



Fisheries and Environment
Canada

Environmental
Protection
Service

Pêches et Environnement
Canada

Service de la
protection de
l'environnement

Monthly Summary December 1977

National Air Pollution Surveillance

Surveillance nationale de la pollution atmosphérique



Extrait mensuel décembre 1977

ENVIRONMENT CANADA LIBRARY
15th Floor, Queen Square
45 Alderney Drive
Dartmouth, N.S. B2Y 2N6
CANADA

Dartmouth Env. Can. Lib./Bib.



39 021 148

Surveillance Report
EPS 5-AP-78-12

Air Pollution
Control Directorate

Rapport de surveillance
EPS 5-AP-78-12

Direction général de
l'assainissement de l'air

TD
890
C325
78-12

77 - 159

SULPHUR DIOXIDE
PARTS PER HUNDRED MILLIONDECEMBER - DECEMBRE
1977DIOXYDE DE SOUFRE
PARTIES PAR CENT MILLIONS

STATION	LOCATION EMPLACEMENT	NUMBER OF HOURLY SAMPLES NOMBRE DE DONNEES HORAIRES	MONTHLY MEAN MOYENNE MENSUELLE	FREQUENCY DISTRIBUTIONS - CENTILES -				DISTRIBUTIONS DES FREQUENCES			
				INTERVALS - INTERVALLES				MEANS ---- MOYENNES			
				1-HOUR / HEURE				24-HOUR / HEURES			
				70	95	99	MAX	70	95	99	MAX
10101C	ST. JOHN'S, NFLD. DUCKWORTH & ORDINANCE	484	1.5	2	4	7	9	2	3	3	3
20101C	CHARLOTTETOWN, P.E.I. 56 FITZROY ST.	521	***	1	3	5	7	1	2	2	2
30114R	HALIFAX, N.S. MT ST VINCENT UNIVERSITY	683	***	1	2	4	5	1	1	2	2
30115I	CFB SHEARWATER	417	1.9	3	7	10	12	3	5	5	5
30116C	BARRINGTON & DUKE	580	1.1	2	4	6	8	1	3	3	4
30310C	SYDNEY, N.S. COUNTY JAIL	682	***	0	0	1	1	0	0	0	0
30311R	WHITNEY PIER FIRE STN.	253	---	2	4	8	9	2	2	2	3
40202C	SAINT JOHN, N.B. POST OFFICE	687	***	1	2	6	8	1	2	3	3
50101R	MONTREAL, QUEBEC PARC JARRY	683	1.8	2	5	8	14	2	4	7	7
50102R	JARDIN BOTANIQUE	683	2.3	3	7	11	14	3	5	8	8
50103R	POINTE-AUX-TREMBLES	522	2.3	2	11	15	19	3	7	9	9
50104C	1125 ONTARIO EST	741	2.1	2	5	7	10	3	4	6	6
50105C	1212 DRUMMOND	739	5.8	7	13	17	18	7	11	13	14
50106R	VILLE ST-LAURENT	541	***	0	0	1	1	0	0	0	0
50107R	VILLE LASALLE	740	1.3	2	5	8	11	2	4	5	6
50109C	DUNCAN & DECARIE	679	1.6	2	8	11	12	2	6	8	8
50110C	PARC PILON, MTL.-NORD	542	2.3	3	6	9	13	3	5	5	6
50111C	2900 BOUL. CONCORDE	581	2.0	2	5	7	8	2	4	5	5
50112C	BOUL. LAURENTIDES	495	2.4	3	7	11	13	3	5	7	7
50113R	PIE X & CARDINAL	669	1.9	2	6	8	11	2	4	5	6
50115C	PEEL & MAISONNEUVE	628	3.5	4	9	11	17	5	7	8	8
50203R	HULL, QUEBEC GAMBLIN & JOFFRE	588	1.4	2	3	5	5	2	3	3	3
50303I	QUEBEC, QUEBEC CENTRE LOISIRS LIMOULOU	709	5.6	5	18	47	74	6	18	20	24
50304C	155 DORCHESTER SUD	682	4.2	3	17	27	40	5	14	20	22
50305R	MYRAND & ST-CYRILLE	682	1.8	2	6	15	23	2	5	9	9
50601C	ROUYN, QUEBEC HOTEL DE VILLE	322	---	0	2	20	25	0	6	7	7
50701C	SEPT-ILES, QUEBEC HOTEL DE VILLE	476	***	0	1	1	2	0	1	1	1
50801R	TROIS-RIVIERES, QUEBEC HART & STE-CECILE	682	4.9	6	12	18	28	6	9	10	11
50901R	ARVIDA, QUEBEC POWELL & HOOPES	677	3.7	3	16	20	25	5	13	14	15
51001R	TRACY, QUEBEC 3225 AVE COURSHESNE	678	1.5	2	5	10	12	2	4	6	6
51201I	SHAWINIGAN, QUEBEC FRIGON & LAVAL	375	4.2	4	14	24	26	5	12	13	13
51301R	BAIE COMEAU, QUEBEC 39 AVE. MARGUETTE	617	3.5	2	19	49	62	3	15	22	22
60101C	OTTAWA, ONT. 88 SLATER ST.	681	2.2	3	6	10	23	3	6	8	8
60104C	RIDEAU & WURTEMBERG	706	2.7	3	5	8	9	3	5	5	6
60201I	WINDSOR, ONT. MORTON TERMINAL DOCK	735	1.3	2	3	5	9	2	3	3	3
60204C	471 UNIVERSITY AVENUE	729	2.5	3	6	8	10	3	5	6	6
60211R	COLLEGE & PRINCE	731	2.1	3	5	7	10	3	4	4	4
60302R	KINGSTON, ONT. NAPIER STREET	689	***	1	2	3	5	1	2	2	2
60401C	TORONTO, ONT. 67 COLLEGE STREET	719	1.9	2	5	6	15	3	4	5	5
60402R	DON MILLS, SCIENCE CNTR	708	***	0	1	2	3	0	1	2	2
60403I	EVANS & ARNOLD	717	1.1	1	4	5	12	1	3	4	5
60409R	REDLANDS CRESCENT	738	1.7	2	4	7	11	2	4	4	5
60410R	LAWRENCE & KENNEDY	677	1.3	2	4	6	9	2	4	5	5
60411R	PHARMACY & HWY 401	713	1.9	2	5	7	9	2	5	6	6
60412R	BATHURST & WILSON	714	1.9	2	5	6	9	2	4	5	6
60413R	ELMCREST ROAD	738	***	1	2	4	7	1	2	3	3
60414I	SHERBOURNE & WILTON ST.	732	2.1	2	5	7	8	3	4	4	4

*** CALCULATED MEANS ARE BELOW 10 PARTS PER BILLION.
LES MOYENNES SONT INFERIEURES A 10 PARTIES PAR BILLION.

--- INSUFFICIENT DATA FOR CALCULATION OF A VALID MEAN.
IL N'Y A PAS ASSEZ DE DONNEES POUR CALCULER UNE MOYENNE VALABLE.

77 - 160

SULPHUR DIOXIDE PARTS PER HUNDRED MILLION		DECEMBER - DECEMBRE 1977		DIOXYDE DE SOUFRE PARTIES PAR CENT MILLIONS											
STATION	LOCATION EMPLACEMENT	NUMBER OF HOURLY SAMPLES NOMBRE DE DONNEES HORAIRES	MONTHLY MEAN MOYENNE MENSUELLE	FREQUENCY DISTRIBUTIONS - CENTILES - INTERVALS - INTERVALLES								DISTRIBUTIONS DES FREQUENCES MEANS ---- MOYENNES			
				1-HOUR / HEURE				24-HOUR / HEURES							
				70	95	99	MAX	70	95	99	MAX	70	95	99	MAX
60501C	HAMILTON, ONT. BARTON & SANFORD	736	2.0	2	5	6	9	2	4	5	5				
60505R	NORTH PARK	738	2.1	3	6	7	9	3	5	6	6				
60602R	SUDBURY, ONT. ASH STREET	738	1.2	1	4	6	10	2	2	3	3				
60606C	KENNEDY STREET	737	2.3	2	6	18	32	3	4	11	11				
60704C	SAULT STE. MARIE, ONT. 445 ALBERT STREET	730	1.8	2	4	6	15	2	4	4	4				
60806R	THUNDER BAY, ONT. 435 JAMES S.	743	***	0	0	1	3	0	0	1	1				
60901C	LONDON, ONT. KING & RECTORY	739	1.1	1	3	4	6	2	2	3	3				
61001C	SARNIA, ONT. 156 VICTORIA STREET	717	2.7	2	11	14	23	3	9	12	12				
61103C	PETERBOROUGH, ONT. 500 GEORGE STREET	739	***	1	2	3	4	1	2	2	2				
61201R	CORNWALL, ONT. MEMORIAL PARK	708	2.6	3	9	13	48	3	8	9	10				
61301C	ST. CATHARINES, ONT. NORTH ST. & GENEVA ST.	738	***	1	2	4	6	1	2	2	2				
61401C	BRANTFORD, ONT. DALHOUSIE & QUEEN	739	1.0	1	2	3	5	1	2	3	3				
61501C	KITCHENER, ONT. EDNA & FREDERICK	728	***	1	2	3	6	1	2	2	2				
61601R	OAKVILLE, ONT. REBECCA & WOODSIDE	736	1.1	1	3	5	7	1	2	3	3				
70101C	WINNIPEG, MAN. 270 OSBORNE STREET	428	1.1	1	2	3	5	1	2	2	2				
70102R	PORTAGE & WOODLAWN	519	***	0	1	1	3	1	1	1	1				
70104I	UNION STOCK YARDS	598	***	1	1	2	3	1	1	1	1				
70118R	JEFFERSON & SCOTIA	588	***	0	1	1	1	0	0	0	0				
70201C	BRANDON, MAN. 11TH ST. & PRINCESS AVE.	463	***	0	0	1	4	0	0	0	0				
80108C	REGINA, SASK. 12TH AVE. & SMITH ST.	0	---	-	-	-	-	-	-	-	-				
80202C	SASKATOON, SASK. 4TH AVE. & 23RD ST.	695	***	0	0	0	0	0	0	0	0				
80301C	MOOSE JAW, SASK. FAIRFORD ST. & 1ST AVE.	0	---	-	-	-	-	-	-	-	-				
80401C	PRINCE ALBERT, SASK. 1257-1ST AVE. EAST	681	***	0	0	0	0	0	0	0	0				
90121I	EDMONTON, ALTA. 17 STREET & 105 AVENUE	744	***	0	1	1	4	0	0	1	1				
90122R	127 ST. & 133 AVENUE	685	***	0	0	0	0	0	0	0	0				
90130C	10255 - 104TH STREET	682	***	0	0	1	1	0	0	0	0				
90218I	CALGARY, ALTA. BONNY BRK & 18A ST. S.E.	683	***	0	0	1	3	0	0	0	0				
90219C	620-7TH AVENUE, S.W.	682	***	0	1	2	6	0	1	1	1				
90222R	39 ST. & 29 AVE. N.W.	671	***	0	0	0	1	0	0	0	0				
00106R	VANCOUVER, B.C. 2294 WEST 10TH AVENUE	415	1.7	2	4	6	8	2	3	3	3				
00108I	250 WEST 70TH AVENUE	0	---	-	-	-	-	-	-	-	-				
00109C	970 BURRARD	743	1.1	1	3	5	16	1	3	4	4				
00110R	E. HASTINGS & KENSINGTON	744	***	1	3	5	7	1	3	3	4				
00111I	ROCKY PT. PARK	0	---	-	-	-	-	-	-	-	-				
00201C	PRINCE GEORGE, B.C. 1306-7TH AVENUE	682	***	1	4	7	9	0	3	4	4				
00301C	VICTORIA, B.C. POLICE STATION, FISGUARD	0	---	-	-	-	-	-	-	-	-				

