[Report 1938] / Medical Officer of Health, Paignton U.D.C.

Contributors

Paignton (England). Urban District Council.

Publication/Creation

1938

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1938

REPORT

ON THE

PUBLIC HEALTH

OF THE

Urban District of Paignton

1938

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Public Health Department

Medical Officer of Health and Medical Superintendent of Isolation Hospital

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

Chief Sanitary Inspector and Inspector of Meat and other Foods:

† ‡ FREDK. J. THICK, F.S.I.A.

Additional Sanitary Inspector:

† ‡ S. H. BONE, M.S.I.A.

Assistant Sanitary Inspector:

‡ T. B. CHAFFE, M.S.I.A.

Clerk:

R. AUTHERS

Matron—Isolation Hospital:

MISS I. FREEMAN

* Part Time.

‡ Whole Time.

† Salary contributed by Exchequer Grants.

BIRTH-RATES, DEATH-RATES, ANALYSIS OF MORTALITY, MATERNAL DEATH-RATES, AND CASE-RATES FOR CERTAIN INFECTIOUS DISEASES IN THE YEAR 1938

England and Wales, London, 126 Great Towns, and 148 Smaller Towns. (Provisional Figures based on Weekly and Quarterly Returns).

	England and Wales.	126 County Boro's. and Great Towns including London.	148 Smaller Towns (Resident Populations 25,000 to 50,000 at 1931 Census)	London Administrative County.	PAIGNTON.
	RATES PER 1,000 POPULATION.				
BIRTHS—					
Live	15. 1	15. 0	15. 4	13.4	11.59
Still	0.60	0.65	0.60	0.48	0.37
DEATHS—					
All Causes	11. 6	11. 7	11. 0	11. 4	14.1
Typhoid and Paratyphoid Fevers ...	0.00	0.00	0.00	0.00	0.00
Smallpox...	0.00	—	0.00	——	——
Measles	0.04	0.05	0.03	0.06	0.05
Scarlet Fever	0.01	0.01	0.01	0.01	Nil
Whooping Cough	0.03	0.03	0.02	0.03	Nil
Diphtheria	0.07	0.07	0.06	0.05	Nil
Influenza	0.11	0.10	0.11	0.06	0.27
NOTIFICATIONS—					
Smallpox	0.00	0.00	0.00	—	—
Scarlet Fever	2.41	2.60	2.58	2.05	1.96
Diphtheria	1.58	1.85	1.53	1.90	0.87
Enteric Fever	0.03	0.03	0.04	0.05	0.00
Erysipelas	0.40	0.46	0.39	0.46	0.14
Pneumonia	1.10	1.28	0.98	0.98	0.73
	RATES PER 1,000 LIVE BIRTHS.				
Deaths under 1 year of age	53	57	51	57	59.1
Deaths from Diarrhœa and Enteritis under 2 years of age	5. 5	7.8	3.6	13.1	7.87
MATERNAL MORTALITY—					
Puerperal Sepsis	0.89	Not	available		—
Others	2.19				
Total	3.08				
	RATES PER 1,000 TOTAL BIRTHS (i.e., Live and Still).				
MATERNAL MORTALITY—					
Puerperal Sepsis	0.86	Not	available		Nil
Others	2.11				
Total	2.97				
NOTIFICATIONS—					
Puerperal Fever ... ... / Puerperal Pyrexia	14.42	18.08	12.51	3.53 / 15.46	3.82

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Medical Officer of Health's Annual Report for 1938.

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

GENTLEMEN,—

I have the honour to submit my Report for 1938.

GENER L STATISTICS.

1—

Area (acres)	5,177
Population—Census 1931 (April)	18,405
Registrar-General's estimated resident population 1937	21,400
Registrar-General's estimated resident population 1938	21,910
Number of inhabited houses 1937, 6,979 ; 1938 ...	7,246
Rateable Value, 31st March, 1939	£241,301
Estimated sum represented by Penny Rate—1938/39 ...	£930

2.—EXTRACTS FROM VITAL STATISTICS FOR THE YEAR.

	Total.	M.	F.
Live Births	254	137	117
Legitimate	239	129	110
Illegitimate	15	8	7
Still Births	8	4	4
Legitimate	7	4	3
Illegitimate	1	0	1
Birth Rate per 1,000 estimated resident population			11.59
Rate per 1,000 total (Live and Still births) ...			11.95
	Total.	M.	F.
Deaths	309	137	172
Death rate per 1,000 estimated resident population			14.1
Deaths from diseases and accidents of pregnancy and child-birth—			
From Sepsis			Nil.
From other causes			Nil.
Death Rate of Infants under 1 year of age—			
All Infants per 1,000 live births			59.1
Legitimate Infants per 1,000 legitimate live births			58.5
Illegitimate Infants per 1,000 illegitimate live births			66.6
Deaths from Measles (all ages)			1
Deaths from Whooping Cough (all ages) ...			0
Deaths from Diarrhœa (under 2 years of age) ...			2

DISEASES other than Tuberculosis NOTIFIED DURING THE YEAR

Disease.	Total Cases Notified.	Cases admitted to Paignton Hospital.	Total Deaths
Scarlet Fever	42	26	–
Pneumonia	16	–	–
Puerperal Pyrexia	1	–	–
Erysipelas	3	–	–
Diphtheria	19	8	1
Dysentery	5	–	–

TUBERCULOSIS—NEW CASES AND MORTALITY DURING 1938.

Age Periods.	New Cases.				Deaths.			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M.	F.	M.	F.	M.	F.	M.	F.
0—1	–	–	–	–	–	–	–	–
2—5	–	–	1	–	–	–	–	–
6—10	–	–	–	–	–	–	–	–
11—15	–	–	–	1	–	–	–	–
16—20	–	2	1	1	–	–	1	–
21—25	2	1	–	–	–	1	–	–
26—35	4	2	–	–	2	–	–	–
36—45	3	4	–	–	1	–	–	–
46—55	1	–	–	–	4	1	–	–
56—65	3	4	–	–	–	1	1	–
66 upwards ...	–	–	–	1	–	1	–	–
TOTALS ...	13	13	2	3	7	4	2	–

CASES OF INFECTIOUS DISEASES NOTIFIED 1929—1938

SHEET No. 1.

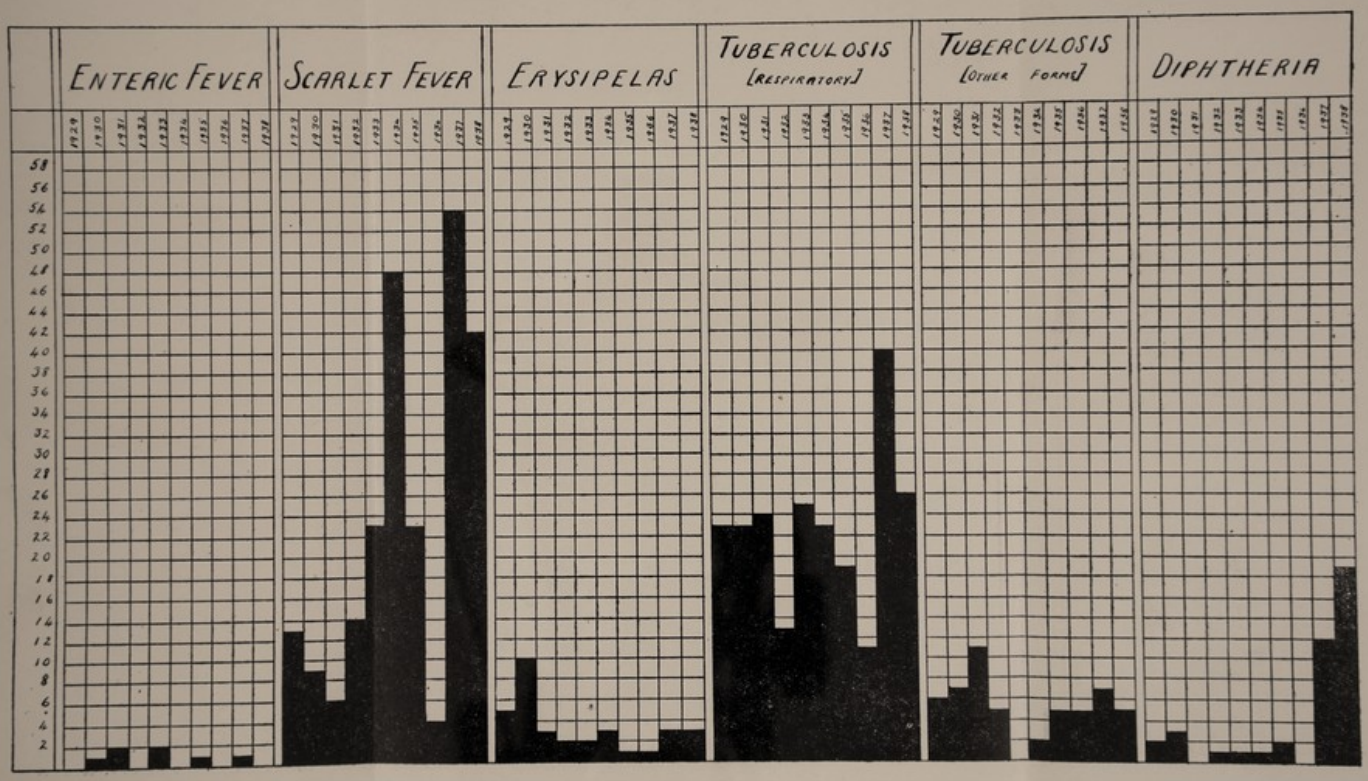


TABLE SHOWING CANCER DEATHS PER 1,000 POPULATION—from 1928 to 1938

Year.	Population.	Total Deaths.	Cancer Deaths.	Ratio per 1000
1928	16,640	217	31	1.86
1929	16,930	247	28	1.66
1930	16,930	251	30	1.09
1931	17,730	257	37	1.77
1932	18,450	259	40	1.16
1933	19,370	240	39	2.01
1934	20,050	265	35	1.75
1935	20,550	272	49	2.38
1936	20,850	284	37	1.77
1937	21,400	336	48	2.24
1938	21,910	309	34	1.55

HOSPITALS

A. (1) **Fever.**—Cases of Infectious Disease other than Smallpox are sent to the Isolation Hospital at King's Ash, Paignton. This Hospital, with its trained Staff, is entirely under the control of the Local Authority. Suitable cases are also received, on payment, from the Local Authorities of Brixham Urban; Dartmouth Borough and 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 Whitecliff Hospital (Torquay) or to Hawkmoor Sanatorium (Bovey Tracey).

Maternity.—No special Hospital is maintained by the Local Authority for Maternity Cases.

There is one General Hospital within the Urban District, which also takes in cases from outside the District. The Local Authority have, however, no voice in its management.

This Hospital was founded in 1890, extended in 1929 and 1933. At present there are 58 beds, which include 5 Private Wards, 3 Private Maternity Wards, 5 General Maternity Ward beds, and 8 Cots in the Maternity Wards.

During the year under review there were 820 In-Patients (188 males, 375 females, and 257 children under 12 years).

Nine hundred and four Out-Patients were treated (4,452 attendances).

The average stay of each In-Patient was 16.54 days.

In the special Departments :—

Ear, Nose and Throat	182 Patients	received	537	treatments.
Ophthalmic	116	,,	368	,,
Massage	221	,,	2970	,,
X-Ray Examinations ...	326 (464 Films developed).			

The cost of carrying out the work of the Hospital during the last year was approximately £5,341.

LABORATORY FACILITIES

Pathological specimens, swabs, samples of milk, water, foodstuffs, etc., are sent to the County Laboratory, at Exeter, and to Dr, J. Hugoe Matthews, "Almorah," Totnes Road, Paignton, Hon. Pathologist to the Paignton Isolation Hospital.

AMBULANCE FACILITIES

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

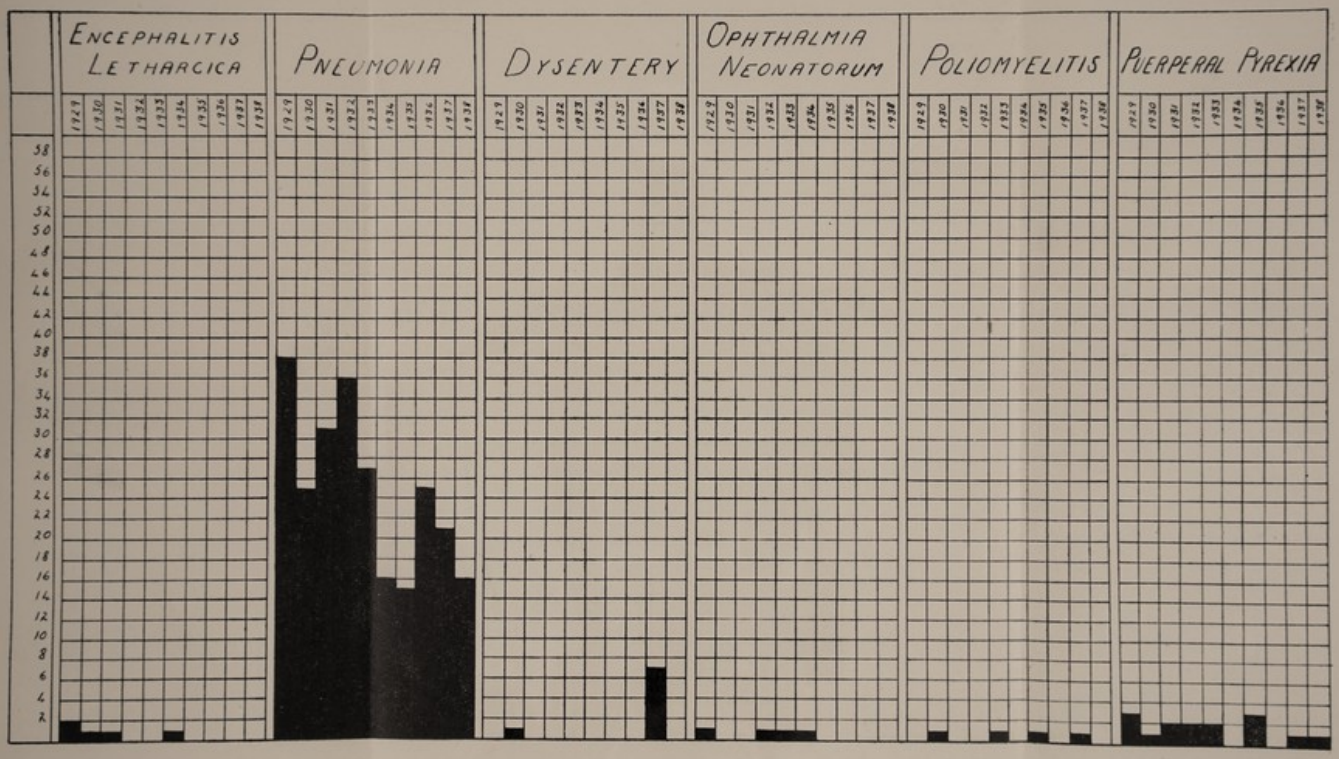
(b) **Non-Infectious and Accident Cases.**—For this work there are two Ambulances kept—a 24 h.p. Bedford Ambulance (purchased in 1935) and a Morris Ambulance.

