[Report 1908] / Medical Officer of Health, Droylsden U.D.C.

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Droylsden (England). Urban District Council.

Publication/Creation

1908

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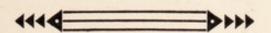
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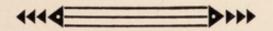
DROYLSDEN URBAN DISTRICT COUNCIL.



Annual Report

OF THE

Medical Officer of Health and Sanitary Inspector, 1908.



DROYLSDEN:

T. H. & W. GREENUP, PRINTERS, 67, MARKET STREET.

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URBAN DISTRICT OF DROYLSDEN.

Area.-1144 acres.

Population.—11,097 (at Census 1901).

Number of Inhabited Houses. - 2447 (at Census 1901). Average number of persons per house—4:53.

Number of Inhabited Houses end of 1908-2844.

Population Estimate to middle of 1908-12,300.

Birth Rate for 1908—28.6 per 1000.

Death Rate for 1908—16.9 per 1000.

TO THE CHAIRMAN AND MEMBERS OF THE COUNCIL.

GENTLEMEN,

I beg to submit to you my first Annual Report as to the health and sanitary condition of the district for the year 1908.

During the year, the deaths of 208 persons (100 males and 108 females) have been registered in your district from all causes, as against 188 registered the previous year. These 208 deaths give a death rate of 16.9 per 1000 of the estimated population.

A reference to table I. will show that this rate is '1 per 1000 below the average of the previous ten years, which was 17 per 1000.

Of the deaths, 62 or 29.8 per cent. were of children under 1 year of age; under 5 years of age, 31 deaths occurred, or 14.9 per cent.; under 15 years there were 4 deaths, or 1.9 per cent.; under 25 years there were 8 deaths, or 3.8 per cent.; under 65 years there were 67 deaths, or 32.2 per cent.; and from 65 years and upwards there were 36 deaths, or 17.3 per cent.

8 males and 12 females died between the ages of 70 years and 80 years, and 1 male and 1 female died between 80 and 90 years of age.

During the year 1908, the births of 354 persons (172 males and 180 females) were registered in the district. The birth rate for the year is therefore 28.6 per 1000. The average birth rate for the previous ten years was 29.7, and thus both birth and death rates are slightly lower than the average for the previous ten years.

The deaths under 1 year, measured in proportion to the recorded births, give a rate per 1000 of 170.4. The average of the previous ten years was 167.9.

Diseases of the respiratory organs, such as bronchitis, pneumonia, and pleurisy, caused 41 deaths, or 19.7 per cent. of the total deaths, as compared with 19.6 per cent. in last year.

All tubercular diseases caused 34 deaths, or 16.3 per cent. of the total number, as compared with 8 per cent. last year. 16 of the deaths were from phthisis. During the previous year, phthisis caused 9 deaths and other tubercular diseases 6 deaths.

Diseases of the zymotic or infectious class caused 17 deaths, namely:—measles 8, whooping cough 7, diphtheria 1, and enteric fever 1. The zymotic death rate was therefore 1.39 per 1000. The average zymotic death rate for the previous 10 years was 1.4 per 1000.

The following table will show the number of deaths from the chief zymotic diseases during the past ten years:—

	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908
Smallpox	0	0	0	0	0	0	2	0	0	0
Measles	8	- 5	2	19	1	9	7	13	5	- 8
Scarlet Fever	0	0	1	0	0	0	0	8	4	0
Whooping Cough	6	7	8	0	2	6	1	1	3	7
Diphtheria	5	2	5	6	- 2	0	4	3	3	1
Enteric Fever	7	1	1	1	0	1	0	2	2	1
	26	15	17	26	5	16	14	27	17	17

During the year, under the infectious disease (notification) acts, 73 cases of infectious diseases were notified, as compared with 92 cases in the year 1907. These cases were as follows:—scarlet fever 47 cases diphtheria 7 cases, erysipelas 8 cases, enteric fever 10 cases, puerperal fever 1 case.

Scarlet fever, which was less prevalent in 1907 than in 1906, was still less so this year, as only 47 cases were notified as compared with 63 in 1907, and this year there were no deaths from the disease. 8 cases of scarlet fever were removed to Hyde infectious diseases hospital.

In the 7 cases notified of diphtheria, 1 death occurred, and 1 case was removed to Hyde hospital.

There were 10 cases of enteric fever notified during the year. I death occurred, and I case was removed to Hyde hospital. Your sanitary inspector and myself visited these cases, and made strict inquiries as to the source of infection, but only in one case could we find any reason, and that was one where the water used for domestic purposes was obtained from a surface well into which pig sewage drained directly. The Council are taking steps to have the well closed and an efficient supply of good water provided for this quarter. In the other 9 cases the sanitary conditions were good.

In my opinion, the Council are well advised in obtaining extra hospital accommodation at Hyde for the ensuing year.

With the chairman and several members of the health committee, the sanitary inspector and myself have visited different parts of the township where nuisances and sanitary defects have been reported. The results of our visits and of notices served are fully shown in the sanitary inspector's report.

Besides the above visits, the sanitary inspector and myself have made systematic visits to other parts of the township, to inquire into their sanitary condition.

