

NATIONAL AIR POLLUTION SURVEILLANCE

MONTHLY SUMMARY

FOR

OCTOBER 1971

Compiled by the

Air Pollution Control Directorate
Department of the Environment

From data collected by the Provinces of:

Newfoundland
Prince Edward Island
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

May 1972

SURVEILLANCE NATIONALE DE LA POLLUTION ATMOSPHERIQUE

SOMMAIRE MENSUEL

DE

OCTOBRE 1971

Établi par la

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

Extrait de données réunies par les provinces de:

Terre-Neuve
Ile-du-Prince Edouard
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

Mai 1972

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 régions 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 repérer 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 réduction 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 le 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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Cooperating Agencies

Clean Air, Water & Soil Authority,
Province of Newfoundland.

Environmental Control Commission,
Province of Prince Edward Island.

Consultation Services,
Department of Public Health,
Province of Nova Scotia.

Public Health Services,
Department of Health,
Province of New Brunswick.

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

Air Management Branch,
Department of the Environment,
Province of Ontario.

Environmental Health Laboratory,
Department of Mines, Resources and
Environmental Management,
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 Directorate,
Department of the Environment.

Organismes collaborateurs

Clean Air, Water & Soil Authority,
Province de Terre-Neuve.

Environmental Control Commission,
Province de l'Ile-du-Prince Edouard.

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

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

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

Air Management Branch,
Ministère de l'Environnement,
Province de l'Ontario.

Environmental Health Laboratory,
Ministère de la gestion des Mines,
des Ressources et de l'Environnement,
Province du Manitoba.

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

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

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

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

The National Air Pollution

Surveillance Network

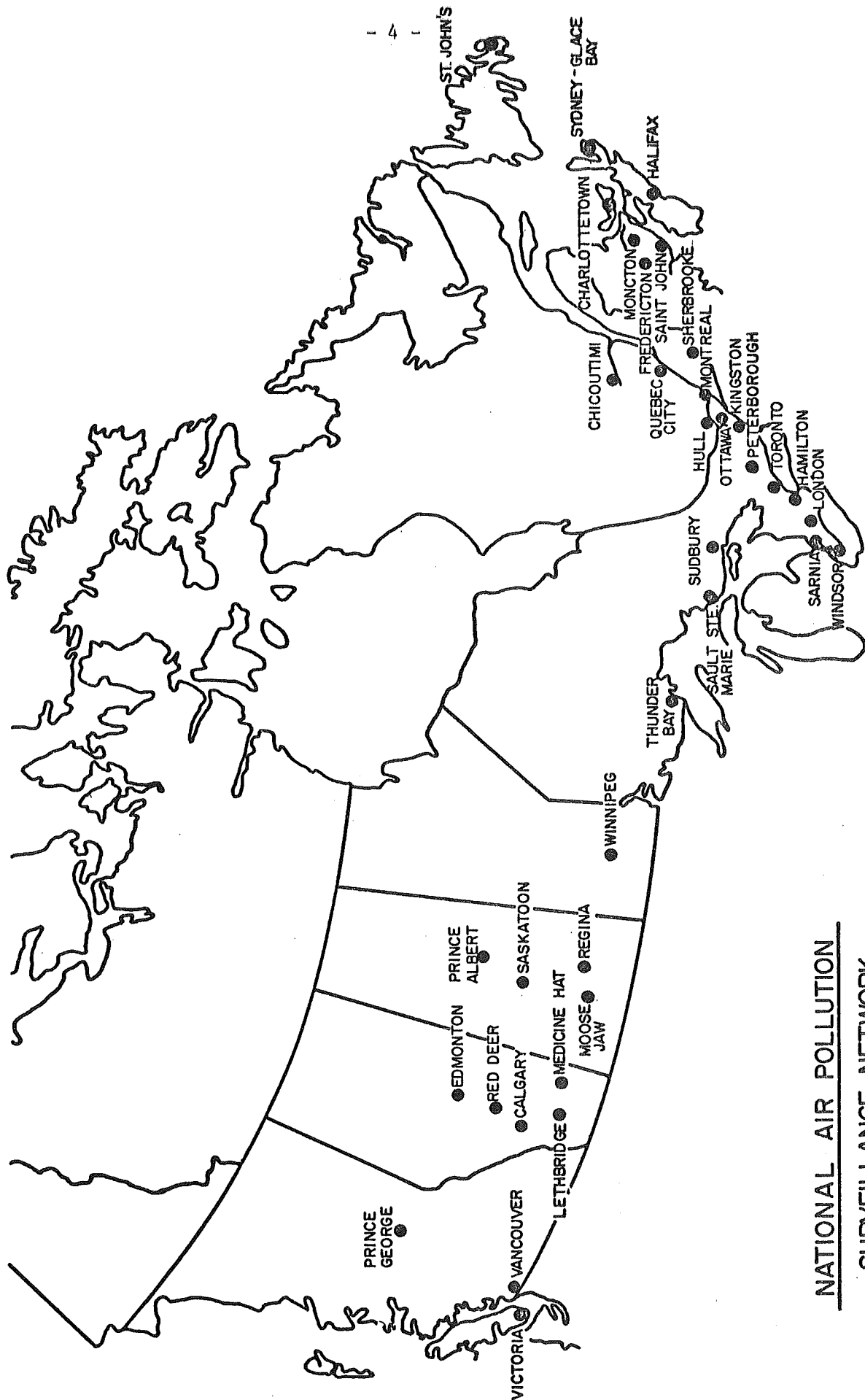
Sampling stations providing data for this summary are located in the following Canadian cities:

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:

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



NATIONAL AIR POLLUTION

SURVEILLANCE NETWORK

(JANUARY, 1972)

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 January, 1972, the program consisted of 237 sampling instruments in 37 cities across ten provinces. Measurements are being made for soiling index, suspended particulates, lead, dustfall, sulphation rate, and sulphur dioxide. 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 Directorate 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 eventually to broaden the network to include other pollution indices and to provide a correlation with weather readings provided by the Atmospheric Environment 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 janvier, 1972, le programme comportait 237 instruments d'échantillonnage dans 37 villes de dix provinces. Les mesures sont faites relativement à l'indice de souillure, les particules en suspension, le plomb, les retombées de poussières, l'indice de formation de sulfate, et l'anhydride sulfureux. 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 Direction 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 de l'Environnement atmosphérique. Les plans d'avenir prévoient une normalisation accrue, un centre national de référence pour la méthodologie de l'échantillonnage et un service d'étalonnage 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

STATIONS 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
60204	C,P	WINDSOR, 471 UNIVERSITY AVE.
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
60601	C,P	SUDBURY, 50 CEDAR STREET

60602	R,P	SUDBURY, ASH STREET
60901	C,P	LONDON, KING-RECTORY
61001	C,P	SARNIA, 156 VICTORIA ST.
70101	C,P	WINNIPEG, KENNEDY ST. & YORK AVE.
90113	C,P	EDMONTON, 100A AVE. AND 104 ST.
90115	I,P	EDMONTON, 147 ST. AND 116 AVE.
90118	R,P	EDMONTON, 73 AVE. AND 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

	STATION 30304R			STATION 30306R			STATION		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	0.3	0.1	12	1.0	0.4			
2	12	0.2	0.1	12	1.5	0.7			
3	12	0.2	0.0	12	0.9	0.3			
4	12	0.2	0.1	12	1.1	0.6			
5	10	2.8	1.2	12	0.9	0.6			
6	12	2.1	0.4	12	1.5	0.6			
7	12	2.8	1.2	12	1.0	0.3			
8	12	2.5	0.9	12	1.2	0.5			
9	12	1.0	0.4	12	1.1	0.5			
10	12	3.0	1.2	12	1.0	0.4			
11	12	2.3	0.7	12	0.6	0.2			
12	12	3.7	1.2	12	0.7	0.4			
13	12	1.5	0.6	12	1.3	0.7			
14	12	3.1	0.9	12	1.4	0.6			
15	12	2.5	0.9	12	0.8	0.5			
16	12	1.3	0.5	12	1.1	0.5			
17	12	1.5	0.6	12	1.2	0.5			
18	12	1.6	0.8	12	2.5	0.8			
19	12	0.8	0.5	12	0.6	0.4			
20	12	1.4	0.5	12	1.1	0.6			
21	12	1.2	0.5	12	0.9	0.4			
22	12	2.7	1.0	12	1.7	0.7			
23	12	1.9	0.6	12	0.9	0.6			
24	12	1.3	0.5	12	1.2	0.7			
25	12	2.0	1.0	12	2.2	1.0			
26	12	3.3	1.9	12	1.0	0.5			
27	12	1.5	0.7	12	1.0	0.6			
28	12	2.1	0.9	12	1.0	0.6			
29	12	0.5	0.3	12	1.4	0.6			
30	12	0.8	0.4	12	1.2	0.7			
31	12	1.4	0.6	12	1.6	0.8			

STA 30304R STA 30306R STA

TOTAL NO. SAMPLES	370	372
MAXIMUM FOR MONTH	3.7	2.5
MONTHLY MEAN	0.7	0.6

MONTH OCTOBER 1971

LOCATION

SYDNEY

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

STATION 30403R				STATION 30406I			STATION		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF	MAX	MEAN
		SAMP.					SAMP.		
1	12	0.2	0.0	12	0.4	0.2			
2	12	0.3	0.1	12	0.4	0.1			
3	12	0.2	0.0	12	0.4	0.1			
4	12	0.3	0.1	12	0.5	0.2			
5	12	0.4	0.2	12	0.2	0.1			
6	12	0.5	0.2	12	0.2	0.1			
7	12	0.3	0.1	12	0.3	0.1			
8	12	0.3	0.2	12	0.2	0.1			
9	12	0.7	0.2	12	0.5	0.1			
10	12	0.5	0.2	12	0.2	0.1			
11	12	0.3	0.1	12	0.3	0.1			
12	12	0.1	0.0	12	0.2	0.1			
13	12	0.2	0.1	12	0.3	0.1			
14	12	0.1	0.0	12	0.6	0.1			
15	12	0.5	0.1	12	0.3	0.1			
16	12	0.3	0.1	12	0.5	0.2			
17	12	0.1	0.0	12	0.2	0.1			
18	12	0.6	0.1	12	0.4	0.2			
19	12	0.3	0.0	12	0.3	0.1			
20	12	0.3	0.1	12	0.7	0.2			
21	12	0.1	0.0	12	0.6	0.3			
22	12	0.4	0.1	12	0.4	0.1			
23	12	0.2	0.1	12	0.5	0.2			
24	12	0.3	0.1	12	0.9	0.3			
25	12	0.4	0.1	12	0.4	0.2			
26	12	0.3	0.1	12	0.2	0.1			
27	12	0.7	0.1	12	1.2	0.3			
28	12	0.4	0.1	12	0.4	0.1			
29	12	0.3	0.1	12	0.3	0.1			
30	12	0.3	0.1	12	0.2	0.1			
31	12	0.3	0.1	12	0.2	0.1			