These Ambulances are ordered out for practically all cases by Doctors or the Police, and when on service are usually accompanied by three or four Members of the Brigade and Members of the Nursing Division, when necessary.

During 1938, 35 accident cases were attended by Members of the St. John Ambulance Brigade and removed to Hospital, etc. 301 other cases were moved in the Ambulances to Hospitals, Nursing Homes, Poor Law Institutions, etc. Of these, 15 were carried in the Morris Ambulance (which was used by the Police for Mortuary and similar cases) and 321 were carried in the Bedford. Two hundred and thirteen cases received First Aid attention from Members of the Brigade and over 36 football injuries were dealt with.

CASES OF INFECTIOUS DISEASES NOTIFIED 1929—1938

SHEET No. 2



CLINIC AND TREATMENT CENTRES

Maternity and Child Welfare.—The Maternity and Child Welfare Centre is at the Congregational Schoolrooms, Dartmouth Road, Paignton. It is held every Monday and Tuesday afternoon from 2.30 p.m. to 4.30 p.m., for consultation and advice, the latter being given by Dr. F. Muriel Morris, M.D., who is the Medical Officer in charge of the Centre.

School Clinic.—No. 18, Curledge Street, Paignton—Board Room, County Council.

Tuberculosis.—There is no Centre in the District.

Midwife.—The work is carried on at present by Nurse G. I. Oldfield, of 16, Seaway Gardens, Paignton.

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 Pyrexia may apply to the Medical Staff of the Torbay Hospital, Torquay.

MIDWIFERY REPORT for year ending 31st December, 1938

Midwifery cases	47
Maternity cases	14
Midwifery visits	848
Maternity visits	227
Ante-Natal visits	336
Child Welfare visits	35
Ante-Natal Clinic visits	34

G. I. OLDFIELD.

PAIGNTON INFANT WELFARE CENTRE AND ANTE-NATAL CLINIC

THIS Centre held 52 sessions during the past year. It was found that the numbers of mothers and children attending the Centre was increasing so that it was impossible to do the work satisfactorily on one afternoon. The weighing-room was crowded, and the number of babies who wished to see the Doctor made it difficult to devote the necessary time to each consultation; therefore, at the end of October the Devon County Council gave permission for two afternoons a week to be devoted to Infant Welfare, so now the Centre is opening Mondays and Tuesdays from 2.30 p.m. to 4.30 p.m. at the Congregational Church Schools in Dartmouth Road. All mothers with children under 5 years old can attend.

During the year 183 mothers, 148 babies, and 89 toddlers came to the Centre. The mothers made 3,111 attendances, the babies 1,825, and the toddlers 1,881 attendances. I saw 618 babies in consultation, and 294 toddlers, making in all 912 examinations.

PAIGNTON ANTE-NATAL CENTRE.

This Centre continues to be much used. Forty-five sessions were held, and 99 new mothers attended, and 9 came up for further examination whose names were on the register last year. These expectant mothers made 318 attendances, each being examined and tested at every visit. This Ante-Natal Centre is now held every Thursday afternoon from 2.30 p.m. to 4.30 p.m., at the Congregational Church Schools in Dartmouth Road.

Only expectant mothers who are to be attended by Midwives in their confinements come, as the Doctors who book their own Patients naturally wish to do their own ante-natal examinations. Each Patient booked by the Midwife chooses her own Doctor to be sent for, should the occasion arise.

DIPHTHERIA IMMUNISATION.

During the year 1938, 32 of the children attending the Paignton Infant Welfare Centre were immunised against Diphtheria. The Paignton Council gave permission for this to be done, as early in the year, a few cases of diphtheria had occurred. Up to six months of age the child is comparatively immune, but the most vulnerable time is from six months to five years, so I hope more will take advantage of this Clinic.

Many thanks are due to Mrs. Statham, our Hon. Secretary, and her band of voluntary helpers. These ladies come regularly and devote their time to the Centre, greatly helping in the work. Cups of tea and biscuits are sold to the mothers and model garments shown them, also Virol, Adexolin and other infant foods are sold at reduced prices to the mothers.

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

Medical Officer to the Paignton Infant Welfare and Ante-Natal Centre.

CHILD WELFARE CENTRE

Report for the year ending December 31st, 1938.

At the end of 1938 there were the following numbers on the books :—

Mothers	340
Infants	148
Toddlers	261

and 183 New Mothers joined the Centre. And the following attendances were made :—

Mothers	3111
Infants	1825
Toddlers	1881

The Centre was open 46 weeks, but from October 25th two sessions of the Centre a week were held, Dr. Morris finding it impossible to deal adequately with the large numbers of Mothers who bring their children to her for advice. And no matter how busy she is, Dr. Morris will always give careful attention to each child brought to her.

Miss Bishop, the Health Visitor, always greets the mothers with a smile, and is so kind and sympathetic in her dealings with them that even the most timid Mothers soon feel at home.

WEIGHING-ROOM.

This is always a busy and noisy hive of activity, and special thanks are due to the voluntary helpers who come so faithfully week by week—Mesdames Winsor, James, Williams and King, and Nurse Oldfield.

In the large Hall the other Members of the Sub-Committee are busy marking the Register, selling Foods and dispensing Teas.

WORK STALL.

The Work Stall, under the supervision of Mrs. Staines and Mrs. Andrews, still does good work, and the large number of Maternity Outfits sold prove that the Mothers much appreciate this Branch of the work.

SOCIAL.

Early in the Summer the usual Outing was held, this year the Party proceeding first to Buckfast, where an hour was spent in the Abbey. Then on to Princetown for the excellent tea which was provided at Lord's Café. The homeward journey across the Moors was delightful, and all those who went considered it one of the most enjoyable Outings ever arranged by the Centre.

CHRISTMAS TEA.

On December 21st the Annual Christmas Tea was held in the Public Hall (by kind permission of the Council), the growth of the Centre during the last few years making it essential to have more accommodation for this event.

Mr. Spanton, Chairman of the Council, again showed by his presence his great interest in the work of the Centre, and the few kindly words that he spoke to the Mothers were much appreciated by all.

Mr. Hartley, Mr. Thick and the Rev. P. L. C. Price, were present and were a great help in entertaining the Mothers.

Before the Party dispersed, Dr. Muriel Morris distributed the gifts from the Christmas Tree, and on leaving each child received a bag of sweets, an orange and a balloon.

The members of the Sub-Committee wish to place on record the kindness of the Co-operative Society in lending the crockery free of all cost ; Mr. A. Staines for preparing the balloons ; Messrs. Woolworth for donation of a part of the Toys for the Xmas Tree ; Messrs. Parnell for the loan of the Xmas Tree, and Messrs. Maison Victoria for the gift of some sweets.

Once again the Secretary wishes to express her grateful appreciation to the Assistant Secretary, the Treasurer, and all the members of the Sub-Committee for their faithful attendance and willing co-operation in all matters that would benefit the Centre.

MAY STATHAM,

Hon. Secretary, Maternity & Child Welfare Centre.

January, 1939.

HEALTH VISITOR'S REPORT

Welfare Centre.

Centre opened	52 times
New Mothers	183
Visits paid	3111
New Babies	148
Visits paid	1825
New Toddlers	89
Visits paid	1881

Ante-Natal Clinic.

Centre opened	45 times
108 Expectant Mothers made ...	319 attendances

(Miss) A. D. BISHOP.

VACCINATION OFFICER'S REPORT

Births registered	247
Vaccinated	50
Exempted	134
Insusceptible	3
Postponed	2
Left District	3
Died unvaccinated	11
Not yet dealt with	44

F. REVELL, Vaccination Officer.

LEGISLATION IN FORCE

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

Infectious Diseases (Prevention) Act, 1890.

Private Street Works Act, 1892.

Paignton Improvement Act, 1898.

Paignton Urban District Water Act, 1900.

Public Health Act (Amendment) Act, 1907 :—

Part 1.
Part 2, Sections 17, 18, 20, 22, 24, 25, 26, 27, 28, 29, 32 and 33.
Part 3, Sections 24, 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.

Paignton Urban District Council Act, 1911.

Rats and Mice (Destruction) Act, 1919.—Delegation of powers of the Devon County Council under this Act to Paignton Urban District Council.

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.

Paignton Urban District Council Act, 1926.

Slaughter of Animals Act, 1933:

Shops Act, 1934.

Public Health Act, 1936.

Housing Act, 1936.

Factories Act, 1937.

WATER SUPPLY

Several samples were taken during the year, and all proved satisfactory.

The following are Reports on samples of water taken :—

(a) Chemical and Bacteriological Reports on Moorland Water ; and

(b) Chemical and Bacteriological Reports on Local Supply

(a)—MOORLAND SUPPLY : CHEMICAL REPORT.

(Results expressed as parts per 100,000).

Hardness, as Calcium Carbonate—	
Temporary, 1.0 ; Permanent, 2.8 ; Total	3.8
Chlorides, as Chlorine	1.3
Ammonia, free and saline, as nitrogen	0.0004
Ammonia, albuminoid, as nitrogen	0.0036
Nitrates, as nitrogen	0.008
Nitrites, as nitrogen	Nil
Oxygen (absorbed 3 hours at 37°C)	0.073
Metals—Lead, copper, zinc	Absent

REMARKS :—Sample clear and free from sediment.

MOORLAND SUPPLY : BACTERIOLOGICAL REPORT.

Total Organisms growing on agar (2 days at 37°C) ...	0 per c.c.
,, ,, ,, ,, (3 days at 20°C) ...	34 per c.c.
B.Coli present in ———. Absent in	100 ml.
Probable number coli-ærogenes organisms per 100 c.c.	Nil

CONCLUSIONS :—This sample is of a high degree of organic and bacterial purity.

(b)—LOCAL SUPPLY : CHEMICAL REPORT.

(Results expressed as parts per 100,000).

Hardness, as Calcium Carbonate—	
Temporary, 13.2 ; Permanent, 10.4 ; Total	23.6
Chlorides, as Chlorine	2.3
Ammonia, free and saline, as nitrogen	0.001
Ammonia, albuminoid, as nitrogen	0.0028
Nitrates, as nitrogen	0.036
Nitrites, as nitrogen	Nil
Oxygen (absorbed 3 hours at 37°C)	0.033
Metals—Lead, Copper, Zinc	Absent

REMARKS :—Sample clear and free from sediment.

LOCAL SUPPLY : BACTERIOLOGICAL REPORT.

Total Organisms growing on agar (2 days at 37°C) ...	2	per c.c.
,, ,, ,, ,, (3 days at 20°C) ...	40	per c.c.
B.Coli present in ———. Absent in	100	ml.
Probable number of coli-ærogenes organisms per 100 c.c.	Nil.	

CONCLUSIONS :—This sample is of a satisfactory degree of organic and bacterial purity.

SWIMMING BATHS AND POOLS

(a) **Publicly-owned Pools.**—There are no Public Baths or Pools in the District.

(b) **Privately-owned Pools.**—There are two Swimming Pools in the District, one at the Torbay Country Club, Paignton, which is used by Members of the Club only, and one at the South Devon Holiday Camp, Paignton. Samples have been taken from each during the year.

The following is a copy of Development Statistics (Housing and New Buildings, Estate Development) issued by the Council's Surveyor, Mr. F. Ralph Penwill, F.S.I., etc., to whom my best thanks are due :—

WARDS AND THEIR DEVELOPMENT STATISTICS

The West Ward for the year 1938 retains the lead as to development figures, followed by North, South, and Central, and East, in order stated :—

NORTH WARD.

With 86 dwellings completed, the North Ward has shared in the total development of the District to the extent of 32.2 per cent., as compared with 35.2 per cent. in 1937.

Of the dwellings erected, 36 were of 5 rooms or more, while the remaining 50 had 3 or 4 rooms.

The Estate development of the Shorton Valley area provided for 22 houses, while continued activity is recorded on the Edenvale Estate, with a figure of 16 dwellings erected.

The North Ward was on December 31st, 1938, holding the premier place in the number of houses under construction (39).

SOUTH WARD.

A contribution of 33 houses to the total for the year. This Ward maintains a regular and constant progress.

Development has again been marked in the Goodrington area 20 dwellings having been erected during 1938.

