NATIONAL AIR POLLUTION SURVEILLANCE

MONTHLY SUMMARY

FOR

JANUARY 1971

Compiled by the

Air Pollution Control Division
Department of the Environment

From data collected by the Provinces of:

Nova Scotia
New Brunswick
Quebec
Ontario
Manitoba
Saskatchewan
Alberta
British Columbia
and the Government of Canada

Issued under the authority of the
Honourable Jack Davis P.C., M.P.,
Minister of the Environment

August 1971

SURVEILLANCE NATIONALE DE LA POLLUTION ATMOSPHÉRIQUE

SOMMAIRE MENSUEL

DE

JANVIER 1971

Établi par la

Division de la prévention de la pollution atmosphérique
Ministère de l'Environnement

Extrait de données réunies par les provinces de:

Nouvelle-Écosse
Nouveau-Brunswick
Québec
Ontario
Manitoba
Saskatchewan
Alberta
Colombie-Britannique
et par le gouvernement du Canada

Publication autorisée par
l'honorable Jack Davis, C.P., DÉPUTÉ
Ministre de l'Environnement

Août 1971

Foreword

The National Air Pollution Surveillance Program is a joint project based on the cooperative efforts of both the Federal and Provincial levels of government.

A knowledge of the nature and extent of air pollution across Canada is fundamental to the sound planning of control and abatement programs. In its broadest context, therefore, the purpose of the National Air Pollution Surveillance Program is to monitor and assess the quality of the ambient air in the populated regions of Canada on a continuing basis. In addition, however, the program serves a number of other needs and in this respect will become increasingly more useful as data accumulates. For example, it will be possible to detect trends in the levels of pollution with the passage of time and with respect to changing industrial activity, population density and air pollution abatement progress. Information collected by the program can be used in epidemiological studies and to provide background for the development of air quality objectives.

It was for these reasons that Federal and Provincial air pollution control officials meeting annually in Ottawa in 1969 and 1970 have agreed that priority attention should be given to the development of a completely revised and more comprehensive National Air Pollution Surveillance Program. An important first step in achieving the goals of this program is the monthly reporting of data.

Avant-propos

Le programme national de surveillance de la pollution atmosphérique est un projet mixte basé sur les efforts collectifs des gouvernements fédéral et provinciaux.

Une connaissance de la nature et de l'étendue de la pollution de l'air dans tout le Canada est essentielle à la bonne planification des programmes de prévention et de réduction de la pollution. Dans son contexte le plus large, l'objectif du programme national de surveillance de la pollution atmosphérique est donc de surveiller et d'évaluer, sur une base continue, la qualité de l'air ambiant dans les regions peuplées du Canada. Ce programme répond cependant à un certain nombre d'autres besoins et, à ce titre, il deviendra de plus en plus utile à mesure que les données s'accumuleront. Par exemple, avec le temps, il sera possible de répérer les tendances des niveaux de pollution, compte tenu des variations de l'activité industrielle de la densité de population et du progrès accompli dans la reduction de la pollution atmosphérique. Les renseignements recueillis par ces programmes peuvent être utilisés dans les études épidémiologiques et servir de fond à l'élaboration des objectifs de la qualité de l'air.

C'est pour ces raisons qu'à leurs réunions de 1969 et de 1970 à Ottawa, les représentants fédéraux et provinciaux de la Lutte contre la pollution atmosphérique, ont reconnu qu'il fallait donner la priorité à la réorganisation et à l'extension du programme national de surveillance de la pollution atmosphérique. Une étape importante a été franchie déjà: chaque mois on publie un rapport de données.

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Public Health Services,
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Environmental Protection Services,
Department of Municipal Affairs,
Province of Quebec.

Air Management Branch,
Department of Energy and Resources Management,
Province of Ontario.

Enviornmental Health Laboratory,
Department of Health and Social Development,
Province of Manitoba.

Occupational Health Branch,
Department of Public Health,
Province of Saskatchewan.

Division of Pollution Control,
Department of the Environment,
Province of Alberta.

Pollution Control Branch,
Department of Lands, Forests and Water Resources,
Province of British Columbia.

Air Pollution Control Division,
Department of the Environment.

Organismes collaborateurs

Consultation Services,
Ministère de la Santé publique,
Province de Nouvelle-Écosse.

Public Health Services,
Ministère de la Santé publique,
Province du Nouveau-Brunswick.

Service de Protection de l'Environnement,
Ministère des Affaires Municipales,
Province de Québec.

Air Management Branch,
Ministère de la gestion de l'Energie et des Ressources,
Province d'Ontario.

Environmental Health Laboratory,
Ministère de la Santé et du Développement sociaux,
Province du Manitoba.

Occupational Health Branch,
Ministère de la Santé publique,
Province de Saskatchewan.

Division of Pollution Control,
Ministère de l'Environnement,
Province d'Alberta.

Pollution Control Branch,
Ministère des Ressources Naturelles,
Province de la Colombie - Britannique.

Division de la prévention de la pollution atmosphérique,
Ministère de l'Environnement.

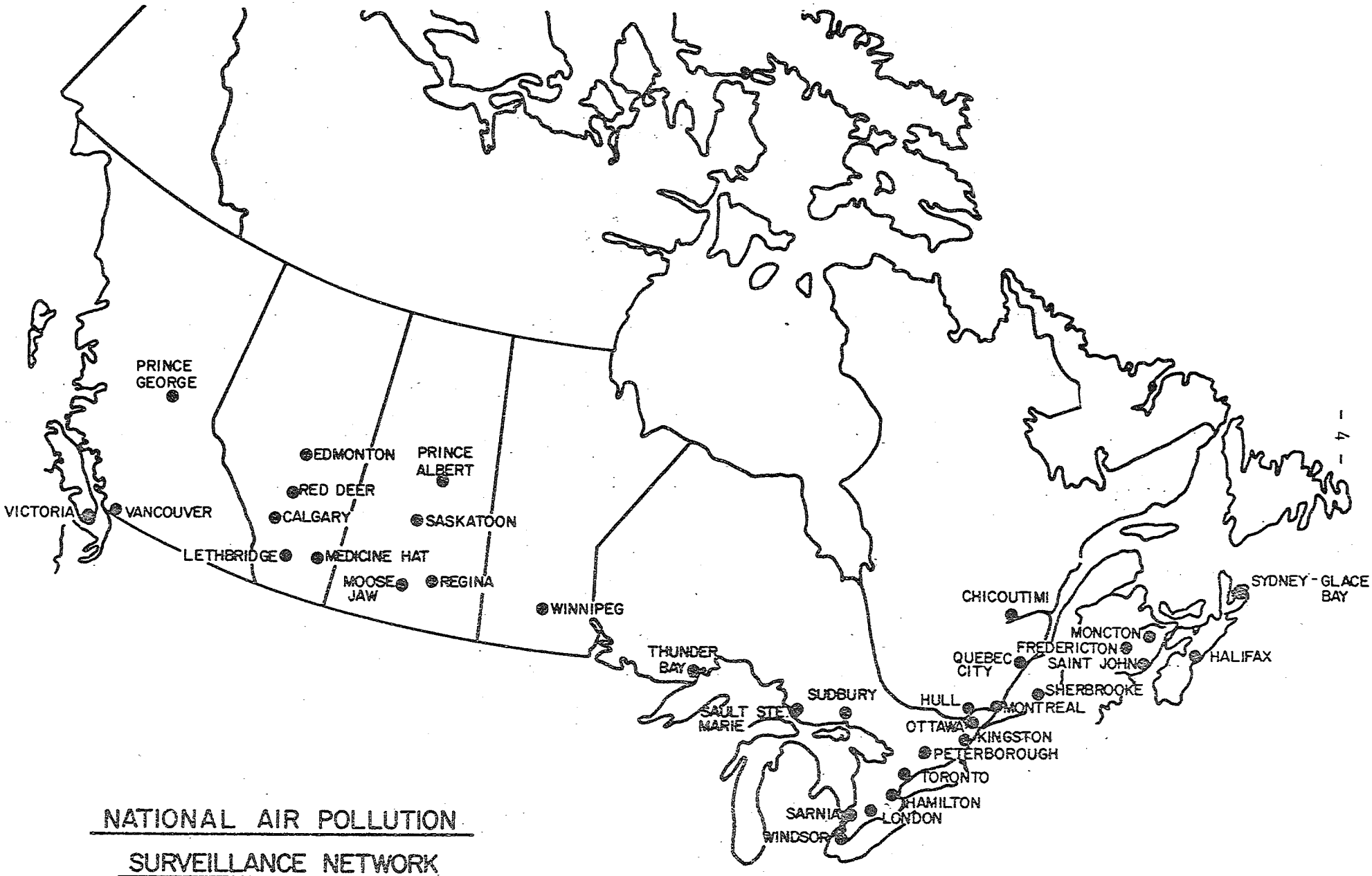
The National Air Pollution Surveillance Network

Sampling stations providing data for this summary are located in the following Canadian cities:

Le réseau national de surveillance de la pollution atmosphérique

Les stations d'échantillonnage qui fournissent les données pour le présent sommaire sont situées dans les villes canadiennes suivantes:

Halifax
Sydney
Glace Bay
Fredericton
Saint John
Moncton
Montreal
Hull
Ottawa
Windsor
Kingston
Toronto
Hamilton
Sudbury
Sault Ste. Marie
Thunder Bay
London
Sarnia
Peterborough
Winnipeg
Regina
Saskatoon
Edmonton
Calgary
Red Deer
Medicine Hat
Lethbridge
Vancouver
Prince George
Victoria



NATIONAL AIR POLLUTION SURVEILLANCE NETWORK

(AUGUST, 1971)

Explanatory Note

The data reported in this monthly summary have been gathered by cooperating agencies across Canada and forwarded to the Federal Department of the Environment for compilation. As of August, 1971, the program consisted of 233 sampling instruments in 33 cities across eight provinces. Measurements are being made for soiling index, sulphur dioxide, dustfall, sulphation rate and suspended particulates. In some cases, the data may not represent the total contribution of the participating agency since only representative stations have been included.

In addition to coordinating the National Air Pollution Surveillance Program, the Federal Government is, in a number of locations, providing the monitoring equipment for sampling stations which are operated by a cooperating provincial agency. In other locations, the provinces supply data from their own equipment. The Federal Air Pollution Control Division also operates its own sampling stations in Ottawa, Hull and Windsor.

The program is gradually being expanded to other cities and additional stations are being included and will be reported as they become operational. It is intended to eventually broaden the network to include other pollution indices and to provide a correlation with weather readings provided by the Canadian Meteorological Service. Future plans call for increased standardization, a national reference centre for sampling methodology and a calibration service to facilitate the intercomparability of results from different agencies.

The reader will, no doubt, wish to make direct comparisons of the pollution levels in different cities. Caution should be exercised in this regard since undefinable differences in results can occur due to varying factors. These may include any or all of the following:

Different climatic conditions existing in the different locations.

Different sampling equipment, sampling procedures and analytical techniques.
Interference from local emissions.

This summary is divided into four main sections, each covering a separate pollution index. Dustfall and sulphation rate have been combined in one section since these measurements are customarily taken together. Each sampling station is identified by a code which defines its location. The first digit of the code indicates the province, the second and third digits the city, while the fourth and fifth digits indicate the station locations within the city. A letter has been used to denote the class of station, i.e. Commercial (C), Residential (R) or Industrial (I). The ownership of the equipment is also noted as Municipal (M), Provincial (P) or Federal (F). A description of the methodology employed and a listing of the appropriate sampling locations will be found at the beginning of each section.