STA 30403R STA 30406I STA

TOTAL NO. SAMPLES	372	372
MAXIMUM FOR MONTH	0.7	1.2
MONTHLY MEAN	0.1	0.1

MONTH OCTOBER 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	1.3	0.8	12	0.7	0.4	12	0.8	0.4
2	12	0.7	0.5	12	1.2	0.7	12	0.5	0.2
3	12	0.4	0.3	12	0.7	0.4	12	0.0	0.0
4	12	1.5	0.7	12	1.0	0.7	12	0.5	0.2
5	12	1.7	0.8	12	2.3	0.9	12	1.0	0.5
6	12	1.5	0.8	12	1.4	0.9	12	1.0	0.4
7	12	0.7	0.6	12	0.7	0.5	12	0.2	0.1
8	12	1.5	0.7	12	1.5	0.9	12	0.7	0.1
9	12	1.2	0.7	12	1.5	0.9	12	1.0	0.3
10	12	1.2	0.6	12	0.8	0.7	12	0.5	0.2
11	12	0.7	0.5	12	0.8	0.5	12	0.8	0.3
12	12	1.6	0.6	12	1.5	0.6	12	0.3	0.2
13	12	2.9	1.5	12	3.6	1.6	12	1.0	0.5
14	12	2.2	1.7	12	1.9	1.6	12	0.7	0.3
15	12	3.1	1.4	12	2.5	1.7	12	0.8	0.5
16	12	1.0	0.7	12	2.0	1.1	12	0.8	0.4
17	12	1.0	0.6	12	0.6	0.4	12	0.3	0.1
18	12	2.0	1.0	12	3.2	1.4	12	1.2	0.4
19	12	0.8	0.5	12	3.0	1.2	12	1.5	0.4
20	12	1.2	0.7	12	2.8	1.5	12	0.8	0.7
21	12	1.2	0.8	12	2.4	1.5	12	1.2	0.6
22	12	0.8	0.6	12	3.0	2.0	12	1.6	0.9
23	12	1.0	0.7	12	2.0	0.8	12	0.7	0.2
24	12	1.8	0.8	12	0.8	0.5	12	0.3	0.2
25	12	0.8	0.6	12	1.2	0.8	12	0.3	0.1
26	12	1.2	0.7	12	1.5	0.9	12	0.7	0.2
27	12	0.8	0.6	12	3.4	1.4	12	0.7	0.3
28	12	1.0	0.7	12	4.1	1.5	12	1.4	0.5
29	12	1.0	0.7	12	0.7	0.4	12	1.8	0.9
30	12	0.7	0.4	12	1.5	0.7	12	1.2	0.5
31	12	1.0	0.6	12	1.8	0.8	12	0.7	0.2

STA 50101R				STA 50102R		STA 50103R	
TOTAL NO. SAMPLES				372	372	372	
MAXIMUM FOR MONTH				3.1	4.1	1.8	
MONTHLY MEAN				0.7	1.0	0.3	
MONTH OCTOBER 1971				LOCATION		MONTREAL	

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

DAY	STATION 50104C			STATION 50105C			STATION 50106R		
	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	1.1	0.9	12	1.6	0.8	12	1.7	0.8
2	12	0.9	0.6	12	1.0	0.6	12	0.8	0.5
3	12	0.8	0.5	12	0.5	0.3	12	0.4	0.3
4	12	1.7	0.9	12	1.6	0.7	12	1.4	0.5
5	12	2.0	0.8	12	1.0	0.5	12	0.8	0.6
6	12	1.7	1.1	12	0.7	0.6	12	1.4	0.7
7	12	1.2	0.7	12	1.0	0.5	12	0.6	0.3
8	12	4.2	1.8	12	0.9	0.5	12	0.9	0.3
9	12	4.7	1.2	12	0.8	0.5	12	1.0	0.6
10	12	1.2	0.9	12	0.8	0.6	12	0.8	0.6
11	12	1.2	0.7	12	1.1	0.7	12	0.6	0.5
12	12	2.1	0.8	12	0.9	0.6	12	0.8	0.4
13	12	4.5	1.8	12	2.0	0.7	12	3.1	1.2
14	12	2.9	2.1	12	3.3	1.7	12	2.3	1.3
15	12	2.9	1.6	12	6.5	3.6	12	2.4	1.3
16	12	2.9	1.2	12	2.6	1.1	12	1.4	0.7
17	12	0.8	0.6	12	0.8	0.6	12	0.6	0.3
18	12	4.5	1.7	12	3.3	1.4	12	0.8	0.4
19	12	4.3	1.5	12	2.5	1.2	12	1.8	0.9
20	12	5.1	2.1	12	2.5	1.4	12	0.8	0.5
21	12	3.6	2.3	12	2.6	1.5	12	0.7	0.4
22	12	4.9	3.0	12	3.3	1.6	12	1.4	0.6
23	12	1.9	0.9	12	1.5	0.6	12	0.7	0.5
24	12	1.3	0.7	12	0.7	0.5	12	1.0	0.4
25	12	2.5	1.5	12	2.3	1.0	12	1.5	0.8
26	12	2.9	1.7	12	1.9	1.1	12	1.2	0.5
27	12	4.6	1.3	12	1.0	0.8	12	0.6	0.4
28	12	1.5	1.0	11	1.5	0.8	12	0.9	0.4
29	12	3.1	1.6	5	2.1	1.4	12	2.3	0.8
30	12	2.1	0.9	12	1.5	0.7	12	1.0	0.4
31	12	0.8	0.6	12	0.6	0.4	12	0.5	0.3

