DEPARTMENT OF
SCIENTIFIC AND INDUSTRIAL RESEARCH

The Investigation of
ATMOSPHERIC POLLUTION

Research and Observations in the Year ended 31st March, 1958

THIRTY-FIRST REPORT

LONDON
HER MAJESTY'S STATIONERY OFFICE
1960

TABLE 9.—*Suspended Matter (Smoke)—Monthly and Seasonal Averages, 1956-7*

Average daily or hourly smoke concentrations were determined by the Daily Smoke Filter or the Owens Automatic Filter respectively. Where observations are made with the Daily Smoke Filter, the 'highest daily mean' shown in the table is the highest observed value and is, therefore, the mean value of the smoke concentration on the day concerned. Where observations are made with the Owens Automatic Filter the 'highest daily mean' is the highest of the daily mean smoke concentrations obtained by averaging the hourly readings for each day.

T indicates trace, i.e., less than 0·5 milligrammes per 100 cubic metres.

* indicates automatic filter.

See note on page 17 on the significance of smoke concentrations.

Site of instrument	Result reported	Smoke concentration, milligrammes per 100 cubic metres														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
Barnes 1 ..	average	20	10	7	9	7	11	21	38	32	26	33	24	11	29	20
	highest daily mean	35	26	20	25	25	21	44	111	90	54	61	88			
Batley 1 ..	average	24	22	23	20	21	21	34	40	33	26	33	25	22	32	27
	highest daily mean	52	39	33	32	33	43	59	85	87	52	59	46			
Belfast 11 ..	average	23	15	9	8	11	13	18	20	24	25	25	21	13	22	18
	highest daily mean	46	24	16	16	23	23	46	32	66	83	70	32			
Bentley-with-Arksey 1	average	16	14	11	11	18	17	22	26	28	21	25	22	14	24	19
	highest daily mean	21	26	20	15	26	29	55	48	50	34	48	49			
Bilston 3 ..	average	4	6	4	4	5	7	11	14	15	12	15	13	5	13	9
	highest daily mean	9	14	8	9	11	16	36	51	68	21	28	23			
Bingley 1 ..	average	10	4	3	3	4	6	8	9	12	8	11	9	5	9	7
	highest daily mean	19	10	9	9	8	14	27	25	33	20	20	26			
Bolton 9 ..	average	21	13	10	7	16	17	32	43	56	40	45	28	14	41	28
	highest daily mean	46	24	17	24	33	40	76	118	198	108	83	67			
Bradford 6 ..	average	32	18	14	14	16	24	27	31	39	27	42	40	20	34	27
	highest daily mean	90	33	26	24	36	99	69	109	223	53	99	99			
Braintree 4 ..	average	—	—	—	—	—	—	—	—	—	—	14	11	—	12	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	21	19			
Brentford 1 ..	average	12	4	3	3	4	5	12	17	15	11	14	15	5	14	10
	highest daily mean	25	9	6	8	12	15	34	45	46	29	35	43			
Brierley Hill 9	average	26	12	9	9	21	12	17	22	18	17	14	10	15	16	16
	highest daily mean	42	23	16	21	51	18	32	83	64	29	22	15			
Burnley 4 ..	average	16	11	9	7	12	10	19	25	22	15	22	18	11	20	16
	highest daily mean	26	19	16	17	16	18	46	68	66	34	48	46			
Camberley 1 ..	average	14	6	6	5	5	6	10	20	18	12	13	12	7	14	11
	highest daily mean	26	14	14	8	9	12	18	41	37	25	28	25			
Cannock 1 ..	average	8	4	4	5	3	5	15	28	22	16	—	—	5	20	13
	highest daily mean	21	11	9	9	8	18	52	181	89	36	—	—			
Cardiff 2 ..	average	5	3	3	3	3	3	5	6	5	5	5	5	3	5	4
	highest daily mean	12	4	5	6	5	5	11	13	9	12	13	13			
Cardington 1 ..	average	4	3	2	2	2	—	25	9	7	4	6	6	3	9	6
	highest daily mean	7	7	4	5	4	—	48	32	32	9	11	12			
Carshalton 4 ..	average	10	4	4	4	2	3	11	17	12	10	12	7	5	12	9
	highest daily mean	21	8	9	9	6	9	25	46	38	26	29	17			
Castleford 5 ..	average	17	20	17	12	20	15	27	34	31	30	33	26	17	30	24
	highest daily mean	39	39	30	21	30	27	57	60	58	58	58	39			
Chapeltown 2 ..	average	17	10	13	14	19	16	22	22	32	30	33	27	15	27	21
	highest daily mean	36	28	26	25	35	55	39	51	99	61	64	61			
Chigwell 1 ..	average	—	—	—	—	—	—	36	57	62	21	28	15	—	37	—
	highest daily mean	—	—	—	—	—	—	83	125	132	60	46	41			
Chiswick 1 ..	average	15	—	5	5	5	6	14	19	16	11	15	16	7	15	11
	highest daily mean	29	—	8	12	14	19	31	37	49	30	34	58			
Chiswick 2 ..	average	14	6	4	—	5	6	14	19	18	10	16	—	7	15	11
	highest daily mean	26	19	7	—	14	20	36	35	45	25	41	—			
Church Fenton 1	average	6	7	5	4	6	6	10	—	14	10	14	—	6	12	9
	highest daily mean	18	14	12	9	13	12	24	—	48	22	27	—			
Cleckheaton 2	average	20	17	13	8	21	13	24	28	31	33	31	39	15	31	23
	highest daily mean	53	33	26	14	31	37	60	56	74	62	63	77			
Croydon 11 ..	average	—	—	—	—	—	—	—	—	—	13	15	10	—	13	—
	highest daily mean	—	—	—	—	—	—	—	—	—	32	37	34			
Dagenham 2 ..	average	13	9	7	5	9	10	33	42	30	20	29	20	9	29	19
	highest daily mean	37	17	11	10	20	23	127	154	79	61	63	50			
Darlaston 2 ..	average	—	—	—	—	—	—	—	—	—	26	42	—	—	33	—
	highest daily mean	—	—	—	—	—	—	—	—	—	58	108	—			
Dartford 6 ..	average	—	—	—	—	—	—	—	24	20	14	18	11	—	17	—
	highest daily mean	—	—	—	—	—	—	—	45	126	39	36	26			
Darton 1 ..	average	10	7	7	8	11	11	13	13	15	15	19	18	9	15	12
	highest daily mean	19	17	17	14	20	24	22	38	53	39	37	47			
Doncaster 16 ..	average	33	—	—	—	22	25	44	51	41	40	41	38	27	42	35
	highest daily mean	46	—	—	—	38	50	100	102	94	67	66	104			
Dunmow 3 ..	average	—	—	—	—	—	—	—	—	—	—	6	4	—	5	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	11	10			

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TABLE 9 (contd.)

Site of instrument	Result reported	Smoke concentration, milligrammes per 100 cubic metres														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
Ealing 3 ..	average	—	—	—	—	—	—	—	—	14	10	14	13	—	13	—
	highest daily mean	—	—	—	—	—	—	—	—	52	32	34	41			
East Kilbride 1	average	6	2	3	2	5	5	5	7	4	7	9	5	4	6	5
	highest daily mean	13	6	7	5	12	11	22	27	8	39	25	15			
Elland 2 ..	average	22	14	17	16	15	14	20	19	19	18	28	26	16	22	19
	highest daily mean	42	28	29	26	34	41	38	45	44	45	47	58			
Erith 1	average	9	6	4	5	5	7	14	21	19	11	16	9	6	15	11
	highest daily mean	19	12	10	10	11	15	40	49	39	36	38	24			
Eskdalemuir 1	average	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1
	highest daily mean	4	3	3	2	2	4	4	5	6	4	5	3			
Exeter 1 ..	average	9	5	4	2	4	4	8	13	15	12	11	7	5	11	8
	highest daily mean	21	10	6	5	12	10	21	59	59	61	27	18			
Fakenham 1 ..	average	1	2	1	1	1	2	3	5	4	3	3	3	1	3	2
	highest daily mean	3	3	3	3	3	4	6	12	12	9	7	7			
*Glasgow 1 ..	average	45	26	36	42	32	37	64	70	58	80	70	48	36	65	51
	highest daily mean	77	50	81	70	55	88	127	154	96	301	112	86			
*Glasgow 5 ..	average	23	5	4	3	17	20	—	48	37	45	—	22	12	39	26
	highest daily mean	68	27	15	11	40	84	—	131	99	205	—	64			
Glasgow 10 ..	average	22	11	—	—	21	13	26	—	35	29	35	22	16	29	23
	highest daily mean	44	23	—	—	59	25	80	—	42	131	77	58			
Goole 2 ..	average	21	18	15	10	21	18	24	29	30	—	—	—	17	28	23
	highest daily mean	31	31	27	18	31	26	43	56	56	—	—	—			
Harrogate 1 ..	average	9	5	5	6	5	8	7	9	19	11	13	14	6	12	9
	highest daily mean	19	12	10	14	8	13	16	27	54	21	26	37			
Hayes 1 ..	average	17	8	7	9	—	12	17	20	13	13	13	16	11	15	13
	highest daily mean	55	18	15	19	—	36	44	50	32	34	34	39			
Hayes 2 ..	average	18	8	7	7	12	10	16	20	16	13	15	15	10	16	13
	highest daily mean	37	16	19	20	27	24	43	43	28	28	33	30			
Hayes 3 ..	average	14	8	7	8	11	12	16	19	13	10	—	—	10	15	13
	highest daily mean	41	15	20	25	22	26	44	42	32	23	—	—			
Helmshore 1 ..	average	13	10	4	3	4	4	7	7	18	15	17	15	6	13	10
	highest daily mean	39	17	6	7	7	10	17	18	55	34	28	26			

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Hemsworth 2 ..	average	22	15	12	9	15	16	22	27	—	21	30	32	15	26	21
	highest daily mean	38	24	23	31	34	35	46	65	—	56	49	51			
Horbury 2 ..	average	15	11	9	6	14	13	20	22	24	16	29	25	11	23	17
	highest daily mean	24	24	18	14	26	31	41	74	71	41	65	55			
Hornchurch 1 ..	average	13	8	4	2	3	4	16	21	21	14	20	14	6	18	12
	highest daily mean	36	14	9	55	5	8	66	52	50	43	48	26			
Hornsey 4 ..	average	—	—	—	—	—	—	—	—	—	17	22	20	—	20	—
	highest daily mean	—	—	—	—	—	—	—	—	—	36	45	43			
Hornsey 6 ..	average	—	—	—	—	6	9	18	22	25	19	24	21	8	21	15
	highest daily mean	—	—	—	—	12	17	43	42	55	44	43	39			
Hornsey 7 ..	average	—	—	—	—	5	6	14	19	20	14	19	17	5	17	11
	highest daily mean	—	—	—	—	10	14	37	41	42	37	40	33			
Keighley 8 ..	average	17	13	10	11	14	17	14	18	17	17	20	17	14	17	16
	highest daily mean	32	27	22	18	31	41	28	33	55	29	50	46			
Kew 1	average	10	3	3	3	3	4	11	17	16	7	11	10	4	12	8
	highest daily mean	24	8	8	7	11	13	32	55	48	22	31	34			
Kingston upon Hull 2	average	30	28	24	18	26	28	42	50	38	34	45	30	26	40	33
	highest daily mean	51	59	54	28	44	43	72	86	77	65	107	51			
Lancaster 4 ..	average	22	16	14	9	14	22	42	—	—	30	34	22	16	32	24
	highest daily mean	42	27	26	27	34	44	113	—	—	72	51	54			
Leeds 4 ..	average	60	29	26	25	30	34	93	110	106	98	123	107	34	106	70
	highest daily mean	103	48	42	43	48	58	179	196	224	145	193	222			
Leeds 8 ..	average	17	11	13	20	15	15	16	17	27	24	31	30	15	24	20
	highest daily mean	37	27	40	41	38	49	44	32	118	48	65	63			
Leicester 5 ..	average	16	7	8	3	5	9	19	25	16	18	22	19	8	20	14
	highest daily mean	26	20	13	10	20	21	44	75	43	33	60	42			
Lerwick 1 ..	average	T	T	T	T	T	1	T	T	T	1	1	2	T	1	1
	highest daily mean	1	1	1	1	1	3	3	2	1	2	4	4			
Leyton 1 ..	average	19	4	—	5	7	8	30	46	43	35	44	33	8	38	23
	highest daily mean	43	9	—	10	11	14	69	101	88	73	75	75			
*Liverpool 12 ..	average	21	—	—	—	—	—	—	—	—	—	—	—	21	—	—
	highest daily mean	59	—	—	—	—	—	—	—	—	—	—	—			
*Liverpool 14	average	—	—	19	23	23	23	47	38	58	65	76	60	22	57	40
	highest daily mean	—	—	64	47	52	35	100	86	103	105	99	123			
London—																
Battersea 2 ..	average	—	—	—	—	—	—	—	37	49	31	43	37	—	39	—
	highest daily mean	—	—	—	—	—	—	—	68	118	92	118	125			
Bermondsey 3	average	20	10	12	12	12	11	32	33	40	29	34	22	13	32	23
	highest daily mean	66	19	18	18	19	23	70	89	95	72	89	63			

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TABLE 9 (contd.)