*** CALCULATED MEANS ARE BELOW 10 PARTS PER BILLION.
LES MOYENNES SONT INFÉRIEURES À 10 PARTIES PAR BILLION.

--- INSUFFICIENT DATA FOR CALCULATION OF A VALID MEAN.
IL N'Y A PAS ASSEZ DE DONNÉES POUR CALCULER UNE MOYENNE VALABLE.

77 - 161

SULPHUR DIOXIDE
PARTS PER HUNDRED MILLIONDECEMBER - DECEMBRE
1977DIOXYDE DE SOUFRE
PARTIES PAR CENT MILLIONS

STATION	LOCATION EMPLACEMENT	NUMBER OF HOURLY SAMPLES NOMBRE DE DONNEES HORAIRES	MONTHLY MEAN MOYENNE MENSUELLE	FREQUENCY DISTRIBUTIONS - CENTILES - DISTRIBUTIONS DES FREQUENCES							
				INTERVALS - INTERVALLES		1-HOUR / HEURE		MEANS ---- MOYENNES		24-HOUR / HEURES	
				70	95	99	MAX	70	95	99	MAX
09001C	WHITEHORSE, YUKON FEDERAL BUILDING	472	***	0	1	2	2	0	1	1	1

*** CALCULATED MEANS ARE BELOW 10 PARTS PER BILLION.
LES MOYENNES SONT INFÉRIEURES À 10 PARTIES PAR BILLION.

--- INSUFFICIENT DATA FOR CALCULATION OF A VALID MEAN.
IL N'Y A PAS ASSEZ DE DONNÉES POUR CALCULER UNE MOYENNE VALABLE.

77 - 162

CARBON MONOXIDE
PARTS PER MILLIONDECEMBER - DECEMBRE
1977MONOXYDE DE CARBONE
PARTIES PAR MILLION

STATION	LOCATION EMPLACEMENT	NUMBER OF HOURLY SAMPLES NOMBRE DE DONNEES HORAIRES	MONTHLY MEAN MOYENNE MENSUELLE	FREQUENCY DISTRIBUTIONS -				CENTILES - DISTRIBUTIONS DES FREQUENCES											
				INTERVALS - INTERVALLES				MEANS ----- MOYENNES											
				1-HOUR / HEURE				8-HOUR / HEURES				24-HOUR / HEURES							
				70	95	99	MAX	70	95	99	MAX	70	95	99	MAX				
	HALIFAX, N.S.																		
301151	CFB SHEARWATER	710	***	1	1	2	4	0	1	1	2	0	1	1	1				
30116C	BARRINGTON & DUKE	741	1.3	1	4	10	35	1	4	12	19	1	3	7	7				
	MONTREAL, QUEBEC																		
50103R	POINTE-AUX-TREMBLES	714	1.0	1	3	5	6	1	3	4	4	1	2	3	3				
50104C	1125 ONTARIO EST	744	2.8	4	6	9	11	3	6	7	8	3	5	5	5				
50109C	DUNCAN & DECARIE	703	2.6	3	7	12	18	3	7	9	11	3	6	7	7				
50110C	PARC PILON, MTL.-NORD	609	1.9	2	5	7	10	2	4	5	6	2	4	4	4				
50111C	2900 BOUL. CONCORDE	736	1.5	2	4	6	8	2	3	5	5	2	3	4	4				
50112C	BOUL. LAURENTIDES	0	---	---	---	---	---	---	---	---	---	---	---	---	---				
50113R	PIE X & CARDINAL	737	1.0	1	3	6	9	1	3	4	5	1	3	3	3				
50114C	677 STE-CATHERINE O.	744	4.6	6	9	11	16	6	8	10	11	5	7	7	7				
50115C	PEEL & MAISONNEUVE	735	3.2	4	8	10	11	4	7	8	9	4	5	6	6				
	HULL, QUEBEC																		
50203R	GAMBLIN & JOFFRE	716	1.0	1	3	5	10	1	2	3	5	1	2	3	3				
	QUEBEC, QUEBEC																		
50304C	155 DORCHESTER SUD	729	1.7	2	5	8	12	2	4	7	8	2	4	5	5				
	OTTAWA, ONT.																		
60101C	88 SLATER ST.	704	1.9	2	6	9	12	2	6	7	8	2	4	4	5				
60104C	RIDEAU & WURTEMBERG	735	0.7	1	2	4	7	1	2	4	5	1	2	3	3				
	WINDSOR, ONT.																		
60204C	471 UNIVERSITY AVENUE	734	2.4	3	4	5	6	3	4	4	5	3	3	4	4				
	TORONTO, ONT.																		
60401C	67 COLLEGE STREET	735	1.9	2	3	5	8	2	3	4	6	2	3	3	4				
60402R	DON MILLS, SCIENCE CNTR	734	1.9	2	4	6	7	2	4	5	6	2	4	4	4				
60403I	EVANS & ARNOLD	738	2.3	2	4	8	14	3	4	7	9	3	4	5	5				
60410R	LAWRENCE & KENNEDY	740	2.3	3	6	7	8	3	5	6	6	3	4	5	5				
60411R	PHARMACY & HWY 401	739	2.4	3	5	8	10	3	5	6	7	3	4	5	5				
60412R	BATHURST & WILSON	713	2.7	3	6	8	9	3	5	6	6	3	5	5	5				
60413R	ELMCREST ROAD	736	2.1	2	4	7	10	2	4	6	6	2	4	4	4				
60414I	SHERBOURNE & WILTON ST.	676	2.0	2	4	10	14	2	4	7	9	2	4	5	5				
	HAMILTON, ONT.																		
60501C	BARTON & SANFORD	474	1.9	2	4	7	10	2	4	4	4	2	3	3	4				
	SUDBURY, ONT.																		
60602R	ASH STREET	731	***	1	2	4	6	1	2	3	4	1	2	2	3				
	LONDON, ONT.																		
60901C	KING & RECTORY	724	0.9	1	2	4	8	1	2	3	4	1	2	2	3				
	SARNIA, ONT.																		
61001C	156 VICTORIA STREET	723	1.6	2	3	4	5	2	3	3	4	2	2	3	3				
	CORNWALL, ONT.																		
61201R	MEMORIAL PARK	296	---	1	3	5	6	1	2	4	4	1	2	2	3				
	ST. CATHARINES, ONT.																		
61301C	NORTH ST. & GENEVA ST.	613	1.1	1	2	4	7	1	2	3	4	1	2	3	3				
	KITCHENER, ONT.																		
61501C	EDNA & FREDERICK	605	1.9	2	4	7	9	2	4	6	6	2	4	4	4				
	OAKVILLE, ONT.																		
61601R	REBECCA & WOODSIDE	739	2.2	2	4	6	8	2	4	5	7	3	4	4	4				
	WINNIPEG, MAN.																		
70101C	270 OSBORNE STREET	438	1.6	2	4	5	8	2	3	5	5	2	2	3	3				
70102R	PORTAGE & WOODLAWN	702	1.3	2	3	4	7	2	3	3	3	2	2	2	2				
70118R	JEFFERSON & SCOTIA	650	1.0	1	2	4	8	1	2	4	5	1	2	2	2				
	REGINA, SASK.																		
80108C	12TH AVE. & SMITH ST.	744	0.9	1	3	6	8	1	3	4	5	1	2	2	2				
	SASKATOON, SASK.																		
80202C	4TH AVE. & 23RD ST.	663	1.0	1	3	5	7	1	3	3	3	1	2	2	2				
	EDMONTON, ALTA.																		
90121I	17 STREET & 105 AVENUE	674	***	1	2	3	7	1	1	2	2	1	1	1	1				
90122R	127 ST. & 133 AVENUE	674	1.8	2	6	10	18	2	5	7	10	2	5	5	6				
90130C	10255 - 104TH STREET	744	3.0	3	9	12	17	4	8	10	12	4	6	7	8				
	CALGARY, ALTA.																		
90219C	620-7TH AVENUE, S.W.	722	3.4	4	10	21	33	4	8	20	23	4	11	13	13				
90222R	39 ST. & 29 AVE. N.W.	730	2.2	2	6	13	20	2	5	9	13	2	5	7	7				