STA 50104C STA 50105C STA 50106R

TOTAL NO. SAMPLES	372	364	372
MAXIMUM FOR MONTH	5.1	6.5	3.1
MONTHLY MEAN	1.3	0.9	0.6

MONTH OCTOBER 1971

LOCATION

MONTREAL

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

	STATION 50107R		STATION		STATION	
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	0.6	0.3			
2	12	0.7	0.4			
3	12	0.8	0.5			
4	12	0.8	0.4			
5	12	0.5	0.3			
6	12	0.7	0.4			
7	12	0.7	0.4			
8	12	0.6	0.5			
9	12	0.6	0.3			
10	12	0.5	0.3			
11	12	0.7	0.4			
12	12	1.2	0.6			
13	12	2.2	0.9			
14	12	2.4	1.0			
15	12	1.3	0.8			
16	12	2.0	1.2			
17	12	1.1	0.4			
18	12	0.5	0.3			
19	12	1.4	0.6			
20	12	1.8	0.9			
21	12	0.8	0.5			
22	12	1.4	0.8			
23	12	2.0	1.0			
24	12	1.5	0.5			
25	12	0.6	0.3			
26	12	0.0	0.5			
27	12	1.0	0.7			
28	12	0.8	0.5			
29	12	1.5	0.5			
30	12	2.4	0.9			
31	12	0.6	0.4			

	STA 50107R	STA	STA
TOTAL NO. SAMPLES	372		
MAXIMUM FOR MONTH	2.4		
MONTHLY MEAN	0.6		

MONTH OCTOBER 1971

LOCATION

MONTREAL

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

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

STA 50201C STA STA

TOTAL NO. SAMPLES	320
MAXIMUM FOR MONTH	1.3
MONTHLY MEAN	0.4

MONTH OCTOBER 1971

LOCATION

HULL

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

STATION 60101C				STATION 60102R			STATION 60103C		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	0.5	0.3	12	0.4	0.2	12	0.4	0.3
2	12	0.7	0.3	12	0.3	0.2	12	0.3	0.2
3	12	0.3	0.1	12	0.2	0.1	12	0.3	0.1
4	12	0.7	0.3	12	0.3	0.1	12	0.7	0.3
5	12	0.5	0.3	12	0.3	0.1	12	0.4	0.2
6	12	0.8	0.2	12	0.2	0.1	12	0.5	0.3
7	12	0.3	0.2	12	0.1	0.0	12	0.3	0.2
8	12	0.5	0.3	12	0.3	0.1	12	0.4	0.2
9	12	0.4	0.2	12	0.3	0.2	12	0.5	0.3
10	12	0.5	0.3	12	0.3	0.2	12	0.7	0.3
11	12	0.3	0.2	12	0.3	0.1	12	0.3	0.2
12	12	0.8	0.3	12	0.4	0.1	12	1.4	0.4
13	12	0.7	0.4	12	0.6	0.2	12	1.1	0.5
14	12	1.0	0.6	12	0.6	0.3	12	1.0	0.6
15	12	0.8	0.5	12	0.3	0.2	12	1.1	0.5
16	12	0.6	0.3	12	0.3	0.2	12	1.1	0.4
17	12	0.3	0.1	12	0.3	0.1	12	0.7	0.2
18	12	0.9	0.5	12	0.5	0.3	12	2.1	0.7
19	12	0.8	0.3	12	0.4	0.2	12	0.7	0.3
20	12	0.9	0.6	12	0.4	0.3	12	1.6	0.5
21	12	1.2	0.8	12	0.5	0.3	12	1.6	0.8
22	12	1.3	0.8	12	1.1	0.6	12	1.4	0.9
23	12	0.5	0.2	12	0.9	0.2	12	1.1	0.3
24	12	0.3	0.1	12	0.2	0.1	12	0.3	0.2
25	12	0.6	0.3	12	0.5	0.2	12	0.7	0.3
26	12	0.5	0.3	12	0.7	0.2	12	0.9	0.5
27	12	0.3	0.2	12	0.3	0.2	12	0.7	0.4
28	12	0.4	0.3	12	0.5	0.2	12	0.9	0.3
29	12	0.7	0.3	12	0.6	0.3	12	0.6	0.3
30	12	0.3	0.2	12	0.3	0.1	12	0.3	0.1
31	12	0.7	0.2	12	0.3	0.1	12	0.6	0.2