Site of instrument	Result reported	Smoke concentration, milligrammes per 100 cubic metres														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
London (contd.)–																
Bethnal Green 2	average	—	11	9	8	10	13	23	30	48	29	39	31	10	33	22
	highest daily mean	—	20	15	14	16	25	45	54	100	58	83	64			
Camberwell 3	average	17	10	7	5	6	10	20	28	28	20	23	20	9	23	16
	highest daily mean	32	21	13	12	15	21	40	65	68	43	45	57			
Chelsea 2 ..	average	33	15	16	14	14	18	37	54	60	40	48	40	18	46	32
	highest daily mean	56	24	23	23	28	32	81	129	172	73	78	107			
Chelsea 3 ..	average	17	7	6	6	—	11	17	37	29	19	25	—	9	25	17
	highest daily mean	32	15	11	11	—	39	44	96	91	55	51	—			
City 1 ..	average	13	7	5	6	5	7	14	17	16	10	12	9	7	13	10
	highest daily mean	26	22	14	10	13	14	33	35	35	39	29	37			
City 9 ..	average	14	7	5	5	6	8	21	28	24	12	19	16	7	20	14
	highest daily mean	41	13	8	8	11	19	53	67	107	42	42	91			
City 10 ..	average	—	—	—	18	18	16	24	32	—	26	30	30	17	28	23
	highest daily mean	—	—	—	34	34	26	47	51	—	52	54	109			
City 11 ..	average	17	8	5	3	4	5	17	23	23	16	20	17	7	19	13
	highest daily mean	28	22	9	5	9	13	44	45	56	35	36	36			
City 12 ..	average	11	6	4	4	6	7	13	16	15	9	11	10	6	12	9
	highest daily mean	18	11	12	8	12	17	29	31	32	18	21	23			
Deptford 1 ..	average	36	15	11	10	11	14	41	60	61	44	51	38	16	49	33
	highest daily mean	60	28	16	17	25	24	94	118	156	107	95	116			
Deptford 2 ..	average	51	25	20	28	27	33	46	65	49	27	34	21	31	40	36
	highest daily mean	82	40	58	58	77	76	93	154	154	75	95	54			
Finsbury 1 ..	average	32	17	13	11	12	12	27	37	33	19	27	22	16	28	22
	highest daily mean	64	29	22	14	20	29	80	72	96	37	61	54			
Fulham 1 ..	average	—	—	—	—	18	35	48	84	62	31	27	27	26	47	37
	highest daily mean	—	—	—	—	86	86	106	211	262	52	50	70			
Fulham 6 ..	average	—	—	—	—	30	51	91	112	99	29	32	28	41	65	53
	highest daily mean	—	—	—	—	79	136	156	218	267	63	65	103			
Greenwich 2	average	15	8	6	5	8	11	18	8	29	25	—	—	9	20	15
	highest daily mean	28	17	11	16	19	26	41	18	58	71	—	—			
Greenwich 3	average	17	8	6	5	6	7	18	25	23	17	21	15	8	20	14
	highest daily mean	32	13	10	10	13	16	47	54	54	38	39	42			
Greenwich 4	average	19	15	7	7	5	10	22	33	47	38	39	16	10	32	21
	highest daily mean	68	42	25	19	17	36	46	61	135	98	91	58			
Greenwich 5	average	51	17	15	11	14	25	36	34	55	56	61	24	22	44	33
	highest daily mean	110	35	28	24	34	56	71	59	136	106	109	55			
Hackney 4 ..	average	39	13	12	10	12	16	47	65	66	48	61	46	17	55	36
	highest daily mean	77	24	15	17	21	28	139	158	122	102	111	114			
Hackney 5 ..	average	47	28	23	28	33	39	66	75	69	58	78	67	33	68	51
	highest daily mean	108	53	39	53	53	66	134	145	145	128	165	119			
Hackney 6 ..	average	37	21	18	20	26	31	61	59	69	55	65	54	25	60	43
	highest daily mean	79	36	43	37	48	60	148	145	165	123	120	99			
Hammersmith 4	average	33	10	8	10	11	11	17	37	—	26	22	30	13	26	20
	highest daily mean	64	31	16	29	33	25	31	112	—	65	43	102			
Hammersmith 5	average	36	22	14	15	16	15	18	46	—	38	37	48	20	37	29
	highest daily mean	54	54	28	32	27	33	34	108	—	88	60	72			
Hampstead 3	average	20	10	6	8	9	13	22	32	42	31	39	—	11	33	22
	highest daily mean	38	24	11	16	12	30	63	67	102	69	105	—			
Hampstead 4	average	38	12	9	11	13	18	39	51	57	38	48	45	17	46	32
	highest daily mean	67	17	13	15	19	28	95	122	130	82	108	92			
Holborn 2 ..	average	40	22	18	18	16	14	37	50	38	33	42	36	21	39	30
	highest daily mean	72	38	28	26	26	25	93	92	77	77	72	71			
Holborn 3 ..	average	38	12	11	9	12	14	33	51	36	24	32	32	16	34	25
	highest daily mean	66	30	23	23	35	32	81	97	83	51	67	81			
Islington 1 ..	average	—	—	—	—	—	—	—	—	—	32	44	34	—	37	—
	highest daily mean	—	—	—	—	—	—	—	—	—	76	84	67			
Islington 2 ..	average	—	—	—	—	—	—	—	—	—	33	44	35	—	37	—
	highest daily mean	—	—	—	—	—	—	—	—	—	77	86	71			
Kensington 1	average	18	6	4	4	5	8	19	29	31	19	24	21	7	24	16
	highest daily mean	37	13	8	9	12	26	48	71	83	50	48	58			
Kensington 4	average	14	7	5	6	7	8	12	11	28	15	24	22	8	19	14
	highest daily mean	29	19	10	12	14	14	25	25	117	33	39	82			
Kensington 5	average	29	8	8	10	12	12	20	23	26	28	21	28	13	24	19
	highest daily mean	41	17	12	15	18	17	43	47	43	56	30	47			
Kensington 6	average	—	—	—	—	—	—	—	—	—	17	21	36	—	25	—
	highest daily mean	—	—	—	—	—	—	—	—	—	29	43	98			
Lambeth 2 ..	average	29	14	17	13	14	19	33	42	46	29	38	34	18	37	28
	highest daily mean	61	35	32	20	30	47	76	87	125	68	78	87			
Lambeth 6 ..	average	25	13	12	12	12	17	28	40	41	27	32	30	15	33	24
	highest daily mean	54	36	21	19	27	50	65	73	133	60	68	70			

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TABLE 9 (contd.)

Site of instrument	Result reported	Smoke concentration, milligrammes per 100 cubic metres														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
London (contd.)–																
Lambeth 7 ..	average	37	14	12	10	11	13	42	60	65	44	53	44	15	51	33
	highest daily mean	60	24	19	18	23	21	84	157	154	101	92	120			
Lambeth 8 ..	average	18	10	9	9	9	12	19	29	35	22	28	26	11	26	19
	highest daily mean	32	20	12	14	17	28	39	61	107	47	51	60			
Lambeth 9 ..	average	28	16	14	9	12	12	26	33	32	22	27	22	15	27	21
	highest daily mean	51	34	33	19	24	22	52	76	78	53	55	52			
Lambeth 10	average	27	11	10	8	7	10	30	39	33	18	25	18	12	27	20
	highest daily mean	40	28	23	21	11	23	68	119	94	72	48	71			
Lewisham 4	average	18	4	5	3	3	3	10	24	24	15	20	19	6	19	13
	highest daily mean	27	10	7	4	4	5	20	47	67	20	35	26			
Lewisham 5	average	17	5	5	4	3	3	11	27	25	15	23	20	6	20	13
	highest daily mean	22	11	9	5	5	4	17	41	54	17	37	29			
Lewisham 6	average	13	4	5	3	2	2	10	23	21	15	19	15	5	17	11
	highest daily mean	20	5	6	4	4	3	16	42	47	20	33	20			
Paddington 2	average	26	16	16	18	17	28	59	68	56	40	39	38	20	50	35
	highest daily mean	53	30	24	30	27	71	103	136	103	84	83	106			
St. Marylebone 6	average	40	11	12	9	7	11	33	48	41	30	39	42	15	39	27
	highest daily mean	62	23	17	18	19	26	88	88	107	64	74	118			
St. Marylebone 7	average	42	9	7	7	7	10	35	49	44	—	35	41	14	41	28
	highest daily mean	69	19	11	12	17	19	77	97	92	—	76	110			
St. Pancras 4	average	35	20	20	18	—	—	—	39	38	30	34	29	23	34	29
	highest daily mean	58	36	38	46	—	—	—	66	108	64	64	68			
St. Pancras 5	average	21	8	5	7	9	14	16	22	23	20	21	23	10	21	16
	highest daily mean	38	16	10	11	20	26	41	41	61	32	45	42			
Shoreditch 1	average	26	11	17	22	8	10	21	20	22	22	17	20	16	20	18
	highest daily mean	45	26	32	36	20	21	46	36	57	65	38	57			
Southwark 3	average	—	—	19	13	13	19	38	54	44	32	46	32	16	41	29
	highest daily mean	—	—	40	38	33	60	100	119	99	63	85	79			
Stepney 3 ..	average	32	15	11	10	16	15	35	42	43	40	50	31	16	40	28
	highest daily mean	61	25	21	14	54	24	61	86	104	93	108	55			
Stepney 4 ..	average	39	16	—	12	16	21	48	59	56	41	47	37	21	47	34
	highest daily mean	63	27	—	21	28	31	111	140	126	79	93	83			
Stoke Newington 3	average	24	12	8	9	15	15	33	39	50	32	53	42	14	41	28
	highest daily mean	52	26	16	16	25	24	88	95	165	88	125	91			
Wandsworth 1	average	19	13	8	7	9	12	20	29	35	27	18	21	11	25	18
	highest daily mean	34	28	11	10	21	18	43	57	85	81	29	55			
Wandsworth 2	average	13	5	3	6	4	7	10	21	22	13	12	11	6	15	11
	highest daily mean	35	15	9	14	14	24	23	95	70	46	35	36			
Wandsworth 3	average	—	—	—	—	—	14	—	32	46	32	—	13	14	32	23
	highest daily mean	—	—	—	—	—	33	—	63	178	67	—	33			
Wandsworth 4	average	—	—	—	—	—	—	—	—	—	29	23	26	—	26	—
	highest daily mean	—	—	—	—	—	—	—	—	—	67	52	76			
Wandsworth 5	average	—	—	—	—	—	—	—	—	—	—	—	22	—	22	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	—	43			
Westminster 6	average	22	10	7	7	7	10	21	38	47	26	13	11	11	26	19
	highest daily mean	44	27	12	12	14	34	48	80	119	100	30	60			
Westminster 7	average	8	4	4	6	7	11	36	42	39	29	35	28	7	35	21
	highest daily mean	16	8	8	9	18	23	83	127	94	73	75	93			
Westminster 8	average	17	—	—	—	—	—	—	—	—	—	—	—	17	—	—
	highest daily mean	25	—	—	—	—	—	—	—	—	—	—	—			
Westminster 9	average	18	—	—	—	—	—	—	—	—	—	—	—	18	—	—
	highest daily mean	23	—	—	—	—	—	—	—	—	—	—	—			
Westminster 10	average	17	11	17	18	26	30	31	47	35	29	36	32	20	35	28
	highest daily mean	33	27	25	35	55	70	72	83	96	66	73	90			
Westminster 11	average	20	7	13	10	17	25	33	55	41	34	45	38	15	41	28
	highest daily mean	40	25	26	19	41	83	83	119	106	82	87	142			
Woolwich 1	average	17	14	13	13	24	24	50	47	53	46	39	31	17	44	31
	highest daily mean	45	36	34	33	80	66	103	112	100	114	65	69			
Woolwich 7	average	22	10	8	7	7	8	28	44	42	26	31	22	10	32	21
	highest daily mean	48	20	14	13	17	16	71	91	146	84	78	60			
Woolwich 8	average	11	11	10	8	9	7	27	52	37	40	45	16	9	36	23
	highest daily mean	27	28	18	19	19	30	65	108	106	95	102	43			
Woolwich 9	average	12	7	12	6	8	12	26	43	35	39	34	16	9	32	22
	highest daily mean	23	21	33	12	21	33	49	124	87	141	130	41			
Woolwich 10	average	13	18	16	11	—	—	26	47	42	47	52	21	14	39	27
	highest daily mean	26	53	33	25	—	—	40	91	96	98	91	39			
Longbenton 1 ..	average	13	8	5	5	8	13	9	16	18	11	17	23	9	16	13
	highest daily mean	43	21	14	8	23	34	26	58	101	27	58	45			
Luton 1.. ..	average	8	4	4	2	3	4	10	13	14	9	8	8	4	10	7
	highest daily mean	13	16	13	6	8	8	23	36	62	30	19	34			