*** CALCULATED MEANS ARE BELOW 500 PARTS PER BILLION.
LES MOYENNES SONT INFÉRIEURES À 500 PARTIES PAR BILLION.

---- INSUFFICIENT DATA FOR CALCULATION OF A VALID MEAN.
IL N'Y A PAS ASSEZ DE DONNÉES POUR CALCULER UNE MOYENNE VALABLE.

77 - 163

CARBON MONOXIDE
PARTS PER MILLIONDECEMBER - DECEMBRE
1977MONOXYDE DE CARBONE
PARTIES PAR MILLION

STATION	LOCATION	NUMBER OF	MONTHLY	FREQUENCY DISTRIBUTIONS - CENTILES - DISTRIBUTIONS DES FREQUENCES											
	EMPLACEMENT	HOURLY SAMPLES	MEAN	INTERVALS - INTERVALLES				MEANS ----- MOYENNES							
		NOMBRE DE	MOYENNE	1-HOUR / HEURE				8-HOUR / HEURES				24-HOUR / HEURES			
		DONNEES HORAIRES	MENSUELLE	70	95	99	MAX	70	95	99	MAX	70	95	99	MAX
VANCOUVER, B.C.															
00106R	2294 WEST 10TH AVENUE	728	2.8	3	8	10	15	3	7	8	9	3	6	6	7
00108I	250 WEST 70TH AVENUE	714	2.5	3	8	11	16	3	7	8	10	4	6	6	7
00109C	970 BURRARD	744	2.6	3	7	9	13	4	5	8	8	3	5	6	6
00110R	E. HASTINGS & KENSINGTON	744	1.4	2	4	6	9	2	4	6	6	2	4	4	4
00111I	ROCKY PT. PARK	744	1.9	2	5	7	9	2	4	7	7	2	4	6	6
VICTORIA, B.C.															
00302C	1106 COOK ST.	741	1.3	2	4	7	13	2	3	4	6	2	3	3	3

77 - 164

NITROGEN DIOXIDE PARTS PER HUNDRED MILLION		DECEMBER - DECEMBRE 1977		DIOXYDE D'AZOTE PARTIES PAR CENT MILLIONS									
STATION	LOCATION EMPLACEMENT	NUMBER OF HOURLY SAMPLES NOMBRE DE DONNEES HORAIRES	MONTHLY MEAN MOYENNE MENSUELLE	FREQUENCY DISTRIBUTIONS - CENTILES -				DISTRIBUTIONS DES FREQUENCES					
				INTERVALS - INTERVALLES				MEANS ---- MOYENNES					
				1-HOUR / HEURE				24-HOUR / HEURES					
				70	95	99	MAX	70	95	99	MAX		
30115I	HALIFAX, N.S.	680	***	1	2	3	4	1	2	2	2		
30116C	CFB SHEARWATER BARRINGTON & DUKE	735	2.6	3	4	5	6	3	3	4	4		
50102R	MONTREAL, QUEBEC												
50104C	JARDIN BOTANIQUE	671	2.7	3	5	6	8	3	4	5	5		
50109C	1125 ONTARIO EST	709	3.6	4	6	8	9	4	5	5	6		
50110C	DUNCAN & DECARIE	734	3.3	4	4	7	12	4	4	6	6		
50111C	PARC PILON, MTL.-NORD	214	---	2	3	4	4	2	2	3	3		
50112C	2900 BOUL. CONCORDE	583	2.6	3	4	6	14	3	4	4	4		
50113R	BOUL. LAURENTIDES	269	---	2	3	4	5	2	3	3	3		
50115C	PIE X & CARDINAL	148	---	2	3	3	9	2	3	3	3		
	PEEL & MAISONNEUVE	744	3.1	3	4	5	6	3	4	4	4		
50203R	HULL, QUEBEC												
50304C	GAMBLIN & JOFFRE	698	1.6	2	4	4	5	2	3	3	3		
	QUEBEC, QUEBEC												
	155 DORCHESTER SUD	735	1.6	2	3	7	14	2	3	4	5		
60101C	OTTAWA, ONT.												
60104C	88 SLATER ST.	742	4.3	5	6	7	7	5	5	6	6		
	RIDEAU & WURTEMBERG	736	1.5	2	4	5	7	2	4	4	4		
60204C	WINDSOR, ONT.												
	471 UNIVERSITY AVENUE	727	3.6	4	5	6	11	4	4	5	5		
60401C	TORONTO, ONT.												
60402R	67 COLLEGE STREET	735	2.6	3	4	4	5	3	4	4	4		
60403I	DON MILLS, SCIENCE CNTR	737	2.0	2	3	3	4	2	3	3	3		
60410R	EVANS & ARNOLD	728	2.8	3	5	6	11	3	5	5	5		
60411R	LAWRENCE & KENNEDY	734	3.5	4	5	6	7	4	5	6	6		
60412R	PHARMACY & HWY 401	724	2.9	3	5	5	6	3	4	5	5		
60413R	BATHURST & WILSON	739	3.1	4	5	5	7	3	4	4	5		
60414I	ELMCREST ROAD	716	2.4	3	4	5	9	3	4	4	4		
	SHERBOURNE & WILTON ST.	737	2.7	3	4	5	6	3	4	5	5		
60501C	HAMILTON, ONT.												
60505R	BARTON & SANFORD	743	4.4	5	7	9	9	5	7	7	8		
	NORTH PARK	743	3.3	4	5	6	6	4	5	5	5		
60602R	SUDBURY, ONT.												
	ASH STREET	734	1.7	2	4	5	6	2	3	4	5		
60901C	LONDON, ONT.												
	KING & RECTORY	734	2.7	3	4	5	6	3	4	5	5		
61001C	SARNIA, ONT.												
	156 VICTORIA STREET	737	2.8	3	5	5	6	3	4	4	4		
61201R	CORNWALL, ONT.												
	MEMORIAL PARK	738	2.0	2	4	5	5	2	3	3	4		
61301C	ST. CATHARINES, ONT.												
	NORTH ST. & GENEVA ST.	741	2.6	3	4	4	5	3	4	4	4		
61501C	KITCHENER, ONT.												
	EDNA & FREDERICK	742	3.1	4	5	7	8	4	5	6	6		
61601R	OAKVILLE, ONT.												
	REBECCA & WOODSIDE	741	2.1	3	4	4	5	3	3	4	4		
70101C	WINNIPEG, MAN.												
70118R	270 OSBORNE STREET	413	2.7	3	4	5	6	3	4	4	4		
	JEFFERSON & SCOTIA	728	2.0	3	4	5	6	2	4	4	4		
90122R	EDMONTON, ALTA.												
90130C	127 ST. & 133 AVENUE	743	2.3	3	5	7	8	3	5	5	5		
	10255 - 104TH STREET	744	4.8	5	7	10	13	5	7	8	8		
90219C	CALGARY, ALTA.												
90222R	620-7TH AVENUE, S.W.	664	5.5	6	10	17	24	6	11	12	13		
	39 ST. & 29 AVE. N.W.	701	2.8	3	6	10	12	3	6	6	7		
00106R	VANCOUVER, B.C.												
00108I	2294 WEST 10TH AVENUE	723	2.1	3	4	5	8	2	3	4	4		
00109C	250 WEST 70TH AVENUE	451	2.3	3	4	5	6	3	4	4	4		
00110R	970 BURRARD	0	---	---	---	---	---	---	---	---	---		
00111I	E. HASTINGS & KENSINGTON	722	2.8	3	6	7	9	3	5	5	5		
	ROCKY PT. PARK	0	---	---	---	---	---	---	---	---	---		
00302C	VICTORIA, B.C.												
	1106 COOK ST.	0	---	---	---	---	---	---	---	---	---		

*** CALCULATED MEANS ARE BELOW 10 PARTS PER BILLION.
LES MOYENNES SONT INFÉRIEURES À 10 PARTIES PAR BILLION.

--- INSUFFICIENT DATA FOR CALCULATION OF A VALID MEAN.
IL N'Y A PAS ASSEZ DE DONNÉES POUR CALCULER UNE MOYENNE VALABLE.