The Council have wisely still pursued the course of converting privies into water closets wherever possible, but there still remains a great deal of this to be done, and I would urge on the Council the advisability of pushing this work on. There are still in the district 730 privies and ashpits.

All the factories, workshops, as well as the houses of outworkers, have, as required under the factory and workshops' act, 1901, been regularly supervised. A list of visits, &c. will be found in the appended table.

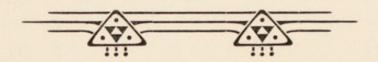
The work of flagging, paving, and sewering of side streets, is still being carried on, and this, I think, tends to the benefit of the public health.

Like my predecessor, I would like to urge upon the Council the necessity of pressing forward the erection of a refuse destructor. The system of tipping refuse is most objectionable; not only being a nuisance to different inhabitants, but, in my opinion, fast becoming a source of danger to the public health.

I am, gentlemen,

Your obedient servant,

A. B. HOUSTOUN,
Medical Officer of Health.



SANITARY INSPECTOR'S REPORT FOR THE YEAR 1908.

GENTLEMEN,

I have pleasure in submitting to you the following report relating to sanitary works and matters in the district, for the year 1908, and have to say that the sanitary conditions continue to shew a steady improvement.

The enquiry by the L. G. B. inspector into the application for sanction to borrow £5300 for a two-cell Refuse Destructor of the Meldrum type, Sludge Pressing House and Machinery, Steam Disinfector, and Men's Rooms and Baths, at the Sewage Works, has been held, and the Council are now anxiously waiting the decision of the Board so that the scheme can be proceeded with at the earliest possible moment.

The extensions and alterations at the Sewage Works are being pushed on with, and owing to unforeseen difficulties, a further application has been made to the L. G. B. for sanction to borrow a further sum to cover the cost of extra works necessitated.

During the year, building plans for 78 new houses, rebuilding 1 public house, 2 alterations to chapels, 1 extension of works, 6 alterations and additions to houses, 1 new shippon, and 1 large stable have been approved.

New houses, to the number of 30, have been approved as fit for human habitation.

A large amount of work has been accomplished in converting old and defective privies and ashpits into w.c.'s and ashboxes, and 63 w.c.'s have been constructed on this account during the year. The whole of the new houses erected have also been supplied with w.c.'s. Many other ashpits which were built below the level of the adjoining ground have been repaired, and the bottoms lifted above the ground level and roofed over to exclude the rain. There are now 811 w.c.'s in the District and about 730 privies and ashpits.

Thirty-nine notices for the abatement of nuisances have been served upon the owners of insanitary properties, and dealt with defective drains, sink wastes and gutters, insanitary privies and ashpits, and the provision of w.c.'s, badly paved back yards and back passages, and the keeping of live stock in back yards. Under these notices, 209 houses were dealt with, and in 4 cases it was found necessary to take legal proceedings.

In 3 cases where notices have been served, the properties have been pulled down, and in another case, which was a small farmstead, the place has been permanently closed. There have also been many petty nuisances remedied, such as:—
draining off stagnant water in open spaces, removal of old mattresses
and other rubbish from places and watercourses, clearing away
accumulations of refuse and decaying matter from behind premises,
stoppage of keeping live stock in unsuitable places, the removal of
sheds and other structures in back yards, the provision of adequate
rainwater spouts and fall pipes to buildings.

The conversion of privies and ashpits into w.c.'s and dustboxes entails upon the Council each year a sum approximately to £200 for the providing of adequate sewers in place of the existing ones, which are in many cases incapable of taking the sewage from w.c.'s. A considerable length of sewers, with the necessary manholes, &c. has for this purpose been constructed during the year.

One new license for the sale of milk has been granted during the year, viz.: at 95, Ashton Hill lane.

The places for the sale of milk in the district now number 30.

Observations of the emission of black smoke from chimneys, other than those of dwelling houses, have been taken regularly, with the result that this class of nuisance is gradually being remedied.

Observations have also been taken of certain chimneys outside the District, but from which the black smoke creates a nuisance in Droylsden, and the firms have been communicated with on the matter when necessary.

The clarification of refuse liquors from the dye works in the District has had the serious consideration of the Council, along with the degree of temperature at which such liquors are allowed to pass into the Council's sewers, and a great improvement has been effected in this matter, and one firm has constructed a large settling tank for the purpose.

The main sewers of the Council have been kept in a fairly clean state, and several improvements made in same so as to facilitate their self cleansing.

The Council have experienced considerable trouble during the year with breakdowns to the Fairfield sewer.

The Mersey and Irwell Rivers Committee have drawn attention to the fact that sewage from the District enters into the Gore Brook and causes pollution. This matter is now having attention and will be remedied.

A similar pollution to the Edge Lane watercourse has been stopped by diverting the drains.

The sewage works have been carefully worked and as good results as could be expected obtained while the alterations and extensions to the works are being carried out.

The whole of the slaughter houses in the District have had constant supervision, and notice has been taken that same have been kept in a thoroughly sanitary condition. No seizures of meat have been made during the year.

Private Street Works have been finished in Bright street and Vance street, and jointly with Audenshaw U. D. C., Williamson lane. Works under this head are proceeding in Bailey street, Alfred street, and Durham street.

Application is about to be made to the L. G. B. for sanction to borrow a large sum to carry out further works in private streets.

