Temperature below average.

February.—Cold. Wind E. and S.E. Sunshine below average. Rain little below average. Temperature below average.

March.—Fine, sunny, dry. Pressure anti-cyclonic. Wind E. to S.E. and S. Moderate. Moderate temperature. Very wide range of temperature, slightly below average.

April.—Fine, dry. Temperature on average. Pressure high. Wind N., N.E. to S.E. Moderate or fresh.

May.—First half cool and unsettled. Second half drier and warmer. Sunshine about an average. Rainfall above average. Temperature a little below the average. Wind S.E., S.W. to N.W.

June.—First half partly unsettled. Rain conditions and cool, but warmer and drier second half. Pressure anti-cyclonic. Sunshine and Rainfall above average. Temperature a little below. Wind E., W.S.W. to N.W.

July.—Unsettled first week. Fine after. Pressure anti-cyclonic. Brilliant sunshine. Higher temperature. Dry Sunshine above the average. Rainfall below average. Temperature on average. Wind S.E., W.S.W. and W.

August.—Generally fine and warm throughout the month, after being a little unsettled at first. Pressure high. Sunshine and temperature about the average. Rainfall below the average. Winds West to N.W.

September.—Fine, dry, warm, sunny. Pressure anti-cyclonic throughout. Very high temperatures to 80.0°. Sunshine and temperature above the average. Rainfall below the average. Wind N.E. to E.S.E., light or moderate. Rain came on night of 29th. Dry month.

October.—Unsettled, windy frequent heavy rains. Gales at times. Pressure high from 10th to 15th, the only dry period. Mild first half, colder second half. Sunshine and rainfall above the average. Temperature about the average. Winds N.W. to S.W.

November.—Very unsettled, with insistent cyclonic winds and heavy rainstorms. Vigorous disturbances. Wettest month on record. Generally mild, but cold spell in middle of month, and very mild last ten days. Sunshine above the average, and rainfall much above the average, also temperature. Wind S.W. to N.W.

December.—Very unsettled. Violent gales. Excessive wet. Mild. Sunshine, rainfall and temperature above the average. Outstanding features of this and last month is the persistence of severe gales and heavy falls of rain, and hail sometimes, were monotonously frequent. The only redeeming feature of the month was a change to anti-cyclonic conditions between the 16th and 19th, when pressure became at its highest for the year. Sunny and dry weather was experienced, temporarily, unsettled conditions soon returned. Wind was S.W. to W.N.W. The last day of the year was fine and quiet.

C. BELLINGER,

Town Meteorologist to Paignton U.D.C.

BAROMETRIC PRESSURE—1929.

MAIN SHELTER.

Taken at 9 a.m. and 5 p.m. G.M.T. (inches)

Reduced to 32° F. and Sea Level.

Corrected for Temperature of attached Thermometer.

Month,	Mean of Month.	Highest Reading.	Date.	Lowest Reading.	Date.	Extreme Range of Pressure.
	Inches.	Inches.		Inches.		Inches.
January ...	30.249	30.762	8th	29.823	31st	0.939
February...	30.010	30.713	28th	29.494	15th	1.219
March ...	30.306	30.758	1st	29.995	21st	0.763
April ...	29.992	30.332	18th	29.410	29th	0.922
May ...	29.960	30.223	10th	29.142	6th	1.081
June ...	30.019	30.502	21st	29.423	6th	1.079
July ...	30.039	30.383	14th	29.463	31st	0.920
August ...	30.013	30.292	19th	29.585	1st	0.707
September	30.108	30.428	25th	29.791	20th	0.637
October ...	29.862	30.407	12th	29.152	6th	1.255
November	29.709	30.482	4th	29.144	16th	1.338
December	29.730	30.775	17th	28.828	6th	1.947
Year ...	29.999	30.775	17th Dec.	28.828	6th Dec.	1.947
1928 ...	29.934	30.555		29.021		1.534

SUNSHINE RECORDS, 1929.

QUEEN'S PARK OBSERVATORY.

Authenticated by the Air Ministry.