Note explicative

Les données contenues dans le présent sommaire mensuel ont été réunies par les organismes collaborateurs dans tout le Canada et acheminées au ministère fédéral de l'Environnement pour compilation. À compter de août 1971, le programme comportait 233 instruments d'échantillonnage dans 33 villes de huit provinces. Les mesures sont faites relativement à l'indice de souillure, l'anhydride sulfureux, les retombées de poussières, l'indice de formation de sulfate et les particules en suspension. Dans certains cas, les données peuvent ne pas représenter la contribution totale des organismes collaborateurs, étant donné que seules les stations représentatives ont été incluses.

En plus de coordonner le programme national de surveillance de la pollution atmosphérique, le gouvernement fédéral, dans un certain nombre d'endroits, fournit les appareils de surveillance à des stations d'échantillonnage dont le fonctionnement est assuré par un organisme collaborateur provincial. En d'autres endroits, les provinces fournissent les données de leurs propres appareils. La Division fédérale de la prévention de la pollution atmosphérique assure le fonctionnement de ses propres stations d'échantillonnage, à Ottawa, à Hull et à Windsor.

Le programme s'étend graduellement à d'autres villes: des stations supplémentaires sont intégrées et feront l'objet d'un compte-rendu à mesure qu'elles ouvriront. L'objectif est d'étendre éventuellement le réseau afin d'inclure d'autres indices de pollution et d'établir une corrélation avec les relevés météorologiques diffusés par le Service Météorologique du Canada. Les plans d'avenir prévoient une normalisation accure, un centre national de référence pour la méthodologie de l'échantillonnage et un service d'étallonnage pour faciliter l'inter-comparabilité des résultats obtenus par différents organismes.

Le lecteur voudra sans doute faire des comparaisons directes des niveaux de pollution des différentes villes. Sur ce point, il faudrait faire preuve d'une certaine prudence, étant donné que des différences

indéfinissable dans les résultats peuvent se produire en raison de facteurs variables. Ces différences peuvent comprendre aucun ou l'ensemble des éléments suivants:

Les différentes conditions climatiques des différents secteurs.
Une différence dans les appareils et les techniques d'échantillonnage et dans les techniques analytiques.
L'interférence des émissions locales.

Le présent sommaire est divisé en quatre sections principales, chacune couvrant un indice de pollution différent. Les taux de poussière atmosphérique et l'indice de formation de sulfate ont été réunis en une seule section, vu que ces mesures sont habituellement prises ensembles. Chaque station d'échantillonnage est indentifiée par un code qui définit son emplacement. Le premier chiffre du code indique la province, le deuxième et le troisième chiffre représentent la ville alors que le quatrième et le cinquième indiquent l'emplacement de la station dans la ville. Une lettre a été utilisée pour indiquer le classement de station, c'est-à-dire commerciale (C), résidentielle (R) ou industrielle (I). La propriété des appareils est aussi distinguée par (M) pour municipale, (P) pour provinciale et (F) pour fédérale. Une description de la méthode employée et une liste des endroits d'échantillonnage appropriés se trouvent au commencement de chaque section.

Soiling Index

The soiling index is an indication of the soiling or darkening potential of the pollutants in the atmosphere. A measured volume of air is continuously drawn through a circular area on a paper filter tape producing a stain or spot as a result of the deposited particulate matter. Samples are taken automatically for specified time periods, normally two hours. Light transmission measurements are carried out directly on the spot and the results recorded in terms of the "coefficient of haze" (COH). A COH unit has been defined as that quantity of particulate matter which produces an optical density of 0.01 with light at 400 mμ wavelength. The soiling index is expressed as the number of COH units per 1000 linear feet of air drawn through the filter.

Indice de souillure

L'indice de souillure est une indication du pouvoir salissant des polluants de l'atmosphère. Un volume d'air déterminé est aspiré à travers un ruban de papier filtre pendant une période habituellement de 2 heures et la poussière en suspension dans l'air se dépose sur le filtre produisant une tache circulaire. À toutes les 2 heures, le ruban avance de quelques pouces et une nouvelle tache est formée.

Ces taches sont ensuite évaluées avec un appareil qui mesure la quantité de lumière absorbée par la poussière et les résultats sont exprimés en unités COH (coefficient d'obscurité). Une unité COH a été définie comme étant la quantité de matières produisant une densité optique de 0.01 avec une lumière d'une longueur d'onde de 400 mμ. L'indice de souillure est le nombre d'unités COH par 1,000 pieds linéaires d'air aspiré à travers le filtre.

STATIONS MEASURING SOILING INDEX

STATICNS MESURANT L'INDICE DE SOUILLURE

30304	R,F	SYDNEY, CITY HOSPITAL
30306	R,F	SYDNEY, LINGAN ROAD
30403	R,F	GLACE BAY, PORT CALEDONIA
30406	I,F	GLACE BAY, PUMPING STATION ROAD
50101	R,P	MONTREAL, JARRY PARK
50102	R,P	MONTREAL, BOTANICAL GARDENS
50103	R,P	MONTREAL, POINTE AUX TREMBLES
50104	C,M	MONTREAL, 1125 ONTARIO
50105	C,M	MONTREAL, 1212 DRUMMOND
50106	R,P	MONTREAL, VILLE ST. LAURENT
50107	R,P	MONTREAL, VILLE LASALLE
50201	C,F	HULL, RUE PRINCIPALE
60101	C,F	OTTAWA, SLATER AND ELGIN
60102	R,F	OTTAWA, EXPERIMENTAL FARM
60103	C,F	OTTAWA, GILMOUR STREET
60401	C,P	TORONTO, 67 COLLEGE STREET
60402	R,P	TORONTO, DON MILLS, SCI. CENTRE
60403	I,P	TORONTO, EVANS/ARNOLD
60407	C,P	TORONTO, CITY HALL
60501	C,P	HAMILTON, BARTON AND WENTWORTH
60505	R,P	HAMILTON, NORTH PARK
60506	I,P	HAMILTON, WOODWARD-BRAMPTON
60602	R,P	SUDBURY, ASH STREET
60901	C,P	LONDON, KING-RECTORY

61001	C,P	SARNIA, 156 VICTORIA ST.
90113	C,P	EDMONTON, 100A AVE. AND 104 ST.
90115	I,P	EDMONTON, 147 ST. AND 116 AVE.
90118	R,P	EDMONTON, 73 AVE. & 95 ST.
90204	C,P	CALGARY, 7 AVE. AND 2 ST., S.E.
90216	R,P	CALGARY, GLENMORE DAM
90218	I,P	CALGARY, BONNYBROOK ROAD, S.E.

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 30304R NO. OF SAMP.	MAX	MEAN	STATION 30306R NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	12	2.1	0.9	12	3.0	1.5			
2	12	0.9	0.5	12	2.1	1.0			
3	12	1.2	0.5	12	2.0	1.0			
4	12	2.0	1.1	12	4.7	2.0			
5	12	1.4	0.9	12	3.0	1.8			
6	12	0.6	0.3	12	2.0	1.4			
7	12	1.0	0.5	12	1.9	1.4			
8	12	0.9	0.7	12	1.9	1.3			
9	12	1.9	0.9	12	2.3	1.2			
10	12	1.7	1.0	12	3.0	1.6			
11	12	2.4	1.0	12	4.7	1.9			
12	12	1.4	0.8	12	2.2	1.1			
13	12	1.1	0.7	12	1.9	0.8			
14	12	1.1	0.6	12	1.8	1.1			
15	12	2.3	1.2	12	2.4	1.4			
16	12	1.8	1.0	12	2.1	0.9			
17	12	0.8	0.5	12	1.4	0.9			
18	12	1.9	0.9	12	4.6	1.6			
19	12	5.2	2.1	12	7.3	3.3			
20	12	1.5	0.7	12	1.3	0.8			
21	12	1.8	1.0	12	2.4	1.5			
22	12	1.2	0.8	12	2.3	1.5			
23	12	1.1	0.6	12	2.2	1.0			
24	12	1.3	0.9	12	2.8	1.3			
25	12	4.3	1.3	12	5.1	1.9			
26	12	1.5	0.6	12	1.6	0.8			
27	12	0.9	0.5	12	2.3	1.1			
28	12	1.1	0.6	12	1.7	0.9			
29	12	1.3	0.9	12	3.7	1.6			
30	12	2.4	0.9	12	2.0	1.0			
31	12	1.0	0.5	12	1.8	1.1			

	STA 30304R	STA 30306R	STA
TOTAL NO. SAMPLES	372	372	
MAXIMUM FOR MONTH	5.2	7.3	
MONTHLY MEAN	0.8	1.4	

MONTH JANUARY 1971 LOCATION SYDNEY

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 30403R NO. OF SAMP.	MAX	MEAN	STATION 30406I NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	12	1.4	0.5	12	0.9	0.3			
2	12	0.3	0.1	12	1.5	0.3			
3	12	0.5	0.3	12	0.8	0.2			
4	12	1.4	0.3	12	1.9	0.6			
5	12	1.3	0.4	12	1.6	0.6			
6	12	1.1	0.3	12	0.6	0.2			
7	12	0.5	0.3	12	0.5	0.3			
8	12	0.7	0.3	12	0.5	0.3			
9	12	0.8	0.3	12	0.5	0.2			
10	12	1.1	0.4	12	0.7	0.4			
11	12	1.3	0.6	12	0.5	0.2			
12	12	0.7	0.3	12	0.5	0.2			
13	12	0.6	0.3	12	0.5	0.2			
14	12	1.6	0.4	12	0.6	0.2			
15	12	1.3	0.9	12	0.6	0.4			
16	12	0.9	0.2	12	1.4	0.6			
17	12	0.5	0.3	12	0.3	0.1			
18	12	1.0	0.6	12	0.7	0.3			
19	12	1.5	0.6	12	1.4	0.4			
20	12	0.3	0.1	12	1.1	0.4			
21	12	1.2	0.3	12	0.6	0.4			
22	12	0.7	0.4	12	0.6	0.3			
23	12	1.7	0.4	12	0.4	0.2			
24	12	1.6	0.4	12	1.0	0.3			
25	12	1.4	0.5	12	0.9	0.4			
26	12	1.1	0.6	12	0.6	0.2			
27	12	1.1	0.5	12	0.5	0.2			
28	12	0.9	0.4	12	0.3	0.1			
29	12	1.5	0.7	12	0.5	0.2			
30	12	0.8	0.4	12	0.6	0.3			
31	12	0.8	0.3	12	0.5	0.2			