Considerable progress has been made with the erection of the Church of St. George, and the Waterside Hotel, works which will be completed early in the New Year (1939) and these buildings, together with the Business and Shop premises erected within Three Beaches Estates, present an attractive development to the locality.

EAST WARD.

Development in this Ward has been confined almost entirely to the extension of hotels, boarding-houses, additional accommodation being required to satisfy the increased demand from the public taking their holidays at Paignton.

Only one house was completed in this Ward during 1938.

WEST WARD.

The Ward continues to show rapid and increasing rate of development, and with 130 completed dwellings the West Ward holds the premier place for the 1938 development of the five Wards.

Dwellings of three rooms accounted for the greater part of the development, no less accounting for 80.5 per cent. of the total.

The expansion of the Ailescombe Estate gave 57 dwellings, which compares favourably with 56 in the year 1937.

Berry Drive gave 13 dwellings and St. Mary's Park Estate 11 dwellings.

The steady activity of the Great Parks Estate and the proposed development in Foxhole Valley should ensure satisfactory progress in 1939.

CENTRAL WARD.

With the erection of only eight dwellings, indications that the Ward is becoming fully developed are evident.

Only six new houses were in course of erection at the end of the year.

Value of Dwellings erected.

An approximate estimate of the value of Dwellings only erected in 1938 would be £125,000.

Building Society's Guarantee Scheme.

The Scheme as administered by the Council, and now in its ninth year of operation, has outlasted for the present its usefulness. No

properties were registered or Valuations made in 1938, and the 1937 total (252 properties registered and Valuations made since the inception of the Scheme) remain the same.

Full particulars as to the operation of the Scheme can be obtained on application, and every assistance will be readily given.

Housing.

The Council has not pursued any Housing programme during 1938, and it is not anticipated that the Council will embark on any Housing Schemes, while private enterprise within the District is so capably filling the demand for small and compact properties at their present low value figures.

NEW STREETS

New Street construction in 1938 may be summarised as followe :—

Street.	Widths in Feet. 36′	30′	24′	Totals. Feet Lengths
Barton Avenue	900′			900′
Berry Drive			600′	600′
Broadsands Bend ...		700′		700′
Carlton Drive			250′	250′
Southview Road ...			460′	460′
Westhill Road (Extn.) ...		350′		350′
Winsu Avenue (Extn.) ...	100′			100′
Totals	1000′	1050′	1310′	3360′

Equals : .63 miles.

DISTRIBUTION OF HOUSES IN WARDS, 1938

Year.	Wards— North.	South.	East.	West.	Central.	Totals
December, 1928 ...	1351	1162	694	709	555	4471
,, 1930 ...	1498	1240	717	789	614	4858
,, 1931 ...	1589	1280	728	844	648	5089
,, 1931 ...	1656	1313	733	1104	683	5389
,, 1933 ...	1758	1343	747	1099	717	5664
,, 1934 ...	1869	1374	750	1251	775	6019
,, 1935 ...	2006	1410	758	1338	807	6319
,, 1936 ...	2122	1440	760	1488	839	6649
,, 1937 ...	2240	1466	761	1666	851	6984
,, 1938 ...	2326	1499	762	1805	859	7251

PLANS SUBMITTED TO THE COUNCIL, 1938

Dwellings only.	1933. Plans.	1933. Dwellings.	1937. Plans.	1937. Dwellings.
Total Plans submitted ...	87	329	116	412
Total Plans approved ...	83	223	107	398
Disapproved	4	106	7	14
Subsequently amended, re-submitted and approved	3	105	2	8
Total Plans disapproved ...	1	1	5	6
All Buildings.				
Total Plans (including dwellings) ...	226	477	254	571
Total Plans approved ...	209	358	239	546
Disapproved	17	119	15	25
Subsequently amended, re-submitted and approved	12	114	6	15
Total disapproved ... ... (All Buildngs)	5	5	9	10

BUILDINGS ERECTED WITHIN THE DISTRICT, 1908—1938.

Year.	Dwellings erected.	Year.	Dwellings. erected.	Year.	Dwellings erected
1908	62	1917	—	1927	306
1909	46	1918	—	1928	188
1910	69	1919	3	1929*	220
1911	79	1920*	22	1930	167
1912	92	1921	127	1931*	231
1913	94	1922*	91	1932*	300
1914	68	1923	116	1933	275
1915	35	1924*	166	1934*	355
1916	—	1925	215	1935	300
		1926	230	1936*	330
				1937*	335
				1938	267

Note.—Dwellings erected in years indicated thus * include houses erected by the Paignton Urban District Council under the Housing Acts.

DWELLINGS IN COURSE OF ERECTION on 31st DECEMBER, 1938

Type.	North.	South.	East.	West.	Central.	Total
Houses	13	9	—	7	3	32
Bungalows ...	22	5	—	21	3	51
Shops and Flats	—	—	—	—	—	—
Flats	4	—	—	—	—	4
Other Works ...	—	1	—	—	—	1
Totals ...	39	15	—	28	6	88

SUMMARY OF COMPLETED HOUSES. 1938

NORTH WARD.

Streets.	3 rooms	4 rooms	5 rooms	6 rooms	7 rooms	Tl.
1—All Hallows Road ...	1		1			2
2—Barcombe Heights ...					1	1
3—Blatchcombe Road ...		1				1
4—Carlton Drive	10					10
5—Cecil Road					1	1
6—Cecelia Road	1	1				2
7—Cedar Road						—
8—Duchy Drive		1				1
9—Eden Grove						—
10—Eden Vale Road ...	17					17
11—Graham Road	1	5				6
12—King's Avenue				2		2
13—Kingshurst Drive ...			8			8
14—Maidenway Road ...		1				1
15—Marldon Road		1	1			2
16—Marine Drive			1			1
17—Pines Road	1		2			3
18—Polsham Road, Lower			4			4
19—Rhodanthe Road ...	1					1
20—Shorton Road				1		1
21—Shorton Valley Road ...	1	6	4			11
22—Southfield Avenue ...		1	1	1		3
23—Southview Road ...			1			1
24—Westhill Avenue ...			2			2
25—Westhill Road				2		2
26—Wilbarn Road				1		1
27—Winsu Avenue			1	1		2
	33	17	26	8	2	86

SOUTH WARD.

Streets.	3 rooms	4 rooms	5 rooms	6 rooms	7 rooms	Tl.
1—Batson Gardens ...			1			1
2—Brixham Road	1					1
3—Broadlands Road ...			4			4
4—Clennon Summit ...		1				1
5—Dartmouth Road ...	4	1	1	2		8
6—Derrell Road			2			2
7—Hayes Road			3			3
8—Hookhills Grove ...		1	2			3
9—Horseshoe Bend ...			3			3
10—Knapp Park Road ...			2			2
11—Oyster Bend			2			2
12—Saltern Road			1			1
13—Waddeton Lane ...			1			1
14—Waterside Road			1			1
	5	3	23	2		33

EAST WARD.

Streets.	3 rooms	4 rooms	5 rooms	6 rooms	7 rooms	Tl.
1—Lower Polsham Road ...		1				1

WEST WARD.

Streets.	3 rooms	4 rooms	5 rooms	6 room	7 rooms	Tl.
1—Ailescombe Road ...	7					7
2—Barton Avenue	57	1	2			60
3—Barton Crescent ...	3					3
4—Barton Drive	2					2
5—Barton Road	3					3
6—Berry Drive	14					14
7—Borough Park Road ...			2			2
8—Colley End Road ...			2			2
9—Foxhole Road						—
10—Highfield Crescent ...	1	1				2
11—King's Ash Road ...			10			10
12—Luscombe Crescent ...	3		1			4
13—Primley Park	5					5
14—S. Mary's Park Estate ...	11					11
15—Totnes Road	6	1	3			10
16—Winner Hill Road ...		1	3			4
	112	4	23			139

CENTRAL WARD.

Streets.	3 rooms	4 rooms	5 rooms	6 rooms	7 rooms	Tl.
1—Baymount Estate ...		1				1
2—Blatchcombe Road ...		2				2
3—Redburn Road	3		1			4
4—Titchfield Gardens ...			1			1
	3	3	2			8

PLANS SUBMITTED TO COUNCIL, 1938.

Month 1938	Houses.		Bungalows		Hotels.		Flats		Shops and Flats		Total	
	Plans	Dwellings	Plans	Dwellings	Plans	Hotels	Plans	Flats	Plans	S & F	Plans	Dwellings
January ...	3	6	2	3	1	1	–	–	1	1	7	11
February...	4	7	3	45	1	1	–	–	–	–	8	53
March ...	1	1	3	12	–	–	–	–	–	–	4	13
April ...	5	8	3	15	–	–	–	–	–	–	8	23
May ...	4	32	8	24	–	–		2	–	–	13	58
June ...	3	3	2	3	–	–	–	–	–	–	5	6
July ...	3	3	5	6	–	–	–	–	–	–	8	9
August ...	5	6	1	2	1	1	–	–	–	–	7	9
September	4	6	3	4	–	–	1	5	–	–	8	15
October ...	2	5	2	3	–	–	–	–	–	–	4	8
November	3	4	6	111	–	–	–	–	–	–	9	115
December	4	7	2	2	–	–	–	–	–	–	6	9
Totals ...	41	88	40	230	3	3	2	7	1	1	87	329

PLANS SUBMITTED TO COUNCIL (Continued).

Month 1938	Roads and Sewers		Estate Layouts		Shops		Garages		Miscellaneous		Total Plans	Total Buildings
	Plans	R. & S.	Plans	Layouts	Plans	Shops	Plans	Garages	Plans	Buildings	Plans	(inc. Dwellings)
January ...	1	1	1	1	1	2	3	4	8	11	14 + 7 = 21	19 + 11 = 30
February...	2	2	1	1	1	1	6	6	12	12	22 + 8 = 30	22 + 53 = 75
March	–	–	1	1	–	–	4	4	16	17	21 + 4 = 25	22 + 13 = 35
April ...	–	–	–	–	–	–	2	5	5	5	7 + 8 = 15	10 + 23 = 33
May ...	1	1	–	–	–	–	4	4	6	6	11 + 13 = 24	11 + 58 = 69
June ...	–	–	–	–	–	–	7	7	12	12	19 + 5 = 24	19 + 6 = 25
July ...	–	–	1	1	–	–	2	2	4	4	7 + 8 = 15	7 + 9 = 16
August ...	1	1	–	–	–	–	3	3	–	–	4 + 7 = 11	4 + 9 = 13
September	–	–	1	1	–	–	1	1	6	6	8 + 8 = 16	8 + 15 = 23
October ...	–	–	–	–	–	–	6	6	–	–	6 + 4 = 10	6 + 8 = 14
November	–	–	3	3	–	–	2	2	7	7	12 + 9 = 21	12 + 115 = 127
December	1	1	–	–	–	–	3	3	4	4	7 + 6 = 13	8 + 9 = 17
Totals ...	6	6	8	8	2	3	43	47	80	84	139 + 87 = 226	148 + 329 = 477

FACTORIES, WORKSHOPS AND WORKPLACES.

1.—INSPECTIONS for purposes of provisions as to health, including inspections made by Sanitary Inspectors

Premises. (1)	Number of		
	Inspections. (2)	Written Notices. (3)	Occupiers prosecuted. (4)
Factories with mechanical power	25	5	0
Factories without mechanical power	34	6	0
*Other Premises under the Act (including works of building and engineering construction, but not including outworkers' premises)	1	0	0
TOTAL	60	11	0

*Electrical Stations should be reckoned as factories.

2.—DEFECTS FOUND IN FACTORIES, WORK-SHOPS AND WORKPLACES.

Particulars. (1)	Number of Defects. Found. (2)	Remedied. (3)	Referred to H.M. Inspector. (4)	Number of defects in respect of which Prosecutions were nstituted. (5)
Want of cleanliness (S. 1) ...	2	2		
Overcrowding (S. 2)				
Unreasonable temperature (S. 3)				
Inadequate ventilation (S. 4)				
Ineffective drainage of floors (S. 6)				
Sanitary Conveniences (S. 7) :—				
Insufficient	2	1		
Unsuitable or defective ...	7	6		
Not separate for sexes ...				
Other offences ... ... (Not including offences relating to Home Work or offences under the Sections mentioned in the Schedule to the Ministry of Health (Factories and Workshops Transfer of Powers) Order, 1921, and re-enacted in the Third Schedule to the Factories Act, 1937) ...				
TOTAL	11	9		

Note :—The two Notices outstanding are in respect of those served at the end of the year.

CAUSES OF DEATHS DURING 1938

	M.	F.
All causes	137	172
Typhoid and paratyphoid fever	0	0
Measles	0	1
Scarlet fever	0	0
Whooping cough	0	0
Diphtheria	0	0
Influenza	4	2
Encephalitis lethargica	0	0
Cerebro-spinal fever	1	0
Tuberculosis of the respiratory system	7	4
Other tuberculosis	1	2
Syphilis	0	2
G.P.I., tabes, etc.	0	0
Cancer	16	18
Diabetes	2	2
Cerebral hæmorrhage	6	11
Heart disease	34	52
Aneurysm	0	0
Other circulatory diseases	8	21
Bronchitis	5	3
Pneumonia (all forms)	6	5
Other respiratory diseases	2	2
Peptic ulcer	2	1
Diarrhœa under 2 years	1	1
Appendicitis	0	1
Cirrhosis of liver	1	0
Other liver diseases	3	5
Other digestive diseases	6	3
Acute and chronic nephritis	5	4
Puerperal sepsis	0	0
Other purperal diseases	0	0
Congenital debility, premature birth, etc.	5	2
Senility	6	8
Suicide	1	1
Other violence	0	6
Other defined diseases	14	14
Ill-defined or not known	1	1
Diarrhœa, 2 years and over	0	0
Deaths of infants under 1 years of age : Total ...	10	5
Legitimate	9	5
Illegitimate	1	0
Live births : Total	137	117
Legitimate	129	110
Illegitimate	8	7
Still births : Total	4	4
Legitimate	4	3
Illegitimate	0	1

THE ISOLATION HOSPITAL

MATRON'S REPORT.