Many of the unadopted streets in the District are in a shocking condition.

Several undedicated streets which were in a bad condition have been mended by the owners.

The Council have had the matter of extraordinary traffic in the District before them, but it was not found necessary to take steps against any person.

The highways and secondary roads have had a considerable amount of repairs done to them, but owing to the many openings which the Manchester Gas and Water Departments, &c. have made, do not appear in as good a condition as should be expected.

A long length of the main road has been repaired, and a further long length of granite sett paving substituted for the gritstone paving.

The main road should be paved the whole width and length with granite, and it is proposed to apply to the L. G. B. for sanction to borrow a large sum for this purpose.

Much annoyance has been caused by shopkeepers obstructing the footways with goods, but I am pleased to say that owing to the steps taken by the Council, this has been practically stopped.

A very large amount of money has been spent upon scavenging and watering the roads, which have been kept in a cleanly state. The heavy snowstorms of the year also helped to augment the cost.

The street lighting has been further improved this year by the replacement of the flat flame burners with incandescent lights in the lanterns in most of the side streets, and it is proposed to convert the whole of the remainder of the flat flame burners next year.

The total amount of nightsoil refuse removed was 4141 loads. The available tipping spaces for this refuse is becoming very restricted. The greatest care however is exercised to keep the tips in as sanitary and innocuous condition as possible, men being employed to straighten them up every day, and to cover over the refuse with soil, and it is very necessary that the Refuse Destructor should be erected with the utmost dispatch.

Handbills have been sent round to all householders asking them to burn all animal and vegetable matter as far as possible, instead of depositing same in the ashpits.

The whole of the shippons, slaughter houses, and places selling milk, have had constant and careful superintendence, and no complaints have been found with same.

The premises where infectious diseases have been notified, have as usual, been thoroughly disinfected after recovery or removal of the patients, and during the continuance of the disease. Strict enquiries are, in all cases, made to trace the origin of the trouble, and every precaution taken to hinder the spread of same by complete isolation, the plentiful supply of disinfectants, and the separation of the children in the house, of school age, from their fellow scholars.

Disinfection is by means of formaldehyde, sprayed and vapourized, while izal in liquid and powder is supplied to all applicants.

10 cases were removed to the Hyde Infectious Diseases Hospital.

The L. G. B. Medical Inspector in his report drew attention to the insufficient Hospital accommodation for infectious diseases. This matter has had the Council's serious attention.

All the factories, workshops, and workplaces, as well as the houses of outworkers, have, as required under the factory and workshops act, 1901, been regularly supervised. A list of visits &c. will be found in the appended table IX.

A licence for a bakehouse has been granted during the year.

Application has been applied for to the L. G. B. to allow the Public Health Acts (Amendment Act), 1907, to be adopted.

I am, gentlemen,

Yours obediently,
CHARLES HALL,
Inspector of Nuisances.

TABLE 1.

Vital Statistics of whole District during 1908, and previous Years.

1				Total	Deaths Re		d in the
V	Population estimated to	В	irths		one Year f age	At all Ages	
Year	middle of each year	Number	Rate	Number	Rate per 1000 Births registered	Number	Rate
1	2	3	4	5	6	7	8
1898	10500	302	28:7	54	162	156	14.8
1899	10700	359	33.5	78	217	226	21.1
1900	10900	334	30 6	57	175	198	18.1
1901	11100	316	28.46	48	152	186	16.8
1902	11200	359	32.5	59	164	194	17:3
1903	11500	305	26.5	47	154	169	14:1
1904	11700	341	29.1	66	196.5	224	19:1
1905	11800	344	29.1	53	154	190	16:1
1906	12000	359	29.9	52	145	214	17.8
1907	12200	351	28.7	56	159:5	188	15.4
Averages for years 1898-1907		337	29.7	57	167.9	194	17
1908	12300	352	28.6	60	170 4	208	16.9

TABLE III.

Cases of Infectious Disease notified during the Year 1908

	Cases Notified in Whole District.							
Notifiable Disease.	At all			At Ages	-Year	8		Total Cases
	Ages	Under 1	1 to 5	5 to 15	15 to2f	25 to65		Removed to Hospital
Diphtheria(includ'g Membranous croup)	7		2	3		2		1
Erysipelas	8	2		1		4	1	
Scarlet Fever	47		12	29	5	1		8
Enteric Fever .	10				6	4		1
Puerperal Fever	1				1			
Totals	73	2	14	33	12	11	1	10

TABLE IV.

Causes of, and Ages at Death during the Year 1908.

	Deatl	ns at th	e subjo uring	ined ag	ges of "	Reside	ents,"
Causes of Death	All Ages	Under 1 year		5 and under 15			
1	2	3	4	5	6	7	8
			-				
Measles	8		8		A.		
Whooping-Cough		3	4				
Diphtheria(includ'g							
Membranous croup			1				
Fever-Enteric	1					1	
Epidemic influenza	1					1	
Diarrhœa	11	10			76		1
Enteritis		1	1 3	-			2
Erystpelas		1					
Phthisis Pulmonary Tuberculosis.)	16	1			5	10	1
Other tuberculous	1.0	1			0	10	- 7-3
diseases	18	6	7	3	1	2	P.
Cancer, malignant						-	
diseases			1			4	3
Bronchitis		11	1			11	4
Pneumonia	14	3	3		1	5	2
Alcoholism Cirr-					-		
hosis of liver		9					1
Premature birth Diseases&Accidents	9	9					
of Parturition		1				1	
Heart diseases	20	1			2	13	4
Accidents	2		1	1	-		
Suicides	2 3					3	
All other causes		15	6			16	19
		-			-	-	
		0.0					
All causes	. 208	62	31	4	8	67	36

TABLE V.
Infantile Mortality during the Year 1908.