	STA 30403R	STA 30406I	STA
TOTAL NO. SAMPLES	372	372	
MAXIMUM FOR MONTH	1.7	1.9	
MONTHLY MEAN	0.4	0.3	

MONTH JANUARY 1971 LOCATION GLACE BAY

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

	STATION 50101R			STATION 50102R			STATION 50103R		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	2.1	1.3	12	1.8	1.4	12	1.0	0.5
2	12	1.8	1.1	12	1.5	1.0	12	0.8	0.5
3	12	1.2	0.7	12	2.1	1.1	12	0.7	0.3
4	12	2.0	1.0	12	1.7	0.8	12	1.4	0.5
5	12	0.8	0.5	12	0.8	0.6	12	0.5	0.3
6	12	1.1	0.7	12	1.0	0.8	12	0.3	0.1
7	12	1.0	0.6	12	1.0	0.7	12	0.3	0.1
8	12	2.0	1.1	12	1.4	0.9	12	1.0	0.3
9	12	1.5	1.0	12	1.0	0.7	12	1.0	0.6
10	12	1.4	0.9	12	1.0	0.6	12	0.8	0.6
11	12	1.4	0.9	12	1.5	1.1	12	1.2	0.9
12	12	0.8	0.6	12	1.3	0.8	12	0.5	0.3
13	12	1.0	0.6	12	1.9	1.0	12	0.8	0.4
14	12	1.3	0.9	12	1.5	0.8	12	0.3	0.2
15	12	2.0	0.9	12	1.7	1.0	12	1.4	0.4
16	12	0.8	0.4	12	0.9	0.8	12	0.7	0.3
17	12	0.8	0.4	12	0.9	0.7	12	0.3	0.2
18	12	1.5	0.9	12	1.7	0.9	12	0.7	0.4
19	8	0.6	0.5	12	0.8	0.6	12	0.5	0.3
20	6	2.4	1.8	12	1.5	1.0	12	1.4	0.7
21	12	1.7	1.4	12	1.5	1.1	12	0.8	0.5
22	12	1.7	1.1	12	1.8	0.9	12	0.8	0.4
23	12	1.8	1.3	12	1.7	1.0	12	0.7	0.3
24	12	1.3	0.8	12	1.2	0.7	12	0.7	0.3
25	12	2.9	1.6	12	1.8	1.4	12	1.2	0.6
26	12	1.8	1.2	12	0.8	0.6	12	0.5	0.3
27	12	1.8	1.3	12	0.7	0.5	12	0.5	0.1
28	12	1.2	0.7	12	1.0	0.6	12	1.2	0.4
29	12	2.0	1.4	12	1.5	1.1	12	1.0	0.7
30	12	2.1	1.2	12	1.0	0.7	12	0.5	0.3
31	12	1.8	0.9	12	0.9	0.6	12	0.7	0.3

	STA 50101R	STA 50102R	STA 50103R
TOTAL NO. SAMPLES	362	372	372
MAXIMUM FOR MONTH	2.9	2.1	1.4
MONTHLY MEAN	0.9	0.8	0.4

MONTH JANUARY 1971 LOCATION MONTREAL

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 50104C NO. OF SAMP.	MAX	MEAN	STATION 50105C NO. OF SAMP.	MAX	MEAN	STATION 50106R NO. OF SAMP.	MAX	MEAN
1		2.2	1.5		1.4	0.9	12	2.7	1.5
2		1.7	1.2		1.1	0.6	12	1.5	1.0
3		1.6	1.1		1.6	0.8	12	1.2	0.7
4		2.3	1.4		1.1	0.5	12	1.8	0.9
5		1.1	0.6		0.6	0.4	12	1.0	0.6
6		1.7	1.3		1.4	0.7	12	0.8	0.5
7		1.5	0.9		1.0	0.6	12	0.8	0.5
8		1.5	1.1		1.9	1.1	12	1.6	0.9
9		1.9	1.4		1.7	1.2	12	2.0	1.3
10		3.2	1.5		0.0	0.0	12	1.2	0.8
11		1.7	1.3		3.5	2.4	12	1.4	0.9
12		1.5	0.7		3.5	1.8	12	1.2	0.6
13		1.5	1.0		1.9	1.4	12	1.7	0.8
14		2.0	1.3		1.3	0.9	12	1.0	0.5
15		2.1	1.4		2.6	2.3	12	1.5	0.9
16		3.9	2.0		2.8	2.0	12	0.9	0.5
17		4.1	2.8		6.8	3.8	12	0.5	0.4
18		4.1	2.1		3.3	2.3	12	1.0	0.6
19		2.1	1.3		6.7	3.1	12	0.8	0.5
20		2.3	1.6		4.1	2.4	12	2.5	1.3
21		2.2	1.2		1.4	1.1	12	1.5	1.0
22		1.9	1.1		3.0	2.2	12	1.5	1.0
23		1.3	0.9		2.3	1.2	12	2.0	1.2
24		1.7	0.8		2.3	1.1	12	1.5	0.6
25		1.9	1.3		4.3	1.7	12	2.2	1.3
26		1.9	1.1		3.3	1.5	12	1.0	0.7
27		0.9	0.6		2.9	1.8	12	0.7	0.4
28		1.3	0.8		3.5	2.1	12	0.9	0.5
29		1.8	1.1		1.9	1.4	12	1.7	0.9
30		1.0	0.8		4.0	2.2	12	0.8	0.5
31		1.3	0.8		3.7	1.8	12	1.0	0.5

	STA 50104C	STA 50105C	STA 50106R
TOTAL NO. SAMPLES			372
MAXIMUM FOR MONTH	4.1	6.8	2.7
MONTHLY MEAN			0.8

MONTH JANUARY 1971 LOCATION MONTREAL

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 50107R NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1									
2									
3									
4									
5	5	1.0	0.2						
6	12	1.4	0.8						
7	12	1.0	0.7						
8	12	2.2	1.1						
9	12	1.8	1.0						
10	12	1.5	0.8						
11	12	1.2	0.7						
12	12	1.4	0.6						
13	12	2.1	1.2						
14	12	1.0	0.6						
15	12	1.2	0.7						
16	12	1.4	0.8						
17	12	1.6	0.9						
18	12	1.1	0.7						
19	12	1.0	0.5						
20	12	1.2	0.7						
21	12	2.0	1.1						
22	12	0.8	0.6						
23	12	1.2	0.9						
24	12	1.0	0.6						
25	12	2.2	1.1						
26	12	1.4	0.7						
27	12	1.0	0.7						
28	12	1.2	0.7						
29	12	1.5	0.6						
30	12	1.0	0.6						
31	12	1.5	0.7						

	STA 50107R	STA	STA
TOTAL NO. SAMPLES	317		
MAXIMUM FOR MONTH	2.2		
MONTHLY MEAN	0.8		

MONTH JANUARY 1971 LOCATION MONTREAL

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 50201C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	12	0.7	0.3						
2	12	0.8	0.5						
3	12	1.0	0.3						
4	12	0.8	0.4						
5	12	0.7	0.1						
6	12	0.3	0.1						
7	12	0.3	0.1						
8	12	0.8	0.3						
9	12	1.3	0.7						
10	12	1.9	0.7						
11	12	0.8	0.5						
12	12	0.3	0.1						
13	6	0.7	0.3						
14									
15	7	0.5	0.3						
16	12	1.2	0.4						
17	12	1.0	0.3						
18	12	0.5	0.3						
19	12	0.9	0.4						
20	12	1.4	0.5						
21	12	2.3	0.9						
22	12	1.1	0.3						
23	12	0.8	0.3						
24	12	0.5	0.2						
25	12	1.7	0.7						
26	12	1.0	0.4						
27	12	0.8	0.3						
28	12	0.6	0.3						
29	12	1.2	0.7						
30	12	0.3	0.2						
31	12	0.7	0.3						

	STA 50201C	STA	STA
TOTAL NO. SAMPLES	349		
MAXIMUM FOR MONTH	2.3		
MONTHLY MEAN	0.4		

MONTH JANUARY 1971 LOCATION HULL

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 60101C			STATION 60102R			STATION 60103C		
	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	1.1	0.4	12	0.4	0.1	12	1.0	0.5
2	12	1.8	0.9	12	0.4	0.1	11	1.7	0.7
3	12	0.6	0.4	12	1.2	0.3	12	1.1	0.3
4	12	0.3	0.1	12	0.4	0.1	12	1.3	0.5
5	12	0.5	0.2	12	0.3	0.1	12	0.6	0.3
6	12	0.8	0.3	12	0.2	0.1	12	1.5	0.5
7	12	0.4	0.1	12	0.2	0.0	12	0.5	0.2
8	12	0.8	0.3	12	0.1	0.0	12	1.5	0.5
9	12	0.6	0.2	2	0.0	0.0	12	1.1	0.5
10	12	0.8	0.3				12	1.7	0.5
11	12	0.9	0.3				12	1.8	0.8
12	12	0.7	0.2				12	0.8	0.4
13	12	1.1	0.4				12	0.6	0.4
14	12	0.8	0.4				12	0.6	0.3
15	12	1.0	0.5				12	0.8	0.4
16	12	1.1	0.6				12	1.3	0.3
17	12	5.6	2.1				12	1.7	0.5
18	12	1.8	0.8				12	1.1	0.5
19	12	1.2	0.6	12	0.2	0.0	12	1.4	0.5
20	12	1.1	0.4	12	0.3	0.1	12	1.3	0.4
21	12	0.8	0.5	12	0.1	0.0	12	1.3	0.7
22	12	1.0	0.4	12	0.2	0.1	12	1.1	0.4
23	12	0.8	0.3	12	0.1	0.0	12	1.4	0.6
24	12	0.7	0.3	12	0.3	0.1	12	1.4	0.4
25	12	1.3	0.5	12	0.3	0.1	12	1.3	0.5
26	12	0.4	0.2	12	0.0	0.0	12	1.7	0.8
27	12	0.6	0.3	12	0.2	0.0	12	0.8	0.2
28	12	0.6	0.3	12	0.7	0.3	12	0.8	0.2
29	12	1.0	0.5	12	0.3	0.1	12	1.8	1.1
30	12	0.6	0.3	12	0.2	0.1	12	0.6	0.2
31	12	0.5	0.2	12	0.1	0.1	12	1.1	0.4

	STA 60101C	STA 60102R	STA 60103C
TOTAL NO. SAMPLES	372	254	371
MAXIMUM FOR MONTH	5.6	1.2	1.8
MONTHLY MEAN	0.4	0.1	0.5

MONTH JANUARY 1971 LOCATION OTTAWA

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

	STATION 60401C			STATION 60402R			STATION 60403I		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	24	1.7	0.8	12	2.6	0.6	12	2.3	0.8
2	24	2.3	1.0	12	1.7	0.8	12	1.7	0.8
3	24	1.2	0.5	12	0.6	0.3	12	0.5	0.3
4	24	1.7	0.8	12	1.1	0.4	12	0.6	0.3
5	24	1.2	0.5	12	0.6	0.4	12	0.6	0.3
6	24	0.9	0.7	12	0.8	0.5	11	1.1	0.5
7	24	1.2	0.7	12	0.9	0.5	6	0.5	0.4
8	24	1.9	1.1	12	1.0	0.5	12	1.3	0.7
9	24	1.7	0.9	12	1.0	0.4	12	0.9	0.5
10	24	1.9	1.0	12	1.2	0.6	12	1.3	0.6
11	24	1.5	0.9	11	1.2	0.5	12	1.3	0.6
12	24	1.3	0.7	12	0.7	0.3	12	1.0	0.4
13	24	1.3	0.7	12	0.7	0.3	12	0.9	0.5
14	24	1.8	1.0	12	0.9	0.4	12	0.9	0.5
15	24	0.8	0.6	12	0.5	0.2	12	0.7	0.3
16	24	1.3	0.8	12	1.1	0.5	12	0.8	0.4
17	24	1.4	0.8	12	1.1	0.6	12	0.7	0.3
18	24	1.0	0.7	10	0.7	0.3	12	0.9	0.3
19	24	1.1	0.6	12	0.4	0.2	12	0.7	0.3
20	24	1.6	0.7	12	0.7	0.3	12	0.8	0.4
21	24	1.5	1.0	12	0.7	0.4	12	0.8	0.4
22	24	1.9	1.1	12	1.1	0.6	12	0.5	0.3
23	24	1.4	0.7	12	1.1	0.4	12	1.1	0.3
24	24	2.2	0.9	12	0.9	0.5	12	0.7	0.4
25	24	1.7	1.3	12	1.1	0.7	12	1.0	0.6
26	24	1.6	0.8	12	0.9	0.4	12	0.7	0.3
27	24	1.1	0.5	12	1.0	0.3	12	0.7	0.3
28	24	1.3	0.6	12	0.7	0.4	12	0.5	0.3
29	24	1.1	0.7	12	0.9	0.5	12	0.9	0.4
30	24	1.0	0.6	12	0.9	0.3	12	0.7	0.2
31	24	0.8	0.6	12	1.1	0.6	12	0.5	0.3