Total number of cases, 50 :—Males 26, Females 24.

Disease.	Paignton.	Brixham.	Kingsbridge R.D.C.	Plympton.	Torquay.
Scarlet Fever	26	7	3	–	2
Diphtheria	8	–	–	2	–
Dysentery	–	1	–	–	–
Diphtheria	1	–	–	–	–
Totals	35	8	3	2	2

Deaths :—Diphtheria, 1 (Plympton).

I. FREEMAN, Matron.

Shipping entering the Port during the year.

Eleven coastwise vessels (motor), with a total tonnage of 991, entered the port during the year.

The water supply for the Port is good, and no complaints have been received as to rats in the Workshops at the Harbour.

During 1937, the Paignton Harbour, previously owned by a Private Company, was taken over by the Council, and an improvement scheme is under consideration.

In conclusion.—I have four points to which I wish to draw attention :—

(1)—The need for additional conveniences on the Paignton Sea Front, as the existing conveniences are insufficient for the large summer population.

(2)—The attention of householders should be drawn to the necessity of cleaning out water tanks at least twice a year. Many people do not realise that they have tanks, and so the tanks are never cleaned out.

(3)—During the year the Sunshine Recorder has been transferred to a new position, as the old position was sheltered from the evening sun and therefore did not give correct sunshine readings. A comparative test, extending over a period of twelve months, is now being made.

(4)—Several expectant mothers enter Torbay Hospital, Torquay, from Paignton, and therefore the Birth Rate of the District is not strictly correct.

Before ending, I wish to convey to the Chief Sanitary Inspector (Mr. F. J. Thick) and the whole Staff at the Office, as well as the Staff at the Isolation Hospital, my best thanks for willing help given on all occasions. I also wish to extend my best thanks to all my other colleagues for their cordial co-operation at all times.

I remain, Gentlemen,

Your obedient servant

R. JULYAN GEORGE, M.D., M.S., D.P.H.,
Medical Officer of Health.

Chief Sanitary Inspector's Annual Report for 1938.

To the Chairman and Members of the Paignton Urban District Council.

Mr Chairman and Members,—

I submit herewith my Annual Report for the year ending 31st December, 1938 :—

Complaints.—Two hundred and twenty-seven complaints were received and 191 Informal Notices served, all being complied with, the remainder being accounted for as not coming within the jurisdiction of the Department.

DRAINAGE

Old Houses.—During the year the drainage system of 92 houses was tested. Of this number, 85 were found to be defective—(38 being relaid and 47 repaired). Sanitary Fittings also came under review and, where necessary, were brought up to comply with the Council's Byelaws.

In addition to the foregoing, the drainage to new bathrooms, water closets, lavatory basins, etc., have also been inspected and tested.

The septic tanks or cesspools from 5 houses have been abolished and the drainage connected to the main sewer.

New Houses.—The drainage systems and sanitary fittings of 267 houses erected during the year, and in the course of erection at the end of the year, have been tested and inspected.

820 visits were paid in connection with this work, necessitating the application of 636 tests.

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

New Sewers.	Extensions.
Lower Barton Avenue.	Westhill Road.
Foxhole Road	Southfield Fise
Berry Drive	Southview Road.
Broadsands Bend.	Marldon Road.
	Horseshoe Bend.
	Carlton Drive.
	Branksome Close.

INFECTIOUS DISEASE AND DISINFECTION

Infectious Disease.—Sixty-four cases were investigated (Scarlet Fever, Diphtheria, Erysipelas, etc.) and enquiries made as to possible source of infection. Schools were also visited where the Patient was of school age. Thirty-four cases were removed to the Council's Isolation Hospital, 14 cases being admitted to other Hospitals.

Disinfections.—One hundred and thirty-six houses were disinfected as follows :—

Notifiable infectious disease	46
Tuberculosis	5
Other infectious diseases	11
Verminous conditions	46
Other cases	28

Disinfections have also been carried out at the Elementary and certain Private Schools.

During the year the following articles were passed through the Steam Disinfector at the Isolation Hospital :—

	Mattresses.	Pillows.	Blankets.	Other Articles.
From Paignton ...	32	67	34	73
From Districts outside Paignton	3	2	8	8

For many years I have included the following paragraph in my Annual Report, and I do not think it will be amiss to insert it again this year :—

Disinfection is always carried out where a death from Tuberculosis has been certified ; also, whenever possible, when a patient has been removed to a Sanatorium. In connection with the latter, however, the actual removal frequently takes place several days before we receive the notification and much valuable time is lost. It would greatly assist our efforts if the actual patient, or occupier of the house could immediately notify the Public Health Department of the

removal, when disinfection would immediately be carried out, free of all cost, before the room is re-occupied.

A free issue of disinfectant, and disinfectant soap, to the poorer classes has been continued during the year.

INSPECTION OF FOOD AND FOOD PREMISES

Food Premises.—All premises where food is prepared, or exposed for sale, have been inspected during the year, and the need for cleanliness at all times is impressed upon the persons handling food.

Stalls of fish and fruit hawkers have also been kept under observation.

All the Butchers' shops have glass fronts. Meat is hawked in the District by several local butchers, and by one or two from surrounding districts.

Slaughterhouses.—There are two Slaughterhouses in the District —one Private (Registered) and one Public. The Registered Slaughterhouse is situated at Crown and Anchor Arch, off Church Street.

The Public Slaughterhouse, which is situated in Luscombe Road, is well furnished with the necessary fixtures and fittings. It is also supplied with Town water, main drainage, and electric light. The building is in a suitable position, and sufficient land is available for extension when necessary.

Amount received in Fees during the year :—£61 4s. 3d.

Meat Inspection.—The Notice required to be given under the Meat Regulations of "intention to slaughter" has been generally observed, and the following carcases have been inspected at the Slaughterhouses :—

	Cattle	Cows	Pigs	Calves	Sheep & Lambs
Registered Slaughterhouse ...	735	30	660	414	3104
Public Slaughterhouse ...	320	120	961	109	1550
Total	1055	150	1621	523	4654

Carcases imported into the District have all been inspected at the Butchers' shops.

2,082 visits have been paid to the Slaughterhouses and Butchers' shops.

The inspection of Meat entails a large number of hours on duty outside supposedly normal hours, as killing takes place on Sundays, Bank Holidays and evenings.

Meat Marking.—This is not carried out in the Urban District.

UNSOUND FOOD

The undermentioned list shows the amount of Meat and Other Foods condemned and destroyed as unfit for human consumption :—

Carcases Inspected and Destroyed—

	Cattle (excldg. Cows)	Cows	Calves	Sheep and Lambs	Pigs
Number killed	1055	150	523	4650	1621
Number inspected ...	1055	150	523	4589	1621
All diseases except Tuberculosis :—					
Whole carcases condemned ...	0	0	0	5	1
Carcases of which some part or organ was condemned	15	3	0	7	8
Percentage of the number inspected affected with disease other than Tuberculosis	1.42	2.0	0	0.26	0.56
Tuberculosis only :—					
Whole carcases condemned ...	3	0	0	0	1
Carcases of which some part or organ was condemned	21	2	0	0	61
Percentage of the number inspected affected with Tuberculosis	2.27	1.33	0	0	3.82

	Tuberculosis.	Other Diseases and Conditions.	Total.
Beef	3,678lbs.	123lbs.	3,801 lbs.
Pork	804½lbs.		804½lbs.
Mutton ...	——	259lbs.	259 lbs.
Offals	1,135lbs.	320lbs.	1,455 lbs.
Totals ...	5,617½lbs.	702lbs.	6,319½lbs.

IMPORTED FOOD

Bone Taint	192lbs.
Bruising	88lbs.
TOTAL	280lbs.

OTHER UNSOUND FOOD DESTROYED

1 box of Herrings.
10lbs. Sausages.
46 cases of "Tasmanian" Apples (Black Spot).
42lbs. of Cod Fillets.
72lbs. of Bacon.
1 box of Kippers (5½lbs.)
28lbs. of Jellied Veal.
1 6lb. Tin of Meat.

The total amount of Food condemned and destroyed as unfit for human consumption was :—

3 tons. 11 cwts. 3 qrs. 20½ lbs.

As in previous years, there were no official "Seizures." Any carcase or portion thereof found necessary to be condemned and destroyed as unfit for human consumption was voluntarily surrendered.

BAKEHOUSES

There are 10 Bakehouses on the Register. All have been periodically inspected and found in a clean condition.

MILK SUPPLY

The undermentioned List shows the number of Cowsheds and Dairies in the District, together with the number of Retailers and Wholesale Producers of Milk on the Register, under The Milk and Dairies Order :—

Number of Cowkeepers or Dairymen on Register at end of year	75
Number Registered as Producer-Retailer	7
Number Registered as Producer-Wholesaler	15
Number Registered as Producer-Wholesaler Retailer ...	1
Number Registered as Retailers only	52

Number removed from the Register during the year :—

By Local Authority	0
Given up Business	5

There is one Producer of T.T. Milk in the District, which is sold in bulk in Torquay.

The one Producer in Paignton of Accredited Milk gave up during the year.

It was always a matter of regret to me that we only had one Accredited Milk Producer, but it is now more regrettable that we have none. Some of the Producers' farms, with minor alterations, could be brought up to the standard of the County Council for the production of such a milk.

Accredited Milk is retailed in Paignton by a Producer whose premises are situated outside the District.

Licences to sell Tuberculin Tested Milk (which is produced at Dartington Hall, outside the District) have been granted to 17 Retailers.

Pasteurised Milk is Retailed in the District by 2 persons whose premises are outside the District.

Frequent Inspections have been made to all the Registered Premises.

The majority of Cowsheds are found in a clean condition.

BACTERIOLOGICAL EXAMINATION OF MILK

During the year, 136 samples of Milk (111 for cleanliness and 25 for Tuberculosis) were taken for Bacteriological examination under the Scheme instituted by the Devon County Council in May, 1931.

The following are the results as received from the County Bacteriologist :—

From Local Producers.		From Local Retailers obtaining Milk from Local Producers		From Local Retailers obtaining Milk from Outside Producers		From Retailers outside the the District.	
Passed	Failed	Passed	Failed	Passed	Failed	Passed	Failed
33	20	2	6	19	27	1	3

The results of the samples taken for Tuberculosis were as follows :—

Positive	2
Negative	23

As mentioned in previous Reports, a Milk Sampling Scheme was commenced in 1934 in conjunction with the Council and the Local Dairymen's Association, whereby considerable additional samples of milk should be taken, the cost of the Analysis being borne in equal parts by the Council and the Local Association.

This Scheme has been carried on during the year under review, and 923 samples have been analysed by Dr. J. Hugoe Matthews, Hon. Pathologist to the Council. Of this number, 766 passed and 157 failed, as compared with 887 taken last year (680 passed and 207 failed).

The majority of samples taken for Examination under this Scheme is from Milk produced in the area of the Totnes Rural District Council. Detailed results of all the samples are sent to the Chief Sanitary Inspector for his information, and from time to time conferences are held between Sub-Committees of the two Councils to discuss the results achieved and the need for any further action. This excellent co-operation between the two Authorities is having good results.

The total number of samples of Milk taken for Cleanliness Examination during the year was 1,034, viz. :—

Devon County Scheme	111
Additional Scheme	923

FOOD AND DRUGS ACT

I am indebted to Superintendent T. Milford, of the Devon Constabulary, for the following figures of samples taken by his Department :—

Total taken, 38, made up as follows :—

Milk	34
Butter	3
Confectionery	1

Of the total, 27 were genuine, and 11 adulterated, all of the latter being milk samples, and which resulted in 5 prosecutions.

In addition to the above, several informal samples of Milk have been taken and analysed by this Department at the request of Local Retailers. This service is carried on gratuitously and is much appreciated by the Retailers.

At present the Devon County Council are the Food and Drugs Authority. Application has been made to them, however, for their powers under this Act to be delegated to the Paignton Council. I sincerely hope that such application will be successful, because, as I stated in my Report last year, it is most essential that the Local Authority should carry out these duties and thus have complete control of all Food Supplies in their District.

FACTORIES ACT

As laid down in the above Act, a Register is kept of all Factories Visits are paid periodically, and any defects found are dealt with.

No Notices have been received from the Factory Inspector of any infringements during the year.

SMOKE ABATEMENT ACT

All Factory chimneys have been kept under observation. It has not been necessary to take Statutory action.

PUBLIC CLEANSING

Collection and Disposal of House and Trade Refuse

Collection.—Thornycroft lorries are used for this work. The fleet consists of :—

One 3-ton 10/12 Cubic Yard Lorry.

Three 30cwt. 6 Cubic Yard Lorries.

Two 3-ton 8 Cubic Yard Lorries, with removable tops.

All these lorries are fully occupied in the Summer on this work to meet the need of extra Collections owing to the considerable increase of population.

During the Winter the 10/12 Cubic Yard lorry and the three 6 Cubic Yard lorries are in daily use. One 8 Cubic Yard lorry is collecting refuse two days of the week, and the remainder of the week is on earth collection for covering. The other 8 cubic yard lorry is two days on earth collection and the rest of the week is loaned to the Surveyor's Department at an agreed charge, or used for replacing other refuse lorries which are undergoing repairs.

Owing to the continued increase of the amount of refuse to be collected, a second 3-Ton 8 Cubic Yard lorry, with removable top, was purchased during the year, and came into service in June. This lorry is included in the foregoing remarks.