STA 60101C STA 60102R STA 60103C

TOTAL NO. SAMPLES	372	372	372
MAXIMUM FOR MONTH	1.3	1.1	2.1
MONTHLY MEAN	0.3	0.2	0.4

MONTH OCTOBER 1971

LOCATION

OTTAWA

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

STATION 60204C				STATION			STATION		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	24	1.5	0.9						
2	24	1.6	0.9						
3	24	1.1	0.6						
4	24	0.8	0.5						
5	24	1.3	0.7						
6	24	0.6	0.3						
7	24	2.3	0.6						
8	24	1.9	0.8						
9	24	0.9	0.6						
10	24	1.2	0.4						
11	24	1.0	0.4						
12	24	1.9	0.9						
13	24	1.5	0.8						
14	24	1.4	0.8						
15	24	1.5	0.9						
16	24	2.1	1.0						
17	24	0.7	0.5						
18	24	1.0	0.8						
19	24	1.5	0.8						
20	24	1.0	0.6						
21	24	1.1	0.6						
22	24	1.1	0.6						
23	24	1.4	0.6						
24	24	1.0	0.5						
25	24	0.7	0.5						
26	24	1.0	0.6						
27	24	0.9	0.5						
28	24	1.4	0.7						
29	24	1.7	0.9						
30	24	1.9	0.8						
31	24	0.9	0.5						

STA 60204C STA STA

TOTAL NO. SAMPLES	744
MAXIMUM FOR MONTH	2.3
MONTHLY MEAN	0.7

MONTH OCTOBER 1971

LOCATION

WINDSOR

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	NO DATA AVAILABLE			11	1.4	0.5
2	24	1.3	0.9				12	1.0	0.5
3	24	1.2	0.2				12	0.7	0.2
4	24	0.9	0.4				12	0.6	0.3
5	24	1.0	0.5				12	0.6	0.3
6	24	0.7	0.3				12	0.3	0.1
7	24	0.6	0.2				12	0.4	0.2
8	24	1.4	0.5				11	0.8	0.3
9	24	0.6	0.4				12	0.4	0.2
10	24	1.3	0.5				12	0.6	0.2
11	24	0.6	0.3				12	0.3	0.1
12	24	0.9	0.4				9	0.8	0.3
13	24	1.2	0.7				12	0.7	0.4
14	24	1.5	1.1				12	1.2	0.8
15	24	1.8	1.2				12	2.2	0.9
16	24	1.4	0.9				12	1.8	0.8
17	24	0.7	0.3				12	0.5	0.3
18	24	1.4	1.0				12	1.1	0.7
19	24	1.5	0.8				12	1.6	1.0
20	24	2.5	1.3				12	3.0	1.6
21	24	2.6	1.3				12	3.3	1.3
22	24	1.9	1.2				11	1.5	0.9
23	24	1.1	0.5				12	1.2	0.5
24	24	0.5	0.3				12	0.5	0.2
25	24	1.0	0.5				12	1.3	0.5
26	24	1.1	0.5				12	0.7	0.3
27	24	1.3	0.8				12	1.0	0.6
28	24	1.3	0.7				12	1.4	0.7
29	24	1.2	0.6				11	1.6	0.7
30	24	1.7	0.9				12	1.6	0.8
31	24	1.4	0.5				12	0.5	0.3

STA 60401C STA 60402R STA 60403I

TOTAL NO. SAMPLES	744	365
MAXIMUM FOR MONTH	2.6	3.3
MONTHLY MEAN	0.7	0.5

MONTH OCTOBER 1971

LOCATION

TORONTO

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

STATION 60407C				STATION				STATION			
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN		NO. OF SAMP.	MAX	MEAN	
1	12	1.3	0.7								
2	12	1.0	0.5								
3	12	1.1	0.3								
4	12	0.9	0.4								
5	12	0.7	0.4								
6	12	0.9	0.3								
7	12	0.7	0.3								
8	12	0.9	0.3								
9	12	0.7	0.3								
10	12	1.1	0.4								
11	12	0.5	0.2								
12	12	0.4	0.2								
13	8	1.5	0.9								
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26	12	0.9	0.4								
27	12	1.1	0.7								
28	12	1.5	0.6								
29	12	2.6	0.7								
30	12	1.8	0.7								
31	12	1.6	0.5								