	STA 60401C	STA 60402R	STA 60403I
TOTAL NO. SAMPLES	744	369	365
MAXIMUM FOR MONTH	2.3	2.6	2.3
MONTHLY MEAN	0.8	0.4	0.4

MONTH JANUARY 1971 LOCATION TORONTO

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 60407C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	12	0.5	0.3						
2	12	0.9	0.4						
3	12	0.5	0.2						
4	12	0.7	0.4						
5	12	0.5	0.2						
6	12	0.7	0.2						
7	12	0.6	0.3						
8	11	1.2	0.5						
9	12	1.3	0.6						
10	12	1.2	0.7						
11	12	1.1	0.6						
12	12	0.7	0.4						
13	12	0.6	0.4						
14	12	1.1	0.5						
15	10	0.5	0.3						
16	12	1.3	0.5						
17	12	1.0	0.5						
18	12	0.9	0.4						
19	12	0.7	0.4						
20	12	0.9	0.5						
21	10	0.7	0.5						
22	12	0.9	0.5						
23	12	1.1	0.5						
24	12	0.7	0.5						
25	12	1.3	0.6						
26	12	1.3	0.5						
27	12	0.6	0.2						
28	6	0.8	0.4						
29	12	0.6	0.4						
30	12	0.7	0.3						
31	12	0.4	0.3						

	STA 60407C	STA	STA
TOTAL NO. SAMPLES	361		
MAXIMUM FOR MONTH	1.3		
MONTHLY MEAN	0.4		

MONTH JANUARY 1971 LOCATION TORONTO

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 60501C			STATION 60505R			STATION 60506I		
	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	24	1.0	0.4	12	0.5	0.2	12	0.7	0.3
2	24	1.0	0.5	12	0.6	0.1	12	0.7	0.3
3	24	0.6	0.3	12	0.2	0.1	12	0.5	0.2
4	24	1.9	0.5	12	2.0	0.5	12	1.1	0.4
5	24	0.5	0.3	12	1.6	1.1	12	0.7	0.4
6	24	0.5	0.3	12	1.8	1.1	12	0.7	0.4
7	24	0.5	0.4	12	1.7	1.1	12	0.8	0.4
8	24	2.1	0.7	12	2.2	1.1	12	1.5	0.7
9	24	1.6	0.6	12	1.3	0.9	12	1.4	0.6
10	24	1.6	0.5	12	1.2	0.8	12	1.1	0.5
11	24	1.1	0.6	12	2.1	1.2	12	1.1	0.6
12	24	1.6	0.5	12	1.6	0.7	12	0.7	0.3
13	24	1.2	0.6	12	0.4	0.2	12	0.9	0.3
14	24	1.1	0.6	12	1.4	0.7	12	1.1	0.5
15	24	1.1	0.5	12	1.2	0.5	12	0.7	0.4
16	24	1.5	0.5	12	0.8	0.4	12	0.6	0.3
17	24	1.8	0.7	12	1.1	0.5	12	0.7	0.3
18	24	1.2	0.4	12	1.5	0.6	12	0.8	0.2
19	24	1.6	0.5	12	1.7	0.8	12	0.8	0.3
20	24	1.7	0.7	12	1.6	1.2	12	0.7	0.3
21	24	0.6	0.5	12	1.9	1.2	12	0.7	0.3
22	24	1.1	0.6	12	1.5	1.1	12	0.9	0.5
23	24	1.5	0.5	12	1.3	0.8	12	0.9	0.3
24	24	0.8	0.6	12	1.5	0.8	12	1.1	0.4
25	24	1.3	0.8	12	2.3	1.2	12	1.5	0.8
26	24	1.8	0.6	12	1.5	0.8	12	1.2	0.4
27	24	1.0	0.4	12	1.3	0.6	12	1.1	0.5
28	24	0.8	0.5	12	1.7	1.1	12	1.1	0.3
29	24	1.1	0.5	12	1.5	0.9	12	0.5	0.2
30	24	0.9	0.5	12	1.2	0.8	12	0.2	0.1
31	24	0.7	0.5	12	1.3	0.6	12	0.4	0.2

	STA 60501C	STA 60505R	STA 60506I
TOTAL NO. SAMPLES	744	372	372
MAXIMUM FOR MONTH	2.1	2.3	1.5
MONTHLY MEAN	0.5	0.8	0.4

MONTH JANUARY 1971 LOCATION HAMILTON

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 60602R NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12	10	0.4	0.4						
13	17	0.7	0.4						
14	24	1.2	0.2						
15	22	0.2	0.1						
16	24	0.2	0.1						
17	24	0.2	0.1						
18	24	0.1	0.1						
19	24	0.1	0.0						
20	20	0.4	0.1						
21	19	2.2	0.6						
22	24	0.4	0.2						
23	24	0.5	0.2						
24	24	0.6	0.2						
25	24	0.3	0.1						
26	24	0.2	0.1						
27	21	0.8	0.1						
28	12	0.6	0.3						
29	24	0.7	0.2						
30	24	0.4	0.1						
31	24	0.6	0.3						

	STA 60602R	STA	STA
TOTAL NO. SAMPLES	433		
MAXIMUM FOR MONTH	2.2		
MONTHLY MEAN	0.2		

MONTH JANUARY 1971 LOCATION SUDBURY

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 60901C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	12	0.6	0.3						
2	12	0.4	0.2						
3	12	0.3	0.1						
4	12	0.6	0.3						
5	12	0.5	0.3						
6	12	0.5	0.3						
7	12	0.6	0.4						
8	12	0.6	0.4						
9	12	0.8	0.5						
10	12	0.7	0.4						
11	12	0.7	0.3						
12	12	0.4	0.2						
13	12	0.9	0.3						
14	12	0.7	0.3						
15	11	0.3	0.2						
16	12	1.0	0.4						
17	12	0.6	0.4						
18	12	0.5	0.4						
19	12	0.6	0.2						
20	12	0.7	0.2						
21	12	0.5	0.2						
22	12	0.8	0.3						
23	12	1.2	0.4						
24	12	0.7	0.5						
25	12	0.9	0.5						
26	12	0.7	0.1						
27	12	0.2	0.0						
28	12	0.3	0.1						
29	12	0.5	0.3						
30	12	0.8	0.4						
31	12	0.5	0.3						

	STA 60901C	STA	STA
TOTAL NO. SAMPLES	371		
MAXIMUM FOR MONTH	1.2		
MONTHLY MEAN	0.3		

MONTH JANUARY 1971 LOCATION LONDON

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 61001C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1									
2									
3									
4									
5									
6	3	0.5	0.4						
7	12	0.9	0.5						
8	12	1.1	0.9						
9	12	1.7	0.7						
10	12	1.5	0.7						
11	12	1.1	0.7						
12	12	0.4	0.2						
13	12	0.5	0.3						
14	12	1.2	0.6						
15	12	0.9	0.4						
16	12	0.5	0.3						
17	12	0.7	0.3						
18	11	1.3	0.5						
19	12	0.6	0.4						
20	12	1.1	0.4						
21	12	0.9	0.4						
22	12	1.2	0.6						
23	12	1.5	0.6						
24	12	1.0	0.5						
25	11	1.5	0.7						
26	12	0.5	0.2						
27	12	0.5	0.2						
28	12	0.8	0.4						
29	12	0.7	0.4						
30	12	0.6	0.3						
31	12	0.5	0.3						

	STA 61001C	STA	STA
TOTAL NO. SAMPLES	301		
MAXIMUM FOR MONTH	1.7		
MONTHLY MEAN	0.5		

MONTH JANUARY 1971 LOCATION SARNIA

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 90113C			STATION 90115I			STATION 90118R		
	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	0.3	0.1	12	0.5	0.1	12	0.5	0.1
2	12	0.7	0.4	12	0.5	0.2	12	0.4	0.2
3	12	1.0	0.2	12	0.8	0.2	12	0.5	0.1
4	12	2.5	1.1	12	0.8	0.4	12	1.0	0.4
5	12	1.5	0.5	12	1.3	0.6	12	0.8	0.3
6	12	0.6	0.2	12	0.3	0.2	12	0.8	0.2
7	12	1.4	0.6	12	0.8	0.4	12	0.5	0.2
8	12	0.5	0.2	12	0.6	0.1	12	0.3	0.1
9	12	0.8	0.3	12	0.3	0.1	12	0.3	0.1
10	12	1.2	0.3	12	0.3	0.1	12	0.3	0.1
11	12	1.5	0.8	12	0.8	0.4	12	0.9	0.4
12	12	1.4	0.5	4	0.3	0.2	12	0.3	0.1
13	12	0.8	0.4				12	0.4	0.2
14	12	2.1	0.7				12	0.8	0.4
15	12	1.6	0.7	6	1.0	0.7	12	0.3	0.1
16	12	0.9	0.4	12	2.0	0.8	12	0.4	0.2
17	12	0.5	0.3	12	0.8	0.4	12	0.4	0.1
18	12	1.5	0.6	12	0.7	0.3	12	0.6	0.2
19	12	0.5	0.2	12	3.0	1.2	12	0.4	0.2
20	12	0.9	0.2	12	1.2	0.6	12	0.4	0.2
21	12	0.6	0.2	12	1.9	0.6	12	0.3	0.1
22	12	0.9	0.4	12	1.8	0.7	12	1.1	0.3
23	12	0.8	0.5	12	3.4	0.7	12	0.8	0.3
24	12	0.3	0.2	12	0.7	0.3	12	0.5	0.2
25	12	0.8	0.4	12	1.4	0.4	12	0.5	0.3
26	12	0.7	0.3	12	1.6	0.5	12	0.5	0.1
27	12	1.2	0.4	12	0.8	0.3	12	0.5	0.2
28	12	0.8	0.3	12	0.7	0.2	12	0.6	0.2
29	12	0.6	0.2	12	0.7	0.3	12	0.6	0.2
30	12	0.7	0.3	12	1.8	0.4	12	0.6	0.3
31	12	0.5	0.3	12	0.8	0.2	12	0.5	0.2