77 - 165

OZONE
PARTS PER HUNDRED MILLIONDECEMBER - DECEMBRE
1977OZONE
PARTIES PAR CENT MILLIONS

STATION	LOCATION EMPLACEMENT	NUMBER OF HOURLY SAMPLES NOMBRE DE DONNEES HORAIRES	MONTHLY MEAN MOYENNE MENSUELLE	FREQUENCY DISTRIBUTIONS - CENTILES - DISTRIBUTIONS DES FREQUENCES				MEANS ---- MOYENNES			
				INTERVALS - INTERVALLES				24-HOUR / HEURES			
				1-HOUR / HEURE				70 95 99 MAX			
30115I	HALIFAX, N.S.	718	2.4	3	4	4	4	3	3	4	4
30116C	CFB SHEARWATER BARRINGTON & DUKE	0	---	-	-	-	-	-	-	-	-
50102R	MONTREAL, QUEBEC	701	0.8	1	3	3	3	1	2	2	2
50103R	JARDIN BOTANIQUE	692	1.4	2	4	4	4	2	3	4	4
50104C	POINTE-AUX-TREMBLES	744	***	0	1	1	2	0	1	1	1
50109C	1125 ONTARIO EST	743	***	1	2	2	3	1	1	2	2
50110C	DUNCAN & DECARIE	14	---	0	1	1	1	-	-	-	-
50111C	PARC PILON, MTL.-NORD	721	1.3	2	3	4	4	2	3	3	3
50112C	2900 BOUL. CONCORDE	728	***	0	2	3	4	0	2	3	3
50113R	BOUL. LAURENTIDES	706	1.5	2	3	4	4	2	3	4	4
50115C	PIE X & CARDINAL	383	***	0	1	1	1	0	1	1	1
50304C	QUEBEC, QUEBEC	735	1.1	2	3	4	7	2	3	3	3
60101C	155 DORCHESTER SUD	742	1.1	2	3	3	4	2	2	2	3
60104C	OTTAWA, ONT.	738	1.2	2	3	3	3	2	2	3	3
60204C	RIDEAU & WURTEMBURG	736	***	1	2	2	3	1	1	2	2
60401C	WINDSOR, ONT.	577	0.6	1	2	2	3	1	1	2	2
60402R	471 UNIVERSITY AVENUE	715	***	1	1	1	1	0	1	1	1
60403I	TORONTO, ONT.	739	***	1	1	2	2	1	1	1	1
60410R	67 COLLEGE STREET	732	0.8	1	2	3	3	1	2	2	2
60413R	DON MILLS, SCIENCE CNTR	283	---	1	2	3	3	1	2	2	2
60414I	EVANS & ARNOLD	734	0.5	1	2	2	2	1	1	2	2
60501C	LAWRENCE & KENNEDY	718	0.8	1	2	3	3	1	2	2	2
60602R	ELMCREST ROAD	699	0.8	1	2	2	2	1	2	2	2
60901C	SHERBOURNE & WILTON ST.	740	0.7	1	2	2	3	1	2	2	2
61001C	LONDON, ONT.	741	0.9	1	3	3	3	1	3	3	3
61201R	KING & RECTORY	738	1.3	2	3	3	3	2	3	3	3
61301C	SARNIA, ONT.	739	0.9	1	2	3	3	1	2	2	2
61501C	CORNWALL, ONT.	705	1.3	2	3	4	4	2	3	3	3
61601R	ST. CATHARINES, ONT.	731	1.1	2	3	3	3	1	2	2	3
70101C	REBECCA & WOODSIDE	386	0.5	1	2	2	2	1	1	1	1
70118R	WINNIPEG, MAN.	621	1.4	2	3	4	4	2	3	4	4
90122R	270 OSBORNE STREET	744	1.0	2	3	3	4	2	2	2	2
90130C	JEFFERSON & SCOTIA	705	0.7	1	2	2	3	1	1	2	2
90219C	EDMONTON, ALTA.	719	***	0	2	3	4	1	2	2	2
90222R	127 ST. & 133 AVENUE	744	1.3	2	3	4	4	2	3	3	3
00106R	620-7TH AVENUE, S.W.	682	***	0	3	3	3	0	2	3	3
00108I	39 ST. & 29 AVE. N.W.	438	0.9	1	3	3	3	1	2	3	3
00109C	VANCOUVER, B.C.	744	***	0	2	3	4	1	2	2	2
00110R	2294 WEST 10TH AVENUE	744	0.8	1	3	3	3	1	2	2	2
00111I	250 WEST 70TH AVENUE	744	***	0	2	3	3	1	1	2	2
00302C	970 BURRARD	0	---	-	-	-	-	-	-	-	-
	E. HASTINGS & KENSINGTON										
	ROCKY PT. PARK										
	VICTORIA, B.C.										
	1106 COOK ST.										

*** CALCULATED MEANS ARE BELOW 5 PARTS PER BILLION.
LES MOYENNES SONT INFERIEURES A 5 PARTIES PAR BILLION.

--- INSUFFICIENT DATA FOR CALCULATION OF A VALID MEAN.
IL N'Y A PAS ASSEZ DE DONNEES POUR CALCULER UNE MOYENNE VALABLE.

77 - 166

SOILING INDEX
COH UNITS PER 1000 LINEAR FT.DECEMBER - DECEMBRE
1977INDICE DE SOUILLURE
UNITES COH PAR 1000 PIEDS LINEAIRES

STATION	LOCATION EMPLACEMENT	NUMBER OF SAMPLES NOMBRE DE DONNEES	MONTHLY MEAN MOYENNE MENSUELLE	FREQUENCY DISTRIBUTIONS				DISTRIBUTIONS DES FREQUENCES			
				INTERVALS - INTERVALLES				MEANS ----- MOYENNES			
				2-HOUR / HEURES				24-HOUR / HEURES			
				70	95	99	MAX	70	95	99	MAX
HALIFAX, N.S.											
30114R	MT ST VINCENT UNIVERSITY	371	****	0.1	0.2	0.3	0.4	0.1	0.1	0.2	0.2
30115I	CFB SHEARWATER	367	****	0.0	0.1	0.2	0.2	0.0	0.1	0.1	0.1
30116C	BARRINGTON & DUKE	369	0.32	0.3	0.9	2.9	3.5	0.3	1.0	1.8	2.0
SYDNEY, N.S.											
30310C	COUNTY JAIL	371	0.26	0.3	0.8	1.6	2.8	0.3	0.5	0.8	0.8
30311R	WHITNEY PIER FIRE STN.	366	0.43	0.5	1.4	2.1	2.4	0.5	0.9	1.2	1.3
SAINT JOHN, N.B.											
40202C	POST OFFICE	646	(1) 0.15	0.2	0.4	0.7	0.8	0.2	0.3	0.4	0.5
MONTREAL, QUEBEC											
50101R	PARC JARRY	370	0.16	0.2	0.4	0.6	0.8	0.2	0.3	0.4	0.4
50102R	JARDIN BOTANIQUE	361	0.41	0.5	1.0	1.8	2.1	0.5	0.9	1.2	1.3
50103R	POINTE-AUX-TREMBLES	360	0.25	0.3	0.6	0.9	1.9	0.3	0.6	0.7	0.7
50104C	1125 ONTARIO EST	350	0.49	0.5	1.0	1.3	1.6	0.5	0.9	1.1	1.1
50105C	1212 DRUMMOND	272	0.27	0.3	0.6	0.8	0.8	0.3	0.4	0.5	0.5
50106R	VILLE ST-LAURENT	355	0.29	0.3	0.9	1.4	1.8	0.3	0.8	1.0	1.0
50107R	VILLE LASALLE	370	0.39	0.4	0.9	1.4	1.7	0.5	0.8	1.0	1.0
50109C	DUNCAN & DECARIE	359	0.52	0.6	1.4	1.8	2.2	0.6	1.1	1.3	1.3
50110C	PARC PILON, MTL.-NORD	300	0.50	0.6	1.3	1.6	2.9	0.7	1.0	1.2	1.3
50111C	2900 BOUL. CONCORDE	365	0.20	0.2	0.5	0.7	0.8	0.3	0.5	0.5	0.5
50112C	BOUL. LAURENTIDES	280	0.39	0.4	0.9	1.4	1.4	0.5	0.8	0.9	0.9
50113R	PIE X & CARDINAL	371	0.38	0.4	0.9	1.2	1.6	0.4	0.9	1.0	1.0
50115C	PEEL & MAISONNEUVE	337	0.47	0.5	0.8	1.1	1.3	0.5	0.7	0.9	0.9
HULL, QUEBEC											
50203R	GAMBLIN & JOFFRE	287	0.27	0.3	0.8	1.1	1.5	0.3	0.7	0.8	0.8
QUEBEC, QUEBEC											
50303I	CENTRE LOISIRS LIMOILLOU	372	0.16	0.2	0.7	1.1	2.3	0.2	0.5	0.6	0.6
50304C	155 DORCHESTER SUD	370	0.52	0.5	1.6	2.2	3.2	0.6	1.2	1.5	1.5
TROIS-RIVIERES, QUEBEC											
50801R	HART & STE-CECILE	372	0.51	0.7	1.9	2.6	3.5	0.7	1.5	1.7	1.8
TRACY, QUEBEC											
51001R	3225 AVE COURSHESNE	367	0.26	0.3	0.7	1.0	1.4	0.3	0.6	0.7	0.8
THETFORD MINES, QUEBEC											
51101C	BOUL. STE-MARTHE	350	0.19	0.2	0.6	0.9	1.4	0.2	0.5	0.6	0.7
SHAWINIGAN, QUEBEC											
51201I	FRIGON & LAVAL	346	0.37	0.4	0.9	1.6	2.3	0.4	0.6	0.7	0.8
OTTAWA, ONT.											
60101C	88 SLATER ST.	344	0.45	0.6	1.1	1.6	2.3	0.5	0.8	1.0	1.0
60102R	EXPERIMENTAL FARM	357	0.21	0.3	0.6	1.0	1.3	0.2	0.5	0.5	0.6
60103C	GILMOUR STREET	366	0.34	0.5	0.9	1.2	2.0	0.4	0.7	0.8	0.9
60104C	RIDEAU & WURTEMBURG	363	0.25	0.3	0.7	0.9	1.3	0.3	0.5	0.6	0.7
WINDSOR, ONT.											
60204C	471 UNIVERSITY AVENUE	731	(1) 0.59	0.7	1.1	1.4	1.9	0.7	1.0	1.1	1.1
60211R	COLLEGE & PRINCE	734	(1) 0.48	0.5	1.0	1.4	1.8	0.5	0.9	0.9	1.0
KINGSTON, ONT.											
60302R	NAPIER STREET	367	0.15	0.2	0.4	0.8	1.3	0.2	0.3	0.5	0.5
TORONTO, ONT.											
60401C	67 COLLEGE STREET	726	(1) 0.41	0.5	0.9	1.5	1.8	0.5	0.8	1.0	1.0
60402R	DON MILLS, SCIENCE CNTR	708	(1) 0.36	0.4	0.9	1.3	1.5	0.5	0.7	0.8	0.8
60403I	EVANS & ARNOLD	727	(1) 0.47	0.6	1.1	2.0	2.5	0.6	1.0	1.2	1.2
60409R	REDLANDS CRESCENT	371	0.29	0.4	0.9	1.2	1.3	0.4	0.5	0.6	0.6
60410R	LAWRENCE & KENNEDY	715	(1) 0.49	0.6	1.2	1.9	2.4	0.6	0.8	1.0	1.1
60411R	PHARMACY & HWY 401	674	(1) 0.53	0.7	1.4	2.0	2.4	0.7	1.0	1.2	1.2
60412R	BATHURST & WILSON	733	(1) 0.54	0.6	1.4	1.8	2.0	0.6	1.2	1.4	1.4
60413R	ELMCREST ROAD	372	0.23	0.3	0.7	1.1	1.3	0.3	0.5	0.6	0.6
HAMILTON, ONT.											
60501C	BARTON & SANFORD	737	(1) 0.58	0.7	1.2	1.5	2.4	0.7	1.0	1.1	1.1
60505R	NORTH PARK	737	(1) 0.58	0.8	1.3	1.6	1.8	0.7	1.1	1.3	1.3
SUDBURY, ONT.											
60602R	ASH STREET	736	(1) 0.23	0.3	0.7	1.1	1.3	0.3	0.5	0.7	0.9
SAULT STE. MARIE, ONT.											
60704C	445 ALBERT STREET	372	0.27	0.3	0.7	1.1	1.9	0.3	0.5	0.5	0.6
THUNDER BAY, ONT.											
60806R	435 JAMES S.	372	0.17	0.2	0.5	0.7	1.1	0.2	0.3	0.4	0.5