STA 60407C				STA	STA
TOTAL NO. SAMPLES				224	
MAXIMUM FOR MONTH				2.6	
MONTHLY MEAN				0.5	

MONTH OCTOBER 1971

LOCATION

TORONTO

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

STATION 60501C				STATION 60505R			STATION 60506I		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	24	3.0	1.1	12	1.6	0.9			
2	24	1.1	0.6						
3	24	1.5	0.8	12	0.6	0.1			
4	24	1.5	0.5	12	1.7	0.7			
5	24	1.3	0.5	12	1.9	1.2			
6	24	1.1	0.4	12	1.6	0.8			
7	24	1.6	0.6	12	1.0	0.4			
8	24	2.5	0.9	12	1.7	1.0			
9	24	2.6	0.7	12	1.1	0.6			
10	24	1.5	0.7	12	1.1	0.5			
11	24	0.6	0.4	12	1.1	0.5			
12	24	2.5	0.8	12	1.8	0.8			
13	24	4.0	2.0	12	1.1	0.5			
14	24	2.4	1.3	12	2.0	1.3		TEMPORARILY	
15	24	3.1	1.4	12	1.8	1.3			
16	24	2.9	2.0	12	1.3	0.5			
17	24	2.3	0.8	12	0.4	0.1		DISCONTINUED	
18	24	2.8	1.5	12	0.6	0.4			
19	24	2.5	1.4	12	0.8	0.6			
20	24	2.9	1.8	12	2.0	1.0			
21	24	4.3	2.5	12	1.4	0.8			
22	24	2.3	1.3	12	0.6	0.4			
23	24	2.1	1.0	12	0.6	0.2			
24	24	1.8	0.7	12	0.4	0.1			
25	24	1.9	0.8	12	1.8	0.5			
26	24	1.0	0.6	12	1.3	0.9			
27	24	1.8	0.8	12	1.7	0.9			
28	24	2.0	0.7	12	1.6	0.8			
29	24	2.3	1.1	12	0.5	0.2			
30	24	2.3	1.4	12	0.9	0.4			
31	24	1.3	0.7	12	0.8	0.5			

STA 60501C STA 60505R STA 60506I

TOTAL NO. SAMPLES	744	360
MAXIMUM FOR MONTH	4.3	2.0
MONTHLY MEAN	1.0	0.6

MONTH OCTOBER 1971

LOCATION

HAMILTON

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

STATION 60601C				STATION 60602R			STATION		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	0.7	0.2	24	0.7	0.4			
2	12	0.3	0.1	24	1.2	0.3			
3	12	0.3	0.1	24	0.7	0.3			
4	12	0.3	0.1	24	0.4	0.2			
5	12	0.5	0.2	24	0.5	0.2			
6	12	0.5	0.1	24	0.2	0.0			
7	12	0.6	0.3	24	0.8	0.2			
8	12	1.0	0.3	24	2.0	0.6			
9	12	0.6	0.2	24	0.8	0.4			
10	12	0.3	0.1	24	0.4	0.2			
11	12	0.3	0.1	24	0.2	0.1			
12	12	1.1	0.2	24	0.7	0.2			
13	12	0.9	0.4	24	1.7	0.9			
14	12	0.6	0.2	24	1.5	0.8			
15	12	0.7	0.4	24	1.6	0.8			
16	12	0.6	0.1	24	1.1	0.3			
17	12	0.3	0.1	24	0.5	0.3			
18	12	0.7	0.3	24	1.5	0.8			
19	12	0.5	0.3	24	1.6	0.8			
20	12	0.7	0.3	24	1.4	0.8			
21	12	0.6	0.4	24	1.5	0.8			
22	12	0.6	0.2	24	1.0	0.4			
23	12	0.5	0.1	24	0.4	0.2			
24	12	0.3	0.1	24	0.6	0.3			
25				24	0.5	0.3			
26				24	0.6	0.4			
27				24	0.7	0.5			
28				24	0.5	0.2			
29				24	0.7	0.3			
30				24	0.8	0.2			
31				24	0.8	0.3			

STA 60601C		STA 60602R	STA
TOTAL NO. SAMPLES	288	744	
MAXIMUM FOR MONTH	1.1	2.0	
MONTHLY MEAN	0.2	0.4	

MONTH OCTOBER 1971

LOCATION

SUDBURY

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

	STATION 60901C	STATION	STATION
DAY	NO. OF MAX MEAN SAMP.	NO. OF MAX MEAN SAMP.	NO. OF MAX MEAN SAMP.
1	12	1.1	0.5
2	12	1.2	0.5
3	12	1.0	0.4
4	12	0.4	0.1
5	12	0.5	0.3
6	12	0.3	0.1
7	12	0.4	0.1
8	12	0.3	0.1
9	12	0.2	0.1
10	12	0.2	0.1
11	12	0.3	0.1
12	12	0.2	0.1
13	12	0.4	0.1
14	12	0.2	0.1
15	11	0.3	0.2
16	12	0.4	0.1
17	12	0.2	0.1
18	12	0.2	0.1
19	12	0.2	0.1
20	12	0.2	0.1
21	12	0.3	0.1
22	12	0.4	0.1
23	12	0.2	0.1
24	12	0.3	0.1
25	12	0.2	0.1
26	12	0.2	0.1
27	12	0.2	0.1
28	11	0.2	0.1
29	12	0.4	0.1
30	12	0.2	0.1
31	12	0.2	0.1

STA 60901C STA STA

TOTAL NO. SAMPLES 370

MAXIMUM FOR MONTH 1.2

MONTHLY MEAN 0.1

MONTH OCTOBER 1971

LOCATION

LONDON

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

STATION 61001C				STATION			STATION		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF	MAX	MEAN	NO. OF	MAX	MEAN
1	12	1.2	0.5						
2	12	1.5	0.7						
3	12	1.1	0.3						
4	12	0.9	0.4						
5	12	1.3	0.4						
6	12	1.1	0.5						
7	12	0.7	0.3						
8	12	0.9	0.5						
9	12	1.1	0.5						
10	12	1.6	0.4						
11	12	0.7	0.3						
12	12	2.5	0.4						
13	12	0.9	0.4						
14	12	1.2	0.7						
15	12	1.6	0.8						
16	12	1.0	0.4						
17	12	0.9	0.4						
18	11	1.0	0.5						
19	12	0.8	0.3						
20	12	0.9	0.5						
21	12	0.8	0.4						
22	12	1.0	0.4						
23	12	0.7	0.3						
24	12	0.7	0.3						
25	11	0.7	0.2						
26	12	1.2	0.6						
27	12	1.0	0.5						
28	12	1.1	0.4						
29	12	1.0	0.6						
30	12	1.1	0.5						
31	12	0.9	0.4						