	STA 90113C	STA 90115I	STA 90118R
TOTAL NO. SAMPLES	372	334	372
MAXIMUM FOR MONTH	2.5	3.4	1.1
MONTHLY MEAN	0.4	0.4	0.2

MONTH JANUARY 1971 LOCATION EDMONTON

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

	STATION 90204C			STATION 90216R			STATION 90218I		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	0.8	0.3	12	0.3	0.1	12	0.7	0.3
2	12	0.5	0.2	12	0.4	0.1	12	0.6	0.2
3	12	0.4	0.2	12	0.3	0.1	12	0.8	0.2
4	12	1.9	0.6	12	0.5	0.2	12	1.6	0.5
5	12	0.8	0.4	12	0.3	0.1	12	1.0	0.4
6	12	0.8	0.4	12	0.8	0.1	12	0.7	0.3
7	12	1.7	0.6	12	0.3	0.1	12	0.7	0.2
8	12	0.8	0.3	12	0.6	0.2	12	0.8	0.4
9	12	0.5	0.2	12	0.4	0.1	12	0.6	0.3
10	12	0.7	0.2	12	0.3	0.1	12	0.9	0.4
11	12	0.8	0.4	12	0.3	0.0	12	0.8	0.4
12	12	0.6	0.3				12	0.7	0.2
13	12	0.9	0.2				12	0.8	0.4
14	12	0.9	0.6				12	0.5	0.3
15	12	1.1	0.5				12	1.0	0.4
16	12	0.5	0.2				12	6.6	1.6
17	12	0.9	0.5				6	1.1	0.7
18	12	3.4	1.2						
19	12	0.6	0.2						
20	12	0.5	0.2						
21	12	1.1	0.6	5	0.8	0.4			
22	12	0.9	0.4	12	0.4	0.1	5	0.3	0.2
23	12	0.5	0.3	12	0.4	0.2	12	0.5	0.1
24	12	0.8	0.4	12	0.5	0.2	12	0.3	0.1
25	12	1.0	0.5	12	0.7	0.3	12	0.8	0.3
26	12	2.4	0.7	12	1.4	0.3	12	0.6	0.3
27	12	1.6	0.5	12	0.7	0.3	12	1.2	0.5
28	12	0.7	0.2	12	1.0	0.2	12	1.1	0.3
29	12	0.8	0.2	12	0.4	0.1	12	0.6	0.2
30	12	0.7	0.4	12	0.4	0.1	12	0.5	0.2
31	12	0.3	0.1	12	0.5	0.2	12	0.3	0.1

	STA 90204C	STA 90216R	STA 90218I
TOTAL NO. SAMPLES	372	257	311
MAXIMUM FOR MONTH	3.4	1.4	6.6
MONTHLY MEAN	0.4	0.2	0.3

MONTH JANUARY 1971 LOCATION CALGARY

Suspended Particulates

A high volume sampler is used to determine the concentration of suspended particulates in the air. The sampler is operated continuously for a 24 hour period at a flow rate of approximately 50 cubic feet per minute. This large volume of air is drawn through a preweighed glass fibre filter. The filter is removed and weighed to determine the amount of the suspended particulates deposited. In most cases, the filters are subsequently analyzed by atomic absorption to determine the lead content of the particulates. The units of measurement are micrograms per cubic meter of air.

Particules en suspension

Un échantillonneur à grand débit est utilisé pour déterminer la concentration de particules en suspension dans l'atmosphère. L'air est aspiré à un débit d'environ 50 pieds cubes par minute à travers un filtre de fibre de verre qui capte les particules en suspension. Après une periode de 24 heures, le filtre, qui avait été pesé avant son utilisation, est enlevé et pesé à nouveau afin de déterminer la quantité de particules recueillies.

Dans la plupart des cas, les filtres sont ensuite analysés par la méthode d'absorption atomique pour déterminer la teneur en plomb de ces particules. Les résultats sont exprimés en microgrammes par mètre cube d'air.

STATIONS MEASURING SUSPENDED PARTICULATES

STATIONS MESURANT LES PARTICULES EN SUSPENSION

30101	C,F	HALIFAX, N.S. TECHNICAL COLLEGE
40101	C,F	FREDERICTON, WOODSTOCK ROAD
40201	C,F	SAINT JOHN, 110 CHARLOTTE ST.
40301	C,F	MONCTON, POST OFFICE
50201	C,F	HULL, RUE PRINCIPALE
50202	R,F	HULL, LANGUAGE CENTRE
60101	C,F	OTTAWA, SLATER AND ELGIN
60201	I,F	WINDSOR, MORTON TERMINAL DOCK
60202	C,F	WINDSOR, CITY HALL
60203	R,F	WINDSOR-TECUMSEH WATER WORKS
60301	R,F	KINGSTON, QUEEN'S UNIVERSITY
60401	C,P	TORONTO, 67 COLLEGE STREET
60402	R,P	TORONTO, DON MILLS, SCI. CENTRE
60403	I,P	TORONTO, ETOBICOKE, EVANS-ARNOLD
60501	C,P	HAMILTON, BARTON AND WENTWORTH
60503	R,P	HAMILTON, CHATHAM-FRID
60505	R,P	HAMILTON, NORTH PARK
60601	C,P	SUDBURY,50 CEDAR STREET
60602	R,P	SUDBURY, ASH STREET
60701	C,P	SAULT STE. MARIE, PROV. ONT. BLDG.
60801	C,P	THUNDER BAY, 14 ALGOMA STREET
60901	C,P	LONDON, KING-RECTORY
60902	C,P	LONDON, 372 DUNDAS
61001	C,P	SARNIA, 156 VICTORIA ST.

61101	C,P	PETERBOROUGH, FIRE HALL
70101	C,F	WINNIPEG, BROADWAY AT KENNEDY
70102	R,F	WINNIPEG, PORTAGE AT WOODLAWN
70103	R,F	WINNIPEG, HARTFORD AT AIKENS
70104	I,F	WINNIPEG, UNION STOCK YARDS
80101	C,F	REGINA, 1955 SMITH STREET
80102	R,F	REGINA, 3211 ALBERT STREET
80202	C,F	SASKATOON, CITY LIBRARY
80203	R,F	SASKATOON, MOUNT ROYAL LODGE
90101	C,F	EDMONTON, 98TH AND JASPER
90102	I,F	EDMONTON, 46TH ST. AND 104TH AVE.
90103	R,F	EDMONTON, 146TH ST. AND 92ND AVE.
90201	I,F	CALGARY, 6411 20TH ST., S.E.
90203	R,F	CALGARY, 407 31 AVE., N.W.
90204	C,F	CALGARY, 7TH AVE. AND 2ND ST., S.E.
90301	C,F	RED DEER, 4720 49TH STREET
90401	C,F	MEDICINE HAT, 770 FIRST ST. S.E.
90501	C,F	LETHBRIDGE, 13 ST. AND 9 AVE. S.
00101	I,F	VANCOUVER, VANCOUVER PILE DRIVING
00102	R,F	VANCOUVER, 100 RICHMOND ST.
00104	R,F	VANCOUVER, 27TH & ONTARIO
00105	I,F	VANCOUVER, 739 W. HASTINGS
00201	C,F	PRINCE GEORGE, POST OFFICE
00301	C,F	VICTORIA, POLICE STN. (HERALD ST.)

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

	STATION					
DATE	30101C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	31	0.3				
NO. SAMPLES	1	1				
MEAN						
MAX.						

MONTH JANUARY 1971 LOCATION HALIFAX

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 40101C T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	29	0.2				
6	37	0.2				
11	42	0.1				
23	46	0.6				
30	57	0.4				
NO. SAMPLES	5	5				
MEAN	42	0.3				
MAX.	57	0.6				

MONTH JANUARY 1971 LOCATION FREDERICTON

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 40201C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	35	0.3				
6	53	0.4				
11	48	0.7				
23	65	0.8				
30						
NO. SAMPLES	4	4				
MEAN	50	0.6				
MAX.	65	0.8				

MONTH JANUARY 1971 LOCATION SAINT JOHN

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

	STATION					
DATE	40301C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
23	204	0.5				
30	48	0.5				
NO. SAMPLES	2	2				
MEAN	126	0.5				
MAX.	204	0.5				

MONTH JANUARY 1971 LOCATION MONCTON

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 50201C T.P.	LEAD	50202R T.P.	LEAD	T.P.	LEAD
1	80	1.2	52	0.4		
6	46	1.1	47	0.2		
11			58	0.9		
23	33	1.0	66	0.6		
30	35	0.6	39	0.3		
NO. SAMPLES	4	4	5	5		
MEAN	49	1.0	52	0.5		
MAX.	80	1.2	66	0.9		

MONTH JANUARY 1971 LOCATION HULL

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

	STATION					
DATE	60101C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	144	0.7				
6	66	1.3				
11	105	2.6				
23	58	1.2				
30	77	0.7				
NO. SAMPLES	5	5				
MEAN	90	1.3				
MAX.	144	2.6				

MONTH JANUARY 1971 LOCATION OTTAWA

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 60201I		STATION 60202C		STATION 60203R	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	161	1.6	158	1.6		
6	88	0.3	213	1.5		
11	154	0.9	192	1.7	109	0.9
23	109	0.5	207	1.0		
30	163	0.3	94	0.7	120	0.4
NO. SAMPLES	5	5	5	5	2	2
MEAN	135	0.7	173	1.3	115	0.6
MAX.	163	1.6	213	1.7	120	0.9

MONTH JANUARY 1971 LOCATION WINDSOR

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 60301R T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1						
6	53	0.3				
11	37	0.6				
23	40	0.3				
30	39	0.3				
NO. SAMPLES	4	4				
MEAN	42	0.4				
MAX.	53	0.6				

MONTH JANUARY 1971 LOCATION KINGSTON

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 60401C		60402R		60403I	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
4	87					
5			116			
10	102				131	
11			68			
16	73				121	
17			63			
22	95				79	
23			42			
28					90	
NO. SAMPLES	4		4		4	
MEAN	89		72		105	
MAX.	102		116		131	

MONTH JANUARY 1971 LOCATION TORONTO

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 60501C		60503R		60505R	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
8	179		236		231	
16	74		78		116	
24	122		89		235	
NO. SAMPLES	3		3		3	
MEAN	125		134		194	
MAX.	179		236		235	

MONTH JANUARY 1971 LOCATION HAMILTON

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 60601C		60602R			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
8	84					
16	50		7			
22			26			
28			72			
NO. SAMPLES	2		3			
MEAN	67		35			
MAX.	84		72			

MONTH JANUARY 1971 LOCATION SUDBURY

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 60701C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
8						
16						
24	57					

NO. SAMPLES 1

MEAN

MAX.