(75034)

TABLE 9 (contd.)

Site of instrument	Result reported	Smoke concentration, milligrammes per 100 cubic metres														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
Lytham St. Annes 1	average	9	4	2	3	4	7	9	13	11	11	12	13	5	11	8
	highest daily mean	22	11	8	9	13	16	32	46	37	29	25	45			
Maltby 1 ..	average	10	8	7	5	6	8	15	19	13	10	14	10	7	14	11
	highest daily mean	20	14	19	9	18	14	37	50	30	18	29	18			
Manchester 9 ..	average	28	18	19	15	23	22	33	37	31	25	25	27	21	30	26
	highest daily mean	49	31	33	26	30	40	90	120	134	79	97	93			
Morley 3 ..	average	25	15	17	15	25	20	24	30	24	29	36	29	19	29	24
	highest daily mean	48	39	29	27	45	37	45	75	47	55	74	55			
Mytholmroyd 1	average	9	8	4	4	6	—	17	17	22	15	22	23	6	19	13
	highest daily mean	22	21	9	9	12	—	41	74	72	33	48	45			
Newcastle upon Tyne 5	average	—	—	—	—	—	—	—	—	—	—	—	80	—	80	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	—	140			
Newcastle upon Tyne 10	average	—	—	—	—	—	—	14	18	27	16	28	28	—	22	—
	highest daily mean	—	—	—	—	—	—	37	40	145	52	58	97			
Nottingham 1 ..	average	9	7	5	5	5	7	12	17	15	7	18	10	6	13	10
	highest daily mean	18	16	9	11	9	24	40	54	31	18	62	26			
Nuneaton 1 ..	average	—	—	—	—	10	15	27	29	29	21	26	21	12	25	19
	highest daily mean	—	—	—	—	20	23	54	78	130	39	44	48			
Otley 2	average	—	5	8	7	8	14	12	16	19	16	15	15	9	16	13
	highest daily mean	—	9	12	15	14	34	23	38	53	30	25	26			
Oxford 11 ..	average	—	—	—	—	—	—	13	25	15	16	21	15	—	17	—
	highest daily mean	—	—	—	—	—	—	28	63	41	40	40	31			
Pembroke Dock 1	average	2	1	1	1	1	1	1	3	2	2	2	2	1	2	2
	highest daily mean	6	3	2	3	2	3	6	7	5	8	5	6			
Pontefract 1 ..	average	17	15	16	10	14	16	22	20	18	22	26	22	15	22	19
	highest daily mean	23	21	24	12	23	27	36	25	30	33	36	37			
Portsmouth 1	average	—	—	—	—	9	9	20	36	28	23	32	19	9	26	18
	highest daily mean	—	—	—	—	19	19	46	79	52	67	83	74			
Portsmouth 2 ..	average	—	—	—	—	6	8	21	23	26	20	25	14	7	21	14
	highest daily mean	—	—	—	—	17	19	55	73	72	29	56	28			

Portsmouth 3 ..	average	—	—	—	—	4	6	17	20	16	13	12	—	5	16	11
	highest daily mean	—	—	—	—	14	14	33	71	44	34	26	—			
Portsmouth 4 ..	average	—	—	—	—	7	9	16	21	16	16	15	8	8	15	12
	highest daily mean	—	—	—	—	19	17	47	96	66	36	46	30			
Preston 4 ..	average	17	15	13	15	17	22	22	26	25	19	25	18	16	22	19
	highest daily mean	33	28	26	24	37	50	41	60	62	43	72	45			
Rawmarsh 2 ..	average	42	32	34	30	43	47	55	59	57	43	55	50	38	53	46
	highest daily mean	81	47	56	53	71	90	88	149	131	81	120	76			
Ripon 1 ..	average	21	8	9	8	12	12	15	19	22	19	22	20	12	19	16
	highest daily mean	29	16	20	19	19	22	24	33	48	34	39	36			
Rothwell 2 ..	average	15	15	12	12	19	14	26	26	30	25	37	25	14	28	21
	highest daily mean	32	42	23	20	34	25	60	46	64	46	70	44			
Saddleworth 1	average	15	9	7	5	8	9	17	22	21	13	15	15	9	17	13
	highest daily mean	29	16	12	8	14	19	45	39	62	42	28	30			
St. Helens 7 ..	average	69	40	19	15	26	30	38	39	31	40	50	35	33	39	36
	highest daily mean	110	106	45	46	65	58	110	159	66	94	121	163			
Sale 4	average	6	10	10	7	12	15	81	47	33	26	37	22	10	41	26
	highest daily mean	13	28	17	24	31	41	95	157	54	98	147	71			
Salford 2 ..	average	49	37	28	21	30	30	58	73	67	58	64	64	32	64	48
	highest daily mean	109	86	38	40	42	58	110	230	295	143	170	182			
Sheffield 2 ..	average	26	11	10	9	11	14	27	31	33	16	20	26	13	26	20
	highest daily mean	74	25	20	23	59	55	80	161	163	63	79	135			
Sheffield 8 ..	average	33	24	21	20	26	31	—	35	48	34	42	39	26	39	33
	highest daily mean	42	42	40	33	48	57	—	90	151	45	60	81			
Sheffield 32 ..	average	31	12	11	11	16	22	—	41	47	21	43	26	17	35	26
	highest daily mean	76	33	18	33	61	65	—	193	190	64	120	82			
Sheffield 36 ..	average	36	12	12	9	13	19	—	50	46	29	53	36	17	42	30
	highest daily mean	87	39	36	36	62	64	—	236	218	77	141	103			
Sheffield 37 ..	average	37	14	16	13	18	27	37	43	59	43	52	42	21	46	34
	highest daily mean	82	27	35	39	62	74	95	131	277	87	118	88			
Sheffield 38 ..	average	38	15	19	13	20	26	39	45	52	24	50	32	22	40	31
	highest daily mean	81	31	41	26	46	94	113	137	187	62	116	91			
Sheffield 39 ..	average	35	14	11	11	17	23	37	53	53	34	55	39	18	45	32
	highest daily mean	91	27	27	28	53	63	108	181	222	80	130	93			
Sheffield 40 ..	average	32	11	11	10	13	18	31	36	48	25	49	31	16	36	26
	highest daily mean	77	28	37	29	30	44	89	119	289	63	116	98			
Sheffield 41 ..	average	40	17	18	13	18	25	34	35	59	37	50	41	22	42	32
	highest daily mean	64	33	46	32	47	63	70	113	218	75	86	76			
Skipton 1 ..	average	22	—	—	—	—	—	—	—	—	—	—	—	22	—	—
	highest daily mean	33	—	—	—	—	—	—	—	—	—	—	—			
Slaithwaite 2 ..	average	16	14	11	11	17	15	19	12	13	19	28	27	14	20	17
	highest daily mean	33	23	18	23	36	26	51	40	54	49	49	69			

TABLE 9 (contd.)

Site of instrument	Result reported	Smoke concentration, milligrammes per 100 cubic metres														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
Southampton 22	average	23	—	—	—	—	5	8	—	—	14	—	13	12	12	12
	highest daily mean	58	—	—	—	—	13	18	—	—	39	—	33			
Southampton 23	average	—	8	4	3	3	4	11	22	19	15	16	13	4	16	10
	highest daily mean	—	15	8	5	8	11	22	65	58	33	40	30			
Southampton 24	average	15	7	4	3	2	4	12	20	23	—	21	18	6	19	13
	highest daily mean	32	15	8	6	6	7	29	45	51	—	41	46			
Southampton 25	average	12	5	2	—	2	3	—	14	—	11	14	16	5	14	10
	highest daily mean	19	12	4	—	5	6	—	42	—	35	30	33			
Southampton 26	average	13	6	3	2	2	3	9	18	17	14	15	12	5	14	10
	highest daily mean	26	14	7	6	5	7	17	37	39	26	43	27			
Stocksbridge 9	average	25	36	30	28	23	23	23	34	40	34	29	33	28	32	30
	highest daily mean	63	67	57	68	63	46	55	62	136	57	59	68			
Stornoway 1	average	1	T	T	T	T	T	T	1	1	1	T	1	T	1	1
	highest daily mean	3	2	T	1	1	2	1	2	3	2	1	3			
Stourbridge 1	average	—	—	—	—	—	—	—	—	—	13	14	12	—	13	—
	highest daily mean	—	—	—	—	—	—	—	—	—	43	36	24			
Teddington 2	average	—	—	—	—	—	—	—	—	—	—	11	8	—	9	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	35	31			
Thorne 1	average	8	—	6	3	4	7	16	16	15	12	18	11	6	15	11
	highest daily mean	18	—	17	6	14	17	45	31	87	34	30	25			
Tottenham 3	average	19	8	—	—	9	9	23	33	31	22	32	25	11	27	19
	highest daily mean	72	12	—	—	17	19	65	95	102	64	69	74			
Wallsend 2	average	42	21	18	10	20	32	—	40	57	43	56	41	24	47	36
	highest daily mean	96	46	35	20	38	63	—	86	204	110	106	94			
Walsall 11	average	16	13	12	10	13	13	35	41	45	32	38	31	13	37	25
	highest daily mean	26	20	19	13	26	31	86	115	143	60	59	58			
Warrington 8	average	15	8	6	11	10	9	19	23	22	21	27	18	10	22	16
	highest daily mean	38	19	9	25	23	20	71	93	56	97	91	57			
Wednesfield 1	average	19	10	9	7	8	11	14	15	22	16	25	18	10	18	14
	highest daily mean	41	22	17	14	15	23	36	43	61	60	54	35			
Wetherby 1	average	12	8	6	6	8	8	9	12	12	8	8	8	8	10	9
	highest daily mean	30	20	11	11	17	18	18	25	25	15	12	20			
Willenhall 1	average	77	79	63	64	—	41	49	60	71	55	54	46	64	55	60
	highest daily mean	140	149	114	101	—	77	83	142	237	104	99	80			
Willesden 8	average	—	16	12	16	15	19	33	46	47	43	52	58	16	46	31
	highest daily mean	—	26	20	29	30	39	81	107	105	85	103	120			
Witham 2	average	—	—	—	—	—	—	—	—	—	9	10	8	—	9	—
	highest daily mean	—	—	—	—	—	—	—	—	—	19	18	17			
Wolverhampton 3	average	6	3	3	2	2	3	6	9	6	5	10	7	3	7	5
	highest daily mean	14	8	5	5	6	7	19	35	33	20	29	16			
Wombwell 1	average	31	17	20	16	—	24	35	39	30	30	42	37	22	36	29
	highest daily mean	56	29	29	27	—	53	65	95	124	58	75	75			
Woodford 1	average	12	9	5	—	6	5	16	28	34	27	41	32	7	29	18
	highest daily mean	25	15	9	—	9	14	52	98	79	74	80	66			
Yeadon 1	average	11	8	7	3	7	—	—	—	—	—	—	4	7	4	6
	highest daily mean	19	12	14	8	16	—	—	—	—	—	—	44			
Yiewsley and West Drayton 1	average	2	4	3	4	4	7	14	—	28	8	11	12	4	15	10
	highest daily mean	10	12	8	8	13	20	44	—	258	28	30	38			