STA 61001C STA STA

TOTAL NO. SAMPLES	370
MAXIMUM FOR MONTH	2.5
MONTHLY MEAN	0.4

MONTH OCTOBER 1971

LOCATION

SARNIA

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

STATION 70101C				STATION				STATION			
DAY	NO. OF	MAX	MEAN	NO. OF	MAX	MEAN		NO. OF	MAX	MEAN	
	SAMP.			SAMP.				SAMP.			
1	12	0.5	0.3								
2	12	0.4	0.2								
3	12	0.3	0.2								
4	12	0.7	0.3								
5	12	0.8	0.4								
6	12	1.5	0.5								
7	12	0.6	0.3								
8	12	0.5	0.2								
9	12	0.7	0.3								
10	12	0.3	0.2								
11	12	1.2	0.4								
12	12	0.8	0.5								
13	12	0.6	0.3								
14	12	0.9	0.4								
15	12	0.9	0.4								
16	12	0.3	0.2								
17	12	0.5	0.2								
18	12	0.5	0.2								
19	12	0.6	0.3								
20	12	0.4	0.3								
21	7	1.0	0.4								
22											
23											
24											
25	3	0.5	0.4								
26	12	1.0	0.5								
27	10	1.0	0.5								
28	12	0.6	0.3								
29	12	1.3	0.4								
30	12	0.4	0.2								
31	12	0.4	0.2								

STA 70101C				STA	STA
TOTAL NO. SAMPLES				320	
MAXIMUM FOR MONTH				1.5	
MONTHLY MEAN				0.3	

MONTH OCTOBER 1971

LOCATION

WINNIPEG

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	0.4	0.2	12	1.1	0.4	12	0.9	0.3
2	12	0.5	0.2	12	1.2	0.6	12	0.3	0.1
3	12	0.3	0.2	12	1.1	0.3	12	0.8	0.3
4	12	0.4	0.2	12	1.8	0.4	12	0.7	0.2
5	12	1.0	0.3	12	2.2	0.7	12	0.7	0.2
6	12	0.8	0.2	12	1.6	0.5	12	0.5	0.2
7	12	0.5	0.1	12	1.4	0.3	12	0.8	0.2
8	12	0.5	0.2	12	1.9	0.8	12	0.6	0.2
9	12	0.6	0.1	12	0.6	0.3	12	0.8	0.4
10	12	0.5	0.2	12	0.4	0.1	12	0.4	0.2
11	12	0.3	0.1	12	0.4	0.2	12	0.3	0.1
12	12	0.5	0.2	12	0.8	0.4	12	0.5	0.2
13	12	0.3	0.1	12	0.5	0.2	12	0.3	0.1
14	12	0.5	0.2	12	0.5	0.2	12	0.3	0.1
15	12	0.4	0.2	12	0.5	0.2	12	0.3	0.1
16	12	0.4	0.2	12	0.6	0.1	12	0.3	0.1
17	12	0.3	0.1	12	0.3	0.1	12	0.3	0.1
18	12	0.8	0.2	12	1.0	0.3	12	0.6	0.2
19	12	0.3	0.2	12	0.6	0.3	12	0.3	0.2
20	12	0.4	0.2	12	1.3	0.3	12	0.5	0.2
21	12	0.3	0.2	12	1.0	0.4	12	0.8	0.2
22	12	1.2	0.4	12	1.5	0.8	12	1.2	0.4
23	12	1.4	0.7	12	1.1	0.5	12	1.4	0.5
24	12	0.2	0.1	12	0.6	0.2	12	0.5	0.2
25	12	0.4	0.2	12	0.8	0.3	12	0.5	0.2
26	12	0.5	0.1	12	0.3	0.2	12	0.3	0.1
27	12	0.3	0.1	12	0.3	0.1	12	0.3	0.1
28	12	1.0	0.2	12	0.3	0.2	12	0.2	0.1
29	12	0.8	0.3	12	0.4	0.2	12	0.3	0.2
30	12	0.5	0.2	12	0.3	0.1	12	0.8	0.3
31	12	0.3	0.1	12	0.3	0.0	12	0.5	0.1