The amount of refuse collected per premises for the year was 19.21cwts., and the amount per head of population was 6.35cwts.

Disposal.—All refuse is deposited in the low-lying land in Clennon Valley, on the "Controlled Tipping" System, and in accordance with the Regulations laid down by the Ministry of Health for the control of Refuse Tips.

During the year, 3,878 loads were obtained from Brown's Field and 5,574 loads from other outside sources.

Two Morris lorries and 1 Thornycroft lorry are used in connection with this work.

I am again pleased to report that all the men engaged in this work of Refuse Collection and Disposal have carried out their duties in a very creditable manner, often under very adverse weather conditions, and I much appreciate their co-operation.

Cost in connection with Collection and Disposal.—The total cost of Refuse Collection and Disposal for the year, as given by the Accountant's Department, amounted to :—

	£	s.	d.
Collection	3,711	6	2
Disposal	2,408	7	11
	£6,119	14	1

	£	s.	d.
Collection—cost per ton		10	7
Disposal—cost per ton...		6	11
Cost per premises per week			3.89d.
Cost per person per week			1.3d.

(NOTE :—These figures include certain preliminary works carried out and costs incurred in connection with the future development of the land as playing-fields and pleasure grounds).

HOUSING

A Tabulated Statement, as required by the Ministry of Health, will be found on Page 40, showing the number of Inspections carried out and the action taken under the Housing and Public Health Acts during the year.

It will be observed that 248 houses were inspected under these Acts, and that 174 of these were found not to be in a reasonable state of repair.

Included in the 248 inspected, are 71 inspected and recorded under the Housing Consolidated Regulations.

It is again pleasing to record that, as in past years, a considerable number of the houses found "not to be in a reasonable state of repair" were improved by informal action being taken (160 of 174, or 91.3 per cent.), and only in 11 cases was it found necessary to serve Statutory Notices.

A short Summary of improvements carried out will be found on Page 39.

Official representations were made in respect of 3 houses at Winner Hill Road, occupied by, or suitable for occupation by, members of the working classes, that they were not capable of being repaired at reasonable expense. Demolition Orders were made by the Council and the houses demolished. The Tenant of one house was given a Council house, and the other two Tenants obtained accommodation elsewhere.

Overcrowding.—No cases of overcrowding were found during Housing Inspections.

ERADICATION OF BED BUGS

			Infested.	Disinfested.
(1)	(a) Council Houses	...	20	20
	(b) Other Houses	...	26	26

(2) The methods employed are (a) by spraying with insecticide (Zaldecide) in mild cases, and (b) "Cimex" blocks in severe cases.

In all cases the woodwork (skirtings, picture rails and architraves) have been removed, also floorboards eased in order to allow complete penetration.

Success has been obtained with these methods, Where considered necessary, bedding is also removed for steam disinfection.

(3) The methods previously mentioned are also employed, if necessary, to ensure that the belongings of tenants are free from vermin before removal to Council houses.

(4) Disinfestation is carried out by the Local Authority.

(5) Frequent visits are paid, and advice given.

RATS AND MICE (DESTRUCTION) ACT

The administration of this Act has been delegated by the County Council to the Local Authority.

During Official Rat Week, free samples of Rat Poison were given, 590 baits being issued. Suitable posters were also placed on various buildings in the District.

From the Council's point of view, every week in Paignton is a Rat Week, because a man is detailed for practically the whole of the year in looking after all premises and lands owned by the Council; also in giving valuable assistance to Ratepayers generally whose premises are affected.

There is no doubt that this persistent warfare against these vermin is having its beneficial effect.

CAMPS

The Camps in the District, numbering 9, are frequently inspected during the Camping Season.

3 have main drainage and main water supply.

5 have septic tank drainage and main water supply.

1 has earth closets and private water supply.

Under Section 269 Public Health Act, 1936, the Council are empowered to make Regulations in respect of Camps, and issue Licences. Regulations have been made by the Council in respect of :—

(1)—Number of dwellings per acre.

(2)—Distances from boundaries or adjoining streets.

(3)—Number of persons who may occupy per acre.

(4)—Sanitary accommodation.

(5)—Distance between movable dwellings.

(6)—Maximum number of persons who may use a movable dwelling calculated on floor space.

(7)—Water supply.

(8)—Supply of hot water.

(9)—Refuse bins.

(10)—Chemical fire extinguishing apparatus.

(11)—Parking facilities.

(12)—Infectious disease.

SHOPS ACT, 1934

The Council are now responsible for carrying out all the provisions of Section 10 of this Act, powers having been delegated from the County Council.

During the year, 134 shops have been inspected and recorded, and Notices served in respect of :—

Washing accommodation	15
Sanitary accommodation	12
Heating	3
Ventilation	1
Lighting	1

All Notices have been complied with.

STAFF

Change in Staff occurred during the year. Mr. R. G. Coysh (Assistant Sanitary Inspector) left in January on obtaining an appointment as Sanitary Inspector under the Metropolitan Borough Council of Shoreditch.

Mr. T. B. Chaffe, of Totnes was appointed to fill the vacancy.

I wish to extend my thanks to Mr. S. H. Bone and Mr. T. B. Chaffe for the very able manner in which they have loyally assisted me in carrying out the multifarious duties now attached to the office of Sanitary Inspector ; also to Mr. R. Authers (Clerk).

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, F.S.I.A., etc.,

Chief Sanitary Inspector.

Meat and Food Inspector.

SUMMARY

House roofs repaired and made watertight	21
Damp walls remedied	48
External walls repaired	6
Internal plastering repaired	5
Ceilings repaired	8
Ceilings and walls cleansed	15
Floors repaired and made good	4
Scullery floors repaired	2
Doors, window frames and sills renewed or repaired ...	6
Sashcords provided	4
Drinking water cisterns cleansed	3
Drinking water cisterns provided	15
Water supplies taken inside house	10
Kitchen ranges repaired	8
Additional ventilation provided	16
Larders provided	36
Larders vented	4
Yards repaired	14
R.W.P.'s repaired or provided	15
New shuting provided	5
Sinks provided	41
New waste pipes to sinks, etc.	55
New W.C.'s built	37
New W.C. pans fitted	19
Flushing cisterns repaired or provided	51
New urinals provided	8
New lavatory basins provided	49
New bath provided	24
Inspection chambers constructed	86
Interceptors fixed	37
New soil pipes fixed	16
New vent shafts	25
F.A.I.'s provided or repaired...	63
Septic tanks or cesspools abolished and drainage connected to main sewer	5
Drains of new houses or buildings passed	267
New manhole covers provided	4
Drains to old houses re-laid	38
Drains to old houses repaired	47
Drain tests applied to old houses	253
Drain tests applied to new houses	636
Drains cleared	41
Accumulations removed	12
New dustbins provided	49

1.—Inspection of Dwelling-houses during the year :—

(1)	(a) Total number of dwelling-houses inspected for housing defects (under the Public Health or Housing Acts)	248
	(b) Number of inspections made for the purpose ...	682
(2)	(a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations 1925 and 1932	71
	(b) Number of inspections made for the purpose ...	149
(3)	Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	3
(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)	171

2.—Remedy of defects during the year without service of formal Notices :—

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or of their Officers 160

3.—Action under Statutory Powers during the year :—

(a)—Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936 :—

(1) Number of dwelling-houses in respect of which Notices were served requiring repairs 4

(2) Number of dwelling-houses which were rendered fit after service of formal Notices :—

(a) By Owners 4

(b) By Local Authority in default of Owners ... 0

(b)—Proceedings under Public Health Acts :—

(1) Number of dwelling-houses in respect of which Notices were served requiring defects to be remedied 7

(2) Number of dwelling-houses in which defects were remedied after service of formal Notice :—

(a) By Owners 7

(b) By Local Authority in default of Owners ... 0

(c)—Proceedings under Sections 11 and 13 of the Housing Act, 1936 :—

(1) Number of dwelling-houses in respect of which Demolition Orders were made 3

(2) Number of dwelling-houses demolished in pursuance of Demolition Orders 3

(d)—Proceedings under Section 12 of the Housing Act, 1936 :—

(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made 0

(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit 0

4.—Housing Act, 1936—Part 4, Overcrowding.

(a) (1) Number of dwellings overcrowded at the end of the year 0

(2) Number of families dwelling therein 0

(3) Number of persons dwelling therein 0

(b) Number of new cases of overcrowding reported during the year 0

(c) (1) Number of cases of overcrowding relieved during the year 5

(2) Number of persons concerned in such cases ... 15

(d) Particulars of any cases in which dwelling-houses have again become overcrowded after the Local Authority have taken steps for the abatement of overcrowding 0

(e) Any other particulars with respect of overcrowding conditions upon which the Medical Officer of Health may consider it desirable to report ... ... none

Meteorologist's Report

TOWN HALL, PAIGNTON,

March, 1939.

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 for the year 1938.

Observations are taken twice daily throughout the year at 9 a.m. and 5 p.m., G.M.T., and compilations of records are herewith submitted.

The work of the Meteorological Department is carried out by myself, with the able assistance of my daughter, Miss Joan Bellinger, who is an experienced deputy and of great assistance to me.

Paignton is situated in North Latitude 50° 26′ and West Longitude 3° 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 Victoria 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, four 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.

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, and records same in hours and minutes.

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

The Sunshine Recorder is a Campbell-Stokes pattern with crystal glass sphere, tested and approved by the Meteorological Office. It is placed at the top of the tower of the Pavilion in Queen's Park, 42 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. It is placed in the Main Shelter on the Esplanade.

The weather records are 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 Meteorological Records are specially lighted at night, which is a great convenience to the large number of persons who are anxious to know what the Bargraph is doing.

The Station was inspected by J. Glasspoole, Esq., Meteorological Office Inspector, Air Ministry, on the 29th June, 1938, 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. In the Report, the times given during the summer-time period are clock times.

I remain, Gentlemen,

Your obedient servant,

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

Town Meteorologist.

RESUMÉ OF THE WEATHER FOR THE YEAR 1938.

The climatic conditions for the year on the whole were good, being fairly sunny, dry and mild. The conditions were varied, the first half was much the sunniest and the driest. The sunshine records were below average in eight months, the months with the greatest deficiencies were :—May, 42 hours, July, 51 hours and November, 12 hours below the average ; in contrast to this, the months of March and April were exceedingly sunny, the records were 41 hours and 61 hours above the average, respectively, and together with June and September, also above average, these four months were the best months of the year. Respecting the Rainfall, the total was 1 inch below the average, a few days recorded abnormally heavy falls, but for this the total would have been much below the average. For six months

the rainfall was below the average. The dryness was very conspicuous in the months from February to April, inclusive, the total fall for this period was 1.47 inch, against an average of 9.11 inches. March and April were drought months, with .09 inch and .12 inch, respectively. The real wetness was in the months of January, August and November (the total for August was swelled by a great fall in 24 hours of 3.63 inches, on the 3rd, due to the great thunderstorm). The "Therm" worked to our advantage in nine months, varying from just 0.1 degree above to 5 degrees above the average, March and November were exceptionally mild. May, July and December were the only months with the mean temperature below the average. December was a variable month respecting temperature, it was mild, and at times exceptionally mild in the first half and much colder in the second half with an Arctic cold snap from the 19th to the 21st.

The most outstanding feature was the great thunderstorm on the morning of August 4th. It was a storm of long duration, with loud and prolonged thunder, vivid lightning (of all kinds) and a deluge of rain which caused much flooding, being the worst storm within living memory. Another outstanding feature was the Arctic cold snap 19—21st December, which caused frozen water pipes with consequent burstings and flooding of premises and a few tanks burst.

Full descriptions of these two outstanding features appear further in this Report.

The weather of the usual Holidays was fairly good, Easter was notably sunny. A brief description of each follows :—

Eastertide (April 15th—18th, inclusive).—Fine, mainly sunny, dry with about average temperature, breezes from the N.E. to E. quarter, rather fresh wind all day on Sunday (17th). Good Friday was an excellent sunny morning, but clouded in during the afternoon and there were little sun periods for the remainder of day. Easter Sunday and Monday recorded a combined total sunshine record of 24 hours.

Whitsuntide (June 5th—6th inclusive).—Fine, mainly sunny on Sunday, mainly cloudy on Monday until 2 p.m., then sunny periods, dry, temperature moderate to average, warmer on Monday and breezy from the W.S.W. or S.W.

August Bank Holiday (August 1st.)—Changeable. An excellent sunny morning, very warm, changed to dull afternoon, thundery and close with a thunderstorm condition from about 2 p.m. to 5 p.m., more severe in thunder and lightning than usual, the rainfall was mainly steady (total record, .25 inch).

Christmastide (December 25th—27th, inclusive).—Dull on Christmas Day and Boxing Day, but fair with sunny periods on Tuesday, 27th, drizzle on morning of Boxing Day, otherwise dry. The temperature changed from rather cold to average and above, due to the changing of the wind from E.N.E. on Christmas Day to Westerly in the next two days

Sunshine.—The total sunshine record for the year was 1659.2 hours, giving a mean daily amount of 4.54 hours. The total is 64.6 hours above last year although 20.6 hours below the 28 years average, also it is 37 per cent. of the possible duration. Sunshine was recorded on 309 days, this is 11 days more than the previous year and 8 days more than the average of 28 years. The month with the greatest deficiency was July, the total record was 163.6 hours, being 51.2 hours below the average, on only 4 days in this month did the record exceed 10 hours. May recorded the second largest deficiency, the total record was 163.8 hours, being 42.6 hours below the average. December was the cloudiest of the winter months, the total record was 47.3 hours, against an average of 54.3 hours. The month with the greatest excess above average was April, the total record was 232.6 hours, the second sunniest of the year, being 60.9 hours above the average, the daily records exceeded 10 hours on 13 days. March showed the next largest excess, the total record was 169.2 hours, being 40.9 hours above the average. June was the sunniest month of the year, the total record was 235.5 hours, giving a mean daily amount of 7.85 hours, the total record was 7.7 hours above the average. This month recorded the sunniest day of the year, viz., 15.0 hours on the 21st. The months of March, April, June and September recorded no sunless days, December had the most, viz., 13. Paignton were 29th in the list of approximately 270 Sun Recording Stations, issued by the Meteorological Office.