TABLE 10.—*Suspended Matter (Smoke)*

Week-day and Week-end Averages, 1956–7

T indicates trace, i.e. less than 0·5 milligrammes per 100 cubic metres.

See note on page 17 on the significance of smoke concentrations.

Site of instrument	Average smoke concentration, milligrammes per 100 cubic metres					
	Summer		Winter		Year	
	Week-day	Week-end	Week-day	Week-end	Week-day	Week-end
Barnes 1	11	10	31	26	21	18
Batley 1	24	17	34	25	29	21
Belfast 11	14	12	23	18	19	15
Bentley-with Arskey 1	15	12	24	21	20	17
Bilston 3	5	4	14	11	10	8
Bingley 1	5	5	10	9	8	7
Bolton 9	15	13	42	36	29	25
Bradford 6	21	16	36	28	29	22
Braintree 4	—	—	12§	13§	—	—
Brentford 1	5	5	15	13	10	9
Brierley Hill 9	16	12	19	13	18	13
Burnley 4	11	9	20	20	16	15
Camberley 1	7	6	15	13	11	10
Cannock 1	5	4	22‡	15‡	14	10
Cardiff 2	3	2	5	4	4	3
Cardington 1	3‖	2‖	9	9	6	6
Carshalton 4	5	4	12	9	9	7
Castleford 5	17	15	32	25	25	20
Chapeltown 2	16	12	30	22	23	17
Chigwell 1	—	—	38	34	—	—
Chiswick 1	8‖	6‖	16	14	12	10
Chiswick 2	7‖	6‖	16‖	14‖	12	10
Church Fenton 1	5	6	12‡	11‡	9	9
Cleckheaton 2	17	13	34	25	26	19
Croydon 11	—	—	13†	11†	—	—
Dagenham 2	10	7	28	31	19	19
Darlaston 2	—	—	35§	29§	—	—
Dartford 6	—	—	17‖	18‖	—	—
Darton 1	9	8	16	13	13	11
Doncaster 16	30†	22†	46	38	38	30
Dunmow 3	—	—	5§	4§	—	—
Ealing 3	—	—	14‡	11‡	—	—
East Kilbride 1	4	3	7	5	6	4
Elland 2	19	13	25	18	22	16
Erith 1	6	5	15	14	11	10
Eskdalemuir 1	1	1	1	1	1	1
Exeter 1	5	4	11	10	8	7
Fakenham 1	1	1	3	4	2	3
Glasgow 1	40	30	69	56	55	43
Glasgow 5	13	10	42‡	28‡	28	19
Glasgow 10	19‡	10‡	27‖	20‖	23	15
Goole 2	18	14	29†	24†	24	19
Harrogate 1	6	7	11	14	9	11
Hayes 1	13‖	7‖	19	11	16	9
Hayes 2	12	7	18	12	15	10
Hayes 3	12	7	17‡	9‡	15	8
Helmshore 1	7	4	14	12	11	8
Hemsworth 2	16	12	29‖	19‖	23	16
Horbury 2	12	10	23	21	18	16
Hornchurch 1	6	4	18	17	12	11
Hornsey 4	—	—	20†	19†	—	—
Hornsey 6	8§	8§	22	21	15	15

TABLE 10 (contd.)

Site of instrument	Average smoke concentration, milligrammes per 100 cubic metres					
	Summer		Winter		Year	
	Week-day	Week-end	Week-day	Week-end	Week-day	Week-end
Hornsey 7	6§	6§	17	17	12	12
Keighley 8	15	11	18	14	17	13
Kew 1	4	4	12	12	8	8
Kingston upon Hull 2	27	22	34	34	31	28
Lancaster 4	17	14	33‡	31‡	25	23
Leeds 4	38	27	116	83	77	55
Leeds 8	16	15	23	26	20	21
Leicester 5	9	7	21	18	15	13
Lerwick 1	T	T	1	1	1	1
Leyton 1	9‖	7‖	39	38	24	23
Liverpool 12	24*	15*	—	—	—	—
Liverpool 14	23‡	20‡	60	49	42	35
London, Battersea 2	—	—	41‖	34‖	—	—
London, Bermondsey 3	14	10	31	33	23	22
London, Bethnal Green 2	11‖	9‖	33	31	22	20
London, Camberwell 3	10	8	25	20	18	14
London, Chelsea 2	20	16	47	45	34	31
London, Chelsea 3	9‖	8‖	26‖	22‖	18	15
London, City 1	8	5	13	13	11	9
London, City 9	7	7	20	20	14	14
London, City 10	18†	14†	29‖	26‖	24	20
London, City 11	7	5	20	16	14	11
London, City 12	7	5	12	13	10	9
London, Deptford 1	17	14	49	50	33	32
London, Deptford 2	33	25	41	37	37	31
London, Finsbury 1	17	14	26	30	22	22
London, Fulham 1	33§	21§	54	36	44	29
London, Fulham 6	49*	64*	69	57	59	61
London, Greenwich 2	9	8	19†	17†	14	13
London, Greenwich 3	9	7	20	20	15	14
London, Greenwich 4	11	9	34	31	23	20
London, Greenwich 5	22	20	47	37	35	29
London, Hackney 4	19	15	54	59	37	37
London, Hackney 5	35	28	70	57	53	43
London, Hackney 6	27	20	65	50	46	35
London, Hammersmith 4	14	10	31	17	23	14
London, Hammersmith 5	22	14	39‖	34‖	31	24
London, Hampstead 3	12	10	34‖	32‖	23	21
London, Hampstead 4	19	14	46	48	33	31
London, Holborn 2	23	16	42	33	33	25
London, Holborn 3	17	13	37	29	27	21
London, Islington 1	—	—	36†	37†	—	—
London, Islington 2	—	—	37†	38†	—	—
London, Kensington 1	8	7	24	23	16	15
London, Kensington 4	8	7	19	18	14	13
London, Kensington 5	13	13	25	23	19	18
London, Kensington 6	—	—	28†	28†	—	—
London, Lambeth 2	19	15	37	37	28	26
London, Lambeth 6	16	13	34	29	25	21
London, Lambeth 7	17	14	51	51	34	33
London, Lambeth 8	12	10	27	26	20	18
London, Lambeth 9	16	13	27	27	22	20
London, Lambeth 10	12	12	26	30	19	21
London, Paddington 2	22	16	53	42	38	29
London, St. Marylebone 6	16	13	40	35	28	24
London, St. Marylebone 7	14	12	42‖	38‖	28	25
London, St. Pancras 4	25‡	18‡	37‖	26‖	31	22
London, St. Pancras 5	11	10	22	17	17	14

TABLE 10 (contd.)

Site of instrument	Average smoke concentration, milligrammes per 100 cubic metres					
	Summer		Winter		Year	
	Week-day	Week-end	Week-day	Week-end	Week-day	Week-end
London, Shoreditch 1	17	11	22	16	20	14
London, Southwark 3	16‡	17‡	41	39	29	28
London, Stepney 3	18	14	42	39	30	27
London, Stepney 4	22‖	17‖	50	40	36	29
London, Stoke Newington 3	15	11	42	41	29	26
London, Wandsworth 1	12	10	27	20	20	15
London, Wandsworth 2	6	6	16	12	11	9
London, Wandsworth 3	15*	13*	35†	28†	25	21
London, Wandsworth 4	—	—	29†	21†	—	—
London, Wandsworth 5	—	—	24*	19*	—	—
London, Westminster 6	11	9	27	24	19	17
London, Westminster 7	7	6	39	29	23	18
London, Westminster 8	16*	17*	—	—	—	—
London, Westminster 9	19*	18*	—	—	—	—
London, Westminster 10	21	18	40	28	31	23
London, Westminster 11	16	14	46	34	31	24
London, Woolwich 1	18	13	38	41	28	27
London, Woolwich 7	12	8	32	33	22	21
London, Woolwich 8	11	6	37	30	24	18
London, Woolwich 9	10	8	33	29	22	19
London, Woolwich 10	16‡	11‡	41	33	29	22
Longbenton 1	9	8	16	14	13	11
Luton 1	4	4	9	12	7	8
Lytham St. Annes 1	5	5	12	11	9	8
Maltby 1	7	7	14	13	11	10
Manchester 9	21	20	31	27	26	24
Morley 3	22	16	32	22	27	19
Mytholmroyd 1	6‖	6‖	20	18	13	12
Newcastle upon Tyne 5	—	—	90*	57*	—	—
Newcastle upon Tyne 10	—	—	24	18	—	—
Nottingham 1	7	5	14	11	11	8
Nuneaton 1	14§	10§	25	30	20	20
Otley 2	9‖	8‖	18	12	14	10
Oxford 11	—	—	18	14	—	—
Pembroke Dock 1	1	1	2	2	2	2
Pontefract 1	15	14	22	21	19	18
Portsmouth 1	10§	7§	29	18	20	13
Portsmouth 2	8§	5§	24	15	16	10
Portsmouth 3	2§	5§	17	14	10	10
Portsmouth 4	8§	6§	19	11	14	9
Preston 4	18	11	24	18	21	15
Rawmarsh 2	40	32	56	46	48	39
Ripon 1	13	9	21	15	17	12
Rothwell 2	16	11	30	23	23	17
Saddleworth 1	10	7	18	15	14	11
St. Helens 7	33	36	40	35	37	36
Sale 4	10	10	35	30	23	20
Salford 2	35	29	65	61	50	45
Sheffield 2	14	13	26	25	20	19
Sheffield 8	26	26	37‖	43‖	32	35
Sheffield 32	16	18	37‖	30‖	27	24
Sheffield 36	15	21	42‖	42‖	29	32
Sheffield 37	19	24	46	45	33	35
Sheffield 38	21	24	39	41	30	33
Sheffield 39	18	21	44	45	31	33
Sheffield 40	14	19	35	40	25	30
Sheffield 41	20	25	43	43	32	34
Skipton 1	25*	17*	—	—	—	—

TABLE 10 (contd.)