23211011		LOT LO								
Total Deaths under one year	20	10	6		-	-01:		10	e 9	62
II-12 Months	dime.i			dia			rib I	-		-
stinoM II.01	51	61			_	- 6			-	101
9-10 Months		-	-	-		-				60
sdraoM 8 8						To a miles	-	-		4
7-8 Months		П						1		67
sdraoM 7-8		-			-			-	7	4
s 6 Months	kiner	-						63	-	4
4-5 Months					0.1	Date			111	8
admon & &	1988	67			7					9
siltnolf 6-2		-								1
1-2 Months	-	-		-	G1	-				9
Total under	H. Va		6	107				S1.	- m	18
3-4 Weeks				-						4
2-3 Weeks			-					-		62
I 2 Weeks				_					-	. 23
Under I Week			00	-					1	01
	:	: :	:	: : :	:	: ; :	:	: .	: :	
		00				rica				
	:	riti:	. :	: : :	1	Mesenteri		1 1	: :	
	17 118	nte				les				
		Fincal Diseases:— Diarrhoa, all form Enteritis, Mucc-enteritis, Gastro-ent	:	: : ₌	:			1 :	1 1	
CAUSE OF DEATH.		astı		Injury at Birth Went of Breast-milk, Starvation	8	Tabes				
EA	1 :	:0	:	: : :	m	T	:	: :	1 :	
A	ses	tis,		Sta	ras	is is				
)F	eas.	eri		<u> </u>	Ma	prit in		: :	: :	
	Dis	-m	0.	H I	50	nin ito			AL P.	
SE	ug ug	for	rth	st-1	ilit	Men Per ulo				
IN	Col	ase all	Big	irt	eb	is l	:	00	es.	
C	Common Infectious Diseases : Whoc ping Cough	Diarrhœa, all form Enteritis, Mucc-enteri	Wasting Diseases: Premature Birth	Injury at Birth Want of Breast	Atrophy, Debility, Marasmus Tuberculous Diseases:	Tuberculous Meningitis Tuberculous Peritonitis : T Other Tuberculous Diseases	sa.	Bronchitis	Other Causes	
Minus II	Pije	ha ha	atu	of of	hy	ren Feb	Other Causes: Erysipelas	Brenchitis		
200	000 000	arr	g l	ur	rop	ben	Car	DVI	ner ner	
32,419	MA	EAG:	CPE	AE.	Att	Tul	Er	Ser S	OF	
1-8	по	Tal.	as		qn		the			
	0 4	9 ;	-		F		0			

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TABLE VI. SLAUGHTER HOUSES.

Reg. or Lic ce	r in	Position	Owner.	Occupier	Remarks
1865	-3	New Street, back of Market Street		Jas. Newton	Good state of repair.
1865	4			E. A. Clark	Has been made by covering over part of backyard of house and abuts on the same.
1865	7	1 Greenside Lane	S. Williamson	J. Williamson	House opens into slaughter house.
1904		421-3 Manchester Road	H. Smith	Sam Etchells	This slaughter house is on same premi- ses as one regis- tered in 1865, good state of repair.
1904	13	Albert Street	Droylsden Co-op.	Droylsden Co-op.	This is a model slaughter house and is in substitution of one erected about 1878 on same site.
		Greenside Lane (Farm Fold)	Greave's Trustees	H. Wood	In bad condition should be closed, no record of registra- tion or license.
		Back of Hart St.	Baguley's Trustees	E. Ridgway	No record of registra- tion or license. Good state of repair
1904		Chapel Street, behind No. 170 Market Street	Stopford's Estate	T R Grundy	Council granted license for same Feb 1903. Good state of repair.
		Off Mooreroft St.	W.Torkington	W.Torkington	In substitution of one at other side of Moorcroft St. used formerly No record of registration or license. Good
		108 Market St.	I. Newton	I. Newton	state of repair.
1906		Clock House, Greenside Lane	Hurst's Trust	S Garside	Only occasionally used.
1906		Benny Lane	Hulme's Trust	G. F. Day	Only occasionally used

TABLE VII.-MILK SHOPS.