The mean daily cloud amount was 5.6. The tabluated records show a much lesser experience of " overcast sky " compared with the previous year. The mean amount was greatest in the month of January at 6.9 and least in the month of April at 3.3.

Rainfall.—The total rainfall for the year was 37.28 inches, giving a mean daily fall of .10 inch. It is 1.04 inches below the 28 years average. Rainfall was recorded on 153 days, this is against 175 last year and 197 ,the average number for 28 years. Twelve days recorded 11.42 inches, leaving 25.86 inches over the remainder of the year. The total fall from January to June inclusive was 10.17 inches, against an average of 17.29 inches. Six months recorded below the average, against six above. The months with the greatest deficiencies were March and April, the total records were .09 inch and .12 inch, respectively, being 3.01 inches and 2.32 inches below their respective averages. February with 1.26 inches was 2.31 inches below the average. June and September recorded half the average. The month with the greatest difference above the average was August, the total record was 6.77 inches, being 4.07 inches above the average. November showed the second greatest excess, the wettest month of the year, the total record was 7.38 inches, being 3.03 inches above the average. The greatest daily amount was 3.63 inches on August 3rd, other very large falls were 1.92 inches on November 25th and 1.37 inches on July 6th. The average rainfall for August is 2.70 inches, there was no record of such an abnormal fall of 3.63 inches, the nearest was 3.05 inches, on 29th August, 1916, the former fall (as before mentioned) was the result of the great thunderstorm on August 4th, and the latter was the result of a prolonged period of torrential rain, the pressure was very low and there does not appear to have been

any thunder, the wind was the same on both occasions, from the N.E. The most intense fall on August 3rd was .51 inch in 1 minute, viz., 7.43 a.m. to 7.44 a.m. on 4th inst. January had the most number of rainy days viz. 21 February, March and April had the least, viz., 7, 3 and 1, respectively. The number of days which recorded only a "trace" was 44. The total rainfall for 1937 was 44.13 inches.

Temperature : Screen.—The mean temperature for the year was 51.9 degrees, this is 0.3 degree above last year and 0.8 degree above the 28 years average. The mean maximum temperature was 58.1 degrees, 0.4 degree above last year and the mean minimum was 45.8 degrees, 0.3 degree above last year. The mean temperature of the Dry Bulb readings at 9 a.m. and 5 p.m. was 53.6 degrees, this is also 0.3 degree above last year. For nine months the mean temperature was above the average.

Highest.—August was the warmest month of the year, the mean temperature was 61.9 degrees, the mean maximum was 68.6 degrees, and the mean minimum 55.1 degrees. The mean temperature was 0.6 degree above the average. September recorded the highest daily temperature, 77.0 degrees on the 12th, this is 1 degree lower than the previous year, August recorded the second highest at 76.0 degrees. January was the mildest of the winter months, the mean temperature was 45.2 degrees, the mean maximum was 49.9 degrees, and the mean minimum 40.4 degrees. March and November were exceptionally mild, the mean temperatures were 4.4 and 5.0 degrees above the average, respectively, and were the mildest in the records from 1910.

Lowest.—December was the coldest month of the year, the mean temperature was 42.9 degrees, the mean maximum was 47.8 degrees and the mean minimum 38.0 degrees. The mean temperature was 1.3 degrees below the average. This month recorded the lowest daily temperature, 22.0 degrees on the 20th, this is 4 degrees lower than the previous year and uncommonly low, only 5 times in our records from 1910 has it recorded so low, on two of these occasions it recorded even lower, viz., 18.0 degrees on 28th February, 1916, and 19.0 degrees on 18th December of the same year. March recorded the second lowest daily temperature, at 27.0 degrees.

Range.—The mean maximum temperature was 58.1 degrees and the mean minimum 45.8 degrees, giving a mean daily range of 12.3 degrees, this is 0.1 degree higher than the previous year. April had the greatest mean daily range, at 15.8 degrees, September next, 14.6 degrees. March had a greater range than usual. January and February had the smallest mean daily range, at 9.5 degrees.

Grass.—The mean grass minimum temperature was 40.7 degrees, this is 0.1 degree higher than the previous year. The number of ground frosts, ie., occasions on which the grass minimum temperature fell to 30.4 degrees or below, was 60, this is 3 more than the previous year. The number of ground frosts was greatest in the months of April and December, viz., 12 and 13 respectively, also March, 10. The lowest reading was 18.0 degrees on December 21st, denoting

a ground frost of 12.4 degrees, the lowest reading for the previous year was 17.0 degrees and for 1933, 19.0 degrees. Ice was in evidence on one occasion during the winter months and the experience was greater than usual, this was from the 19th—21st December. All still water was frozen in exposed places, the Boating Lake in Victoria Park was covered with thin ice (the cement bottom accounted for it not being thick), water in taps and cisterns froze in parts of the town, also a few tanks burst, residents on high levels were without water icicles were prominent from overflow water, and another uncommon sight was the inside of windows of busines premises in the main thoroughfare coated with thin ice, which gave a hoar-frost appearance. The lowest temperatures during this Arctic cold snap were all recorded on the 20th inst., with the exception of the grass minimum, they were as follows:—Minimum, 22.0 degrees; maximum, 28.0 degrees; dry bulb at 9 a.m., 24.2 degrees, and at 5 p.m. 26.0 degrees; the lowest grass minimum was 18.0 degrees on the 21st. The minimum of 22 degrees (as before mentioned) is not the lowest on record for any of the winter months, the maximum of 28 degrees is, however, the lowest on record, the nearest was found to be 32 degrees (freezing point) on 9th January, 1924.

Barometer.—The mean height of barometric pressure, corrected to sea level, for the year, was 30.025 inches. This is above the mean for the previous year by .133 inch and above the 28 years average by .041 inch.

Highest.—April recorded the highest mean pressure, it was 30.319 inches, being .382 inches above the average, and recorded the highest daily reading, at 30.752 inches on the 11th. February and March recorded very high mean pressures of 30.270 inches and 30.277 inches, respectively, being .300 inches and .328 inches above their respective averages, and also recorded the next highest daily readings, at 30.660 inches and 30.731 inches, respectively.

Lowest.—November recorded the lowest mean pressure, it was 29.826 inches, being .104 inch below the average, December recorded the second lowest, the mean was 29.844 inches, being .134 inch below the average. January recorded the lowest daily reading, at 28.883 inches on the 10th, November had the second lowest, at 29.070 inches.

Range.—The highest daily reading was 30.752 inches on April 11th and the lowest daily reading 28.883 inches on January 10th, giving an extreme range of pressure of 1.869 inches, this is .227 inch lower than last year. January had the greatest extreme range, at 1.660 inches and was the only month with the extreme range above 1½ inches. August had the smallest extreme range, at .655 inch, September next, .696 inches. The months from February to April inclusive had smaller extreme ranges than usual.

The number of gales was 17, against 6 last year. The most disturbed month was January, with 6 gales. The most noted experience was on the night-morning of January 29th—30th, a gale from the W. to N.W. quarter with gusts at times of 60 m.p.h., this was experienced from midnight to 6 a.m. on the 30th, and the wind continued to blow gale force at times up to 9 a.m. this day. The last

four days of January, viz., 28th–31st, inclusive, was a noted period for strong winds and gales with temporary abatements, blowing from between the W.S.W. and N.W. quarter. A lot of damage was done to property as the result of these gales, slates and chimney pots were dislodged and blown off roofs, canvas sunblinds were torn and advertisement signs wrenched from their fittings, a tree was blown down in Gerston Place, and others on the outskirts of the town. The general disposition of the wind was from the W.S.W., S.W. and W., and out of 730 observations, the number of times it came from the West side was 460, from the East side 200, South 38, and North 21. The mean force is computed at 3.9, light to moderate. February had the greatest mean force, at 4.3, whilst March had the least, at 3.3. A slight alteration has been made in the table of wind forces, formerly force 4—7, i.e., moderate to high wind, has been split up into force 4—5, i.e., moderate to fresh breeze and force 6—7, i.e., strong to high wind, it will be seen that there is a small experience of the latter.

Hail showers were recorded on 6 days, against 12 the previous year. A notable shower consisting of heavy rain and large hail (of the transparent type) occurred at 12.57 p.m. on October 2nd, and recorded .10 inch in 1 minute.

Snow or sleet showers were recorded on 5 days, against 12 the previous year, occurring once in February and four times in December. There was a definite fall of snow on 22nd December, from an early hour to near noon, the record in the rain-guage up to 9 a.m. was only .02 inch and after 9 a.m. .01 inch. There was a general layer of snow everywhere on the morning of this day, lying about half-inch deep on low levels and greater on high levels, the snow quickly disappeared from low levels.

Thunder was experienced on 6 days, against 12 the previous year. The months responsible were July 2, August 3 and November 1. The thunder was of a more definite character, louder, and this fully borne out in the great thunderstorm on August 4th, a description of which follows :—

PAIGNTON THUNDERSTORM.

One of the most severe thunderstorms broke over Paignton during the early hours of Thursday, 4th August. It was a storm of long duration and terrifying in nature, lasting from midnight to about mid-day. The fearful period was between 4 a.m. and mid-day, with the repeated booming overhead of thunder and vivid lightning (of all kinds : (sheet, streak and fork), which was mostly observed in the Western sky, together with a torrential fall of rain, so much so that the streets and low levels were soon waterways for boats, the rate of rainfall was of an intensity of half an inch per minute. The total amount of rain recorded at 10 a.m. was 3.63 inches and an additional amount of 1.07 inches fell between 10 a.m. and 1.30 p.m., making a great total of 4.70 inches due to the storm. The average rainfall for for August is 2.70 inches, and there was no record of such an abnormal amount, 3.63 inches in 24 hours, the nearest was found to be 3.05 inches on 29th August, 1916, another large fall was 2.14 inches on June 30th, 1932. Much damage was done by the flood, the worst

affected areas were Dartmouth Road, Littlegate Road, and Well Street, whilst the main Paignton—Brixham road was impassable at Clennon Valley, where the water was several feet deep. A few thunderbolts were reported to have fallen, also large hailstones fell locally. Although the storm was very severe, no lives were lost. Our experience was not so great as at Torquay, where there was a rainfall record of 6.39 inches. The Air Ministry in the Monthly Supplement of the Daily Weather Report of the Meteorological Office, London, for August, states :—" A storm of exceptional severity, duration and extent visited South-West England on the 4th, doing much damage. 6.40 inches of rain fell at Torquay, 4.70 inches at Paignton, and more than 2 inches over a wide area."

The range of visibility throughout the year was good. Fog was experienced on 5 days, against 14 the previous year. The experience of fog was slight with one exception, a dense fog occurred between 7 p.m. and 9 p.m. on March 5th, visibility was reduced to 20 yards, this is a very uncommon experience for the town.

Humidity.—The mean temperature of the Dry Bulb readings at 9 a.m. and 5 p.m. was 53.6 degrees, and of the Wet Bulb readings was 50.0 degrees. The difference from these two readings is 3.6 degrees, from which is deduced the mean relative humidity, which is 76 per cent., being very satisfactory. The monthly values at 9 a.m. and 5 p.m. were as follows :—

	9 a.m.	5 p.m.
January	83 per cent.	80 per cent.
February	78 ,,	73 ,,
March	77 ,,	70 ,,
April	65 ,,	58 ,,
May	75 ,,	69 ,,
June	73 ,,	67 ,,
July	78 ,,	74 ,,
August	81 ,,	71 ,,
September	81 ,,	75 ,,
October	85 ,,	77 ,,
November	87 ,,	86 ,,
December	83 ,,	82 ,,

Optical Phenomena.—The most outstanding optical phenomenon during the year was the Aurora Borealis on the evening of January 25th, observed on a clear sky, it was a wonderful sight. Describing this phenomenon :—At 6.20 p.m. a luminous sheet of red light was observed in the North-West, extending just above the horizon. At 7.45 p.m. our eyes were arrested with a very luminous light, tinted carmine in the North-West, forming an arch, with its supporting points as W.N.W. and E.N.E. The outer edge of the arch extended to 45 degrees above the horizon and the lower edge 30 degrees, below the arch was a mass of green light. Streamers of light, resembling search-

light, appeared, darting out through this brilliant arch and extending to the zenith. Similar phenomena faded and recurred until a late hour, a streak of light was observed in the N.W. at 10 p.m. About 9 p.m., an ellipsoidal arch formed in the sky, consisting of homogeneous strips of white light pointing in the North to South direction, the centre of the arch being 75 degrees above the horizon from the North, extending down to the N.W. and N.E. Four strips of whitish light, uniform in size, protruded from about 5 degrees up from the N. horizon, and a broad one was observed in the S.W., which extended to about 60 degrees, it was tapered, a few appeared in other directions, a shooting star was also seen at this time. The whole phenomenon was wonderful and the many electrical changes were extraordinarily vivid and clear. In the N.W. to W. quarter there was a persistent colour, varying in tint from red to pink. Relating to other phenomena during the year the most common were large Solar Halos, partially or wholly visible, with a radius of 22 degrees. The colours usually visible of a Solar Halo are, in order from the edge nearest the sun, red and yellow, whilst the outer edge appears white. A rare phenomenon was that of an Arc of Contact, concave or convex, observed at or near the intersection of a Solar Halo of 22 degrees, which may be seen with or without the Halo and the colours follow in the same order as a Halo. Of Lunar phenomena, Coronæ were the most frequent. The colours of this phenomenon appear in the reverse order to that of a Halo, red being on the outer edge and is usually followed by yellow, green and violet, the phenomenon is sometimes very beautiful. A colourless ring, of large diameter was observed around the moon on a few occasions. Rainbows were also observed.