Months.	Monthly total hours and tenths	"Mean" daily amount.	Difference from mean average.	Day of most hours of Sunshine. Date, hours and tenths.	Number of day on which sunshine was recorded.	Number of days giving amount above a given number of hours according to the season.
	H. T.			H. T. Date.	No. of days. 7 with	Hours and tenths. 4.0 and over.
January ...	59 8	1.93	+ 3.0	7 0 20th	19	4.0
February ...	40 1	1.43	- 35.1	8 5 10th	17	4.0
March ...	185 5	5.98	+ 56.0	10 9 29th	26	5.0
April ...	186 9	6.23	+ 6.6	12 2 19th	26	7.0
May ...	218 6	7.05	+ 1.5	14 7 20th	30	8.0
June ...	250 2	8.34	+ 17.2	14 6 10th	27	8.0
July ...	258 8	8.34	+ 38.0	14 3 14th	29	8.0
August ...	198 1	6.39	+ 2.6	12 8 17th	29	8.0
September ...	205 7	6.85	+ 48.6	11 3 7th&8th	30	7.0
October ...	117 0	3.77	+ 3.9	8 8 27th	28	5.0
November...	82 1	2.73	+ 6.3	8 7 3rd	23	4.0
December ...	66 7	2.15	+ 10.5	6 8 19th	25	4.0
Totals ...	1869 5		+ 159.1	14 7 20th May	309	
Mean of Daily Average	5 12					

306

1928 ... 4 87

MEAN SHADE TEMPERATURES—1929

For 24 hours ending 9 a.m. Taken at 9 a.m. and 5 p.m. daily G.M.T. in Queen's Park.

Month.	Maximum mean	Minimum mean	Max. plus Min. mean.	Daily range.	Highest max.	Date.	Lowest min.	Date.
January	°F. 42.9	°F. 34.5	°F. 38.7	°F. 8.4	°F. 53.0	29th	°F. 23.0	17th & 27th
February	42.8	36.1	39.4	6.7	56.0	1st	24.0	17th
March	50.9	36.2	43.5	14.7	64.0	30th	27.0	7th
April	53.6	40.4	47.0	13.2	64.0	18th	29.0	7th
May	59.3	46.0	52.6	13.3	68.0	28th	36.0	9th
June	64.2	50.2	57.2	14.0	72.0	22nd	44.0	11th and 18th
July	68.8	54.9	61.8	13.9	78.0	20th	46.0	9th
August	67.8	54.3	61.0	13.5	73.0	11th	46.3	19th
September	69.8	53.8	61.8	16.0	80.0	9th and 12th	43.0	26th
October	58.8	45.9	52.3	12.9	66.0	12th	37.0	25th and 31st
November	53.7	42.5	48.1	11.2	59.0	8th	28.0	18th
December	51.0	40.6	45.8	10.4	57.0	2nd	27.0	17th
Year	56.9	44.6	50.7	12.3	80.0 Sept.	9th and 12th	23.0 Jan.	17th and 27th
1928	58.2	46.0	52.1	12.2	85.0 July	22nd	22.0 March	20th

RAINFALL 1929.

QUEEN'S PARK OBSERVATORY.

Recorded twice daily at 9 a.m. and 5 p.m.

Month.	Monthly Totals in inches.	Daily mean	Difference from mean average, (19 years)	Greatest fall in 24 hours and date.	0.01 to 0.03 inch Days	0.04 inch and more Days.	Number of days on which only a trace was recorded.	Total Number of days on which measurable rain fell
January ...	2.57	0.08	-1.48	0.84 on 22nd	2	7	7	9
February ...	3.42	0.12	-0.18	0.83 " 1st	4	12	2	16
March ...	0.25	trace	-2.73	0.22 " 21st	2	1	2	3
April ...	0.84	0.02	-1.29	0.25 " 29th	2	6	6	8
May ...	3.20	0.11	+1.26	0.86 " 5th	3	11	4	14
June ...	2.49	0.08	+0.81	0.85 " 12th	1	9	4	10
July ...	1.43	0.04	-0.70	0.37 " 28th	3	8	3	11
August ...	1.89	0.06	-0.88	0.73 " 3rd	6	5	8	11
September ...	0.26	trace	-2.23	0.21 " 30th	0	2	0	2
October ...	4.96	0.16	+1.02	1.81 " 5th	4	12	3	16
November ...	13.10	0.43	+8.80	1.60 " 27th	2	17	5	19
December ...	9.49	0.30	+3.88	1.13 " 4th	3	23	1	26
Totals	43.90		+6.28		145		45	145
Mean	0.12							
1928	41.14				194		52	194

PAIGNTON—1929.

QUEEN'S PARK OBSERVATORY.

At 9 a.m. and 5 p.m. daily.