MONTH JANUARY 1971 LOCATION SAULT STE. MARIE

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 60801C T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
8	45					
16	13					
24	42					

NO. SAMPLES	3
MEAN	33
MAX.	45

MONTH JANUARY 1971 LOCATION THUNDER BAY

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 60901C		STATION 60902C			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
8	185		180			
16	30		30			
24			42			
NO. SAMPLES	2		3			
MEAN	108		84			
MAX.	185		180			

MONTH JANUARY 1971 LOCATION LONDON

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 61001C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
4	64					
10	108					
19	115					
25	197					

NO. SAMPLES	4
MEAN	121
MAX.	197

MONTH JANUARY 1971 LOCATION SARNIA

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

	STATION					
DATE	61101C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1						
9	23					
17	22					
25	63					

NO. SAMPLES	3
MEAN	36
MAX.	63

MONTH JANUARY 1971 LOCATION PETERBOROUGH

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 70101C		70102R		70103R	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	56	1.4	39	0.3	58	0.3
6	35	1.9	52	1.1	32	3.6
11	80	1.9	78	1.4	37	1.7
23	66	1.4	32	0.6	30	2.2
30	152	1.5	33	0.2	33	0.3
NO. SAMPLES	5	5	5	5	5	5
MEAN	78	1.6	47	0.7	38	1.6
MAX.	152	1.9	78	1.4	58	3.6

MONTH JANUARY 1971 LOCATION WINNIPEG

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

	STATION					
DATE	701041					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	62	0.3				
6	77	1.6				
11	65	1.3				
23	71	0.9				
30	69	1.0				
NO. SAMPLES	5	5				
MEAN	69	1.1				
MAX.	77	1.6				

MONTH JANUARY 1971 LOCATION WINNIPEG

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 80101C		STATION 80102R			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	38	0.5	21	0.2		
6	16	0.4	45	0.3		
11	52	1.0	24	0.1		
23	38	1.0	32	0.6		
30			36	0.2		
NO. SAMPLES	4	4	5	5		
MEAN	36	0.7	32	0.3		
MAX.	52	1.0	45	0.6		

MONTH JANUARY 1971 LOCATION REGINA

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 80202C		STATION 80203R			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	21		17	0.2		
6	17	1.0	66	0.5		
11	52	0.9	24	0.1		
23	61	0.9	54	0.5		
30	56	0.8	75	0.1		
NO. SAMPLES	5	4	5	5		
MEAN	42	0.9	47	0.3		
MAX.	61	1.0	75	0.5		

MONTH JANUARY 1971 LOCATION SASKATOON

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 90101C		90102I		90103R	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	28	0.7	14	0.4	18	0.7
6	16	0.8	22	0.8	81	0.5
11	58	0.8	25	0.7	72	1.0
23	55	1.0	39	0.3	60	0.7
30	62	1.2	42	0.3	11	0.3
NO. SAMPLES	5	5	5	5	5	5
MEAN	44	0.9	28	0.5	48	0.6
MAX.	62	1.2	42	0.8	81	1.0

MONTH JANUARY 1971 LOCATION EDMONTON

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 90201I		90203R		90204C	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	46	1.8	53	0.7	149	1.7
6	19	0.7	11	0.2	33	1.0
11			22	0.3	40	1.2
23	34	0.7			42	1.8
30			23	0.7		
NO. SAMPLES	3	3	4	4	4	4
MEAN	33	1.1	27	0.5	66	1.4
MAX.	46	1.8	53	0.7	149	1.8

MONTH JANUARY 1971 LOCATION CALGARY

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

STATION

DATE	90301C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1						
6						
11	NO DATA AVAILABLE					
23						
30						

NO. SAMPLES

MEAN

MAX.

MONTH JANUARY 1971 LOCATION RED DEER

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 90401C T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	76	0.4				
6	42	0.6				
11	30	0.4				
23	53	0.3				
30	28	0.4				
NO. SAMPLES	5	5				
MEAN	46	0.4				
MAX.	76	0.6				

MONTH JANUARY 1971 LOCATION MEDICINE HAT

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 90501C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	12	0.2				
6	23	0.2				
11	19	0.5				
23	27	0.3				
30						
NO. SAMPLES	4	4				
MEAN	20	0.3				
MAX.	27	0.5				

MONTH JANUARY 1971 LOCATION LETHBRIDGE

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 00101I		00102R		00104R	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1					113	1.5
6	121	1.4	101	1.1		
11	161	0.6	74	0.5	58	1.2
23	111	1.3	67	1.8	93	1.8
30	112	0.6	154	0.8	169	1.8
NO. SAMPLES	4	4	4	4	4	4
MEAN	126	1.0	99	1.0	108	1.6
MAX.	161	1.4	154	1.8	169	1.8

MONTH JANUARY 1971 LOCATION VANCOUVER

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 00105I					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	92	0.6				
11	86	1.5				
23	121	1.5				
30	161	0.5				
NO. SAMPLES	4	4				
MEAN	115	1.0				
MAX.	161	1.5				

MONTH JANUARY 1971 LOCATION VANCOUVER

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

DATE	STATION 00201C T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
23	224	1.2				
30	107	1.0				
NO. SAMPLES	2	2				
MEAN	166	1.1				
MAX.	224	1.2				

MONTH JANUARY 1971 LOCATION PRINCE GEORGE

SUMMARY OF TOTAL PARTICULATES AND LEAD
VALEURS CONDENSEES DES PARTICULES EN SUSPENSION (PB INCLUS)

	STATION					
DATE	00301C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
1	85	1.5				
6	165	1.6				
11	130	1.0				
23	173	0.2				
30	86	0.6				
NO. SAMPLES	5	5				
MEAN	128	1.0				
MAX.	173	1.6				

MONTH JANUARY 1971 LOCATION VICTORIA

Dustfall

Dustfall comprises the larger size particulates which settle out under the influence of gravity. It is measured by exposing open top vessels of specified dimensions for a period of 30 days. The total dustfall is weighed. It is then usually analyzed for the total insoluble, soluble, ash and combustible material present in the sample. In some cases, to meet a particular need, the sample is also analyzed for the presence of a tracer substance such as iron. Dustfall results are expressed in units of tons per square mile per month.

Sulphation Rate

The sulphation rate is measured by exposing lead peroxide candles of specified surface area to the ambient air for a 30 day period. The candles react with sulphur compounds in the atmosphere producing lead sulphate. Results are expressed as milligrams of SO_3 per 100 cm^2 per day.

Retombées de poussières

Cette catégorie comprend les particules trop grosses pour demeurer en suspension dans l'atmosphère. On les capte en exposant, durant une période de 30 jours, des récipients de dimensions déterminées et ouverts au sommet. Les poussières recueillies sont d'abord pesées. Elles sont ensuite habituellement analysées pour déterminer les quantités de matières insolubles, de matières solubles, de matières combustibles et de cendres présentes dans l'échantillon. Dans certain cas, pour répondre à un besoin particulier, l'échantillon est aussie analysé pour déterminer la présence de substances indicatrices comme le fer. Les résultats sont exprimés en tonnes par mille carré par mois.

Indice de formation de sulfate

L'indice de formation de sulfate est mesuré en exposant, pendant une période de 30 jours, des bougies de peroxyde de plomb ayant une surface déterminée. Les bougies réagissent avec les composés de soufre de l'atmosphère pour produire du sulfate de plomb. Les résultats sont exprimés en milligrammes de SO_3 par 100 cm^2 par jour.

STATIONS MEASURING DUSTFALL

STATIONS MESURANT LES RETOMBEES DE POUSSIERES ATMOSPHERIQUES

* DENOTES STATIONS MEASURING SULPHATION RATE

SIGNIFIE STATIONS MESURANT L'INDICE DE FORMATION DE SULFATE

30101	C*	HALIFAX, N.S. TECHNICAL COLLEGE
30102	R*	HALIFAX, DALHOUSIE UNIVERSITY
30105	R*	HALIFAX, ST. MARY'S
30106	R*	HALIFAX, FAIRVIEW SCHOOL
30108	C*	HALIFAX, FEDERAL BUILDING
30109	R*	HALIFAX, TELEPHONE BUILDING
30301	R	SYDNEY, MURPHY ROAD
30302	I*	SYDNEY, SYDNEY STEEL CORPORATION
30305	R*	SYDNEY, VICTORIA ROAD (WHITNEY SCH.)
30309	I	SYDNEY, PT. EDWARD, RICHMOND PLASTICS
30401	R*	GLACE BAY, LAKE ROAD
30403	R*	GLACE BAY, PORT CALEDONIA
30406	I*	GLACE BAY, PUMPING STATION ROAD
50102	R*	MONTREAL, BOTANICAL GARDENS
50103	R*	MONTREAL, POINTE AUX TREMBLES
50106	R*	MONTREAL, VILLE ST. LAURENT
50107	R*	MONTREAL, VILLE LASALLE
50201	C	HULL, RUE PRINCIPALE
60101	C	OTTAWA, SLATER AND ELGIN
60102	R	OTTAWA, EXPERIMENTAL FARM
60103	C	OTTAWA, GILMOUR STREET
60201	I	WINDSOR, MORTON TERMINAL DOCK

60202	C	WINDSOR, CITY HALL
60203	R	WINDSOR-TECUMSEH WATER WORKS
60206	C	WINDSOR, 3120 DOUGALL AVE.
60209	R	WINDSOR, E. C. ROWE AND JEFFERSON
60210	R	WINDSOR, LESPERANCE NEAR PRINCE ST.
60401	C*	TORONTO, 67 COLLEGE STREET
60403	I*	TORONTO, ETOBICOKE, EVANS-ARNOLD
60404	R*	TORONTO, 5126 YONGE STREET
60405	I*	TORONTO, JOHN ST. PUMP STATION
60406	R*	TORONTO, ROSEHILL RESERVOIR
60408	C*	TORONTO, DANFORTH-ROBINSON
60501	C*	HAMILTON, BARTON AND WENTWORTH
60502	I*	HAMILTON, BURLINGTON-GAGE
60503	R*	HAMILTON, CHATHAM-FRID
60504	R*	HAMILTON, FENNEL-W. 5TH.
60507	C*	HAMILTON, HUGHSON-HUNTER
60508	R*	HAMILTON, MCMASTER UNIVERSITY
60701	C*	SAULT STE. MARIE, PROV. ONT. BLDG.
60702	R*	SAULT STE. MARIE, ANNA MCREA P. S.
60703	I*	SAULT STE. MARIE, BAYVIEW-YONGE
60802	C*	THUNDER BAY, 185 GORE ST.
60803	R*	THUNDER BAY, ST. BERNARD SCHOOL
60804	R*	THUNDER BAY, 205 STRATHCONA
60901	C*	LONDON, KING-RECTORY
61001	C*	SARNIA, 156 VICTORIA ST.
61002	R*	SARNIA, YACHT CLUB

61003	I*	SARNIA, LAMBTON COLLEGE
70105	R	WINNIPEG, MARTIN & HENDERSON HWY
70108	R	WINNIPEG, YOUNG AND SARGENT
70113	I	WINNIPEG, WINDERMERE AND ROCKMAN
70115	I	WINNIPEG, PORTAGE AND MINTO
70116	C	WINNIPEG, SMITH AND KING
70117	R	WINNIPEG, CONTROL STATION (MORDEN)
90104	C*	EDMONTON, 100TH ST. AND 103RD AVE.
90105	R*	EDMONTON (N.W.), 135 ST. & 132 AVE.
90106	R*	EDMONTON, 54 ST. & 101A AVE.
90112	I*	EDMONTON, HWY 16A E. AND 10TH ST.
90119	C*	EDMONTON, 116 STREET AND 88 AVE.
90120	I*	EDMONTON, 66 STREET AND 127 AVE.
90204	C*	CALGARY, 7 AVE. & 2 ST., S.E.
90205	R*	CALGARY, 32 AVE. & 14 ST., S.W.
90206	R*	CALGARY, 62 CAMBRIDGE ROAD
90207	I*	CALGARY, 6411 20TH ST., S.E.
90210	I*	CALGARY, 58 AVE. & BLACKFOOT TRAIL
90219	C*	CALGARY, 620-7 AVENUE S. W.