(1) BASED ON 1-HOUR READINGS
DONNEES INITIALES D'UNE HEURE**** CALCULATED MEANS ARE BELOW 0.1
LES MOYENNES SONT INFERIEURES A 0.1

77 - 167

SOILING INDEX
COH UNITS PER 1000 LINEAR FT.

DECEMBER - DECEMBRE
1977

INDICE DE SOUILLURE
UNITES COH PAR 1000 PIEDS LINEAIRES

STATION	LOCATION EMPLACEMENT	NUMBER OF SAMPLES NOMBRE DE DONNEES		MONTHLY MEAN MOYENNE MENSUELLE	FREQUENCY DISTRIBUTIONS				DISTRIBUTIONS DES FREQUENCES			
					INTERVALS - INTERVALLES				MEANS - MOYENNES			
					2-HOUR / HEURES				24-HOUR / HEURES			
					70	95	99	MAX	70	95	99	MAX
60901C	LONDON, ONT. KING & RECTORY	711	(1)	0.36	0.4	0.8	1.1	1.4	0.4	0.7	0.8	0.9
60902C	372 DUNDAS	366		0.24	0.3	0.6	1.1	1.5	0.3	0.5	0.7	0.7
61001C	SARNIA, ONT. 156 VICTORIA STREET	708	(1)	0.29	0.4	0.6	0.8	0.9	0.4	0.5	0.6	0.6
61103C	PETERBOROUGH, ONT. 500 GEORGE STREET	328		0.22	0.3	0.7	0.9	1.7	0.3	0.4	0.5	0.5
61201R	CORNWALL, ONT. MEMORIAL PARK	372		0.18	0.2	0.5	0.7	1.4	0.2	0.3	0.4	0.4
61301C	ST. CATHARINES, ONT. NORTH ST. & GENEVA ST.	350		0.25	0.3	0.6	1.3	1.9	0.3	0.5	0.7	0.7
61401C	BRANTFORD, ONT. DALHOUSIE & QUEEN	370		0.22	0.3	0.5	0.9	1.2	0.3	0.5	0.5	0.6
61501C	KITCHENER, ONT. EDNA & FREDERICK	372		0.29	0.3	0.8	1.3	1.7	0.3	0.6	0.7	0.7
61601R	OAKVILLE, ONT. REBECCA & WOODSIDE	369		0.25	0.3	0.7	1.2	1.2	0.3	0.5	0.7	0.7
70101C	WINNIPEG, MAN. 270 OSBORNE STREET	231		0.17	0.2	0.3	0.5	0.6	0.2	0.3	0.3	0.3
70102R	PORTAGE & WOODLAWN	319		0.12	0.1	0.3	0.3	0.4	0.1	0.2	0.2	0.2
70104I	UNION STOCK YARDS	310		0.22	0.3	0.5	0.7	0.9	0.3	0.4	0.4	0.4
70118R	JEFFERSON & SCOTIA	9		----	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70201C	BRANDON, MAN. 11TH ST. & PRINCESS AVE.	282		0.12	0.2	0.3	0.4	0.8	0.1	0.2	0.3	0.3
80102R	REGINA, SASK. 3211 ALBERT STREET	372		****	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.1
80108C	12TH AVE. & SMITH ST.	331		0.12	0.1	0.3	0.4	0.5	0.2	0.2	0.2	0.2
80202C	SASKATOON, SASK. 4TH AVE. & 23RD ST.	330		****	0.0	0.1	0.3	0.4	0.0	0.1	0.1	0.1
80203R	PORTENAU LODGE	252		****	0.1	0.2	0.3	0.4	0.1	0.1	0.2	0.2
80301C	MOOSE JAW, SASK. FAIRFORD ST. & 1ST AVE.	335		****	0.1	0.2	0.3	0.6	0.1	0.1	0.2	0.2
80401C	PRINCE ALBERT, SASK. 1257-1ST AVE. EAST	369		0.19	0.2	0.5	1.0	1.6	0.2	0.4	0.5	0.5
90109I	EDMONTON, ALTA. 149 ST. & 115 AVENUE	372		0.18	0.2	0.6	0.9	1.3	0.2	0.4	0.5	0.5
90118R	73 AVENUE & 95 STREET	372		0.15	0.2	0.5	0.8	0.9	0.2	0.3	0.4	0.5
90122R	127 ST. & 133 AVENUE	744	(1)	****	0.1	0.3	0.5	0.6	0.1	0.2	0.3	0.3
90123C	100 ST. & 102 AVENUE	162		----	0.2	0.4	3.0	5.0	0.1	0.9	0.9	0.9
90130C	10255 - 104TH STREET	744	(1)	0.26	0.3	0.9	1.3	2.1	0.3	0.7	0.9	1.0
90216R	CALGARY, ALTA. GLENMORE TRAIL & 18 ST.	372		****	0.1	0.3	0.4	0.5	0.1	0.1	0.2	0.2
90218I	BONNY BRK & 18A ST. S.E.	737	(1)	0.38	0.4	1.2	2.4	3.9	0.4	1.2	1.7	1.8
90219C	620-7TH AVENUE, S.W.	739	(1)	0.26	0.3	0.8	2.0	2.4	0.3	1.0	1.1	1.2
90222R	39 ST. & 29 AVE. N.W.	744	(1)	0.17	0.2	0.6	1.2	1.5	0.2	0.5	0.7	0.8
00102R	VANCOUVER, B.C. 100 RICHMOND STREET	0		----	-	-	-	-	-	-	-	-
00106R	2294 WEST 10TH AVENUE	185		----	1.1	1.8	2.3	2.5	1.1	1.3	1.3	1.3
00108I	250 WEST 70TH AVENUE	150		----	1.2	2.2	2.5	2.5	1.1	1.5	1.6	1.6
00109C	970 BURRARD	136		----	1.2	1.8	2.0	2.3	1.1	1.3	1.3	1.3
00110R	E. HASTINGS & KENSINGTON	144		----	0.5	0.9	1.2	1.3	0.3	0.5	0.5	0.6
00111I	ROCKY PT. PARK	341		0.60	0.8	1.4	1.7	2.2	0.8	1.0	1.2	1.2
00201C	PRINCE GEORGE, B.C. 1306-7TH AVENUE	221		****	0.2	0.3	0.4	0.5	0.2	0.2	0.2	0.2
00301C	VICTORIA, B.C. POLICE STATION, FISGUARD	0		----	-	-	-	-	-	-	-	-
00302C	1106 COOK ST.	328		0.22	0.2	0.5	1.1	1.6	0.2	0.4	0.4	0.6
09001C	WHITEHORSE, YUKON FEDERAL BUILDING	320		0.79	1.0	2.5	4.4	8.4	1.0	1.7	3.2	3.4

(1) BASED ON 1-HOUR READINGS
DONNEES INITIALES D'UNE HEURE

**** CALCULATED MEANS ARE BELOW 0.1
LES MOYENNES SONT INFERIEURES A 0.1

---- INSUFFICIENT DATA FOR CALCULATION OF A VALID MEAN.
IL N'Y A PAS ASSEZ DE DONNEES POUR CALCULER UNE MOYENNE VALABLE.