	Position	Occcupier	Remarks.
9 10	AL TOR A		
	62 Edge Lane	F. Bentley	
orl	136 Edge Lane	W. Liversedge	
ATL	250 Edge Lane	W. Hardy	
4.0	300 Edge Lane	F. Openshaw	
9	197 Edge Lane	R. Haves	
11	000	Mrs. Hope	
	540 Edge Lane	Mrs. Lea	
	41 Edge Lane	Baker & Thompson	
	Fairfield Square	W. Bolton	
	190 Fairfield Road	H. Faulkner	
	123 Fairfield Road	H. Roberts	
	107 Fairfield Road	A. Cunliffe	
	225 Manchester Road	A. Hetherington	
	41 Manchester Road	H. Chapel	
	31 Market Street	Mrs. Morris	- 112
15.00	25 Market Street	Mrs Clarke	
	375 Manchester Road	W. Wharmby	
	14 John Street	W. Taylor	
	1 Mellor Street	W. Mayo	Discontinued selling
	1 Moorside Street	Jos. Belfield	
	48 Market Street	E. P Heap	
	146 Market Street	J. Marshall	
	251 Market Street	J B. Settle	
	1 Greenside Lane	J. Williamson	
4/4	11 Greenside Lane	P. Yates	
100	1 Market Street	B. Charlesworth	
	13 John Street	J. A. Cheetham	
	22 Angola Street	M. Berry	
3	132 Market Street	W. Newton	
03	95 Ashton Hill Lane	Wm. Forrester	
5	A STORE K		
E 11 -			
	Charles and the second		
600	A-12-15-16 had		

TABLE VIII.—SHIPPONS.

Position.	Occupier	Stalls	Cubic feet air space per Cow	Remarks
Lumb	G. F. Day	12	286	
Hoppett Lane	A. Newton	8	465	
Oldham Street	G. Hibbert	12	317	
Dunkirk Street	E. Ridgway	7	518	Construction of the Constr
Greenside Lane	W. Cordon	8	252	
Greenside Lane	H. Snelson	15	693	Council's Property
Greenside Lane	W. Newton	9	383	
		5 4	358 394	- teas must cap to
Greenside Lane	J. H. Headlam	12 6	303 261	
Greenside Lane	W. Day	8	664 302	Council's Property Council's Property
Greenside Lane	S. Williamson	10	351	and three sections (10)
Greenside Lane	J. Potts	19	366	And the state of t
Edge Lane	R. Coates' Exors.	12	440	
Alderdale	G. W. Laughton	26 10 3 8	456 678 352 338	Isolation Stalls
Edge Gate Farm, Edge Lane	G. W. Laughton	4	630	
Christy's Farm	A. Mellor	6 12	756 690	
Sunny Bank	J. Higginbottom	14	525	
Water Lane	R. Cooper	8	416	
15 Yew Street	W. Walker	2	420	
Fairfield Square	W. Bolton	8	790	1000000
Yew Tree Farm	J Jackson	- 3	660	

Table IX.—Factories, Workshops, Laundries, Workplaces and Homework.

1.—INSPECTION.

Including Inspection made by Sanitary Inspectors or Inspectors of Nuisances.

	Number of				
Premises	Inspections	Written Notices.	Prosecutions		
Factories (including Factory Laundries)	83				
Laundries	61				
Workplaces	27				
Homeworker' Premises	6				
Total	177				

2.—DEFECTS FOUND.

	Nui	nber of De	fects	Number of
Particulars	Found	Remedied	Refer'd to H.M. Insp't'r	Prose- cutions
Want of Cleanliness	1	1		
Other Nuisances Sanitary accommodation Sanitary accommodation Sanitary accommodation Sanitary accommodation	2	2		
Offences under the Factory & Workshop Act: Illegal occupation of underground bake- house (s. 101) Breach of special sanitary requirements	1	1		
for bakehouses (ss 97 to 100) Failure as regards list of outworkers (s 107 Giving out work unwholesome (s 108) to be done in	1	1		
premises which are (infected (s. 110) Allowing wearing apparel to be made in premises infected by scarlet fever or				
smallpox (s. 109)	2	1		
Total	7	6		

Table IX. continued—3—OTHER MATTERS.

Lists received	CLASS	Number
Notices prohibiting homework in unwholesome premises (s. 108) Cases of infectious disease notified in home workers' premises Orders prohibiting homework in infected premises (s. 110) Workshops on the Register (s. 131) at the end of the year	Failure to affix Abstract of the Factory and Workshop Act (s. 133	Number of Lists Outworkers 2 10 2 3
Total number of workshops on Register 47	Notices prohibiting homework in unwholesome premises (s. 108) Cases of infectious disease notified in home workers' premises Orders prohibiting homework in infected premises (s. 110) Workshops on the Register (s. 131) at the end of the year So so year and year a	8 4 2 4 3 26

Table X.—Particulars of SMOKE OBSERVATIONS taken in connection with Factory and other Chimneys in the District.