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
30101C	9.1	6.2	2.9			0.8	0.9
30102R	7.7	4.1	3.6			0.8	0.8
30105R	8.0	3.7	4.4			0.6	0.5
30106R	4.9	2.1	2.8			0.6	0.2
30108C	59.5	52.6	6.8			1.2	1.8
30109R	2.6	1.0	1.6			0.4	0.2
TRACER	CHLORIDE						
MEAN	15.3	11.6	3.7			0.7	0.7
MAX.	59.4	52.6	6.8			1.2	1.8
MIN.	2.6	1.0	1.6			0.4	0.2

MONTH JANUARY 1971 LOCATION HALIFAX

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
30301R	6.7	2.4	4.3	3.7		0.6	
30302I	31.7	22.7	9.0	23.3		9.6	1.2
30305R	267.3	252.2	15.1	182.3		91.1	1.7
30309I	86.4	80.6	5.8	63.4		5.2	

TRACER IRON

MEAN	98.0	89.5	8.6	68.2		26.7	1.5
MAX.	267.3	252.2	15.1	182.3		91.1	1.7
MIN.	6.7	2.4	4.3	3.7		0.6	1.2

MONTH JANUARY 1971 LOCATION SYDNEY

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
30401R	46.7	30.9	15.8	33.8		4.4	0.9
30403R	15.9	8.4	7.5	11.7		1.5	0.3
30406I	20.8	9.2	11.6	12.7		1.9	0.3

TRACER IRON

MEAN	27.8	16.2	11.6	19.4		2.6	0.5
MAX.	46.7	30.9	15.8	33.8		4.4	0.9
MIN.	15.9	8.4	7.5	11.7		1.5	0.3

MONTH JANUARY 1971 LOCATION GLACE BAY

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

STATION	DUSTFALL TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
50102R	31.0						
50103R	15.0						2.6
50106R							
50107R							
MEAN	23.0						2.6
MAX.	31.0						
MIN.	15.0						

MONTH JANUARY 1971 LOCATION MONTREAL

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
50201C	11.3	6.0	5.3	2.6	3.4		
MEAN	11.3	6.0	5.3	2.6	3.4		
MAX.							
MIN.							

MONTH JANUARY 1971 LOCATION HULL

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
60101C	35.7	26.3	9.4	5.6	20.7		
60102R	5.6	2.4	3.2	0.9	1.5		
60103C	16.7	10.9	5.8	4.1	6.8		
MEAN	19.3	13.2	6.1	3.5	9.7		
MAX.	35.7	26.3	9.4	5.6	20.7		
MIN.	5.6	2.4	3.2	0.9	1.5		

MONTH JANUARY 1971 LOCATION OTTAWA

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
60201I	7.3	5.0	2.3				
60202C	40.3	30.0	10.3				
60203R	16.9	13.6	3.3				
60206C	8.1	5.4	2.7				
60209R	20.6	15.4	5.2				
60210R	9.7	6.9	2.8				
MEAN	17.2	12.7	4.4				
MAX.	40.3	30.0	10.3				
MIN.	7.3	5.0	2.3				

MONTH JANUARY 1971 LOCATION WINDSOR

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SC3
60401C	19.1	10.5	8.6				1.7
60403I	41.1	3.7	37.4				0.7
60404R	11.5	3.8	7.7				0.6
60405I	36.1	22.5	13.6				1.9
60406R	11.2	5.5	5.7				1.1
60408C	11.1	6.4	4.7				1.3
MEAN	21.7	8.7	13.0				1.2
MAX.	41.1	22.5	37.4				1.9
MIN.	11.1	3.7	4.7				0.6

MONTH JANUARY 1971 LOCATION TORONTC

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

STATION	DUSTFALL TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
60501C	15.4	8.2	7.2				1.0
60502I	51.4	39.0	12.4				1.1
60503R	11.3	5.8	5.5				1.5
60504R	17.4	5.3	12.1				0.5
60507C	19.7	12.4	7.3				0.9
60508R							0.5
MEAN	23.0	14.1	8.9				0.9
MAX.	51.4	39.0	12.4				1.5
MIN.	11.3	5.3	5.5				0.5

MONTH JANUARY 1971 LOCATION HAMILTON

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

STATION	DUSTFALL TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
60701C	7.6	0.9	6.7				0.3
60702R	5.4	2.0	3.4				0.3
60703I	32.3	20.3	12.0				0.4
MEAN	15.1	7.7	7.4				0.3
MAX.	32.3	20.3	12.0				0.4
MIN.	5.4	0.9	3.4				0.3

MONTH JANUARY 1971 LOCATION SAULT STE. MARIE

SUMMARY OF DUSTFALL AND SULFATION RATES .
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL					
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
60802C	6.7	3.4	3.3				0.3
60803R	3.1	1.2	1.9				0.1
60804R	5.6	1.7	3.9				0.1
MEAN	5.1	2.1	3.0				0.2
MAX.	6.7	3.4	3.9				0.3
MIN.	3.1	1.2	1.9				0.1

MONTH JANUARY 1971 LOCATION THUNDER BAY

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

STATION	DUSTFALL						SO3
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
60901C							0.9
MEAN							0.9
MAX.							
MIN.							

MONTH JANUARY 1971 LOCATION LONDON

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
61001C							1.4
61002R							1.1
61003I							1.6
MEAN							1.4
MAX.							1.6
MIN.							1.1

MONTH JANUARY 1971 LOCATION SARNIA

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

	DUSTFALL						
STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
70105R	10.7	9.0	1.7	6.2	4.5		
70108R							
70113I							
70115I	17.2	14.8	2.4	11.6	5.6		
70116C	22.2	19.5	2.7	15.7	6.5		
70117R							
MEAN	16.7	14.4	2.3	11.2	5.5		
MAX.	22.2	19.5	2.7	15.7	6.5		
MIN.	10.7	9.0	1.7	6.2	4.5		

MONTH JANUARY 1971 LOCATION WINNIPEG

SUMMARY OF DUSTFALL AND SULFATION RATES ,
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

DUSTFALL

STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
90104C	1.5			1.1	0.5		0.1
90105R	3.4			1.8	1.6	0.5	0.1
90106R	2.1			1.3	0.8		0.2
90112I	4.9			3.5	1.4		1.4
90119C	4.2			1.2	3.0		0.1
90120I	5.8			4.0	1.8		0.2

TRACER CALCIUM

MEAN	3.7			2.1	1.5	0.5	0.4
MAX.	5.8			4.0	3.0		1.4
MIN.	1.5			1.1	0.4		0.1

MONTH JANUARY 1971 LOCATION EDMONTON

SUMMARY OF DUSTFALL AND SULFATION RATES
RETOMBEES DE POUSSIERES ET INDICES DE FORMATION DE SULFATE

STATION	DUSTFALL TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
90204C	9.8			4.2	5.6		0.3
90205R	1.5			0.9	0.6		0.3
90206R	2.8			2.0	0.8		0.3
90207I	3.0			2.2	0.8		0.4
90210I	2.2			1.3	0.9		0.4
90219C	4.8			3.4	1.4		0.5
MEAN	4.0			2.3	1.7		0.4
MAX.	9.8			4.2	5.6		0.5
MIN.	1.5			0.9	0.6		0.3

MONTH JANUARY 1971 LOCATION CALGARY

Sulphur Dioxide

Sulphur Dioxide is measured continuously in three ways. In all instruments air passes at a controlled rate through a scrubber where the sulphur dioxide gas dissolves in a liquid medium. Subsequent analysis may be carried out by means of conductivity (CON) when the scrubbing solution is a dilute mixture of sulphuric acid and hydrogen peroxide, colorimetry (COL) when the West and Gaeke absorbing solution is used or coulometry (COU) when a bromine or iodine reagent is used.

The data are reported as hourly maxima, 24 hour daily averages and monthly averages. Units used are parts per hundred million by volume of air sampled.

Anhydride sulfureux (SO_2)

L'échantillonnage continu de l'anhydride sulfureux s'effectue en faisant passer de l'air à une vitesse contrôlée à travers un milieu liquide qui absorbe l'anhydride sulfureux. L'analyse peut se faire de 3 façons, soit par conductivité (CON), quand la solution absorbante est un mélange dilué d'acide sulfurique et de peroxyde d'hydrogène, soit par colorimétrie (COL), quand la solution absorbante est celle de West et Gaeke, soit par coulométrie (COU), quand une solution de bromure ou d'iodure est utilisée.

On doit noter que les résultats de ces 3 méthodes d'analyse ne sont pas directement comparables à cause des différences de résistance aux interférences. Les résultats sont exprimés en maxima horaires, en moyennes quotidiennes de 24 heures et en moyennes mensuelles. Les unités utilisées sont des parties par cent millions d'air échantillonné.

STATIONS MEASURING SULPHUR DIOXIDE

STATIONS MESURANT L'ANHYDRIDE SULFUREUX

50101	R,P,COU	MONTREAL, JARRY PARK
50102	R,P,COU	MONTREAL, BOTANICAL GARDENS
50103	R,P,COU	MONTREAL, POINTE AUX TREMBLES
50104	C,M,COL	MONTREAL, 1125 ONTARIO
50105	C,M,COL	MONTREAL, 1212 DRUMMOND
50201	C,F,COU	HULL, RUE PRINCIPALE
60101	C,F,CON	OTTAWA, SLATER AND ELGIN
60201	I,P,COU	WINDSOR, MORTON TERMINAL DOCK
60204	C,P,COU	WINDSOR, 471 UNIVERSITY AVE.
60401	C,P,COU	TORONTO, 67 COLLEGE ST.
60402	R,P,COU	TORONTO, DON MILLS, SCI. CENTRE
60403	I,P,COU	TORONTO, EVANS/ARNOLD
60407	C,P,COU	TORONTO, CITY HALL
60501	C,P,COU	HAMILTON, BARTON/WENTWORTH
60505	R,P,COU	HAMILTON, NORTH PARK
60506	I,P,COU	HAMILTON, WOODWARD-BRAMPTON
60602	R,P,COU	SUDBURY, ASH STREET
60603	R,P,COU	SUDBURY, 394 MONTAGUE AVE.
60901	C,P,COU	LONDON, KING-RECTORY
61001	C,P,COU	SARNIA, 156 VICTORIA ST.

