[Report 1898] / Medical Officer of Health, Royal Learnington Spa Borough.

Contributors

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ROYAL LEAMINGTON SPA.

Urban Hanitary District.



ANNUAL REPORT

OF THE

Medical Officer of Bealth,

1898.

Leamington Spa:

PRINTED AT THE "COURIER" WORKS, CHURCH WALK.

HEALTH COMMITTEE.

COUNCILLOR MOLESWORTH (CHAIRMAN).

THE MAYOR.

ALDERMAN BRIGHT.

THURSFIELD.

" WACKRILL.

COUNCILLOR BAILEY.

BAKER.

" JEAFFRESON.

, MASON.

., REEVE.

" SMITH.

,, WENCH.

ACREAGE		•••						2,760
POPULATION	(Census	1891)						26,930
"	Estimated	d to mid	ldle of	1898				27,420
"	Estimated	d to mic	ldle of	1899				27,520
"	Per squa	re mile	.4					6,280
Town Sewage, p	umped to	Heatho	cote Fa	rm.				
Town Refuse, di	sposed of	on lan	d.					
Height above Se	a level							195 feet
Geological Form	ation					New F	ted Sa	ndstone
Water Supply—A	Artesian W	ells on	Campi	on Hill	l, and	l at Lill	lington	
Respective depth	s of Wells				1	10 feet	and	70 feet
River Water is us	sed for Wa	tering S	Streets	and Fl	ushin	g Sewer	rs.	

SANITARY REPORT

OF THE

Boyough of Royal Teamington Spa,

FOR THE YEAR 1898.

Town Hall, Leamington, 11TH February, 1899.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

According to your requirements, and the instructions of the Local Government Board, I beg to submit my Annual Report on the Sanitary state of your Borough for the year 1898, together with an account of the steps taken to prevent the spread of disease, and maintain the well-being of the inhabitants.

Vital Statistics.

BIRTHS.

523 births (261 males, 262 females) took place, giving a birth-rate of 19.07, a fraction under last year's figures. Tables I. and II. show Births by Wards and Quarters.

TABLE I.

WARDS.	BIRTHS.	BIRTH RATE.	ESTIMATED POPULATION, 1898.
North-East South-East West Milverton & Lillington	139 214 128 42	17·42 24·94 16·90 10·90	7,403 8,579 7,573 3,865
	523		27,420

TABLE II.

QUARTERS.	MALES.	FEMALES.	TOTALS.	BIRTH RATE.
1st 2nd 3rd 4th	65 65 73 58	71 64 70 57	136 129 143 115	19·8 18·8 20·8 16·7
Totals	261	262	523	

DEATHS.

There were 453 deaths (204 males, 249 females). On making correction for 21 Leamington inhabitants who died outside the Borough, and for 50 persons who died in Leamington, not inhabitants thereof, the death-rate will be found to be 15.4 per thousand. Table III. gives total Deaths by Quarters.

TABLE III.

Mortality.

TOTAL MORTALITY BY QUARTERS.

			Тота	Mort	ALITY.				· ·		
QUARTERS.	Under 1 year.	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards.	Totals.	DEATH RATE.
1st	19	9	3	7	42	46	126				18.0
2nd	13	12	5	1	39	35	105	3	2	5	15.3
3rd	32	6	6	4	34	47	129	13		13	18.8
4th	12	5	2	6	38	30	93	4	1	5	13.5
Totals	76	32	16	18 .	153	158	453	20	3	23	

The mortality in first and third quarters was much above average. Epidemic Influenza and Pneumonia account for the high figures in first quarter. In March 50 deaths took place; one-half of those who succumbed were over 65 years.

In third quarter there was a marked rise in mortality under five years. This might be expected in a hot, dry season. Convulsions, diarrhœa, and premature births show a marked increase this year. The causes are, in my opinion, of a social nature.

Deaths under one year give a proportionate infantile death-rate of 145.3 per thousand births.

33 children who died under 5 years of age were insured. I notice that such numbers gradually increase each year.

Causes of Deaths under 5 Years.