	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I					
0:	Average No. of mins. black smoke per hour	1 3 3 2 3	61	8 63 to 83	4 65 4 14 55 4	$6\frac{1}{2}$
Dec.	No of Observations	01 0101	01	21-22	2020-	-
V.	Average No of mins. black smoke per hour	62 4.00 8)4-10	1 100 to	01 to 04-40:044	12.12.14	4
Nov.	No. of Observations	01 0101	0.1	અ ભ ભ ભ	20 20 20	62
t.	Average No. of mins. black smoke per hour	C2 1/0		60 60 6 6446		711
Oct.	No. of Observations	-		20 20 2	20 21	67
pt.	Average No. of mins. black smoke per hour	54 4		4000	5446	5
Sept.	No. of Observations	2 -2	01		2010	-
bi)	Average No. of mins black smoke per hour	54	12	9	0 85 4 48 50 T	0
Aug.	Zo. of Observations	67	0.1	- 210	1000	63
11.	Average No. of mins. black smoke per hour	22 8 8 -46 -46 8		ಕು ಕು ಕು	14. 14. 14. 14. 14. 14. 14. 14. 14. 14.	52
July	No. of Observations	01 0101	0)	21-21-	-012101-	2.1
ie e	Average No. of mins. black smoke per hour	35		67 67 1/6 1/4	4 T G	7
June	No. of Observations	01 0100	1 01	81 81	21-21	2
100	Average No. of mins. black smoke per hour	0.00 to		2 4	6 63 63	92
May	No. of Observations	010101	61	. 01 01	ଚାଚାଚା	23
ij.	Average No. of mins.	67 0 07 814 81		85 F	1,4 4 1. 1,4 1,4	œ
Apri	No. of Observations	010101	03	61 61	ભાગ ભા ભાગ ભાગ	61
rch	Average No. of mins. black smoke per hour	6/1 c3	63	ಲು ಲು ಬಿಸು	4 12 rU	101
March	No. of Observations	જા જા	0.01	0) 0)0	1010101	23
p.	Average No. of mins.	6/4 e3	62		4 2 4 	19
Feb.	No. of Observations	ରା ତା	01	21 21	1010101	63
	Average No. of mins.	2 4 4 5 5 5	11.		44484844	
Jan.	No. of Observations	6) 6)	03	01 010	20 20 20	
1908	Reference No of Chimney.	101004	100	86013	254755	18
-		-				

TABLE XI.—RAINFALL.

Number of days on which rain fell.

Month	1906	1907	1908
January	21	12	10
February	19	15	18
March	17	18	16
April	10	13	15
May	18	18	18
June	15	26	10
July	18	15	17
August	18	17	12
September	8	8	. 19
October	23	17	. 8
November	19	20	15
December	18	18	16
Totals	204	196	174

TABLE XII.

			1906	1907	1908
Average	rainfa	ll per day	084 ins.	·083 ins.	·077 ins.
"	,•	per week	·593 ins.	588 ins.	554 ins.
,,	,,,	per month	2 573 ins.	2 546 ins.	2.361 ins
,,	,,,	per year		29 918 ins.	

TABLE XIII.—Average Rainfall for 3 years 1906-8.

Month	Inches
January	2.262
February	2 090
March	2.788
April	1 218
May	2 913
June	2 738
July	2 990
August	2.843
September	1 923
October	2 605
November	2 543
December	3.003

TABLE XIV.—Exceptional Rainfalls.

Date Inches	Date Inches	Date Inches				
Jan. 6 .570 Mar. 8 .650 April 24 .660 Aug. 17 .650 Oct. 18 1.060 Oct. 19 .540 Oct. 29 .640	Mar. 10 '68 Mar. 20 '87 May 31 '54 June 16 '50 June 25 '63 July 22 '86 Aug. 15 1'00 Oct. 17 '70 Nov. 24 '61	Feb. 17				





Table 15.—Record of Temperature (in shade) at Sewage Works.