Site of instrument	Average smoke concentration, milligrammes per 100 cubic metres					
	Summer		Winter		Year	
	Week-day	Week-end	Week-day	Week-end	Week-day	Week-end
Slaithwaite 2	15	12	21	15	18	14
Southampton 22	14§	9§	15†	11†	15	10
Southampton 23	4‖	4‖	17	14	11	9
Southampton 24	6	5	19‖	17‖	13	11
Southampton 25	5‖	4‖	14	11	10	8
Southampton 26	5	4	15	12	10	8
Stocksbridge 9	30	23	35	25	33	24
Stornoway 1	T	T	1	1	1	1
Stourbridge 1	—	—	14†	9†	—	—
Teddington 2	—	—	11§	8§	—	—
Thorne 1	5‖	7‖	14	15	10	11
Tottenham 3	12‡	8‡	27	28	20	18
Wallsend 2	23	24	50	43	37	34
Walsall 11	14	9	41	27	28	18
Warrington 8	10	10	23	19	17	15
Wednesfield 1	12	9	20	17	16	13
Wetherby 1	9	7	10	8	10	8
Willenhall 1	75‖	45‖	68	37	72	41
Willesden 8	17‖	13‖	48	42	33	28
Witham 2	—	—	9†	8†	—	—
Wolverhampton 3	3	3	8	6	6	5
Wombwell 1	34‖	20‖	37	31	30	26
Woodford 1	8‖	6‖	30	29	19	18
Yeadon 1	7‖	7‖	—	—	—	—
Yiewsley and West Drayton 1	4	4	18‖	10‖	11	7

* One month only.
† Three months only.
§Two months only.
‡Four months only.
‖ Five months only.

TABLE 11.—*Suspended Matter (Smoke)—Hourly Averages, 1956–7*

Times are given as local time, which may be either Greenwich Mean Time or British Summer Time, which latter was in force from 22nd April to 7th October. See note on page 17 on the significance of smoke concentrations.

Site of Instrument	Number of months S	Number of months W	Days of the week	Average smoke concentration, milligrammes per 100 cubic metres, for the hour ending: 1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	12 noon	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	12 mdt.
Glasgow 1 ..	6		weekdays	21	15	13	14	15	27	44	65	71	57	47	42	38	36	37	39	45	53	55	52	52	47	38	29
	6		Saturdays	24	22	19	20	20	26	42	59	63	56	45	45	39	31	33	39	44	47	49	53	53	52	45	27
	6		Sundays	17	9	6	6	7	7	7	10	15	16	20	24	26	23	22	25	26	30	31	35	38	31	30	23
		6	weeekdays	29	24	22	22	28	42	64	89	101	89	85	79	75	73	75	83	92	100	100	97	91	78	63	43
		6	Saturdays	28	23	20	20	25	36	59	89	101	99	100	108	95	86	87	95	100	109	112	106	102	91	79	60
		6	Sundays	35	21	15	13	14	17	20	26	35	40	44	49	56	63	73	75	83	87	98	92	84	79	58	41
Glasgow 5 ..	6		weekdays	12	11	9	9	10	11	13	15	16	16	14	13	11	10	11	11	12	14	14	16	16	17	16	14
	6		Saturdays	14	12	11	10	10	9	10	9	10	10	8	8	8	8	7	6	6	7	8	8	8	9	10	7
	6		Sundays	10	9	9	9	9	9	9	9	8	9	11	9	11	10	9	8	8	8	9	11	11	12	17	13
		6	weekdays	22	23	23	23	23	25	29	37	46	49	48	48	46	44	43	46	47	50	53	55	49	43	35	30
		6	Saturdays	29	27	28	27	24	19	22	31	36	38	36	35	35	30	29	31	33	38	37	36	37	36	29	20
		6	Sundays	14	9	10	12	14	15	17	17	25	28	33	31	36	34	26	29	25	25	27	28	26	22	20	15
Glasgow 10 ..	4		weekdays	13	12	10	10	11	13	18	23	28	23	19	18	15	15	16	15	17	21	21	27	31	28	24	19
	4		Saturdays	11	10	10	11	11	12	12	12	14	13	15	11	12	9	9	9	8	8	9	15	17	15	15	11
	4		Sundays	8	6	7	6	8	8	7	8	13	10	9	8	8	8	8	8	7	7	9	12	14	14	14	13
		6	weekdays	16	12	12	11	13	15	19	28	38	40	38	32	28	29	31	31	32	40	44	45	40	33	29	23
		6	Saturdays	16	14	17	19	12	14	15	23	35	42	38	31	31	34	29	28	30	30	33	34	37	42	39	28
		6	Sundays	19	16	12	12	12	14	11	12	15	24	28	29	28	28	32	32	36	38	44	51	47	37	29	20
Kew 1	6		weekdays	9	9	9	9	9	9	10	10	10	9	9	8	8	8	8	8	8	8	8	10	10	10	10	9
	6		Saturdays	10	9	9	9	9	9	9	9	8	8	8	8	8	9	8	8	8	8	8	9	10	9	9	8
	6		Sundays	8	8	8	8	8	8	8	8	8	8	9	9	9	9	8	7	8	8	8	9	10	10	10	10
		6	weekdays	12	10	9	8	8	8	10	11	13	12	12	11	10	10	10	11	14	19	22	23	22	19	17	14
		6	Saturdays	11	8	7	6	6	7	7	9	10	10	9	9	9	10	11	11	13	18	18	24	22	20	15	16
		6	Sundays	14	10	9	8	8	8	8	8	13	13	12	12	12	12	11	11	13	16	18	20	23	19	14	12
Liverpool 12 ..	1		weekdays	16	14	14	11	9	11	19	17	14	15	14	16	18	18	21	22	32	35	42	49	53	50	44	27
	1		Saturdays	32	12	12	4	4	12	12	16	12	16	16	16	16	12	8	16	12	16	28	32	48	40	16	16
	1		Sundays	13	10	3	3	6	6	6	3	10	13	16	16	13	6	6	13	10	13	26	29	29	26	10	16
Liverpool 14 ..	4		weekdays	9	11	10	12	15	20	25	26	29	30	31	29	25	25	25	23	27	27	28	30	32	27	23	13
	4		Saturdays	15	14	17	16	12	20	25	29	24	26	28	22	22	24	24	26	21	19	20	25	24	20	18	16
	4		Sundays	15	15	12	11	11	19	21	27	26	20	21	21	22	23	20	23	20	20	20	26	25	19	17	10
		6	weekdays	36	33	33	33	37	45	63	72	80	78	75	71	69	68	68	68	75	74	75	76	70	70	63	41
		6	Saturdays	30	28	30	28	31	39	58	68	74	75	63	60	57	57	57	59	61	64	69	66	63	60	53	42
		6	Sundays	33	28	24	25	26	30	36	48	56	58	49	48	49	47	46	50	53	52	55	62	53	48	45	38
London :																											
Westminster 7	6		weekdays	17	17	17	17	17	17	18	20	19	18	18	18	17	17	17	17	17	18	18	18	19	18	18	18
	6		Saturdays	17	17	17	16	17	16	16	17	17	17	16	16	17	16	17	17	16	17	17	17	17	17	17	16
	6		Sundays	17	17	17	17	17	17	19	18	17	17	17	17	17	17	16	16	16	17	17	17	17	17	17	16
		4	weekdays	26	26	25	25	24	23	25	30	34	31	31	32	30	28	32	33	39	47	46	41	34	28	27	26
		4	Saturdays	17	19	19	19	22	26	26	33	31	26	28	25	29	28	26	32	41	61	49	45	41	41	36	28
		4	Sundays	26	25	25	25	26	26	29	28	28	29	26	26	32	28	31	29	32	27	49	26	28	25	32	20

(75054)

TABLE 12.—*Sulphur Dioxide (Volumetric Method)—Monthly and Seasonal Averages, 1956–7*

The results in this table are derived from measurements of the mean daily concentrations of sulphur dioxide.
T indicates trace, i.e. less than 0·5 parts per 100 million by volume.
One part of sulphur dioxide per 100 million by volume equals 2·86 milligrammes per 100 cubic metres.

Site of instrument	Result reported	Sulphur dioxide concentration, parts per 100 million, by volume														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
Barnes 1 ..	average	8	3	2	2	2	4	5	10	7	5	6	5	3	6	5
	highest daily mean	24	9	4	6	8	16	16	32	39	14	21	19			
Belfast 11 ..	average	6	4	2	2	2	2	2	2	2	2	2	5	3	3	3
	highest daily mean	11	7	5	3	3	3	3	3	3	4	5	10			
Bilston 3 ..	average	5	4	4	3	3	2	3	5	5	3	4	5	4	4	4
	highest daily mean	14	7	7	8	5	4	10	33	28	6	9	9			
Bolton 9 ..	average	9	8	7	4	6	8	13	14	17	14	16	12	7	14	11
	highest daily mean	18	12	9	8	9	15	27	32	62	36	25	22			
Bradford 6 ..	average	12	8	6	5	6	9	12	14	18	12	16	15	8	14	11
	highest daily mean	23	15	9	8	9	19	25	36	72	21	34	28			
Braintree 4 ..	average	—	—	—	—	—	—	—	—	—	—	5	4	—	4	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	7	6			
Brentford 1 ..	average	8	4	3	3	2	4	5	8	6	4	6	7	4	6	5
	highest daily mean	21	9	7	9	6	13	14	20	28	12	18	24			
Brierley Hill 9	average	6	3	2	2	2	4	5	8	6	8	7	5	3	6	5
	highest daily mean	12	8	3	8	7	13	12	31	20	17	16	7			
Burnley 4 ..	average	9	6	5	3	4	5	8	11	10	8	10	8	5	9	7
	highest daily mean	15	10	10	6	7	9	19	30	49	18	21	19			
Cannock 1 ..	average	1	1	1	2	2	3	4	6	6	3	—	—	2	5	4
	highest daily mean	1	1	2	3	4	8	15	24	19	8	—	—			
Cardiff 2 ..	average	3	2	1	1	1	2	3	4	3	4	4	3	2	4	3
	highest daily mean	8	4	4	4	3	3	9	8	6	9	7	6			
Carshalton 4 ..	average	5	2	1	1	1	2	3	7	5	5	4	3	2	5	4
	highest daily mean	10	6	3	4	4	4	10	22	18	12	10	8			
Chigwell 1 ..	average	—	—	—	—	—	—	3	4	5	7	5	3	—	5	—
	highest daily mean	—	—	—	—	—	—	7	8	11	19	10	7			
Chiswick 1 ..	average	9	—	3	3	2	4	6	8	9	5	7	8	4	7	6
	highest daily mean	20	—	5	6	6	14	16	17	30	15	19	28			