					3				
Debility from	Birth								13
Bronchitis and	Pneum	onia							24
Convulsions									15
Dentition		***							3
Tuberculosis, in	ncluding	Phthi:	sis, Tal	oes Mes	enteric	a, and	Cubercu	ılar	
Meningitis									2
Diarrhœa		***							13
Premature Birt	h								14
Marasmus									9
Injuries									3
Laryingitis									1
Influenza									I
Measles									I
Diphtheria									4
Syphilis									I
Membranous C	roup								I
Peritonitis									I
Scarlatina									I
Enteritis					***				I
									108
	- market - m	1	ZYMOTI	C DEAT	THS.				100
Scarlet Fever									3
Diphtheria									5
Membranous C	roup								1
Erysipelas									1
Measles				***		***			2
Diarrhœa									13

Showing a Zymotic death-rate of o · 9, double last year's numbers. Of course, but for the increase in Diarrhœa, many of which cases, I have no doubt, were not of Zymotic origin, this death-rate would have remained a very low one. From enquiries of medical men working among the poorer classes, I think that the outbreak of Diarrhœa in August was due to the extremely hot and dry season, and consequent fermentation in foods. The decrease, too, in the desire of mothers to suckle their infants is an important factor in such outbreaks. The majority of the sufferers are hand-fed.

DISEASES.

Small Pox.

This was not reported during the year. Fortunately, Leamington has been hitherto a well-vaccinated Borough, and Small Pox has had no fears for us, as shown by the manner in which the disease, when introduced from Birmingham in 1894, was at once stamped out.

Now, however, in consequence of the new Vaccination Act, parents delay the vaccination of their children. At the end of December, 1898, about 300 children in Leamington remained unvaccinated. I am informed on good authority that fully 80 per cent. or more of these will be submitted to the Public Vaccinator later on. I understand that only two persons got the benefit of the Conscience Clause during the year.

The public must remember that the Navy, Army, Post Office, Prison, and like Government Services, do not admit unvaccinated candidates. Again, in many foreign countries an unvaccinated person may not put foot.

In my opinion, large employers of indoor labour should be chary of having "unprotected persons" on their premises.

I hope that Leamington will still retain her high place as the best vaccinated Health Resort in England.

Scarlet Fever (Scarlatina).

Wards. Naturally, Milverton Ward suffered least.

The disease was not of severe type: hence all the more difficult to tackle. Mild cases escape notice, and so the cases kept on cropping up. I had not occasion to ask for the closure of any school. Only one death was reported to me, in North-East Ward, and two deaths occurred in Heathcote Hospital, outside the Borough.

Diphtheria.

Borough, 2 outside. Seven cases were due to insanitary premises, and 4 cases were introduced from a distance. The remainder could not be traced.

Measles.

In March, Measles appeared in the South-East Ward, and spread so rapidly that, on finding that exclusion from school of individuals and families did not arrest its progress, I advised that the entire Infant Department of Clapham Terrace School should be closed from 28th March to 9th May, by which time the outbreak was gone.

On 27th May the Infant Schools of St. Peter's Roman Catholic Church had to be closed for one month, for an outbreak of Measles. I cannot say if these two outbreaks were connected, most probably they were. As in every such outbreak I found it impossible to check the disease by closing the Day Schools and allowing the Sunday Schools to remain open, I had the latter also closed. I had no difficulty in obtaining the co-operation of all classes of the clergy for this purpose, and our united efforts were successful.

2 deaths were reported in the South-East Ward.

Typhoid (Enteric Fever).

13 cases were reported, principally in the South-East and West Wards. Of these, 5 were imported from a distance, and, in my opinion, 4 were due to contaminated milk, and 4 were doubtful cases, and may be disregarded.

The cases supposed to be due to milk were in different parts of the Borough, and all supplied by the same dairy. When certain prohibitions had been made, and the dairyman warned that his milk was suspected, no fresh case occurred.

No death was reported.

I suppose it is almost useless for me to recommend boiling or sterilising of all milk before use, but I see no other way of guarding against such occasional contamination, until the milk traffic is under State control, as in some Continental countries.

Most housewives think it too much trouble to perform this simple process of boiling, though they may be well aware of the risk of neglecting so to do.

A still further protection against Enteric Fever would be to boil all drinking water. In the best regulated water supply there may be a weak spot, such as in an "intermittent" system. Boiling of the water would obviate any such risk.

Erysipelas.

26 cases occurred. Of these 17 were of climatic origin, and 6 were chronic cases, reported over and over again. One of the latter died; the remaining cases could not be accounted for. No insanitary premises were found in any case.

General Sanitary Work-Improvements and Suggestions.