		190	06.				1907.								190	08.				
Month.	Week Ending.	No. of Weck in Year.		imum erature.		imum erature,	Month	Week Ending.	No. of Week in Year	Temp	mum rature. 5 p m.		imum erature 5 p.m.	Month.	Week Ending.	No. of Week in Year.		imum erature. 5 p.m.	Temps	imum erature.
	-																			
January	Jan. 7 Jan. 14 Jan. 21 Jan. 28	1 2 3 4	47 46 47 50	46 47 47 52	30 32 27 28	34 36 35 30	January	Jan. 6 Jan. 13 Jan. 20 Jan. 27	1 2 3 4	50 48 47 42	47 49 53 45	31 38 33 19	32 38 34 21	January	Jan. 5 Jan. 12 Jan. 19 Jan. 26	1 2 3 4	35 50 52 46	35 49 51 49	21 24 23 26	20 20 27 31
February	Feb. 4 Feb. 11 Feb. 18 Feb. 25	5 6 7 8	56 47 45 42	49 45 45 44	33 26 26 28	35 27 31 34	February	Feb. 3 Feb. 10 Feb. 17 Feb. 24	5 6 7 8	50 46 51 51	50 45 53 51	21 27 27 23	22 29 30 24	February	Feb. 2 Feb. 9 Feb. 16 Feb. 23	5 6 7	52, 47 48	53 48 52	27 27 32 36	32 34 33 42
March	Mar. 4 Mar. 11 Mar. 18	9 10 11 12	48 51 54 45	53 57 56 48	28 34 27 29	31 37 27 34	March	Mar. 3 Mar. 10 Mar. 17 Mar. 24	9 10 11 12	45 51 51 53	50 53 53 55	29 30 26 31	33 30 34	March	Mar. 1 Mar. 8 Mar. 15	.8 9 10 11	51 48 40 54	51 41 46 53	28 28 28	31 29 31
April	Mar. 25 April 1 April 8 April 15 April 22	13 14 15 16	49 58 64 58	50 62 68 60	28 32 29 31	36 41 41 39	April	Mar. 31 April 7 April 14 April 21	13 14 15 16	61 59 49 54	63 64 58 55	33 34 37 26	32 37 40 41 33	April	Mar. 22 Mar. 29 April 5 April 12 April 19	12 13 14 15 16	51 54 53 58	54 57 54 56	27 33 34 30 31	35 40 40 41 36
May	April 29 May 6 May 13 May 20	17 18 19 20	52 59 66 70	53 66 68 57	27 35 41 36	37 37 46 41	May	April 28 May 5 May 12 May 19 May 26	17 18 19 20 21	58 53 70 78	61 55 79 68	31 35 44 37	40 38 47 45	May	April 26 May 3 May 10 May 17	17 18 19 20	47 69 61 63	50 67 63 71	32 30 44 41	29 40 44 50
June	May 27 June 3 June 10 June 17 June 24	21 22 23 24 25	64 64 74 77 76	71 65 76 78 80	40 45 41 44 46	45 45 56 53 61	June	May 26 June 2 June 9 June 16 June 23	22 23 24 25	63 67 68 77 64	73 65 77 68 64	33 40 42 47 45	40 46 46 51 52	June	May 24 May 31 June 7 June 14	21 22 23 24	72 75 84 70	68 78 79 70	40 44 43 48	43 51 51 51
July	July 1 July 8 July 15 July 22	26 27 28 29	69 72 74 74	68 78 69 75	42 47 41 47	52 53 54 52	July	June 30 July 7 July 14 July 21	26 27 28 29	64 60 67 78	67 63 73 77	40 38 40 50	48 50 47 59	July	June 21 June 28 July 5 July 12 July 19	25 26 27 28 29	81 83 70	68 80 80 75 70	40 42 49 43	52 56 61 52 53
August	July 29 Aug. 5 Aug. 12 Aug. 19	30 31 32 33	76 75 74 77 73	79 80 79 74 75	48 54 48 50 50	57 61 57 53 58	August	July 28 Aug. 4 Aug. 11 Aug. 18 Aug. 25	30 31 32 33 34	69 71 68 70	73 73 70 70	44 46 50 50	54 53 55 53	August	July 19 July 26 Aug. 2 Aug. 9 Aug. 16	30 31 32 33	64 80 74 80 69	78 74 74 71	45 49 45 46 38	53 53 54 49
September	Aug. 26 Sept. 2 Sept. 9 Sept. 16 Sept. 23	34 35 36 37 38	85 84 63 61	86 75 73 64	46 45 38 41	59 49 50 52	September	Aug. 25 Sept. 1 Sept. 8 Sept. 15 Sept. 22	35 36 37 38	63 67 68 70 61	66 67 71 74 69	47 41 35 42 41	50 51 36 45 45	September	Aug. 23 Aug. 30 Sept. 6 Sept. 13	34 35 36 37	64 65 63 62	68 68 63 66	43 47 39 34	52 50 48 40
October	Sept. 30 Oct. 7 Oct. 14 Oct. 21	39 40 41 42	57 63 61 55	59 67 67 63	35 50 30 37	41 49 36 39	October	Sept. 29 Oct. 6 Oct. 13 Oct. 20	39 40 41 42	77 58 62 55	76 65 60 68	40 39 36 32	44 43 45 36	October	Sept. 20 Sept. 27 Oct. 4 Oct. 11	38 39 40 41	71 62 71 66	69 64 75 65	43 41 51 44	50 51 59 49
November	Oct. 28 Nov. 4 Nov. 11 Nov. 18	43 44 45 46	61 51 51 57 57	65 51 54 53 61	35 36 32 30 31	46 40 33 34	November	Oct. 27 Nov. 3 Nov. 10 Nov. 17	43 44 45 46	54 55 54 53	57 58 53 54	34 33 41 30	35 41 44 32	November	Oct. 18 Oct. 25 Nov. 1 Nov. 8 Nov. 15	42 43 44 45 46	60 59 58 57 55	68 58 62 61	54 34 35 31 27	58 41 37 37 29
December	Nov. 25 Dec. 2 Dec. 9 Dec. 16 Dec. 23 Dec. 30	47 48 49 50 51 52	56 54 43 51 44	55 56 45 51 40	37 30 26 27 20	34 37 30 28 31 22	December	Nov. 24 Dec. 1 Dec. 8 Dec. 15 Dec. 22 Dec. 29	47 48 49 50 51 52	50 47 50 59 53 49	47 51 51 48 53 44	30 28 34 29 31 31	32 30 33 30 40 31		Nov. 22 Nov. 29 Dec. 6 Dec. 13 Dec. 20	47 48 49 50 51	54 54 54 48 48	55 53 54 49 50 51	28 30 30 30 30 35	29 35 30 32 38

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Table 16.—Record of Rainfall at Sewage Works.