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 50101R NO. OF SAMP.	MAX	MEAN	STATION 50102R NO. OF SAMP.	MAX	MEAN	STATION 50103R NO. OF SAMP.	MAX	MEAN
1				24	15	7			
2				24	8	5			
3				24	6	4			
4	12	6	4	24	7	4			
5	24	3	2	24	5	3			
6	14	2	1	24	5	2			
7				24	4	2			
8				24	4	2			
9				24	6	2			
10				24	10	5			
11				24	13	5			
12	13	5	3	24	5	2			
13	24	5	3	24	4	3			
14	20	5	3	24	5	2			
15				24	15	5			
16				24	6	3			
17				24	11	4			
18	14	4	3	19	6	4			
19	19	7	4	24	10	5			
20	13	6	4	24	7	4			
21	24	7	4	24	9	5			
22	7	5	4	24	7	4	0	0	
23				24	13	6	10	1	
24				24	6	4	0	0	
25	12	3	2	13	11	6	10	2	
26	24	5	3	24	5	2			
27	24	10	7	24	10	6			
28	24	10	5	24	6	4			
29	24	7	4	24	16	7			
30	24	7	3	24	10	4			
31	24	12	3	21	4	3			

	STA 50101R	STA 50102R	STA 50103R
TOTAL NO. SAMPLES	340	725	
MAXIMUM FOR MONTH	12	16	10
MONTHLY MEAN	3.5	3.9	

MONTH JANUARY 1971 LOCATION MONTREAL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 50104C NO. OF SAMP.	MAX	MEAN	STATION 50105C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1		36	20		39	30			
2		21	13		30	18			
3		15	10		28	21			
4		21	12		21	16			
5		11	6		12	11			
6		7	5		0	0			
7		8	6		21	19			
8		17	9		30	18			
9		21	12		17	16			
10		30	16		0	0			
11		17	11		19	18			
12		9	5		21	18			
13		12	8		28	19			
14		15	7		29	21			
15		21	11		28	20			
16		9	7		32	24			
17		12	8		33	26			
18		13	8		35	23			
19		9	7		22	18			
20		21	13		33	22			
21		24	15		20	14			
22		22	10		17	14			
23		19	9		17	13			
24		11	6		16	13			
25		19	10		19	17			
26		9	5		0	0			
27		4	3		0	0			
28		11	6		24	17			
29		19	14		21	14			
30		11	6		28	17			
31		11	8		25	19			

	STA 50104C	STA 50105C	STA
TOTAL NO. SAMPLES			
MAXIMUM FOR MONTH	36	39	
MONTHLY MEAN			

MONTH JANUARY 1971 LOCATION MONTREAL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 50201C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	24	3	1						
2	24	10	4						
3	24	8	4						
4	24	30	8						
5	24	4	2						
6	24	2	1						
7	24	2	1						
8	24	8	2						
9	24	7	5						
10	24	7	4						
11	24	6	4						
12	24	2	1						
13	24	6	2						
14	24	7	3						
15	19	3	1						
16	24	1	1						
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									

	STA 50201C	STA	STA
TOTAL NO. SAMPLES	379		
MAXIMUM FOR MONTH	30		
MONTHLY MEAN	2.6		

MONTH JANUARY 1971 LOCATION HULL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 60101C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1									
2									
3									
4	7	3	2						
5	24	13	5						
6	24	20	9						
7	24	15	10						
8	24	27	12						
9	24	11	5						
10	24	7	4						
11	24	45	12						
12	24	20	9						
13	24	17	7						
14	24	8	2						
15	24	16	8						
16	24	23	14						
17	24	35	14						
18	24	25	14						
19	24	30	19						
20	24	20	12						
21	24	10	5						
22	24	21	7						
23	24	17	7						
24	24	12	5						
25	24	10	5						
26	24	0	0						
27	24	12	8						
28	24	18	12						
29	24	8	4						
30	24	12	7						
31	24	8	3						

	STA 60101C	STA	STA
TOTAL NO. SAMPLES	655		
MAXIMUM FOR MONTH	45		
MONTHLY MEAN	8.0		

MONTH JANUARY 1971 LOCATION OTTAWA

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 60201I NO. OF SAMP.	MAX	MEAN	STATION 60204C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	24	14	4	24	12	7			
2	24	3	1	24	26	13			
3	24	2	0	24	6	2			
4	21	0	0	24	28	9			
5	24	2	1	24	31	20			
6	24	2	1	24	31	20			
7	23	3	2	22	41	20			
8	24	7	2	24	9	3			
9	24	6	2	24	11	3			
10	24	2	1	24	21	8			
11	24	5	2	24	21	3			
12	24	14	3	24	8	3			
13	24	1	0	22	4	2			
14	24	4	1	24	15	7			
15	18	3	1	24	5	2			
16	24	4	1	22	8	2			
17	24	6	2	24	6	4			
18	24	12	3	23	9	4			
19	24	4	2	24	9	4			
20	11	7	2	24	27	7			
21	24	5	1	24	46	17			
22	19	4	1	24	26	10			
23	6	2	1	24	37	16			
24				24	19	7			
25	10	2	0	24	13	5			
26	24	15	4	24	27	6			
27	24	10	4	24	16	3			
28	24	6	1	24	31	14			
29	24	2	1	24	59	17			
30	24	1	0	24	24	8			
31	24	0	0	24	35	20			

	STA 60201I	STA 60204C	STA
TOTAL NO. SAMPLES	660	737	
MAXIMUM FOR MONTH	15	59	
MONTHLY MEAN	1.5	8.6	

MONTH JANUARY 1971 LOCATION WINDSOR

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 60401C			STATION 60402R			STATION 60403I		
	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	24	13	9	24	2	1	24	7	4
2	24	33	13	24	7	3	24	18	6
3	24	8	5	21	4	2	24	3	2
4	24	24	9	10	8	3	24	2	1
5	24	29	10	24	4	2	24	3	2
6	24	26	11	24	4	2	24	4	3
7	24	10	3	9	4	3	24	6	3
8	24	16	9				24	18	7
9	24	16	10				24	10	5
10	24	18	9				24	14	6
11	24	23	9	11	9	4	24	8	4
12	24	15	6	24	2	0	24	7	4
13	24	22	11	10	1	0	24	9	6
14	24	21	9				24	13	5
15	24	4	1				24	5	3
16	24	9	2				24	5	4
17	24	19	6				24	10	5
18	24	13	7	12	3	2	24	5	3
19	24	5	3	24	5	4	24	4	3
20	24	22	7	24	3	2	24	5	3
21	24	47	25	24	4	3	24	23	9
22	24	36	15	12	4	2	24	9	5
23	24	26	11				24	13	4
24	24	28	15				24	16	8
25	24	21	12				23	16	8
26	24	37	12	10	2	0	24	9	3
27	24	6	3	18	0	0	24	5	1
28	24	11	5	15	0	0	22	7	3
29	24	38	14	24	7	2			
30	24	9	5	24	4	2			
31	24	6	4	24	5	3			

	STA 60401C	STA 60402R	STA 60403I
TOTAL NO. SAMPLES	744	392	669
MAXIMUM FOR MONTH	47	9	23
MONTHLY MEAN	8.6	1.9	4.3

MONTH JANUARY 1971 LOCATION TORONTO

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 60407C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	24	13	8						
2	24	29	8						
3	24	10	5						
4	24	27	14						
5	24	17	6						
6	24	6	3						
7	24	8	4						
8	10	16	9						
9									
10									
11									
12									
13									
14									
15	13	13	10						
16	24	14	10						
17	24	16	6						
18	24	14	7						
19	24	13	10						
20	24	16	8						
21	24	21	8						
22	24	15	7						
23	24	13	6						
24	24	16	9						
25	24	19	10						
26	24	22	7						
27	24	6	5						
28	24	17	5						
29	24	25	10						
30	24	7	3						
31	24	4	3						

	STA 60407C	STA	STA
TOTAL NO. SAMPLES	575		
MAXIMUM FOR MONTH	29		
MONTHLY MEAN	7.2		

MONTH JANUARY 1971 LOCATION TORONTO

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

	STATION 60501C			STATION 60505R			STATION 60506I		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	24	9	5	4	2	1	24	4	2
2	24	8	4				24	2	1
3	24	7	3				24	1	1
4	24	8	4	7	3	1	24	1	1
5	24	4	3	24	5	3	6	2	1
6	24	6	4	24	4	1	18	6	4
7	24	5	4	24	6	2	24	5	4
8	24	11	5	24	3	1	24	5	3
9	24	10	6	17	1	0	24	6	4
10	24	10	4				24	7	3
11	24	5	3				22	5	3
12	24	12	5	24	2	1	24	7	4
13	24	11	5	9	2	1	24	6	3
14	24	7	4	10	6	4	24	19	8
15	24	3	1	21	2	1	24	9	2
16	24	3	1				24	6	2
17	24	3	1				24	7	4
18	24	5	2				24	7	2
19	24	7	4	12	2	1	24	9	5
20	24	7	5	4	4	3	24	8	4
21	24	9	5	24	6	2	24	3	3
22	24	5	3	24	6	3	24	4	3
23	24	8	4	24	7	2	24	5	3
24	24	8	4	24	7	4	24	4	3
25	24	6	4	21	5	2	24	6	4
26	24	6	3	15	4	1	24	7	3
27	24	3	2	13	7	3	23	9	5
28	24	6	3	24	7	5	24	1	1
29	24	7	3	24	7	4	24	8	3
30	24	4	2	24	6	4	24	5	3
31	24	6	3	24	9	5	24	5	4

	STA 60501C	STA 60505R	STA 60506I
TOTAL NO. SAMPLES	744	445	717
MAXIMUM FOR MONTH	12	9	19
MONTHLY MEAN	3.4	2.4	3.1

MONTH JANUARY 1971 LOCATION HAMILTON

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 60602R NO. OF SAMP.	MAX	MEAN	STATION 60603R NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1				24	42	10			
2				24	23	7			
3				24	54	14			
4				24	15	3			
5				24	120	8			
6				22	1	0			
7				20	0	0			
8				12	13	3			
9				24	3	0			
10				24	7	1			
11				24	4	0			
12	24	18	5	24	11	2			
13	23	11	4	24	11	3			
14	23	40	6	24	22	2			
15	24	4	1	23	0	0			
16	24	3	1	24	0	0			
17	23	3	2	24	0	0			
18	24	6	4	24	0	0			
19	24	7	5	24	0	0			
20	24	10	6	24	5	0			
21	24	9	5	24	20	2			
22	24	14	5	24	13	1			
23	24	37	10	24	63	8			
24	24	14	10	24	9	2			
25	23	25	11	24	23	7			
26	15	7	4	24	4	0			
27	24	5	2	24	0	0			
28	23	13	6	23	19	2			
29	24	46	20	23	18	3			
30				23	3	1			
31				24	6	2			

	STA 60602R	STA 60603R	STA
TOTAL NO. SAMPLES	418	722	
MAXIMUM FOR MONTH	46	120	
MONTHLY MEAN	6.0	2.6	

MONTH JANUARY 1971 LOCATION SUDBURY

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 60901C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	24	2	1						
2	24	4	2						
3	24	3	2						
4	24	4	2						
5	24	4	2						
6	24	5	3						
7	24	5	3						
8	24	5	3						
9	24	4	3						
10	24	4	3						
11	24	4	3						
12	24	4	2						
13	24	6	3						
14	24	5	3						
15	24	4	2						
16	24	3	2						
17	24	3	2						
18	24	4	2						
19	24	3	2						
20	24	4	2						
21	24	4	3						
22	24	5	3						
23	24	5	3						
24	24	5	3						
25	24	4	3						
26	24	5	3						
27	24	3	2						
28	24	4	2						
29	24	4	3						
30	24	5	2						
31	10	3	3						

	STA 60901C	STA	STA
TOTAL NO. SAMPLES	730		
MAXIMUM FOR MONTH	6		
MONTHLY MEAN	2.5		

MONTH JANUARY 1971 LOCATION LONDON

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 61001C NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN	STATION NO. OF SAMP.	MAX	MEAN
1	24	15	3						
2	24	8	2						
3	24	0	0						
4	24	8	1						
5	24	3	1						
6	24	1	0						
7	24	3	1						
8	23	10	2						
9	24	4	1						
10	22	9	4						
11	24	5	1						
12	24	2	1						
13	24	1	0						
14	24	3	1						
15	24	5	2						
16	14	2	1						
17	24	1	1						
18	23	3	1						
19	24	2	1						
20	24	14	3						
21	22	9	5						
22	24	14	4						
23	24	7	2						
24	24	14	5						
25	23	26	7						
26	24	7	2						
27	24	0	0						
28	24	0	0						
29	24	10	4						
30	24	2	1						
31	24	2	1						

	STA 61001C	STA	STA
TOTAL NO. SAMPLES	727		
MAXIMUM FOR MONTH	26		
MONTHLY MEAN	1.9		

MONTH JANUARY 1971 LOCATION SARNIA