77 -168

SUSPENDED PARTICULATE MATTER AND LEAD
MICROGRAMS PER CUBIC METREDECEMBER - DECEMBRE
1977PLOMB ET PARTICULES EN SUSPENSION
MICROGRAMMES PAR METRE CUBE

STATION	LOCATION EMPLACEMENT	*----- PARTICULATES / PARTICULES -----*						*----- LEAD / PLOMB -----*					
		----- DAY / JOUR -----					MEAN	*----- DAY / JOUR -----*					MEAN
		3	9	15	21	27	MOYENNE	3	9	15	21	27	MOYENNE
10101C	ST. JOHN'S, NFLD. DUCKWORTH & ORDINANCE	37	-	29	-	7	24	0.1	-	0.4	-	0.0	0.2
20101C	CHARLOTTETOWN, P.E.I. 56 FITZROY ST.	27	-	11	30	43	28	0.1	-	0.4	0.4	0.2	0.3
30101C	HALIFAX, N.S.												
30102R	N.S. TECHNICAL COLLEGE	41	44	35	30	21	34	0.2	0.2	0.7	0.1	0.1	0.2
30102R	DALHOUSIE UNIVERSITY	37	-	20	26	15	25	0.2	-	0.6	0.1	0.1	0.3
30114R	MT ST VINCENT UNIVERSITY	10	21	4	18	9	12	0.1	0.1	0.4	0.1	0.1	0.2
30115I	CFB SHEARWATER	13	-	25	22	18	20	0.0	-	0.3	0.0	0.0	0.1
30310C	SYDNEY, N.S.												
30311R	COUNTY JAIL	71	71	36	-	57	59	0.4	1.0	0.6	-	0.2	0.6
	WHITNEY PIER FIRE STN.	-	115	54	-	107	92	-	0.3	0.5	-	0.4	0.4
40102C	FREDERICTON, N.B. YORK STREET	70	33	29	-	12	36	0.3	0.4	0.4	-	0.6	0.4
40201C	SAINT JOHN, N.B. 110 CHARLOTTE STREET	69	41	43	38	72	53	-	-	-	-	-	-
40301C	MONCTON, N.B. 774 MAIN STREET	-	-	-	47	38	-	-	-	-	0.4	0.5	-
50102R	MONTREAL, QUEBEC												
50103R	JARDIN BOTANIQUE	60	44	76	46	48	55	-	-	-	-	-	-
50104C	POINTE-AUX-TREMBLES	69	62	33	21	73	52	-	-	-	-	-	-
50105C	1125 ONTARIO EST	49	30	50	53	84	53	-	-	-	-	-	-
50106R	1212 DRUMMOND	69	63	65	46	168	82	-	-	-	-	-	-
50107R	VILLE ST-LAURENT	47	57	73	50	93	64	-	-	-	-	-	-
50108R	VILLE LASALLE	95	78	115	113	84	97	-	-	-	-	-	-
50109C	1700 BOURASSA, LONGUEUIL	51	29	44	36	60	44	-	-	-	-	-	-
50110C	DUNCAN & DECARIE	100	80	133	105	130	110	-	-	-	-	-	-
50111C	PARC PILON, MTL.-NORD	26	50	32	52	85	49	-	-	-	-	-	-
50112C	2900 BOUL. CONCORDE	93	-	31	-	49	58	-	-	-	-	-	-
50113R	BOUL. LAURENTIDES	-	70	29	41	-	47	-	-	-	-	-	-
50115C	PIE X & CARDINAL	50	24	-	-	54	43	-	-	-	-	-	-
	PEEL & MAISONNEUVE	125	101	84	54	182	109	-	-	-	-	-	-
50203R	HULL, QUEBEC GAMBLIN & JOFFRE	20	-	38	27	47	33	0.1	-	0.5	0.3	1.0	0.5
50301C	QUEBEC, QUEBEC												
50302R	PARC-AUTOS PAQ.LALIBERTE	42	27	39	-	61	42	0.8	0.5	1.1	-	1.0	0.9
50303I	PARC BARDY	30	12	28	-	43	28	0.6	-	1.0	-	1.0	0.9
50304C	CENTRE LOISIRS LIMOILLOU	45	67	53	-	70	59	0.5	0.5	0.8	-	0.7	0.6
	155 DORCHESTER SUD	39	29	21	-	79	42	0.5	0.5	0.6	-	1.0	0.6
50402R	SHERBROOKE, QUEBEC												
50403C	CASERNE DE POMPIERS #5	65	19	29	15	38	33	0.3	0.5	0.9	0.4	1.0	0.6
	WELLINGTON & ALBERT	-	-	-	-	-	-	-	-	-	-	-	-
50502R	CHICOUTIMI, QUEBEC USINE DE FILTRATION	69	-	-	-	65	-	0.5	-	-	-	0.6	-
50601C	ROUYN, QUEBEC HOTEL DE VILLE	10	-	13	-	-	-	-	-	-	-	-	-
50801R	TROIS-RIVIERES, QUEBEC HART & STE-CECILE	55	35	48	49	50	47	-	-	-	-	-	-
50901R	ARVIDA, QUEBEC POWELL & HOOPES	66	179	163	101	89	120	2.0	0.5	1.4	1.5	2.3	1.5
51002R	TRACY, QUEBEC GARNEAU & RTE 132	20	19	101	61	127	66	-	-	-	-	-	-
51101C	THETFORD MINES, QUEBEC BOUL. STE-MARTHE	-	-	-	-	33	-	-	-	-	-	-	-
51201I	SHAWINIGAN, QUEBEC FRIGON & LAVAL	58	68	65	56	197	89	-	-	-	-	-	-
51301R	BAIE COMEAU, QUEBEC 39 AVE. MARGUETTE	30	-	16	-	-	-	0.1	-	0.1	-	-	-
60101C	OTTAWA, ONT.												
60104C	88 SLATER ST.	54	42	57	31	57	48	0.4	0.7	1.0	0.6	1.1	0.8
	RIDEAU & WURTEMBERG	-	-	29	19	35	28	-	-	-	-	-	-
60201I	WINDSOR, ONT.												
60202C	MORTON TERMINAL DOCK	-	-	-	-	-	-	-	-	-	-	-	-
60203R	CITY HALL	108	107	55	51	66	77	0.8	0.8	0.6	0.3	0.6	0.6
	TECUMSEH WATER WORKS	-	-	-	-	-	-	-	-	-	-	-	-
60301R	KINGSTON, ONT. QUEEN'S UNIVERSITY	26	45	33	21	30	31	0.1	0.1	0.5	0.2	0.2	0.2
60401C	TORONTO, ONT.												
60402R	67 COLLEGE STREET	-	43	25	86	-	51	-	-	-	-	-	-
	DON MILLS, SCIENCE CNTR	24	55	26	31	44	36	-	-	-	-	-	-

77 -169

SUSPENDED PARTICULATE MATTER AND LEAD
MICROGRAMS PER CUBIC METREDECEMBER - DECEMBRE
1977PLOMB ET PARTICULES EN SUSPENSION
MICROGRAMMES PAR METRE CUBE