During the year I have, to the best of my ability, carried out the instructions of your Committee, and also the instructions of the Local Government Board, and I think that the results show that Leamington still holds a high place on the score of good health. The aged, of whom we have a large proportion, must die, in whatever town they may be situated. The increase in deaths under 5 years was not due to preventable causes. We hope we shall not see again such a long, hot, and dry summer as last.

At the end of the year only one case of Zymotic disease remained under treatment in the Borough, a case of Typhoid.

The new well at Lillington is very satisfactory. The yield is 430,000 gallons in twenty-four hours. The engine room is in course of completion.

A sewer ventilator gas column was fixed at the top of Church Hill, thus ventilating the sewers of Warwick New Road, Milverton Terrace, and Church Hill, at their junction at this point. This has proved a success.

12-inch pipe drains have been laid in Lillington Road; and also to replace culverts in Rosefield Terrace, and from Radford Road to St. Mary's Road. Also in Packington Place, and a 6-inch drain at back of Clemens Street. The latter was formerly swarming with rats.

The large surface water drains in Bath Street were cleaned out and relaid.

The Mortuary is now an accomplished fact, and is well lighted, ventilated, and supplied with water. I personally supervised the entire work, and am pleased to note that the expenses incurred were not great.

For years past I have advocated having a Disinfecting Chamber for the sole use of the Borough. The present system of sending to Heathcote Hospital may easily break down under the strain of an epidemic, and for this we ought to be prepared. I trust that we shall have a Disinfector in use before my next Annual Report.

The Pump Room Baths have been for some time exercising the minds of a specially appointed Sub-Committee, and, as a result, the Baths are now in process of such alteration as will bring them up-to-date in every detail, and make them equal to those in other health resorts in England. In July your Committee made arrangements with the Council of Mason College, Birmingham, for the more complete diagnosis of cases of Diphtheria and Enteric Fever, by means of Bacteriological examination. I issued to my medical brethren in the town a printed form to that effect, instructing them how to apply for the necessary apparatus, and forward the same after use to the College for examination. Four cases of Diphtheria were reported upon, and three were confirmed in diagnosis. This system ought to prove a great boon to the Borough.

Table IX.—Mr. Anderson's report shows what an amazing variety of sanitary work was carried out by the Department. The officials, one and all, have had a most trying year, and the pressure of work was often as much as the Department could bear.

The regulations under the Contagious Diseases (Animals) Act, 1886, and Dairies, Cowsheds, and Milkshops Order of 1885, were adopted, and came into force on the 25th July, 1898. There are 90 dairies and milkshops and 16 cowsheds in the Borough. Mr. Anderson was appointed Inspector to carry out these regulations, and numerous alterations have been made in ventilation, lighting, paving, and drainage of cowsheds. Water supply has received marked attention, and a proper register is kept.

Under the Factory and Workshops Act 43 orders were carried out to the satisfaction of H. M. Inspector of Factories.

Under the Food and Drugs Act 27 samples were taken, and two prosecutions for impure milk obtained conviction of the offenders.

208 drain tests were applied.

One Magisterial Order was made for the destruction of food unfit for use, and considerable quantities of meat, fish, and poultry were voluntarily given up for destruction during the hot season.

The offensive trades, such as tripe dressing and gut scraping, have now been put under proper control, and, as a very gratifying result, scarcely any offal is now found at the sewage tank.

One prosecution took place, and conviction followed, for using an unlicensed slaughter house.

Four polluted wells were closed.

Meteorology.

Mr. Barnitt, as has been his custom for many years, has furnished me with the Meteorological Report (No. XII.)

The figures will repay careful study, and we are indebted to Mr. Barnitt for his expenditure of time and trouble in producing his observations.

He remarks: "The rainfall is below the average by about one-fourth, and the number of rainy days is correspondingly low. From the 30th August to the 27th September rain was recorded on one day only. The amount—·011 inch. Mean temperature—is 2° above the average. Highest temperature was on the 8th September—89·5 Faht.; the lowest on the 21st February—24·2 Faht. Humidity is normal."

It only now remains for me to thank the Chairman and your Committee for their courtesy and ready help in carrying out my duties. To Dr. Rice I owe a strong debt of gratitude for his able assistance at all times, more especially in acting for me during any absence on leave.

I am, Gentlemen,

Your obedient Servant,

SAMUEL BROWNE, M.D., D.P.H.,

Medical Officer of Health.