Month.	HUMIDITY.			CLOUD.	Grass Temperatures.		
	Dry Bulb 9 a.m. and 5 p.m. Mean °F	Wet Bulb 9 a.m. and 5 p.m. Mean °F	Relative Humidity, Mean per cent.		Mean	Lowest	No of days at or below 30.4° Frost
January ...	38.9	36.9	80	7.5	31.2	17.0	11
February ...	39.4	37.5	81	7.7	33.4	21.5	10
March ...	46.7	41.5	74	3.9	32.0	23.0	11
April ...	48.8	44.2	67	5.4	36.9	23.0	4
May ...	55.6	50.9	70	4.9	43.0	31.5	0
June ...	60.2	55.0	70	4.9	47.2	41.0	0
July ...	64.8	58.9	69	4.5	52.1	43.0	0
August ...	63.6	58.6	73	5.7	51.4	41.3	0
September ...	65.1	60.0	74	3.8	50.2	41.0	0
October ...	53.6	50.3	78	5.6	42.2	31.0	0
November ...	48.2	45.9	82	6.3	38.7	22.4	8
December ...	45.9	43.4	81	6.1	36.8	20.8	6
Means ...	52.5	48.6	75	5.5	41.2	17.0	50
1928 ...	53.8	50.1	76	6.1	41.8	17.0	47
						Jan.	
						Mar.	

PAIGNTON—1929.

OBSERVATIONS OF CLOUD AMOUNTS 0 to 10.

Taken at 9 a.m. and 5 p.m.

Cloud forms, higher and lower, and the direction they are moving are also observed, and is a very important observation. Cloud amounts are of rapid change. "0"; clear sky; "10"; overcast.

Month.	0	1 to 3	4 to 6	7 to 9	10	Number of Observations.
January	5	7	5	10	35	62
February	3	6	4	12	31	56
March	25	10	6	5	16	62
April	10	11	12	12	15	60
May	12	18	4	11	17	62
June	12	16	6	13	13	60
July	9	21	9	15	8	62
August	2	23	6	16	15	62
September	22	13	6	8	11	60
October	9	13	13	10	17	62
November	4	15	9	7	25	60
December	4	17	8	10	23	62
TOTALS	117	170	88	129	226	730
1928	...	81	151	135	270	732

1929—PAIGNTON.

OBSERVATIONS OF WIND DIRECTIONS AT 9 A.M. AND 5 P.M. DAILY.

Month.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	N.N.E.	E.N.E.	E.S.E.	S.S.E.	S.S.W.	W.S.W.	W.N.W.	N.N.W.	Calm.	Total Observations.
January ...	4	6	10	3	3	3	8	3	2	7	5	1	3	2	1	—	1	62
February ...	3	2	8	12	2	2	5	—	—	3	6	8	—	3	1	1	—	56
March ...	1	2	16	6	6	2	6	2	—	4	6	1	1	3	1	2	3	62
April ...	7	5	1	10	2	1	3	3	4	5	5	1	—	3	3	7	—	60
May ...	1	1	3	12	3	6	4	6	—	4	4	1	2	6	6	3	—	62
June ...	2	2	10	4	—	4	9	7	2	—	2	2	—	7	4	5	—	60
July ...	3	2	1	12	4	5	7	3	2	1	3	1	1	11	4	2	—	62
August ...	5	1	1	5	—	5	13	10	—	—	1	3	1	5	9	3	—	62
September ...	2	7	5	3	1	2	3	4	0	6	10	0	0	5	3	7	2	60
October ...	2	2	1	—	—	7	11	10	2	1	—	1	—	6	15	4	—	62
November ...	2	3	0	2	3	9	9	10	—	—	—	3	3	8	5	2	1	60
December ...	—	2	—	1	3	9	14	6	—	1	—	1	2	10	13	—	—	62
Total	32	35	56	70	27	55	92	64	12	32	42	23	13	69	65	56	7	730
1928	29	24	41	50	20	60	97	77	18	31	32	38	19	90	53	47	6	732

PAIGNTON—1929.

OBSERVATIONS OF WIND FORCES.

at 9 a.m. and 5 p.m.

Force 8 or more indicates gale, or strong gale; 4—7 moderate to high wind; 1—3 light to gentle breeze.