Chiswick 2 ..	average	9	4	4	—	3	5	7	9	9	5	8	—	5	8	7
	highest daily mean	17	7	7	—	6	18	18	22	34	13	19	—			
Croydon 11 ..	average	—	—	—	—	—	—	—	—	—	7	7	5	—	6	—
	highest daily mean	—	—	—	—	—	—	—	—	—	17	16	16			
Dagenham 2 ..	average	4	4	2	1	3	3	7	7	10	7	9	6	3	8	6
	highest daily mean	12	8	4	4	6	5	20	18	24	14	18	10			
Dartford 6 ..	average	—	—	—	—	—	—	—	8	6	5	5	3	—	5	—
	highest daily mean	—	—	—	—	—	—	—	21	24	16	12	11			
Doncaster 16 ..	average	10	—	—	—	5	6	12	16	11	11	14	10	7	12	10
	highest daily mean	17	—	—	—	10	12	29	31	20	21	28	17			
Dunmow 3 ..	average	—	—	—	—	—	—	—	—	—	—	1	1	—	1	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	1	1			
Ealing 3 ..	average	—	—	—	—	—	—	—	—	9	5	8	7	—	7	—
	highest daily mean	—	—	—	—	—	—	—	—	32	22	20	17			
East Kilbride 1	average	1	1	1	T	1	1	1	2	1	1	2	1	1	1	1
	highest daily mean	3	2	3	1	2	3	3	5	2	9	4	3			
Erith 1	average	2	3	2	1	2	2	3	3	2	1	2	1	2	2	2
	highest daily mean	6	6	7	4	6	6	12	8	8	5	6	4			
Exeter 1 ..	average	4	2	1	2	2	3	2	5	5	4	4	6	2	4	3
	highest daily mean	10	6	6	4	7	11	9	20	13	19	9	12			
Glasgow 1 ..	average	9	6	6	5	8	7	12	15	9	15	15	9	7	12	10
	highest daily mean	18	10	17	9	15	18	27	33	23	68	33	17			
Hayes 1 ..	average	5	2	2	1	—	3	4	7	7	5	6	6	3	6	5
	highest daily mean	15	5	6	3	—	10	18	19	29	11	15	24			
Hayes 2 ..	average	6	2	1	1	1	2	3	7	5	4	5	6	2	5	4
	highest daily mean	11	3	2	3	3	6	14	15	16	14	14	31			
Hayes 3 ..	average	5	2	1	1	1	3	4	6	5	3	—	—	2	4	3
	highest daily mean	15	5	2	3	4	8	18	17	33	7	—	—			
Helmshore 1 ..	average	3	2	1	1	1	3	4	5	8	5	6	4	2	5	4
	highest daily mean	12	6	3	3	4	7	14	17	36	10	12	12			
Hornchurch 1 ..	average	4	3	2	2	2	2	5	7	8	6	7	5	2	6	4
	highest daily mean	10	8	4	5	4	5	15	16	23	14	20	8			
Hornsey 4 ..	average	—	—	—	—	—	—	—	—	—	8	10	10	—	9	—
	highest daily mean	—	—	—	—	—	—	—	—	—	23	21	20			
Hornsey 6 ..	average	—	—	—	—	3	4	6	7	9	7	9	8	4	8	6
	highest daily mean	—	—	—	—	5	9	15	14	23	22	23	17			
Hornsey 7 ..	average	—	—	—	—	2	3	5	6	6	4	7	6	2	6	4
	highest daily mean	—	—	—	—	4	6	14	14	20	16	17	18			
Kingston upon Hull 2	average	4	3	3	2	3	3	6	7	6	5	8	5	3	6	5
	highest daily mean	8	6	5	3	6	5	15	13	17	10	19	11			

TABLE 12 (contd.)

Site of instrument	Result reported	Sulphur dioxide concentration, parts per 100 million, by volume														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
Lancaster 4 ..	average	5	4	4	3	4	6	9	—	—	6	7	6	4	7	6
	highest daily mean	15	10	7	10	6	15	21	—	—	17	15	11			
Leeds 4 ..	average	11	9	7	6	7	9	14	18	21	16	21	16	8	18	13
	highest daily mean	24	17	11	11	11	19	27	36	61	28	40	32			
Leeds 8 ..	average	7	5	4	4	5	7	9	11	21	11	16	16	5	14	10
	highest daily mean	18	12	8	9	14	18	19	39	87	41	29	29			
Leicester 5 ..	average	5	3	2	1	1	2	6	10	6	5	7	6	2	7	5
	highest daily mean	8	7	4	2	3	6	15	31	14	15	27	11			
Leyton 1 ..	average	7	4	—	3	3	4	9	12	13	9	12	10	4	11	8
	highest daily mean	15	6	—	5	5	9	18	22	25	18	20	21			
London:																
Battersea 2 ..	average	—	—	—	—	—	—	—	12	12	8	10	10	—	10	—
	highest daily mean	—	—	—	—	—	—	—	43	49	17	20	32			
Bermondsey 3	average	13	8	6	4	5	7	11	14	15	10	14	11	7	12	10
	highest daily mean	25	17	14	11	13	19	26	32	32	25	22	23			
Bethnal Green 2	average	—	5	4	4	4	6	13	13	15	12	14	11	5	13	9
	highest daily mean	—	12	7	6	7	11	31	23	34	25	27	21			
Camberwell 3	average	8	4	2	2	2	3	7	11	13	8	9	7	3	9	6
	highest daily mean	17	11	4	5	6	11	14	30	48	18	20	27			
Chelsea 2 ..	average	11	6	5	5	5	7	12	16	19	15	15	8	6	14	10
	highest daily mean	23	9	12	9	8	17	20	39	52	32	25	23			
Chelsea 3 ..	average	11	5	4	4	—	7	6	15	13	10	11	—	6	11	9
	highest daily mean	19	9	9	7	—	20	11	35	43	23	22	—			
City 1 ..	average	10	5	3	4	4	6	10	13	15	11	13	10	5	12	9
	highest daily mean	22	15	10	9	7	17	26	27	36	24	23	32			
City 9 ..	average	14	9	5	7	10	11	12	16	11	9	8	10	9	11	10
	highest daily mean	33	16	16	13	18	25	27	48	23	15	13	22			
City 10 ..	average	—	—	—	7	8	9	14	18	—	14	16	15	8	15	12
	highest daily mean	—	—	—	14	14	21	26	27	—	27	26	33			
City 11 ..	average	15	7	4	5	5	8	13	17	15	14	15	15	7	15	11
	highest daily mean	27	12	6	8	11	27	30	32	51	28	33	29			
City 12 ..	average	14	8	6	6	6	8	14	18	16	14	16	16	8	16	12
	highest daily mean	19	14	9	11	9	28	23	26	22	23	26	26			

Deptford 1 ..	average	10	6	3	4	3	5	8	13	10	8	9	8	5	9	7
	highest daily mean	18	10	9	6	8	9	15	31	33	19	20	23			
Deptford 2	average	10	6	4	4	4	5	9	14	12	9	9	8	5	10	8
	highest daily mean	17	13	8	9	12	12	19	30	41	23	20	18			
Finsbury 1 ..	average	13	7	4	5	5	7	13	17	18	14	16	15	7	15	11
	highest daily mean	23	17	7	10	8	25	29	28	47	31	30	31			
Fulham 1 ..	average	—	—	—	—	4	5	9	11	9	9	9	9	4	9	7
	highest daily mean	—	—	—	—	9	14	25	22	26	16	20	18			
Fulham 6 ..	average	—	—	—	—	4	7	10	17	15	9	12	12	6	12	9
	highest daily mean	—	—	—	—	11	22	24	43	60	21	26	39			
Greenwich 2	average	13	10	9	—	6	9	15	19	16	14	—	—	9	16	13
	highest daily mean	22	19	22	—	13	22	30	40	44	41	—	—			
Greenwich 3	average	6	5	5	5	6	6	12	13	11	9	10	8	6	11	9
	highest daily mean	20	11	15	8	12	14	19	29	34	29	20	15			
Greenwich 4	average	7	6	4	3	3	3	8	12	10	7	8	4	4	8	6
	highest daily mean	16	11	9	8	6	6	15	23	37	20	16	10			
Greenwich 5	average	10	6	4	4	3	4	8	12	12	9	9	6	5	9	7
	highest daily mean	18	13	9	7	5	9	14	20	36	21	20	16			
Hackney 4	average	9	4	3	3	3	3	8	11	13	10	13	11	4	11	8
	highest daily mean	20	8	5	5	5	8	19	24	31	23	31	30			
Hackney 5 ..	average	9	5	4	4	4	6	8	10	8	6	10	10	5	9	7
	highest daily mean	21	10	7	8	6	15	18	21	34	16	24	24			
Hackney 6 ..	average	7	4	3	3	3	4	7	9	9	6	9	9	4	8	6
	highest daily mean	17	9	5	7	5	11	16	20	30	16	20	22			
Hammersmith 4	average	13	6	3	3	3	6	7	11	—	6	8	8	5	8	7
	highest daily mean	36	17	6	9	8	19	18	24	—	18	19	29			
Hammersmith 5	average	13	8	5	4	4	6	9	11	—	8	10	13	7	10	9
	highest daily mean	28	19	11	8	8	17	22	23	—	33	17	27			
Hampstead 3	average	9	4	3	3	3	5	8	10	11	8	11	—	4	10	7
	highest daily mean	23	9	7	7	6	16	23	21	30	24	27	—			
Hampstead 4	average	8	4	2	3	3	4	7	10	11	7	10	11	4	9	7
	highest daily mean	20	7	5	4	5	11	19	22	27	18	23	27			
Islington 1 ..	average	—	—	—	—	—	—	—	—	—	10	13	12	—	12	—
	highest daily mean	—	—	—	—	—	—	—	—	—	15	25	23			
Islington 2 ..	average	—	—	—	—	—	—	—	—	—	11	15	13	—	13	—
	highest daily mean	—	—	—	—	—	—	—	—	—	17	29	30			
Kensington 1	average	12	6	4	5	5	8	10	14	15	10	13	13	7	12	10
	highest daily mean	25	13	6	8	10	25	29	31	53	21	25	34			
Kensington 4	average	13	6	4	4	4	6	10	13	16	9	11	13	6	12	9
	highest daily mean	30	11	7	7	7	14	25	26	56	22	25	34			
Lambeth 2 ..	average	12	7	7	5	5	8	12	15	17	14	15	14	7	14	11
	highest daily mean	26	14	15	10	10	24	22	25	43	25	27	33			

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TABLE 12 (contd.)