TABLE IV.

NORTH-EAST WARD.

Estimated Population—7402.

Death Rate—16.4.

			TOTAL	Mort	ALITY.			ZYMOTIC DEATHS.						
QUARTERS.	Under 1 year.	1 year and under 5.	Under 5 years.	5 years and upwards.	Totals.									
1st	6	4	1		11	12	34							
2nd	4	3	2		7	9	25	1	1	2				
3rd	15.		2	2	8	8	35	8		. 8				
4th	4	1	1	2	12	8	28	1	1	2				
								-						
Totals	29	8	6	4	38	37	122	10	2	12				

TABLE V.

SOUTH-EAST WARD.

Estimated Population—8579.

Death Rate—15·1.

			TOTAL	Mort	ALITY,			ZYMOTIC DEATHS.							
QUARTERS.	Under 1 year.	1 year and under 5.	5 years and under 15.	Totals.	Under 5 years.	5 years and upwards.	Totals.								
1st	6	2	1	1	8	16	34								
2nd	5	7	1		9	9	31	2	1	3					
3rd	14	3			9	11	37	3		3					
4th	3	3		1	11	10	28	3		3					
Totals					0=		100								
Totals	28	15	2	2	37	45	130	8	1	9					

TABLE VI.

WEST WARD.

Estimated Population -7568.

Death Rate-11.7.

			TOTAL	Mort	ALITY.		20	ZYMOTIC DEATHS.						
QUARTERS.	Under 1 year.	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards.	Totals.				
1st	7		1	1	7	11	27							
2nd	2	1			10	8	21							
3rd	3	1	1		4	15	24	1		1				
4th	5				6	6	17							
Totals	17	2	2	1	27	40	89	1		1				

TABLE VII.

MILVERTON AND LILLINGTON WARD.

Estimated Population—3871.

Death Rate—11.8.

			TOTAL		ZYMOTIC DEATHS.						
QUARTERS.	Under 1 year.	1 year and under 5.	5 years and under 15,	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards.	Totals.	
1st		2		1	7	6	16				
2nd					3	7	10				
3rd		1		2	3	8	14				
4th					4	2	6				
	-										
Totals		3		3	17	23	46				

TABLE VIII.

WARNEFORD HOSPITAL AND HOME FOR INCURABLES. RIVER AND CANAL.

,											
				TOTAL	Mora	FALITY			ZYMO	TIC DE	ATHS.
Warneford Hospital.	QUARTERS.	Under 1 year.	1 year and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 65.	65 years and upwards.	Totals.	Under 5 years.	5 years and upwards.	Totals.
ford	1st		1		4	8	2	15			
rrne	2nd		1	2	1	7	2	13			
8	3rd		1	2		9	4	16	1		1
	4th		1	1	2	3	2	9			
	Totals		4	5	7	27	10	53	1		1
Home for Incurables.	QUARTERS.										
Incur	1st					1		1			
Por	2nd					1		1			
me	3rd										
Hol	4th					1	2	3			
G	rand Totals					3	2	5			
	QUARTERS.										
Canal.	1st			,							
	2nd	2				2		4			
and	3rd			1		1	1	3			
River and	4th					1		1			
	Totals	2		1		4	1	8			

15

ANDERSON, SANITARY INSPECTOR

K.

TABLE X.

Table of Deaths during the Year 1898, in the Royal Leamington Spa Urban Sanitary District.

Classified according to DISEASES, AGES, and LOCALITIES.