Month.	Calm.	Force 1-3.	Force 4-7.	Force 8 or more.	Total Observations.	Gale force observations at other hours.	Mean force.	Prevailing Winds.
January ...	1	33	28	—	62	1	3.1	E., E.N.E., W.
February ...	—	17	39	—	56	4	4.2	E., E.S.E., S.E., S.S.E.
March ...	3	30	29	—	62	—	3.2	E., E.S.E., S.E., S., W.
April ...	—	18	42	—	60	—	3.8	N.E., E.N.E., E.S.E., S.E., N.N.W., N.E.
May ...	—	22	40	—	62	4	3.9	S.E., S.W., W.S.W., W.N.W., N.W.
June ...	—	24	36	—	60	1	3.7	E., W.S.W., W., N.W.
July ...	—	33	29	—	62	1	3.4	S.E., W.S.W., W.
August ...	—	23	39	—	62	1	3.6	W., N.W., W.N.W.
September ...	2	42	16	—	60	1	2.4	N.E., E.N.E., E.S.E., N.N.W.
October ...	—	35	26	1	62	4	3.2	W.N.W., W., N.W., S.W.
November ...	1	23	35	1	60	11	3.9	S.W., W.S.W., W., N.W.
December ...	—	19	41	2	62	14	4.1	S.W., W.S.W., W., W.N.W.
Totals ...	7	319	400	4	730	42	Mean of means 3.5	S.E., W.S.W., W., W.N.W., N.W.
1928 ...	6	279	439	8	732	13	3.8	W., W.S.W., N.W., S.W., W.N.W.

PAIGNTON—1929

OBSERVATIONS OF FROST, SNOW, OR SLEET, HAIL,
THUNDER AND LIGHTNING, FOG, AND STATE OF VISIBILITY

Month	Days of Frost.	Hail.	Snow and Sleet.	Thunder and Lightning	Fog.	Range of Visibility.	Duration of Fog.
January ...	11	-	3	-	5	Good.	Short, sea mist
February ...	10	2	3	-	3	Good.	Short, sea mist
March ...	11	-	-	-	2	Good.	Short, sea mist
April ...	4	2	1	-	-	Very good	
May ...	-	2	-	1	-	Very good indeed	
June ...	-	-	-	1	-	Very good	
July ...	-	-	-	-	-	Excellent.	
August ...	-	-	-	1	2	Excellent	Short, sea mist
September ...	-	-	-	-	2	Very good	Short, sea mist
October ...	-	-	-	1	-	Good	
November ...	8	3	-	1	2	Good	Short, sea mist
December ...	6	4	2	2	1	Good	Short, sea mist
Totals ...	50	13	9	7	17		
1928 ...	47	14	3	9	6		

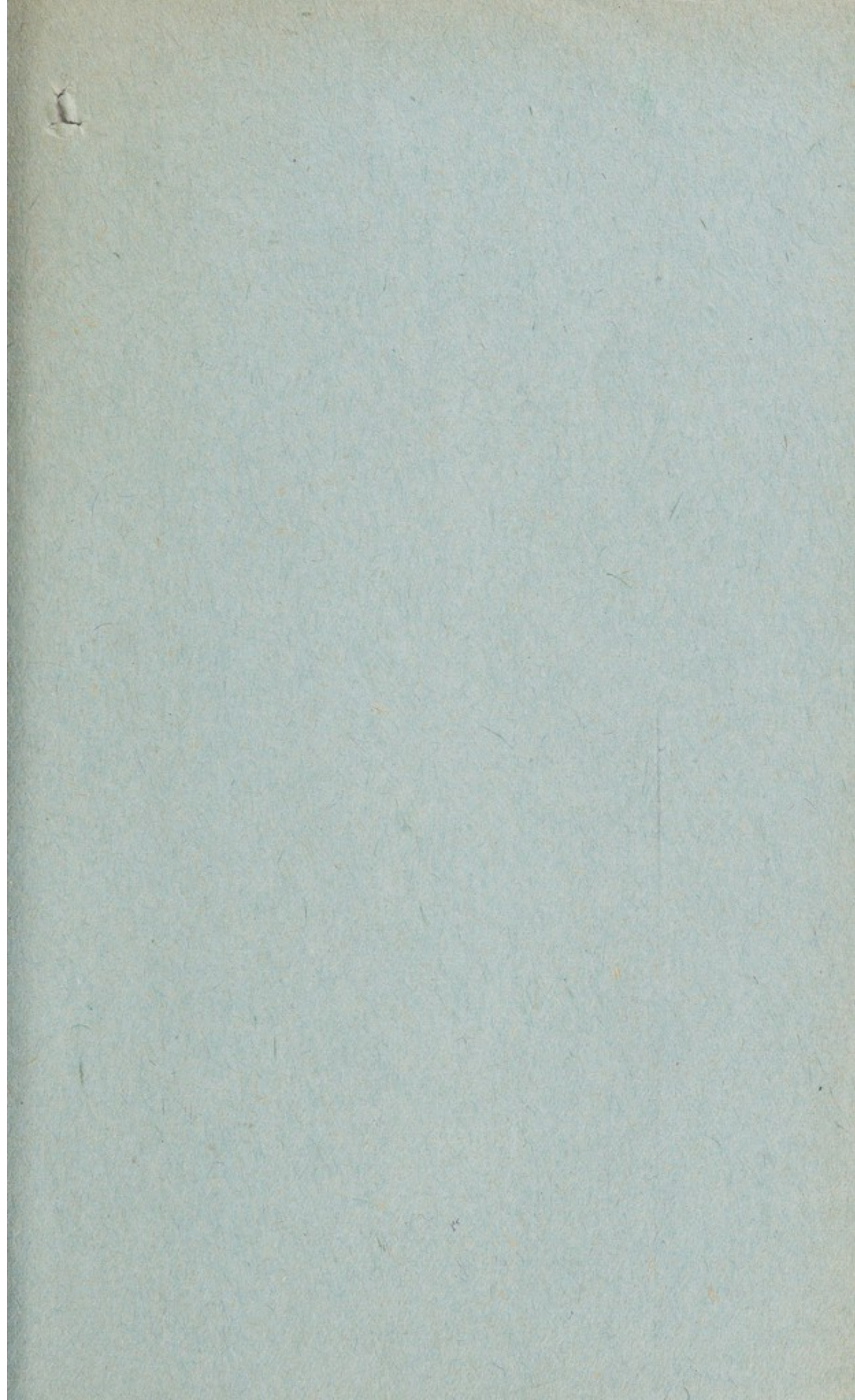
PAIGNTON.