A list of the phenomena observed in each month appears below :—

January.—Aurora Borealis, commonly called Northern Lights, on 25th. Large, colourless ring of 22 degrees diameter around the moon from 8.24 p.m. to 9.30 p.m. on the 17th, with an arc of contact, convex. A Lunar Corona at 7.30 p.m. on 15th. Rainbows on 7th, 19th, 21st and 26th.

February.—Solar Halos on 6th, 9th, 23rd and 24th. Lunar Coronæ on 9th, 10th, 11th and 12th. Partial rainbow at 9 a.m. on 1st.

March.—Solar Halos on 7th, 19th, 24th and 30th.

April.—Solar Halos on 4th, 15th, 16th, 17th, 25th and 28th. A colourless ring, of large diameter, around the moon at 10 p.m. on the 7th. Lunar Corona at 9 p.m. on 5th.

May.—Solar Halos on 19th, 22nd and 26th. Lunar Corona at 9.55 p.m. on 11th. Rainbow on evening of 28th.

June.—Solar Halos on 4th, 10th, 19th, 27th and 30th. Lunar Corona at 10.15 p.m. on the 7th. Rainbows on evening of 4th and 7th.

July.—Solar Halos on 1st, 6th, 17th, 20th, 24th and 28th. Rainbow at 6 p.m. on the 2nd.

August.—Solar Halos on 2nd, 3rd, 14th and 27th. Lunar Coronæ on 13th and 14th. Rainbow with reflection at 5.40 p.m. on 20th.

September.—Solar Halos on 3rd, 4th, 5th, 6th and 14th. Lunar Coronæ on nights of 3rd and 14th. A colourless ring, of large diameter around the moon at 5.45 p.m. on the 22nd. Rainbow at 6.10 p.m. on the 29th.

October.—Solar Halos on 6th, 9th, 10th, 11th, 14th and 29th. With the Halo on the 9th, at 4.55 p.m., was an Arc of Contact, convex, with clear colours of red nearest the sun, yellow, green and pale blue. On the 2nd inst., at 5 p.m., a short band of colours was observed, parallel with the sun, on the W. side, situated at the intersection of a Solar Halo of 22 degrees, there was no Halo, the colours were read (nearest the sun), yellow, and pale green. Lunar Coronæ were observed on the 10th, 11th, 29th and 31st. A colourless ring of large diameter, around the moon at 9.25 p.m. on the 9th. Rainbows on 4th, 8th, 13th and 18th.

November.—Solar Halos on 19th, 20th, 23rd and 24th. Lunar Coronæ on 1st, 2nd, 4th and 30th. Rainbows on 2nd, 17th, 21st and 30th. The total eclipse of the moon on the night of 7th inst. was unseen owing to the sky being cloudy or overcast.

December.—Partial Solar Halo at 9.15 a.m. on 11th. Lunar Coronæ on 1st, 2nd, 6th, 26th, 29th and 30th. Rainbows on 6th, 7th, 12th and 30th.

BAROMETRIC PRESSURE—1938.

Taken at 9 a.m. (G.M.T.) daily (inches) at the MAIN SHELTER, ESPLANADE.

Reduced to 32° F. and Sea Level.

Corrected for Temperature of Attached Thermometer.

Month.	Mean of Month.	Difference from Average of 28 years.	Highest Reading.	Date.	Lowest Reading.	Date.	Extreme Range of Pressure.
	Inches.	Inches.	Inches.		Inches.		Inches.
January	29.925	—0.084	30.543	24th	28.883	10th	1.660
February... ...	30.270	+0.300	30.660	11th	29.669	1st	0.991
March	30.277	+0.328	30.731	4th	29.695	21st	1.036
April	30.319	+0.382	30.752	11th	30.018	30th	0.734
May	29.945	—0.049	30.316	22nd	29.466	27th	0.850
June	30.056	+0.051	30.365	16th	29.654	1st	0.711
July	29.954	—0.058	30.267	17th	29.525	8th	0.742
August	29.976	—0.027	30.205	1st	29.550	19th	0.655
September ...	30.001	—0.047	30.282	11th	29.586	20th	0.696
October	29.906	—0.067	30.266	20th	29.479	4th	0.787
November ...	29.826	—0.104	30.344	15th	29.070	23rd	1.274
December ...	29.844	—0.134	30.418	25th	29.204	10th	1.214
Year	30.025	+0.041	30.752	Apr. 11th	28.883	Jan. 10th	1.869
1937 Means ...	29.892	—0.095	30.666	Dec. 26th	28.570	Oct. 23rd	2.096

MEAN SHADE TEMPERATURES—1938

Taken daily at 9 a.m. and 5 p.m (G.M.T.) in Victoria Park.

Month	Maximum mean	Minimum mean	Mean Temp.	Difference from average of 28 years	Mean Daily range.	Highest Max.	Date.	Lowest Min.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.		°F.	
January ...	49.9	40.4	45.2	+2.0	9.5	55.0	24th	33.0	1st & 11th
February ...	47.8	38.3	43.0	+0.1	9.5	55.0	3rd, 6th & 10th	32.0	9th, 15th & 18th
March ...	55.6	41.4	48.5	+4.4	14.2	61.0	23rd & 31st	27.0	6th
April ...	56.1	40.3	48.2	+0.6	15.8	63.0	6th	32.0	19th
May ...	58.6	45.7	52.2	—1.5	12.9	70.0	22nd	36 0	10th
June ...	65.9	51.6	58.7	+0.4	14.3	73.0	14th	44.0	2nd & 5th
July ...	65.9	53.4	59.7	—2.1	12.5	71.0	21st & 31st	45.0	1st & 2nd
August ...	68.6	55.1	61.9	+0.6	13.5	76.0	3rd & 7th	42.0	31st
September ...	65.8	51.2	58.5	+0.5	14.6	77.0	12th	41.0	16th
October ...	58.9	48.0	53.5	+1.0	10.9	64.0	1st & 16th	40.0	31st
November ...	55.9	45.9	50.9	+5.0	10.0	62.0	12th	32.0	27th
December ...	47.8	38.0	42.9	—1.3	9.8	56.0	4th & 12th	22.0	20th
Year ...	58.1	45.8	51.9	+0.8	12.3	77.0	Sept. 12th	22.0	Dec. 20th
1937 ...	57.7	45.5	51.6	+0.5	12.2	78.0	Aug. 5th & 7th	26.0	March 6 & Dec. 10th

SUNSHINE RECORDS, 1938.

QUEEN'S PARK OBSERVATORY — Authenticated by the Air Ministry

Months.	Monthly totals hours and tenths	Per cent. of possible duration	"Mean" daily amount	Difference from average of 28 years.	Difference from average of 28 yrs. to date	Day(s) of most hours of Sunshine.		Number of days on which sunshine was recorded.	Average number of days of 28 years	Number of days giving an amount above a given number of hours according to the season.			
	H. T.	per cent.		H T.	H. T.	H. T.	Date.			No. of days.		Hours.	
January	52 . 3	20	1.69	— 5.0	— 5.0	7 . 9	27th	21	19	5	with	4.0	and over.
February	70 . 6	25	2.52	— 4.9	— 9.9	8 . 2	20th	18	20	9	,,	4.0	,,
March	169 . 2	46	5.46	+40.9	+31.0	10 . 2	14th	31	26	18	,,	5.0	,,
April	232 . 6	56	7.75	+60.9	+91.9	12 . 1	17th	30	27	19	,,	7.0	,,
May	163 . 8	34	5.28	—42.6	+49.3	13 . 3	21st	27	29	10	,,	8.0	,,
June	235 . 5	48	7.85	+ 7.7	+57.0	15 . 0	21st	30	28	17	,,	8.0	,,
July	163 . 6	33	5.28	—51.2	+ 5.8	13 . 3	2[illegible]th	30	29	8	,,	8.0	,,
August	193 . 1	43	6.23	— 9.8	— 4.0	12 . 1	21st	28	29	11	,,	8.0	,,
September ...	163 . 1	43	5.44	+ 9.5	+ 5.5	11 . 5	2nd	30	27	10	,,	7.0	,,
October	107 . 8	33	3.48	— 6.4	— 0.9	8 . 5	14th	26	26	11	,,	5.0	,,
November... ...	60 . 3	23	2.01	—12.7	—13.6	6 . 7	29th	20	21	7	,,	4.0	,,
December ...	47 . 3	19	1.53	— 7.0	—20.6	5 . 2	21st	18	20	4	,,	4.0	,,
Year ...	1659 . 2	37			—20.6	15.0	June 21st	309	301				
Mean Daily ...	4 .54												
1937 ...	1594 . 6				—88.3	14.0	May 29th	298	301				
Mean ...	4 .37	36											

The Council are of opinion that although our Sunshine records are good, they feel that they can be made better by moving the Recorder to a new position. This has now been done, and a comparative test, extending over a period of twelve months is being made.

PAIGNTON SUNSHINE—YEARLY TOTALS FOR 27 YEARS.

These Records are interesting from the point of view of noting the Annual Totals and the difference in the nine years' totals.

Year.	Hours and Tenths.	Year.	Hours and Tenths.	Year.	Hours and Tenths.
1910	1,735.7	1919	1,774.3	1928	1,785.5
1911	1,992.9	1920	1,545.6	1929	1,869.5
1912	1,316.1	1921	1,893.1	1930	1,684.2
1913	1,463.0	1922	1,707.7	1931	1,454.6
1914	1,748.9	1923	1,814.0	1932	1,426.7
1915	1,620.3	1924	1,658.2	1933	1,823.3
1916	1,678.2	1925	1,911.5	1934	1,752.5
1917	1,611.1	1926	1,636.8	1935	1,619.3
1918	1,828.9	1927	1,601.3	1936	1,486.3
First 9 years ...	14,995.1	Second 9 years ...	15,542.5	Third 9 years ...	14,901.9
Mean	1,666.1	Mean	1,726.9	Mean	1,655.8

RAINFALL 1938.

VICTORIA PARK OBSERVATORY. (Inches and Hundredths) Recorded daily at 9 a.m. (G.M.T).

Month	Monthly Totals in Inches.	Mean daily fall	Difference from average of 28 years	Difference from average of 28 years to date	Greatest fall in 24 hours inches	date	No, of days 0.01 to 0.03 inches	No. of days 0.04 inches and more	Number of days on which only a trace was recorded	Total No. of days on which measurable rain fell
January ...	5.29	0.17	+0.94	+0.94	0.86	on 14th	2	19	4	21
February ...	1.26	0.04	—2.31	—1.37	0.46	,, 25th	2	5	3	7
March ...	0.09	trace	—3.01	—4.38	0.05	,, 24th	2	1	2	3
April ...	0.12	trace	—2.32	—6.70	0.12	,, 23rd	0	1	2	1
May ...	2.47	0.08	+0.48	—6.22	0.57	,, 26th	2	13	1	15
June ...	0.94	0.03	—0.90	—7.12	0.39	,, 1st	4	5	8	9
July ...	3.54	0.11	+1.38	—5.74	1.37	,, 6th	3	11	7	14
August ...	6.77	0.22	+4.07	—1.67	3.63	,, 3rd	2	9	5	11
September	1.20	0.04	—1.43	—3.10	0.45	,, 19th	7	5	3	12
October ...	4.14	0.13	+0.36	—2.74	0.67	,, 3rd	3	17	1	20
November ...	7.38	0.24	+3.03	+0.29	1.92	,, 25th	2	18	5	20
December ...	4.08	0.13	—1.33	—1.04	0.92	,, 13th	5	15	3	20
Year	37.28			—1.04	3.63	Aug. 3rd	34	119	44	153
Mean	.10									
1937	44.13			+6.04	1.25	Aug. 12th	38	137	39	175
Mean	.12									

1938—PAIGNTON

OBSERVATIONS OF WIND DIRECTIONS AT 9 a.m. AND 5 p.m. G.M.T. 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 ...	1	1	1	1	0	12	4	6	3	0	0	0	0	14	8	1	0	62
February ...	3	4	6	2	3	2	9	4	4	7	2	1	0	6	2	1	0	56
March ...	0	1	7	1	3	6	9	3	1	4	0	0	2	14	9	1	1	62
April ...	1	14	8	2	0	2	1	12	3	7	3	1	0	2	3	1	0	60
May ...	2	5	4	5	5	4	3	3	0	8	4	0	4	10	5	0	0	62
June ...	0	0	3	1	1	7	7	5	0	2	3	2	1	21	7	0	0	60
July ...	0	0	3	3	5	13	11	4	0	0	3	0	2	13	4	1	0	62
August ...	5	4	4	9	3	3	7	4	0	0	4	3	1	10	4	1	0	62
September ...	5	4	2	7	5	7	2	6	2	2	1	1	4	5	4	3	0	60
October ...	1	0	0	3	2	8	12	8	0	3	1	0	1	20	1	2	0	62
November ...	0	0	1	4	4	17	7	1	0	0	2	1	3	19	1	0	0	60
December ...	3	0	2	3	7	5	8	3	1	4	0	2	2	13	5	4	0	62
Total	21	33	41	41	38	86	80	59	14	37	23	11	20	147	53	15	1	730
1937	24	28	43	49	22	61	58	60	25	33	42	22	44	101	66	48	4	730

RAINFALL, 1938. DISSECTED DAY AND NIGHT PERIODS

Month.	Day. G.M.T. 9 a.m. to 5 p.m.	Night. 5 p.m. to 9 a.m
	Inches	Inches
January	2.27	3.02
February	0.60	0.66
March	0.00	0.09
April	0.02	0.10
May	1.16	1.31
June	0.61	0.33
July	0.67	2.87
August	2.39	4.38
September	0.34	0.86
October	1.18	2.96
November	1.81	5.57
December	1.72	2.36
Year	12.77	24.51
	37.28 inches.	
1937	12.32	31.81
	44.13 inches	

PAIGNTON RAINFALL—YEARLY TOTALS FOR 27 YEARS.