STATION	LOCATION EMPLACEMENT	*----- PARTICULATES / PARTICULES -----*						*----- LEAD / PLOMB -----*					
		----- DAY / JOUR -----					MEAN	*----- DAY / JOUR -----*					MEAN
		3	9	15	21	27	MOYENNE	3	9	15	21	27	MOYENNE
60403I	EVANS & ARNOLD	49	54	63	67	72	61	1.6	0.6	2.5	1.8	0.8	1.5
60409R	REDLANDS CRESCENT	30	-	32	32	31	31	0.3	-	0.7	0.4	0.3	0.4
60410R	LAWRENCE & KENNEDY	47	46	39	52	86	54	-	-	-	-	-	-
60411R	PHARMACY & HWY 401	93	198	62	128	113	119	-	-	-	-	-	-
60412R	BATHURST & WILSON	32	75	46	47	62	52	-	-	-	-	-	-
60413R	ELMCREST ROAD	27	58	37	41	73	47	-	-	-	-	-	-
HAMILTON, ONT.													
60501C	BARTON & SANFORD	47	50	-	79	92	67	-	0.7	-	-	-	-
60503I	CHATHAM & FRID	25	49	53	47	154	66	0.0	0.3	0.6	0.4	0.4	0.3
60505R	NORTH PARK	-	-	103	104	164	124	-	-	-	1.6	1.2	-
SUDBURY, ONT.													
60602R	ASH STREET	-	-	-	-	-	-	-	-	-	-	-	-
60605C	19 LISGAR STREET	30	35	47	23	-	34	0.5	0.6	1.0	0.6	-	0.7
SAULT STE. MARIE, ONT.													
60704C	445 ALBERT STREET	93	20	22	21	26	36	0.7	-	-	-	-	-
THUNDER BAY, ONT.													
60801C	14 ALGOMA STREET	-	12	61	12	36	30	-	0.3	0.4	0.1	0.6	0.4
60806R	435 JAMES S.	8	9	82	10	23	26	-	-	-	-	-	-
LONDON, ONT.													
60901C	KING & RECTORY	66	34	48	-	78	57	0.7	0.4	-	-	-	-
60902C	372 DUNDAS	23	39	32	21	37	30	0.2	0.2	0.6	0.2	0.3	0.3
SARNIA, ONT.													
61001C	156 VICTORIA STREET	62	49	59	71	109	70	0.5	0.6	0.9	0.6	-	0.7
PETERBOROUGH, ONT.													
61103C	500 GEORGE STREET	-	-	-	-	-	-	-	-	-	-	-	-
CORNWALL, ONT.													
61201R	MEMORIAL PARK	48	40	33	-	40	40	-	-	-	-	-	-
ST. CATHARINES, ONT.													
61301C	NORTH ST. & GENEVA ST.	43	43	47	37	51	44	-	-	-	-	-	-
BRANTFORD, ONT.													
61401C	DALHOUSIE & QUEEN	35	89	41	-	-	55	-	-	-	-	-	-
KITCHENER, ONT.													
61501C	EDNA & FREDERICK	17	26	35	-	38	29	-	-	-	-	-	-
OAKVILLE, ONT.													
61601R	REBECCA & WOODSIDE	-	-	35	35	36	35	-	-	0.8	0.4	0.3	0.5
WINNIPEG, MAN.													
70101C	270 OSBORNE STREET	44	42	71	69	38	53	1.4	1.0	0.8	1.2	0.5	1.0
70102R	PORTAGE & WOODLAWN	-	-	-	-	-	-	-	-	-	-	-	-
70104I	UNION STOCK YARDS	43	68	30	57	36	47	0.6	0.8	0.2	0.5	0.2	0.5
70118R	JEFFERSON & SCOTIA	20	24	21	36	44	29	0.5	0.6	0.1	0.6	0.3	0.4
BRANDON, MAN.													
70201C	11TH ST. & PRINCESS AVE.	65	33	25	19	-	36	0.7	0.4	0.4	0.4	-	0.5
REGINA, SASK.													
80102R	3211 ALBERT STREET	10	10	10	18	10	12	0.0	0.3	0.0	0.4	0.0	0.2
80108C	12TH AVE. & SMITH ST.	12	23	12	22	11	16	0.2	0.5	0.2	0.5	0.1	0.3
SASKATOON, SASK.													
80202C	4TH AVE. & 23RD ST.	-	-	-	-	-	-	-	-	-	-	-	-
80203R	PORTENAU LODGE	37	9	-	65	16	32	0.1	0.1	-	0.2	0.1	0.1
MOOSE JAW, SASK.													
80301C	FAIRFORD ST. & 1ST AVE.	22	31	18	30	13	23	0.1	0.5	0.2	0.3	0.0	0.2
PRINCE ALBERT, SASK.													
80401C	1257-1ST AVE. EAST	65	15	19	21	10	26	0.0	0.2	0.1	0.5	0.1	0.2
EDMONTON, ALTA.													
90103R	146TH ST. & 92ND AVE.	31	38	31	36	16	30	0.3	1.0	0.4	1.8	0.9	0.9
90121I	17 STREET & 105 AVENUE	23	45	18	47	23	31	0.1	0.7	0.1	0.8	0.4	0.4
90122R	127 ST. & 133 AVENUE	33	32	30	51	44	36	0.0	0.5	0.1	1.1	0.1	0.4
90123C	100 ST. & 102 AVENUE	33	47	31	50	23	37	0.4	1.1	0.5	2.5	0.5	1.0
90130C	10255 - 104TH STREET	41	-	40	55	19	39	0.2	-	0.4	1.3	0.2	0.5
CALGARY, ALTA.													
90203R	407-31 AVENUE, N.W.	56	92	63	17	30	52	0.1	0.8	0.7	0.1	0.6	0.5
90204C	316-7TH AVENUE	-	-	126	51	-	-	-	-	1.3	1.1	-	-
9218I	BONNY BRK & 18A ST. S.E.	65	51	148	41	-	76	0.3	0.4	1.4	0.4	-	0.6
222R	39 ST. & 29 AVE. N.W.	46	65	54	-	-	55	0.0	0.6	0.3	-	-	0.3
RED DEER, ALTA.													
90301C	4747 50TH STREET	35	25	23	33	19	27	0.0	0.6	0.1	1.4	0.7	0.6
MEDICINE HAT, ALTA.													
90401C	770 FIRST STREET, S.E.	46	37	21	-	-	35	0.0	0.5	0.2	-	-	0.2

77 -170

SUSPENDED PARTICULATE MATTER AND LEAD
MICROGRAMS PER CUBIC METREDECEMBER - DECEMBRE
1977PLOMB ET PARTICULES EN SUSPENSION
MICROGRAMMES PAR METRE CUBE

STATION	LOCATION EMPLACEMENT	*----- PARTICULATES / PARTICULES -----*						*----- LEAD / PLOMB -----*					
		----- DAY / JOUR -----					MEAN	*----- DAY / JOUR -----*					MEAN
		3	9	15	21	27	MOYENNE	3	9	15	21	27	MOYENNE
90501C	LETHBRIDGE, ALTA. 13 ST. & 9 AVENUE S.	30	29	32	146	51	58	0.0	0.1	0.2	0.0	0.0	0.1
99001C	YELLOWKNIFE, N.W.T. 50TH AVE. & 51ST STREET	32	67	-	37	-	45	0.2	1.3	-	0.6	-	0.7
	VANCOUVER, B.C.												
00102R	100 RICHMOND STREET	31	93	37	203	120	97	0.4	0.3	0.8	3.4	2.4	1.4
00104R	27TH & ONTARIO	45	57	29	172	122	85	0.1	0.8	0.7	3.4	2.8	1.6
00106R	2294 WEST 10TH AVENUE	24	59	33	168	112	79	0.2	1.0	0.7	3.9	2.6	1.7
00108I	250 WEST 70TH AVENUE	48	113	55	209	132	111	0.3	0.6	1.1	4.5	3.3	2.0
00109C	970 BURRARD	43	67	27	191	108	87	0.6	1.3	0.9	3.6	2.7	1.8
00110R	E. HASTINGS & KENSINGTON	37	44	26	173	89	74	0.4	0.7	0.7	3.1	1.6	1.3
00111I	ROCKY PT. PARK	58	52	52	101	125	78	0.4	0.3	0.6	2.1	1.9	1.0
	PRINCE GEORGE, B.C.												
00201C	1306-7TH AVENUE	15	-	76	-	25	39	0.3	-	1.8	-	0.4	0.8
	VICTORIA, B.C.												
00301C	POLICE STATION, FISGUARD	25	-	29	87	52	48	0.2	-	0.5	2.1	0.4	0.8
00302C	1106 COOK ST.	43	41	35	-	50	42	0.7	0.7	0.5	-	0.5	0.6
	WHITEHORSE, YUKON												
09001C	FEDERAL BUILDING	-	-	48	38	27	38	-	-	0.7	1.1	0.5	0.8

77 -171

COMBINATION OF SULPHUR DIOXIDE AND
SUSPENDED PARTICULATES
1000*(MICROGRAMS/CU.METRE)**2

DECEMBER - DECEMBRE
1977

DIOXYDE DE SOUFRE ET
PARTICULES EN ASSOCIATION
1000*(MICROGRAMMES/METRE CUBE)**2

STATION	LOCATION EMPLACEMENT	*----- DAY / JOUR -----*				
		3	9	15	21	27
10101C	ST. JOHN'S, Nfld. DUCKWORTH & ORDINANCE	1	-	-	-	0
20101C	CHARLOTTETOWN, P.E.I. 56 FITZROY ST.	0	-	0	1	-
30114R	HALIFAX, N.S. MT ST VINCENT UNIVERSITY	0	0	0	0	0
30115I	CPB SHEARWATER	-	-	2	-	1
30310C	SYDNEY, N.S. COUNTY JAIL	0	0	0	-	0
30311R	WHITNEY PIER FIRE STN.	-	-	-	-	5
50102R	MONTREAL, QUEBEC JARDIN BOTANIQUE	2	2	6	2	4
50103R	POINTE-AUX-TREMBLES	10	6	4	0	-
50104C	1125 ONTARIO EST	1	1	3	1	6
50105C	1212 DRUMMOND	5	6	16	3	35
50106R	VILLE ST-LAURENT	-	0	0	0	0
50107R	VILLE LASALLE	0	1	10	0	6
50109C	DUNCAN & DECARIE	0	1	2	4	13
50110C	PARC PILON, MTL.-NORD	0	2	-	6	4
50111C	2900 BOUL. CONCORDE	2	-	-	-	3
50112C	BOUL. LAURENTIDES	-	-	1	2	-
50113R	PIE X & CARDINAL	0	1	-	-	3
50115C	PEEL & MAISONNEUVE	10	5	11	1	26
50203R	HULL, QUEBEC GAMELIN & JOFFRE	-	-	2	0	3
50303I	QUEBEC, QUEBEC CENTRE LOISIRS LIMOILLOU	2	4	7	-	3
50304C	155 DORCHESTER SUD	1	6	5	-	3
50601C	ROUYN, QUEBEC HOTEL DE VILLE	0	-	0	-	-
50801R	TROIS-RIVIERES, QUEBEC HART & STE-CECILE	2	4	10	11	6
50901R	ARVIDA, QUEBEC POWELL & HOOPES	1	23	25	34	6
51201I	SHAWINIGAN, QUEBEC FRIGON & LAVAL	-	-	-	10	-
51301R	BAIE COMEAU, QUEBEC 39 AVE. MARGUETTE	1	-	2	-	-
60101C	OTTAWA, ONT. 88 SLATER ST.	1	2	5	0	4
60104C	RIDEAU & WURTEMBERG	-	-	3	1	-
60201I	WINDSOR, ONT. MORTON TERMINAL DOCK	-	-	-	-	-
60401C	TORONTO, ONT. 67 COLLEGE STREET	-	2	2	1	-
60402R	DON MILLS, SCIENCE CNTR	0	0	1	0	0
60403I	EVANS & ARNOLD	0	2	3	1	1
60409R	REDLANDS CRESCENT	1	-	2	1	1
60410R	LAWRENCE & KENNEDY	2	2	3	0	-
60411R	PHARMACY & HWY 401	0	13	3	4	-
60412R	BATHURST & WILSON	1	2	4	2	4
60413R	ELMCREST ROAD	1	1	1	0	0
60501C	HAMILTON, ONT. BARTON & SANFORD	1	3	-	2	4
60505R	NORTH PARK	-	-	5	4	15
60602R	SUDBURY, ONT. ASH STREET	-	-	-	-	-
60704C	SAULT STE. MARIE, ONT. 445 ALBERT STREET	5	1	1	1	1
60806R	THUNDER BAY, ONT. 435 JAMES S.	0	0	0	0	0
60901C	LONDON, ONT. KING & RECTORY	1	1	1	-	2
61001C	SARNIA, ONT. 156 VICTORIA STREET	0	3	4	16	3
61103C	PETERBOROUGH, ONT. 500 GEORGE STREET	-	-	-	-	-