	61		TOTAL.	37	8	43	82	120	500	43	+	A.	: 10	01	9	108	345	
	21		All other Diseases.	19	57	55	45	219	90	65	01 5	0.1	: 4	:	:		526	
-	90		səirujal	1:	:	-	:	:	: :	:	:	#	: :	C3	9	00	10	1
DREN	19			:	:	:	:	:	: :	:	:	:	: :	:	:	1:	:	1
CHILDREN	18	.988	Heart Dise	1:	10	::	10	: 4		00	:0	2	: :	:	:	1 :	88	1
DEATHS OF (17	, B	Bronchiti Pneumoni and Pleuri	00	6	6	14	9 67	1	9		+	: :	:	:	25	46	-
EAT	16		Phthisis	1	-	:	xo	:00	:	03	:-	4	-	:	:	:	61	1
	15	0	Rheumati Fever.	1 :	:	:	:	:	: :	:	:	:		:	:	:	:	-
ISHING F AGE.	14	٧. ا	Dysenter:	00	:	+		:	: :	:	-	:	: :	:	:	13	:	-
NGUIS RS OF	13		Whooping Cough.	1:	:	:	;	:	: :	:	:	:	: :	:	:	1:	:	1
DISTINGUISHING YEARS OF AGE.	62	1	Measles.	:	:	٦.	-	:	: :	:	:	:	: :	:	:	-	-	1
	Ξ	·s	Erysipela	1	-	:	:	;	: :	:	:	: :	: :	:	:	1:	-	-
CAUS	10		Сројега.	:	:	:	:	:	: :	:	:	: -	: :	:	:	:	:	STREET, SQUARE,
MORTALITY FROM SUBJOINED CAUSES, UNDER FIVE	6		Раетрета1.	:		:		: :		:	:	: :	:	:	:	:	:	-
Broi	00	oó.	Relapsing.	:	:	:	:	: :	: :	:	:	: :	:	:	:	:	:	-
M SU	1-	FRVERS.	Continued.	:	:	:	:	: :	:	:	:		:	:	:	:	:	-
FRO	9	FF	Enteric or Typhoid.	:	:	:	:	: :	:	:	:	: :	:	:	:	:	:	
LITY	50		Typhus.	:		:	:	: :	:	:	:	: :	:	:	:	:	:	
RTA	4	sno	Membrane Croup.	-	:	:	:	: :	:	:	:	: :	:	:	:	-	:	
Me	00		Diphther	:	- 0	0	: -	- :	:	:	:	: :	:		:	4	-	İ
	01	ъ.	Scarlatin	-	:	:	:	: :	:	:	:	: :	:	:	:	-	:	١
	-	.X	Smallpo	:	:	:	:	: :	:	:	:		:	:	:	:	:	١
				Under 5	o upwards	Under 5	o upwards	5 upwards	Under 5	5 upwards	Under 5	Under 5	5 upwards	Under 5	5 upwards	Under 5	5 upwards	NAME AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY.
BS,	'sp	rawq	n pur ç9	1	37	40	97	40		65	10	2	63	-	-		601	l
CAUS RS.	.65.	nder	m pur çz	0	200	010	10	27		17	26	i	00		4	-	55	
ALL b AG	.55.	nder	m bas dl		4	c	1	-		00	1		:		:		17	-
ROM	.61	nder	и рив с		9	c	4	C1		:	NC.		:		-		91	-
FALITY FROM ALL CA AT SUBJOINED ÅGES.	.d	n pus I		00	10	CT	CI		00	4		::		:	1	27	-	
MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES.	r.	8	3	86	9	17		:			:		23	1	9/	1		
Mon		9	77.	190	100	68		46	50		5	(00	0	493	1		
	or Locali- lopted for the	as separate		North-East Ward	South-Fost Word		ard		Milverton & Lillington	Warneford Hospital	···· Tooland	Home for Incurables		nd Canal		Totals		
	NAMES OF TIES adopted purpose of	shown a localities.	Nouth D	T-UZION	South-F	-manace	West Ward		Milvert	Warnefo		Home fo		Kiver and Cana				

The subjoined numbers have also to be taken into account in judging of the above records of mortality.

	-	20	5	45
	:	13	4	27 45
	:	:	:	00
	:	:	:	:
	:	00	;	55
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	:	-	:	9
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	:	6	:	10
	1	00	:	25 10
	:	:	:	-
	:	9	:	63
	:	-	:	3
	:	:	:	0.1
	:	21	:	20
	Deaths occurring	mong persons be-	Deaths occurring	mong persons not elonging thereto.
1	0	2	=	g A

TABLE XI.

Table of POPULATION, BIRTHS, and of NEW CASES OF INFECTIOUS SICKNESS, coming to the knowledge of the Medical Officer of Health, during the year 1898, in the Royal Leamington Spa Urban Sanitary District; classified according to Diseases, Ages, and Localities.