These Records are interesting from the point of view of noting the Annual Totals and the difference in the nine years' totals.

Year.	Inches and Hundredths.	Year.	Inches and Hundredths.	Year.	Inches and Hundredths.
1910	41.87	1919	37.74	1928	41.14
1911	34.81	1920	34.81	1929	43.90
1912	42.42	1921	19.41	1930	41.09
1913	35.72	1922	38.51	1931	36.86
1914	41.10	1923	34.93	1922	42.35
1915	45.93	1924	46.45	1933	29.53
1916	43.42	1925	40.46	1934	38.89
1917	29.49	1926	33.11	1935	42.23
1918	34.06	1927	38.97	1936	39.70
First 9 years	348.82	Second 9 years ...	324.39	Third 9 years	355.69
Mean	38.76	Mean	36.04	Mean	39.52

PAIGNTON—1938.

HYGROMETRY

VICTORIA PARK OBSERVATORY. At 9 a.m. and 5 p.m. G.M.T. daily.

	HYGROMETRY.			CLOUD	Grass Temperatures		
Month.	Dry Bulb 9 a.m. and 5 p.m. Mean	Wet Bulb 9 a.m. and 5 p.m. Mean	Relative Humidity, (Saturation 100)	Cloud Mean. 0 to 10	Mean	Lowest and date.	No. of days of ground frost. Temp. at or below 30.4°
	°	°	Mean per cent.		°	°	
January ...	45.8	43.5	82	6.9	37.0	26.0 on 11th	6
February ...	44.0	41.1	76	6.3	33.4	22.0 on 9th	9
March ...	50.1	46.4	74	4.2	34.9	19.0 4th, 6th	10
April ...	51.1	45.5	61	3.3	33.5	22.0 on 19th	12
May ...	54.6	50.1	72	5.9	40.0	26.0 on 10th	4
June ...	61.5	56.1	70	4.9	45.8	33.0 on 3rd	0
July ...	61.5	57.3	76	6.5	49.6	37.0 on 1st	0
August ...	64.2	59.7	76	5.2	51.9	36.0 on 31st	0
September ...	60.6	56.8	78	5.1	45.0	32.0 on 16th	0
October ...	54.8	52.0	81	6.1	42.7	32.0 on 31st	0
November ...	51.2	49.4	87	6.7	41.4	24.0 27th,29th	6
December ...	43.5	41.5	82	5.9	33.2	18.0 on 21st	13
Means ...	53.6	50.0	76	5.6	40.7	18.0 on Dec. 21st	60
1937 ...	53.3	49.7	77	6.0	40.6	17.0 on Dec. 6th	57

PAIGNTON—1938.

OBSERVATIONS OF WIND FORCES.

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

Force 8 or more indicates gale, or strong gale; 6—7 strong to high wind; 4—5 moderate to fresh breeze; 1—3 light to gentle breeze.

Month.	Calm.	Force 1-3.	Force 4-5.	Force 6-7	Force 8 or more.	Total Observations.	Gale force observed at other hours.	Mean force.	Prevailing Winds.
January ...	0	12	43	7	0	62	6	4.0	W., W.S.W., S.W. & W.N.W.
February ...	0	8	40	8	0	56	1	4.3	W., N. to E. & W.S.W.
March ...	1	21	40	0	0	62	0	3.3	W.S.W., W., W.N.W. & E.
April ...	0	15	45	0	0	60	0	3.8	N.E., E.N.E., E. & N.W.
May ...	0	10	51	1	0	62	0	4.0	N.E. by S. to W.S.W.
June ...	0	11	46	3	0	60	3	4.1	W.S.W., S.W. to W.N.W.
July ...	0	19	39	4	0	62	1	3.9	W.S.W., S.W. & W.
August ...	0	21	41	0	0	62	0	3.6	W.S.W., S.E., W. & N.
September ...	0	23	37	0	0	60	0	3.5	S.E., S.W., N.W., N., S. & W.S.W.
October ...	0	20	39	3	0	62	2	3.8	W.S.W. & W.
November ...	0	15	43	2	0	60	2	3.9	W.S.W. & S.W.
December ...	0	15	39	6	2	62	2	4.1	W.S.W., W. & S.
Year ...	1	190	503	34	2	730	17	3.9	W.S.W., S.W. & W.
1937 ...	4	220	484	22	0	730	6	3.7	W.S.W., W.N.W., S.W., N.W., W., N.N.W. & S.E.

PAIGNTON—1938.

OBSERVATIONS OF CLOUD AMOUNTS 0 to 10

Taken daily at 9 a.m. and 5 p.m. G.M.T.

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 " O " denotes clear sky ; " 10 " overcast sky

Month.	0	1 to 3	4 to 6	7 to 9	10	Number of Observations
January	1	12	9	22	18	62
February	3	9	15	16	13	56
March	10	19	15	14	4	62
April	19	17	10	13	1	60
May	6	13	11	18	14	62
June	6	17	17	13	7	60
July	1	14	14	19	14	62
August...	0	25	17	10	10	62
September	5	17	11	22	5	60
October	0	17	14	15	16	62
November	1	13	12	16	18	60
December	0	19	15	13	15	62
YEAR	52	192	160	191	135	730
1937 ...	44	185	132	170	199	730

PAIGNTON—1938

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

Month	Days of Frost.	Hail.	Snow or Sleet.	Thunder and Lightning	Fog.	Range of Visibility.	Duration of Fog
January ...	6	0	0	0	1	Good	Very short
February ...	9	1	1	0	0	Good	Nil.
March ...	10	0	0	0	3	M'nly G. or V.G.	Short, except on 5th, dense fog 7 to 9 p.m.
April ...	12	0	0	0	0	Good or V.G.	Nil
May ...	4	0	0	0	0	Good or V.G.	Nil
June ...	0	0	0	0	0	Very good	Nil
July ...	0	0	0	2	0	Very good	Nil.
August ...	0	0	0	3	0	Very good.	Nil.
September ...	0	0	0	0	1	Good	Very short.
October ...	0	2	0	0	0	Good	Nil
November ...	6	3	0	1	0	Good	Nil
December ...	13	0	4	0	0	Good	Nil
Year ...	60	6	5	6	5		
1937 ...	57	12	12	12	14		

PAIGNTON, (VICTORIA PARK AND QUEEN'S PARK) STATISTICS FOR THE YEAR 1938

SUN RECORDER, 42ft. above ground — HEIGHT OD., 12ft.

	Rainfall.				Temperature in Screen.								Sunshine	
	Total Depth.	Greatest fall in 24 hours.		Wet days. .01 or more.	Means.				Extremes.		Humidity 9 a.m. G.M.T.	Cloud 9 a.m. G.M.T.	Total Duration	Sunless Days.
		Depth	Date		Temperature at 9 am. G.M.T.	Minima.	Maxima.	Mean.	Minimum.	Maximum.				
Month.	Incs.	Incs.			Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Per cent.	0–10	Hours.	
January ...	5.29	0.86	14th	21	45.0	40.4	49.9	45.2	33.0	55.0	83	6.9	52.3	10
February ...	1.26	0.46	25th	7	42.6	38.3	47.8	43.0	32.0	55.0	78	6.3	70.6	10
March ...	0.09	0.06	24th	3	47.9	41.4	55.6	48.5	27.0	61.0	77	4.5	169.2	0
April ...	0.12	0.12	23rd	1	48.6	40.3	56.1	48.2	32.0	63.0	65	3.5	232.6	0
May ...	2.47	0.57	26th	15	53.1	45.7	58.6	52.2	36.0	70.0	75	6.3	163.8	4
June ...	0.94	0.39	1st	9	59.7	51.6	65.9	58.7	44.0	73.0	73	5.0	235.5	0
July ...	3.54	1.37	6th	14	60.5	53.4	65.9	59.7	45.0	71.0	78	6.8	163.6	1
August ...	6.77	3.63	3rd	11	62.6	55.1	68.6	61.9	42.0	76.0	81	5.6	193.1	3
September ...	1.20	0.45	19th	12	59.2	51.2	65.8	58.5	41.0	77.0	81	5.6	163.1	0
October ...	4.14	0.67	3rd	20	54.2	48.0	58.9	53.5	40.0	64.0	85	6.4	107.8	5
November ...	7.38	1.92	25th	20	50.6	45.9	55.9	50.9	32.0	62.0	87	6.5	60.3	10
December ...	4.08	0.92	13th	20	42.8	38.0	47.8	42.9	22.0	56.0	83	5.8	47.3	13
Year ...	37.28	3.63	Aug. 3rd	153	52.2	45.8	58.1	51.9	22.0	77.0	79	5.8	1659.2	56
1937	44.13	1.25	Aug. 12th	175	52.1	45.5	57.7	51.6	26.0	78.0	80	6.1	1594.6	67

PAIGNTON—1938.

MONTHLY MEANS FOR TWENTY-EIGHT YEARS—1910-1937 inclusive

Month.	Temperature of Air.				Humidity per cent.	Sunshine.		Cloud amount 0-10	Rainfall.		Temperature of air (dry bulb)
	Maximum	Minimum	Mean daily range.	Mean.		Days it shone.	Total Hours and Tenths.		Days it fell.	Total Inches	
	°F	°F	°F	°F							°F
January ...	48.4	38.0	10.4	43.2	83	19	57.3	6.8	21	4.35	44.0
February ...	48.0	37.8	10.2	42.9	81	20	75.5	6.7	17	3.57	44.2
March ...	50.1	38.0	12.1	44.1	77	26	128.3	6.0	18	3.10	46.0
April ...	54.1	41.2	12.9	47.6	72	27	171.7	5.8	16	2.44	50.0
May ...	60.5	46.9	13.6	53.7	72	29	206.4	5.2	14	1.99	56.2
June ...	65.4	51.2	14.2	58.3	71	28	227.8	5.2	12	1.84	60.8
July ...	68.6	54.9	13.7	61.8	72	29	214.8	5.7	14	2.16	64.3
August ...	68.1	54.5	13.6	61.3	74	29	202.9	5.6	15	2.70	63.8
September ...	64.8	51.2	13.6	58.0	77	27	153.6	5.7	14	2.63	60.0
October ...	58.2	46.8	11.4	52.5	79	26	114.2	6.0	18	3.78	54.1
November ...	51.6	40.3	11.3	45.9	82	21	73.0	6.3	18	4.35	46.9
December ...	49.1	39.3	9.8	44.2	83	20	54.3	6.5	20	5.41	44.5
Whole Year...	57.2	45.0	12.2	51.1	77	301	1679.8	6.0	197	38.32	52.9

PAIGNTON—SEA TEMPERATURE, 1938.

Taken 90 yards from the shore.

Month	Highest Temperature	Date	Lowest Temperature	Date	Number of Observations.	Mean Temperature	Difference from average of 10yrs	Extreme range of Temp
	°F.		°F.		°F	°F.	°F	°F
January ...	48.0	17th, 20th & 22nd.	44.0	4th.	11	46.1	—0.8	4.0
February ...	48.0	6th & 10th.	42.0	19th & 23rd.	10	44.9	—0.2	6.0
March ...	50.0	25th.	44.0	6th.	13	46.6	+1.2	6.0
April ...	50.0	12, 15, 22, 24, 27 & 30	48.0	2nd, 4th & 6th	11	49.3	+0.9	2.0
May ...	55.0	23rd.	50.0	3rd & 6th.	10	52.2	—0.5	5.0
June ...	58.0	22nd & 24th.	52.0	2nd.	13	55.5	—2.4	6.0
July ...	62.0	24th.	56.0	1st, 3rd, 6th, 11th.	13	57.8	—2.9	6.0
August ...	64.0	8th & 12th.	60.0	1, 2, 20, 23 & 30—	15	61.6	—0.5	4.0
September ...	61.0	12th & 13th.	58.0	9th.	8	59.9	—1.5	3.0
October ...	59.0	3rd.	54.0	27th & 30th.	8	56.0	—0.9	5.0
November ...	56.0	14th.	52.0	20th, 22nd, 24th	8	53.9	+1.5	4.0
December ...	52.0	4th.	44.0	28th & 31st.	8	46.0	—2.6	8.0
Whole Year ...	64.0	August 8th & 12th.	42.0	Feb. 19th & 23rd.	128	52.5	—0.7	Dec. 8.0
1937 ...	65.0	August 12th.	44.0	December 12th.	133	54.2	+1.1	Nov. 6.0

METEOROLOGICAL ABSTRACT, PAIGNTON, 1938.

	1938.	1937.
Highest Shade Temperature	77.0°F	78.0°F
Lowest Shade Temperature	22.0°F	26.0°F
Mean Maximum Temperature	58.1°F	57.7°F
Mean Minimum Temperature	45.8°F	45.5°F
Mean Temperature	51.9°F	51.6°F
Mean Range of Temperature	12.3°F	12.2°F
Mean Dry Bulb Temperature	53.6°F	53.3°F
Total Rainfall	37.28 inches	44.13 inches
Hours of Bright Sunshine	1659.2 hours	1594.6 hours
Sunny Days	309	298
Mean Humidity (Percentage of possible 100)	76 per cent.	77 per cent.
Prevailing Winds	W.S.W., S.W. & W.	W.S.W., W.N.W., S.W., N.W., W., N.N.W., & S.E.