								190	07.					190	08.		
Month.	Week Ending.	No. of Week	Total Rainfall for Week. Inches.	Total Rainfall for Month Inches.	Total Rainfall for Year. Inches.	Month,	Week Ending.	No.of Week in Year.	Total Rainfall for Week. Inches.	Total Rainfall for Month Inches.	Total Rainfall for Year. Inches.	Month.	Week Ending.	No.of Week	Total Rainfall for Week. Inches,	Total Rainfall for Month. Inches.	Total Rainfal for Year Inches
January	Jan. 7 Jan. 14 Jan. 21	1 2 3	*910 1*130 1*320			January	Jan. 6 Jan. 13 Jan. 20	1 2 3	·970 ·120 ·090	1.200		January	Jan. 5 Jan. 12 Jan. 19	1 2 3	.00 .80 .43		
February	Jan. 28 Feb. 4 Feb. 11	5 6	375 590 1 020	3.735		February	Jan. 27 Feb. 3 Feb. 10	5 6	·080 ·370 ·080	1.260		February	Jan. 26 Feb. 2 Feb. 9	5 6	·56 ·47 ·12	1:79	
March	Feb. 18 Feb. 25 Mar. 4 Mar. 11 Mar. 18	7 8 9 10 11	'240 '410 1:000 1:070 '990	2.260		March	Feb. 17 Feb. 24 Mar. 3 Mar. 10 Mar. 17	7 8 9 10 11 12	·620 ·670 ·100 ·910 ·770 ·950	1.740		March	Feb. 16 Feb. 23 Mar. 1 Mar. 8 Mar. 15	7 8 9 10 11	*50 1 · 18	2.27	
April	Mar. 25 April 1 April 8 April 15 April 22	12 13 14 15 16	·065 ·010 ·000 ·040 ·185	3.125		April	Mar. 24 Mar. 31 April 7 April 14 April 21	13 14 15 16 17	*000 *250 *060 *340 *340	2:730		April	Mar. 22 Mar. 29 April 5 April 12 April 19	12 13 14 15 16	·04 ·88 ·71 ·09 ·01	2.51	
day	April 29 May 6 May 13	17 18 19	1·290 ·750 ·420	1.525		May	April 28 May 5 May 12	18 19 20	·940 ·330 ·890	330		May	April 26 May 3 May 10	17 18 19	*33 1.68 *82	1.14	
ane	May 20 May 27 June 3 June 10 June 17	20 21 22 23 24	·520 1·270 ·445 ·000 ·165	2:860	hes.	June	May 19 May 26 June 2 June 9 June 16	21 22 23 24	1.290 1.330 1.360	2.610	(F.	June	May 17 May 24 May 31 June 7 June 14	20 21 22 23 24	·35 ·33 ·09 ·88 ·53	3-27	res.
uly	June 24 July 1 July 8 July 15 July 22	25 26 27 28 29	*260 *330 *650 *450 *630	·870	30-875 Inches	July	June 23 June 30 July 7 July 14 July 21	25 26 27 28 29	·760 1·025 ·730 ·740 ·000	5:765	30.550 Inches.	July	June 21 June 28 July 5 July 12 July 19	25 26 27 28 29	·17 ·00 ·05 2·07 2·16	1.58	28-33 Inches
ugust	July 29 Aug. 5 Aug. 12	30 31 32 33	·370 ·250 ·320 1·220	1.830		August	July 28 Aug. 4 Aug. 11 Aug. 18	30 31 32 33	1·180 ·730 ·855 1·685	2.650	8	August	July 26 Aug. 2 Aug. 9	30 31 32	·21 ·04 ·00 ·27	4.49	- 24
eptember	Aug. 19 Aug. 26 Sept. 2 Sept. 9 Sept. 16	34 35 36 37	·840 ·030 ·450 ·740	2.630		September	Aug. 25 Sept. 1 Sept. 8 Sept. 15	34 35 36 37	·560 ·080 ·815 ·005	3.830		September	Aug. 16 Aug. 23 Aug. 30 Sept. 6 Sept. 13	33 34 35 36 37	74 1·02 47 ·62	2.07	
ctober	Sept. 23 Sept. 30 Oct. 7 Oct. 14	38 39 40 41	·030 ·000 ·530 1·090	1.250		October	Sept. 22 Sept. 29 Oct. 6 Oct. 13 Oct. 20	38 39 40 41 42	·005 ·015 ·120 1·090 ·900	*920		October	Sept. 20 Sept. 27 Oct. 4 Oct. 11	38 39 40 41	1·10 1·31 ·02 ·17	3.60	
lovember .	Oct. 21 Oct. 28 Nov. 4 Nov. 11	42 43 44 45	1·875 ·620 1·060 ·450	4.115		Nøvember	Oct. 27 Nov. 3 Nov. 10	43 44 45 46	·770 ·315 ·180 ·460	2.890		November	Oct. 18 Oct. 25 Nov. 1 Nov. 8	42 43 44 45	·00 ·62 ·41 ·00	-81	
ecember	Nov. 18 Nov. 25 Dec. 2 Dec. 9	46 47 48 49 50	·870 ·565 ·780 1·470 ·950	2.945		December	Nov. 17 Nov. 24 Dec. 1 Dec. 8 Dec. 15	47 48 49 50	·920 ·690 1·160 ·900	1.875		December	Nov. 15 Nov. 22 Nov. 29 Dec. 6	46 47 48 49	·54 ·88 ·98 ·18	2:81	
	Dec. 16 Dec. 23 Dec. 30	51 52	·070 ·460	3.730			Dec. 22 Dec. 29	51 52	·530 ·010	3-290			Dec. 13 Dec. 20 Dec. 27	50 51 52	·89 ·87 ·05	1.99	

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