MONTHLY MEANS FOR NINETEEN YEARS—1911-29 inclusive.

Month.	Temperature of Air.				Humidity per cent.	Hours of Sunshine Hours and Tenths.	Cloud amount 0-10	Rain.		Temperature of air (dry bulb).
	Maximum	Minimum	Mean daily range.	Mean.				Days it fell.	Inches	
January	48.5	38.0	10.5	43.2	83	56.8	6.8	21	4.05	44.0
February	48.4	38.3	10.1	43.2	82	75.2	6.8	17	3.60	44.7
March	50.1	37.9	12.2	44.0	77	129.5	5.9	18	2.98	46.0
April	54.2	40.7	13.5	47.4	72	180.3	5.5	15	2.13	49.9
May	60.6	46.8	13.8	53.7	73	217.1	4.9	14	1.94	56.2
June	65.1	50.6	14.5	57.8	70	233.0	5.1	11	1.68	60.1
July	68.5	54.6	13.9	61.5	72	220.8	5.5	14	2.13	61.1
August	67.6	54.3	13.3	60.9	74	195.5	5.7	16	2.77	63.3
September	64.8	51.0	13.8	57.9	76	157.1	5.6	13	2.49	59.6
October	57.7	46.5	11.2	52.1	79	113.1	5.9	19	3.94	54.0
November	51.5	40.1	11.4	45.8	81	75.8	6.1	19	4.30	46.6
December	48.8	39.4	9.4	44.1	83	56.2	6.3	2	5.61	44.4
Mean of Mean's Year	57.1	44.9	12.3	51.0	76	1710.4	5.8	198	37.62	52.7

METEOROLOGICAL ABSTRACT, PAIGNTON—1929.

	1928.	1929.
Highest Shade Temperature	 85.0°F.	 80.0°F.
Lowest Shade Temperature	 22.0°F.	 23.0°F.
Mean Maximum Temperature	 58.2°F.	 56.9°F.
Mean Minimum Temperature	 46.0°F.	 44.6°F.
Mean Temperature	 52.1°F.	 50.7°F.
Mean Range of Temperature	 12.2°F.	 12.3°F.
Mean Dry Bulb Temperature	 53.8°F.	 52.6°F.
Total Rainfall	 41.14 inches	 43.90 inches
Hours of Bright Sunshine	 1785.5 hours	 1869.5 hours
Sunny Days	 306	 309
Mean Humidity (percentage of possible 100)	 76 per cent.	 75 per cent.
Prevailing Winds	 W., W.S.W., N.W., S.W., W.N.W.	 S.E., W.S.W., W., W.N.W., N.W.



Tab. D²B² 20/6/30