Site of instrument	Result reported	Sulphur dioxide concentration, parts per 100 million, by volume														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
London:																
Lambeth 6 ..	average	11	6	4	4	4	7	11	13	14	10	12	12	6	12	9
	highest daily mean	24	12	6	8	8	26	24	24	44	24	28	32			
Lambeth 7 ..	average	9	5	4	3	3	4	8	10	15	10	12	11	5	11	8
	highest daily mean	19	10	8	4	7	9	17	40	51	21	21	33			
Lambeth 8 ..	average	10	6	4	4	4	7	10	13	14	10	12	12	6	12	9
	highest daily mean	23	12	7	8	9	24	24	26	46	21	25	30			
Lambeth 9 ..	average	9	6	4	3	4	4	9	14	14	9	10	9	5	11	8
	highest daily mean	16	11	9	7	8	12	16	35	47	17	22	21			
Lambeth 10	average	12	8	6	5	7	7	12	19	15	9	9	10	7	12	10
	highest daily mean	21	17	10	10	13	20	24	50	54	24	19	24			
Paddington 2	average	13	5	4	4	4	7	10	14	15	10	12	13	6	12	9
	highest daily mean	22	8	6	7	7	26	26	28	53	17	21	45			
St. Marylebone 6	average	12	6	4	4	4	7	11	15	15	11	15	16	6	14	10
	highest daily mean	21	14	7	8	8	26	30	25	47	28	31	41			
St. Marylebone 7	average	9	4	2	2	3	5	9	13	15	—	12	14	4	13	9
	highest daily mean	20	9	5	7	5	19	23	24	42	—	26	36			
St. Pancras 4	average	13	7	4	5	—	—	—	15	18	13	14	14	7	15	11
	highest daily mean	23	13	6	8	—	—	—	24	43	22	26	33			
St. Pancras 5	average	4	2	1	1	2	2	3	4	5	3	3	4	2	4	3
	highest daily mean	8	4	3	3	3	5	7	7	10	8	6	10			
Shoreditch 1	average	12	6	5	5	5	7	11	13	16	13	14	12	7	13	10
	highest daily mean	25	13	13	8	9	22	25	28	39	32	27	26			
Southwark 3	average	—	—	2	3	3	5	9	14	15	9	11	10	3	11	7
	highest daily mean	—	—	4	7	8	19	22	35	51	20	25	29			
Stepney 3 ..	average	13	7	5	5	8	11	13	12	17	10	13	11	8	13	11
	highest daily mean	32	15	9	16	11	24	23	15	38	22	23	24			
Stepney 4 ..	average	13	7	—	4	4	7	11	12	15	11	14	12	7	12	10
	highest daily mean	25	13	—	8	9	19	23	28	42	25	29	24			
Wandsworth 1	average	10	6	4	3	4	5	10	15	16	12	10	13	5	13	9
	highest daily mean	17	14	9	5	11	8	28	27	44	35	13	24			
Wandsworth 2	average	8	3	2	3	2	4	5	8	8	5	5	5	4	6	5
	highest daily mean	18	7	3	7	8	16	14	26	39	12	15	18			
Wandsworth 3	average	—	—	—	—	—	2	—	10	10	6	—	4	2	8	5
	highest daily mean	—	—	—	—	—	4	—	41	37	16	—	7			
Wandsworth 4	average	—	—	—	—	—	—	—	—	—	7	9	7	—	8	—
	highest daily mean	—	—	—	—	—	—	—	—	—	16	15	19			
Wandsworth 5	average	—	—	—	—	—	—	—	—	—	—	—	9	—	9	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	—	16			
Westminster 6	average	13	6	4	4	4	5	13	21	29	10	10	10	6	16	11
	highest daily mean	25	14	7	7	8	13	26	42	88	22	20	26			
Westminster 7	average	13	12	4	6	9	7	15	20	22	13	18	15	8	17	13
	highest daily mean	34	40	8	9	34	16	28	43	65	23	30	40			
Westminster 8	average	9	—	—	—	—	—	—	—	—	—	—	—	9	—	—
	highest daily mean	17	—	—	—	—	—	—	—	—	—	—	—			
Westminster 9	average	9	—	—	—	—	—	—	—	—	—	—	—	9	—	—
	highest daily mean	17	—	—	—	—	—	—	—	—	—	—	—			
Westminster 10	average	16	9	7	6	8	9	15	18	20	16	18	17	9	17	13
	highest daily mean	27	17	10	10	11	24	32	30	61	27	37	40			
Westminster 11	average	12	9	5	7	8	8	14	17	17	13	15	14	8	15	12
	highest daily mean	22	22	8	10	11	18	23	35	49	21	25	41			
Woolwich 1	average	8	10	5	6	14	6	10	10	15	14	16	13	8	13	11
	highest daily mean	30	23	21	18	58	19	33	30	31	30	37	39			
Woolwich 7	average	6	4	3	2	2	2	5	10	8	6	6	5	3	7	5
	highest daily mean	11	9	7	4	4	4	11	19	34	16	14	13			
Woolwich 8	average	7	4	3	2	2	2	6	11	7	5	6	5	3	7	5
	highest daily mean	14	13	8	5	4	6	13	26	36	22	15	13			
Woolwich 9	average	7	5	4	3	3	2	7	12	8	6	6	6	4	7	6
	highest daily mean	14	14	13	8	8	9	14	25	40	23	22	16			
Woolwich 10	average	10	7	6	4	—	—	9	15	10	7	9	7	7	10	9
	highest daily mean	16	15	12	9	—	—	16	28	37	19	21	15			
Longbenton 1 ..	average	3	2	1	1	2	3	3	4	6	4	6	6	2	5	4
	highest daily mean	14	7	2	3	5	8	5	10	28	9	19	11			
Luton 1 ..	average	2	2	1	T	0	0	T	4	5	2	3	2	1	3	2
	highest daily mean	4	6	2	2	T	0	2	10	11	7	5	6			
Manchester 9 ..	average	12	7	6	5	6	6	12	16	12	12	12	9	7	12	10
	highest daily mean	22	11	10	9	10	13	30	40	41	40	36	25			
Mytholmroyd 1	average	4	2	2	1	2	—	4	5	5	3	6	6	2	5	4
	highest daily mean	13	5	5	3	4	—	11	26	23	9	13	11			
Newcastle upon Tyne 5	average	—	—	—	—	—	—	—	—	—	—	—	10	—	10	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	—	18			

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TABLE 12 (contd.)

Site of instrument	Result reported	Sulphur dioxide concentration, parts per 100 million, by volume														
		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Summer	Winter	Year
Newcastle upon Tyne 10	average	—	—	—	—	—	—	5	4	3	3	4	4	—	4	—
	highest daily mean	—	—	—	—	—	—	10	9	22	8	21	10			
Nottingham 1 ..	average	3	2	1	1	1	2	4	5	5	3	4	4	2	4	3
	highest daily mean	6	6	3	3	3	19	11	10	20	6	12	7			
Nuneaton 1 ..	average	—	—	—	—	2	3	11	9	9	9	11	9	2	10	6
	highest daily mean	—	—	—	—	5	7	24	29	29	23	34	15			
Oxford 11 ..	average	—	—	—	—	—	—	4	8	5	5	5	3	—	5	—
	highest daily mean	—	—	—	—	—	—	8	19	16	13	13	6			
Portsmouth 1 ..	average	—	—	—	—	1	1	2	5	5	3	3	3	1	3	2
	highest daily mean	—	—	—	—	3	2	6	11	12	7	6	8			
Portsmouth 2 ..	average	—	—	—	—	1	1	1	2	2	1	3	3	1	2	2
	highest daily mean	—	—	—	—	1	2	3	7	5	5	7	5			
Portsmouth 3 ..	average	—	—	—	—	1	1	2	2	2	1	2	—	1	2	2
	highest daily mean	—	—	—	—	2	2	3	6	4	3	5	—			
Portsmouth 4 ..	average	—	—	—	—	1	1	1	2	3	2	2	2	1	2	2
	highest daily mean	—	—	—	—	2	1	4	4	11	4	5	4			
Preston 4 ..	average	6	5	4	4	4	5	8	11	11	11	11	7	5	10	8
	highest daily mean	20	9	13	12	10	14	16	28	88	34	21	26			
Sale 4	average	9	4	3	2	3	4	9	12	8	9	8	8	4	9	7
	highest daily mean	16	12	5	4	10	10	26	36	34	26	21	20			
Salford 2 ..	average	13	9	8	6	8	8	15	22	20	15	18	16	9	18	14
	highest daily mean	22	16	13	10	12	13	32	54	73	42	39	40			
Sheffield 2 ..	average	12	7	6	6	6	10	17	22	24	15	18	11	8	18	13
	highest daily mean	23	11	10	9	13	17	27	45	48	29	43	25			
Sheffield 8 ..	average	14	11	6	5	8	10	—	17	15	14	15	13	9	15	12
	highest daily mean	20	22	17	12	22	18	—	45	40	27	28	20			
Sheffield 32 ..	average	10	5	6	4	6	6	—	14	13	8	13	10	6	12	9
	highest daily mean	22	10	9	8	16	15	—	57	78	19	40	23			
Sheffield 36 ..	average	10	5	4	4	5	4	—	11	10	7	11	9	5	10	8
	highest daily mean	21	9	6	6	10	7	—	48	61	18	28	23			
Sheffield 37 ..	average	6	4	5	4	5	6	9	12	12	9	15	12	5	11	8
	highest daily mean	9	11	7	7	13	13	19	40	86	23	40	29			
Sheffield 38 ..	average	12	8	8	7	9	9	14	15	16	12	16	13	9	14	12
	highest daily mean	25	14	11	11	14	21	30	40	57	20	29	24			
Sheffield 39 ..	average	7	5	5	4	5	7	11	15	13	11	14	12	5	13	9
	highest daily mean	14	12	11	6	11	12	23	49	72	20	30	27			
Sheffield 40 ..	average	8	6	6	5	6	6	8	10	10	7	14	11	6	10	8
	highest daily mean	14	11	14	9	12	11	16	26	56	15	37	23			
Sheffield 41 ..	average	11	7	6	5	6	7	9	13	15	9	13	12	7	12	10
	highest daily mean	21	14	10	11	15	15	16	33	72	18	24	22			
Southampton 22	average	—	—	—	—	—	2	4	—	—	3	—	5	2	4	3
	highest daily mean	—	—	—	—	—	6	12	—	—	8	—	8			
Southampton 23	average	—	3	2	2	3	2	5	5	4	3	3	3	2	4	3
	highest daily mean	—	10	4	6	14	5	11	11	14	7	7	9			
Southampton 24	average	4	2	1	1	2	2	4	5	5	—	4	4	2	4	3
	highest daily mean	9	6	5	3	5	5	11	15	12	—	13	12			
Southampton 25	average	3	2	1	—	1	1	—	3	—	2	2	3	2	2	2
	highest daily mean	6	3	4	—	3	2	—	9	—	10	6	6			
Southampton 26	average	8	5	2	1	1	1	4	4	4	3	3	2	3	3	3
	highest daily mean	21	11	4	3	2	4	10	13	7	5	6	5			
Stocksbridge 9..	average	3	4	4	4	4	5	5	9	9	5	6	5	4	6	5
	highest daily mean	8	10	8	7	7	10	10	24	23	11	9	12			
Teddington 2 ..	average	—	—	—	—	—	—	—	—	—	—	5	4	—	4	—
	highest daily mean	—	—	—	—	—	—	—	—	—	—	13	18			
Tottenham 3 ..	average	8	4	—	—	2	3	8	11	7	6	8	8	4	8	6
	highest daily mean	19	10	—	—	5	11	17	44	37	13	18	19			
Wallsend 2 ..	average	8	6	5	3	5	7	—	9	12	10	13	11	6	11	9
	highest daily mean	18	13	12	7	8	16	—	18	41	20	20	23			
Walsall 11 ..	average	8	6	6	4	4	6	11	13	16	11	13	11	6	12	9
	highest daily mean	12	13	9	9	8	12	23	31	54	22	19	16			
Warrington 8 ..	average	10	7	5	5	6	7	12	14	12	13	14	12	7	13	10
	highest daily mean	17	11	10	8	13	11	25	43	28	30	37	19			
Wednesfield 1 ..	average	6	4	1	1	2	2	3	3	4	5	4	6	3	4	4
	highest daily mean	11	9	3	3	3	4	6	5	12	15	7	20			
Willenhall 1 ..	average	4	2	1	1	—	2	5	6	7	6	8	6	2	6	4
	highest daily mean	8	4	2	3	—	7	8	13	26	12	12	11			
Willesden 8 ..	average	—	4	3	3	3	5	8	11	11	7	10	12	4	10	7
	highest daily mean	—	12	7	7	5	14	22	24	40	21	21	27			
Wolverhampton 3	average	6	2	2	2	2	3	5	7	6	5	7	6	3	6	5
	highest daily mean	11	7	4	4	6	10	13	27	35	11	17	14			
Woodford 1 ..	average	5	4	2	—	3	3	6	8	11	8	11	8	3	9	6
	highest daily mean	11	9	5	—	5	8	18	23	26	21	21	20			
Yeadon 1 ..	average	3	3	3	1	2	—	—	—	—	—	—	1	2	1	2
	highest daily mean	8	4	6	4	5	—	—	—	—	—	—	5			

TABLE 13.—*Sulphur Dioxide (Volumetric Method)*
Week-day and Week-end Averages, 1956–7

T indicates trace, i.e. less than 0·5 parts per 100 million by volume.

One part of sulphur dioxide per 100 million by volume equals 2·86 milligrammes per 100 cubic metres.