77 -172

COMBINATION OF SULPHUR DIOXIDE AND
SUSPENDED PARTICULATES
1000*(MICROGRAMS/CU.METRE)**2

DECEMBER - DECEMBRE
1977

DIOXYDE DE SOUFRE ET
PARTICULES EN ASSOCIATION
1000*(MICROGRAMMES/METRE CUBE)**2

STATION	LOCATION EMPLACEMENT	*----- DAY / JOUR -----*				
		3	9	15	21	27
61201R	CORNWALL, ONT. MEMORIAL PARK	4	-	2	-	1
61301C	ST. CATHARINES, ONT. NORTH ST. & GENEVA ST.	0	1	1	1	0
61401C	BRANTFORD, ONT. DALHOUSIE & QUEEN	0	3	1	-	-
61501C	KITCHENER, ONT. EDNA & FREDERICK	0	1	0	-	0
61601R	OAKVILLE, ONT. REBECCA & WOODSIDE	-	-	0	0	1
70101C	WINNIPEG, MAN. 270 OSBORNE STREET	1	2	3	-	-
70102R	PORTAGE & WOODLAWN	-	-	-	-	-
70104I	UNION STOCK YARDS	-	2	1	2	1
70118R	JEFFERSON & SCOTIA	0	0	0	0	-
70201C	BRANDON, MAN. 11TH ST. & PRINCESS AVE.	-	0	0	0	-
80108C	REGINA, SASK. 12TH AVE. & SMITH ST.	-	-	-	-	-
80202C	SASKATOON, SASK. 4TH AVE. & 23RD ST.	-	-	-	-	-
80301C	MOOSE JAW, SASK. FAIRFORD ST. & 1ST AVE.	-	-	-	-	-
80401C	PRINCE ALBERT, SASK. 1257-1ST AVE. EAST	0	0	0	0	0
90121I	EDMONTON, ALTA. 17 STREET & 105 AVENUE	0	0	0	0	0
90122R	127 ST. & 133 AVENUE	0	0	0	0	0
90130C	10255 - 104TH STREET	0	-	0	0	0
90218I	CALGARY, ALTA. BONNY BRK & 18A ST. S.E.	0	0	0	0	-
90222R	39 ST. & 29 AVE. N.W.	0	0	0	-	-
00106R	VANCOUVER, B.C. 2294 WEST 10TH AVENUE	-	-	-	13	8
00108I	250 WEST 70TH AVENUE	-	-	-	-	-
00109C	970 BURRARD	0	5	0	14	7
00110R	E. HASTINGS & KENSINGTON	0	0	0	16	3
00111I	ROCKY PT. PARK	-	-	-	-	-
00201C	PRINCE GEORGE, B.C. 1306-7TH AVENUE	0	-	2	-	0
00301C	VICTORIA, B.C. POLICE STATION, FISGUARD	-	-	-	-	-
09001C	WHITEHORSE, YUKON FEDERAL BUILDING	-	-	-	-	-

77 - 173

DUSTFALL
GRAMS PER SQUARE METRE PER 30 DAYS
SULPHATION RATES
MILLIGRAMS PER 100 CM2 PER DAY

DECEMBER - DECEMBRE
1977

RETOMBEES DE POUSSIÈRES
GRAMMES PAR METRE CARRE PAR 30 JOURS
INDICES DE FORMATION DE SULFATE
MILLIGRAMMES PAR 100 CM2 PAR JOUR

STATION	LOCATION EMPLACEMENT	DUSTFALL RETOMBEES DE POUSSIÈRES	S03
SYDNEY, N.S.			
30301R	MURPHY ROAD	9.7	0.3 **
30309I	PT EDWARD, RICHMOND PLST	3.5	0.2 **
30310C	COUNTY JAIL	7.0	0.4 **
30311R	WHITNEY PIER FIRE STN.	38.9	0.6 **
GLACE BAY, N.S.			
30401R	LAKE ROAD	8.2	0.3 **
30405C	GENERAL HOSPITAL	10.2	1.4 **
30406R	PUMPING STATION ROAD	-	0.3 **
MONTREAL, QUEBEC			
50101R	PARC JARRY	4.0	0.9 *
50102R	JARDIN BOTANIQUE	9.0	0.9 *
50103R	POINTE-AUX-TREMBLES	8.0	- *
50106R	VILLE ST-LAURENT	7.0	1.4 *
50107R	VILLE LASALLE	9.0	1.0 *
OTTAWA, ONT.			
60101C	88 SLATER ST.	6.3	-
60102R	EXPERIMENTAL FARM	1.9	-
60103C	GILMOUR STREET	2.5	-
WINDSOR, ONT.			
60201I	MORTON TERMINAL DOCK	-	-
60202C	CITY HALL	-	-
60203R	TECUMSEH WATER WORKS	-	-
60209R	E. C. ROWE & JEFFERSON	-	-
TORONTO, ONT.			
60401C	67 COLLEGE STREET	7.4	0.8 *
60403I	EVANS & ARNOLD	4.4	0.6 *
60404R	5126 YONGE STREET	3.9	0.5 *
60405I	JOHN STREET PUMP STATION	9.4	0.8 *
60406R	ROSEHILL RESERVOIR	3.0	0.8 *
60408C	DANFORTH & ROBINSON	10.8	0.7 *
HAMILTON, ONT.			
60501C	BARTON & SANFORD	7.6	0.7 *
60502I	BURLINGTON & GAGE	13.1	1.1 *
60503I	CHATHAM & FRID	10.9	0.8 *
60507C	HUGHSON & HUNTER	9.2	0.7 *
60510I	STRATHEARN	12.2	0.9 *
SAULT STE. MARIE, ONT.			
60702R	ANNA MCREA PUBLIC SCHOOL	1.2	0.3 *
60703I	BAYVIEW & YOUNG	3.6	0.7 *
THUNDER BAY, ONT.			
60801C	14 ALGOMA STREET	1.1	0.2 *
60802I	185 GORE STREET	2.4	0.2 *
60805C	521 MEMORIAL AVENUE	2.7	0.1 *
LONDON, ONT.			
60901C	KING & RECTORY	4.5	0.6 *
SARNIA, ONT.			
61001C	156 VICTORIA STREET	5.5	1.5 *
WINNIPEG, MAN.			
70105R	MARTIN & HENDERSON HWY	-	0.2 **
70110C	KENNEDY & ST. MARY'S	4.3	-
70113I	WINDERMERE & ROCKMAN	-	- **
70115C	PORTAGE & MINTO	10.3	0.1 **
70116I	SMITH & KING	7.5	0.2 **
EDMONTON, ALTA.			
90125C	PRINS ELIZABETH & 108 ST	0.5	0.2 **
90126R	77 AVENUE & 85 STREET	0.5	- **
90127I	115 AVENUE & 159 STREET	5.1	0.2 **
90128R	99 AVENUE & 160 STREET	1.5	0.2 **
CALGARY, ALTA.			
90219C	620-7TH AVENUE, S.W.	4.4	0.3 **
90221R	DALHOUSIE DR & DALHAM DR	1.0	0.3 **
90223C	11 ST. & 38 AVE. S.E.	0.6	0.3 **
90224I	OGDENDALE & 71 AVE S.E.	1.1	0.2 **
90225R	PALLISER DR & OAKWOOD SW	1.2	0.1 **
90226I	SHEPPARD & 84 AVE S.E.	1.0	0.2 **

* INDICATES LEAD PEROXIDE CANDLE
DENOTE LA CHANDELLE DE PEROXYDE DE PLOMB

** INDICATES LEAD PEROXIDE PLATE
DENOTE LA PLAQUE DE PEROXYDE DE PLOMB