	New Cases of Sickness in each Locality, coming to the knowledge of the Medical Officer of Health.	13			!!	::	::	::	11	::	1 ::
		12			::	::	::	::	11	11	1 ::
		=		Erysipelas	::	: :	: :	::	::	::	1 ::
		10		Cholera.	::	: :	: :	::	::	::	1::
		6		Puerperal.	1::	: :	: :	::	::	::	::
		00	8	Relapsing.	1::	::	::	::	::	::	1::
		1	FRVERS.	Continued.	1::	: :	::	::	::	::	1::
		9	Fr	Enteric or Typhoid.	::	::	::	::	::	::	::
		2		Typhus.	::	::	::	::	::	::	1::
		4	- 81	Membranou Croup.	::	::	::	::	::	1:	1:
		00	1	Diphtheri	:00	::	: :	::	::	::	:00
		C1		Scarlatina	4 2	21	13	0 4	::	::	815
		1		xodlisms	1:	::	::	::	::	11	::
		13			::	::	::	::	::	: :	11
		12			::	::	::	::	::	::	::
0		==	.8	Erysipelas	:1-	:01	:1-	:01	11	::	:8
		10		Cholera.	::	: :	::	::	::	::	111
		6		Puerperal.	::	:-	::	::	::	::	:-
		00		Relapsing.	::	::	::	::	::	::	::
0		1-	FRVERS.	Continued.	1:	::	::	::	::	::	111
		9	FR	Enteric or Typhoid.	:-	:10	: 2	:-	:-	::	:23
		5		Typhus.	::	::	::	::	::	::	::
		4	sn	Membrano Croup.	- :	::	::	::	::	::	-:
		60		Diphtheria	010	4 9	:-	::	::	::	13.6
	w Ce	C1	"	Scarlatina	82	212	15	t-00	::	::	55.53
	Ne	-	.3	gmallpox	::	::	: :	::	::	::	11
		Under 5 139 5 upwards	214 5 upwards	Under 5 128 5 upwards	Under 5 42 5 upwards	Under 5 5 upwards	Under 5 5 upwards	Under 5 523 5 upwards			
1	.8	Birth	per	Registe	139	214	128	4			523
					7402	8579	7568	3871			27420
	POPULATION AT		'sns	Last Cen	7248	8422	7454	3806	:		26930
	NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.				North-East Ward	South-East Ward	West Ward	Milverton & Lillington	Warneford Hospital	Home for Incurables	Totals 26930 27420
1.		200			133.7		1,6			O PARTY AND	900080

TABLE XII.

METEROLOGY OF LEAMINGTON, 1898.

Abstract of Meteorological Observations taken at 86, The Parade, during 1898, by J. BARNITT.

Latitude 52deg. 18 N. Longitude 1deg. 30 W. Height above the sea level, 195 feet.

The Instruments have been verified at Kew and Greenwich, and the necessary corrections have been applied for index error, capillary action, temperature, and diurnal range.

	-		-	-	_	-	_	-	_	_	_	_	_		 _		-
	Rainfall.	Number of Days.		7	13	212	21	13	5	12	4	16	10	=	136	11.5	
		Total Fall.		Inches.	1.012	1.551	3-270	.825	086-	3.116	.507	2.520	1.782	1.574	18.688	1.557	-
	Relative Humidity. 9 a.m.		°/° 85°	84	12	78	78	71	76	73	85	98	84	958	80		
	AIR TEMPERATURE.	Absolute Maximum and Minimum.	Date.	4th	21st	Joth 5th	13th -	15th	30th	7th	26th	13th	23rd	31st			
			Minimum.	30-2	24.2	28.1	36-7	37.3	42.9	47.2	36.4	36-1	27.5	29-2			
			Date.	30th	15th	18th 8th	23rd	11th	16th	22nd	8th	3rd	2nd	5th			
			Maximum.	55.9	54-9	9.4.9	0.44	277.8	81.7	6.78	99.5	69-1	60.3	27.5			
-		Means of	Maximum. Minimum.	39-9	95.4	39.68	44.9	49.4	527	22.0	9.19	47.5	40.4	41.5	530-8	44-2	
			Maximum.	48.6	56.4	6.29	60.1	68:3	12.4	73.0	725	28.2	51.4	20.8	7.807	59-1	
		9 a.m.		9.44	40.9	46.7	49.5	67.5	28.0	8.09	8.69	51.9	45.4	46.7	602-1	50-2	
		Mean of Pressure	Inches. 30-272	29-926	29,891	29.837	29-967	30-112	30.003	30.082	29.820	29.816	29-975	359-594	29-966		
	Month.			January	February	April	May	June	July	August	September	October	November	December	Totals	Means	