Site of Instrument	Sulphur dioxide concentration, parts per 100 million, by volume					
	Summer		Winter		Year	
	Week-day	Week-end	Week-day	Week-end	Week-day	Week-end
Barnes 1	4	3	7	5	6	4
Belfast 11	3	2	3	2	3	2
Bilston 3	4	3	5	3	5	3
Bolton 9	7	6	15	12	11	9
Bradford 6	8	6	16	11	12	9
Braintree 4	—	—	4§	4§	—	—
Brentford 1	4	3	7	5	6	4
Brierley Hill 9	3	3	8	5	6	4
Burnley 4	6	4	10	7	8	6
Cannock 1	2	1	5‡	4‡	4	3
Cardiff 2	2	2	4	3	3	3
Carshalton 4	2	2	5	4	4	3
Chigwell 1	—	—	5	4	—	—
Chiswick 1	4‖	3‖	8	7	6	5
Chiswick 2	5‖	4‖	8‖	7‖	7	6
Croydon 11	—	—	7†	5†	—	—
Dagenham 2	3	2	8	8	6	5
Dartford 6	—	—	6‖	5‖	—	—
Doncaster 16	8†	6†	14	10	11	8
Dunmow 3	—	—	1§	1§	—	—
Ealing 3	—	—	8‡	6‡	—	—
East Kilbride 1	1	1	1	1	1	1
Erith 1	3	1	2	2	3	2
Exeter 1	2	2	5	4	4	3
Glasgow 1	7	6	12	12	10	9
Hayes 1	3‖	2‖	7	4	5	3
Hayes 2	2	2	5	4	4	3
Hayes 3	2	2	5‡	3‡	4	3
Helmshore 1	2	2	9	6	6	4
Hornchurch 1	3	2	6	6	5	4
Hornsey 4	—	—	9†	9†	—	—
Hornsey 6	3§	4§	8	7	6	6
Hornsey 7	2§	2§	6	6	4	4
Kingston upon Hull 2	3	3	5	5	4	4
Lancaster 4	4	4	7‡	7‡	6	6
Leeds 4	9	7	20	14	15	11
Leeds 8	6	5	15	12	11	9
Leicester 5	3	2	7	5	5	4
Leyton 1	4‖	3‖	11	10	8	7
London, Battersea 2	—	—	11‖	9‖	—	—
London, Bermondsey 3	8	5	13	10	11	8
London, Bethnal Green 2	5‖	4‖	13	13	9	9
London, Camberwell 3	4	3	10	8	7	6
London, Chelsea 2	7	6	15	13	11	10
London, Chelsea 3	6‖	6‖	12‖	8‖	9	7
London, City 1	6	4	13	13	11	9
London, City 9	10	9	10	12	10	11
London, City 10	9†	6†	29‖	26‖	24	20
London, City 11	8	6	20	16	14	11
London, City 12	9	6	12	13	10	9
London, Deptford 1	6	4	9	8	8	6
London, Deptford 2	6	4	11	8	9	6

TABLE 13 (contd.)

Site of Instrument	Sulphur dioxide concentration, parts per 100 million, by volume					
	Summer		Winter		Year	
	Week-day	Week-end	Week-day	Week-end	Week-day	Week-end
London, Finsbury 1	7	5	16	17	12	11
London, Fulham 1	4§	4§	10	9	7	7
London, Fulham 6	7*	12*	13	12	10	12
London, Greenwich 2	10‖	7‖	16†	14†	13	11
London, Greenwich 3	6	4	11	10	9	7
London, Greenwich 4	5	3	8	8	7	6
London, Greenwich 5	5	4	10	8	8	6
London, Hackney 4	5	4	11	11	8	8
London, Hackney 5	6	5	9	7	8	6
London, Hackney 6	4	3	8	7	6	5
London, Hammersmith 4	5	5	8	7	7	6
London, Hammersmith 5	7	6	11‖	9‖	9	8
London, Hampstead 3	5	4	10‖	8‖	8	6
London, Hampstead 4	4	3	10	9	7	6
London, Islington 1	—	—	12†	11†	—	—
London, Islington 2	—	—	13†	12†	—	—
London, Kensington 1	7	6	13	11	10	9
London, Kensington 4	6	5	12	11	9	8
London, Lambeth 2	8	6	15	13	12	10
London, Lambeth 6	6	5	12	11	9	8
London, Lambeth 7	5	4	12	10	9	7
London, Lambeth 8	6	5	12	9	9	7
London, Lambeth 9	5	5	11	10	8	8
London, Lambeth 10	8	6	12	12	10	9
London, Paddington 2	6	5	12	11	9	8
London, St. Marylebone 6	6	5	14	13	10	9
London, St. Marylebone 7	5	4	13‖	12‖	9	8
London, St. Pancras 4	7‡	6‡	16‖	12‖	12	9
London, St. Pancras 5	2	2	4	3	3	3
London, Shoreditch 1	7	5	14	11	11	8
London, Southwark 3	4‡	2‡	12	10	8	6
London, Stepney 3	9	7	12	11	19	9
London, Stepney 4	7‖	5‖	13	11	10	8
London, Wandsworth 1	6	4	13	10	10	7
London, Wandsworth 2	4	3	8	6	6	5
London, Wandsworth 3	2*	2*	8‡	6‡	5	4
London, Wandsworth 4	—	—	8†	3†	—	—
London, Wandsworth 5	—	—	10*	8*	—	—
London, Westminster 6	6	6	18	12	12	9
London, Westminster 7	9	7	18	16	14	12
London, Westminster 8	11*	8*	—	—	—	—
London, Westminster 9	11*	8*	—	—	—	—
London, Westminster 10	10	8	18	16	14	12
London, Westminster 11	8	8	15	14	12	11
London, Woolwich 1	9	7	14	12	12	10
London, Woolwich 7	4	3	7	6	6	5
London, Woolwich 8	4	3	7	5	6	4
London, Woolwich 9	5	3	8	7	7	5
London, Woolwich 10	7‡	5‡	10	8	9	7
Longbenton 1	2	2	5	4	4	3
Luton 1	1	1	3	2	2	2
Manchester 9	7	6	13	10	10	8
Mytholmroyd 1	3‖	2‖	5	3	4	3
Newcastle upon Tyne 5	—	—	11*	7*	—	—
Newcastle upon Tyne 10	—	—	4	3	—	—
Nottingham 1	2	1	3	2	3	2
Nuneaton 1	3§	2§	10	8	7	5
Oxford 11	—	—	6	4	—	—

TABLE 13 (contd.)

Site of Instrument	Sulphur dioxide concentration, parts per 100 million, by volume					
	Summer		Winter		Year	
	Week-day	Week-end	Week-day	Week-end	Week-day	Week-end
Portsmouth 1	1§	1§	4	2	3	2
Portsmouth 2	1§	1§	2	2	2	2
Portsmouth 3	1§	T§	2‖	2‖	2	1
Portsmouth 4	1§	T§	2	1	2	1
Preston 4	5	3	11	8	8	6
Sale 4	4	4	10	8	7	6
Salford 2	9	8	18	15	14	12
Sheffield 2	8	7	18	17	13	12
Sheffield 8	10	8	17‖	13‖	14	11
Sheffield 32	7	5	12‖	10‖	10	8
Sheffield 36	5	5	10‖	7‖	8	6
Sheffield 37	5	5	12	10	9	8
Sheffield 38	9	7	16	10	13	9
Sheffield 39	5	5	13	11	9	8
Sheffield 40	6	5	11	8	9	7
Sheffield 41	7	6	12	10	10	8
Southampton 22	3*	1*	—	—	—	—
Southampton 23	2‖	2‖	4	3	3	3
Southampton 24	2	2	5‖	4‖	4	3
Southampton 25	2‖	1‖	3‡	2‡	3	2
Southampton 26	3	2	3	2	3	2
Stocksbridge 9	5	3	7	4	6	4
Teddington 2	—	—	7§	4§	—	—
Tottenham 3	5‡	4‡	8	6	7	5
Wallsend 2	6	5	12‖	9‖	9	7
Walsall 11	6	4	14	10	10	7
Warrington 8	7	6	15	9	11	8
Wednesfield 1	3	2	5	3	4	3
Willenhall 1	2‖	2‖	7	5	5	4
Willesden 8	4‖	3‖	10	9	7	6
Wolverhampton 3	3	2	6	4	5	3
Woodford 1	4‖	3‖	9	8	7	6
Yeadon 1	2‖	2‖	—	—	—	—

* One month only † Three months only ‖ Five months only
§ Two months only ‡ Four months only

TABLE 14.—*Sulphur Dioxide—Monthly Measurements by the Lead Peroxide Method, 1956–7*

Site of Instrument	Number of months		Sulphur dioxide, rate of absorption expressed as milligrammes SO_3 per 100 square centimetres lead peroxide per day		
	S	W	Summer	Winter	Year
Aberdare 1	4	6	0·7	1·6	1·2
Aberdare 2	4	6	0·8	1·3	1·1
Aberdare 3	4	6	0·5	1·0	0·8
Aberdare 4	4	6	0·45	1·0	0·7
Aberthaw 1	6	6	0·35	0·6	0·5
Aberthaw 2	6	6	0·35	0·6	0·5
Aberthaw 3	6	6	0·6	0·7	0·7
Aberthaw 4	6	6	0·45	0·7	0·6
Aberthaw 5	6	6	0·30	0·5	0·40
Aberthaw 6	6	6	0·30	0·5	0·40
Aberthaw 7	6	6	0·30	0·5	0·40
Acton 1	6	6	1·1	1·5	1·3
Acton 2	6	6	2·0	3·3	2·7
Acton 3	6	6	1·4	2·8	2·1
Acton 4	6	6	1·4	1·9	1·7
Acton 5	6	6	1·5	2·8	2·2
Acton 6	6	6	1·4	2·6	2·0
Acton 7	6	6	1·4	2·8	2·1
Altrincham 1	6	6	1·4	2·2	1·8
Altrincham 2	6	5	1·3	1·9	1·6
Ashton-under-Lyne 1	6	6	2·0	3·3	2·7
Ashton-under-Lyne 2	5	6	1·5	2·5	2·0
Ashton-under-Lyne 3	6	6	1·8	2·9	2·4
Ashton-under-Lyne 4	6	6	1·5	2·9	2·2
Askern 1	6	6	1·4	2·2	1·8
Atherton 1	6	6	1·8	2·8	2·3
Atherton 2	6	6	1·8	3·1	2·5
Audenshaw 1	6	6	1·5	2·4	2·0
Barking 1	6	6	1·1	2·5	1·8
Barking 2	6	6	2·1	3·8	3·0
Barking 3	6	6	1·6	3·4	2·5
Barking 5	6	6	1·2	3·0	2·1
Barking 6	6	4	2·2	3·4	2·8
Barking 7	6	4	2·6	3·5	3·1
Barking 8	1	–	1·9	—	—
Barnes 2	6	6	1·4	2·6	2·0
Barnes 3	1	6	2·3	2·8	2·6
Barnsley 1	6	6	1·8	3·0	2·4
Barnsley 2	6	6	1·1	2·1	1·6
Barnsley 3	6	6	2·0	3·2	2·6
Batley 1	6	6	1·3	2·2	1·8
Bedwellty 1	6	6	0·5	0·8	0·7
Belfast 1	6	6	1·3	2·4	1·9
Belfast 2	6	6	1·0	1·9	1·5
Belfast 3	6	6	0·45	0·6	0·5
Belfast 4	6	6	1·5	3·6	2·6
Belfast 5	6	6	0·9	2·0	1·5
Belfast 6	6	6	1·7	2·7	2·2
Belfast 7	6	6	1·5	2·8	2·2
Belfast 8	6	6	1·1	2·0	1·6
Belfast 9	6	6	1·8	2·8	2·3
Belfast 10	6	6	3·3	3·2	3·3
Belvedere 1	6	5	2·2	3·2	2·7
Belvedere 2	6	4	4·2	4·3	4·3
Belvedere 3	6	4	3·2	3·9	3·6
Belvedere 4	6	4	1·9	2·6	2·3
Belvedere 5	6	5	1·3	1·8	1·6