	STA 90113C	STA 90115I	STA 90118R
TOTAL NO. SAMPLES	372	372	372
MAXIMUM FOR MONTH	1.4	2.2	1.4
MONTHLY MEAN	0.2	0.3	0.2
MONTH OCTOBER 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	1.2	0.5	12	0.6	0.2	12	0.8	0.4
2	12	0.6	0.2	12	0.6	0.2	12	0.6	0.2
3	12	0.3	0.2	12	0.2	0.1	12	0.7	0.3
4	11	0.7	0.3	12	0.5	0.1	12	0.6	0.3
5				12	0.3	0.1	12	1.0	0.4
6	6	0.5	0.2	12	0.3	0.1	12	1.5	0.6
7	12	1.8	0.5	12	0.4	0.2	12	1.0	0.5
8	12	1.6	0.6	12	0.6	0.2	12	1.2	0.5
9	12	0.6	0.2	12	0.4	0.2	12	1.4	0.5
10	12	1.3	0.3	12	0.4	0.2	12	0.6	0.4
11	12	0.6	0.2	12	0.3	0.1	12	0.5	0.3
12	12	1.5	0.5	12	0.4	0.2	12	1.2	0.4
13	12	1.4	0.6	12	0.6	0.2	12	1.0	0.5
14	12	0.7	0.2	12	0.4	0.1	12	0.8	0.3
15	12	0.5	0.2	12	0.3	0.1	12	0.5	0.2
16	12	0.4	0.1	12	0.4	0.1	12	0.3	0.1
17	12	0.7	0.2	12	0.7	0.2	12	0.8	0.3
18	12	0.8	0.3	12	0.8	0.1	12	1.5	0.7
19	12	0.9	0.4	12	0.3	0.1	12	0.9	0.2
20	12	0.8	0.3	12	0.3	0.1	12	0.8	0.3
21	12	1.6	0.6	12	0.8	0.2	12	1.6	0.7
22	12	1.6	0.5	12	0.3	0.1	12	1.3	0.4
23	12	0.5	0.3	12	0.3	0.2	12	0.8	0.3
24	12	0.5	0.1	12	0.4	0.1	12	0.2	0.1
25	12	1.4	0.4	12	0.6	0.2	12	1.4	0.4
26	12	0.7	0.2	12	0.5	0.2	12	0.5	0.3
27	12	0.6	0.1	12	0.5	0.2	12	0.3	0.2
28	12	0.6	0.3	12	0.3	0.2	12	0.8	0.3
29	12	1.4	0.4	12	0.7	0.3	12	0.8	0.3
30	12	1.3	0.2	12	0.5	0.1	12	0.5	0.2
31	12	0.7	0.2	12	0.4	0.2	12	0.7	0.2

STA 90204C STA 90216R STA 90218I

TOTAL NO. SAMPLES	353	372	372
MAXIMUM FOR MONTH	1.8	0.8	1.6
MONTHLY MEAN	0.3	0.2	0.3

MONTH OCTOBER 1971

LOCATION

CALGARY

Suspended Particulates and Lead

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 et le plomb

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 période 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

10101	C,F	ST. JOHN'S, DUCKWORTH AND ORDINANCE
20101	C,F	CHARLOTTETOWN, KENT AND QUEEN
30101	C,F	HALIFAX, N.S. TECHNICAL COLLEGE
30102	R,F	HALIFAX, DALHOUSIE UNIVERSITY
30304	R,F	SYDNEY, CITY HOSPITAL
40101	C,F	FREDERICTON, WOODSTOCK ROAD
40201	C,F	SAINT JOHN, 110 CHARLOTTE ST.
40301	C,F	MONCTON, POST OFFICE
50102	R,F	MONTREAL, BOTANICAL GARDENS
50103	R,F	MONTREAL, POINTE AUX TREMBLES
50105	C,F	MONTREAL, 1212 DRUMMOND
50106	R,F	MONTREAL, VILLE ST LAURENT
50107	R,F	MONTREAL, VILLE LASALLE
50201	C,F	HULL, RUE PRINCIPALE
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, KENNEDY ST. & YORK AVE.
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
80301	C,F	MOOSE JAW, TELEPHONE BLDG.
80401	C,F	PRINCE ALBERT, 49-12TH ST. EAST
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 AND ONTARIO
00105	I,F	VANCOUVER, 739 W. HASTINGS ST.
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)

DATE	STATION					
	10101C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	24	1.1				
13	34	0.3				
17	21	0.4				
28	47	0.8				
31	54	1.3				

NO. SAMPLES	5	5
MEAN	36	0.8
MAX.	54	1.3

MONTH OCTOBER 1971

LOCATION

ST. JOHN'S

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

DATE	STATION					
	20101C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	44	0.5				
13						
17	49	0.8				
28	34	0.3				
31	62	0.3				
NO. SAMPLES	4	4				
MEAN	47	0.5				
MAX.	62	0.8				

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

DATE	STATION					
	30101C		30102R			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6						
13						
17			116	1.1		
28			39	0.6		
31	45	0.3	48	0.4		

NO. SAMPLES	1	1	3	3
MEAN			68	0.7
MAX.			116	1.1

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

DATE	STATION					
	30304R					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	26	0.5				
13	23	0.3				
17	57	0.3				
28						
31	61	0.4				

NO. SAMPLES	4	4
MEAN	42	0.4
MAX.	61	0.5

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
6						
13	32	0.6				
17	29	0.6				
28						
31						
NO. SAMPLES	2	2				
MEAN	31	0.6				
MAX.	32	0.6				

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
6	33	0.2				
13						
17						
28	39	0.6				
31	26	0.3				
NO. SAMPLES	3	3				
MEAN	33	0.4				
MAX.	39	0.6				

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

DATE	STATION					
	40301C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	42	0.2				
13	35	0.4				
17	33	0.5				
28	60	0.7				
31	49	0.3				

NO. SAMPLES	5	5
MEAN	44	0.4
MAX.	60	0.7

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

DATE	STATION					
	50102R		50103R		50105C	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	95	1.1			95	1.6
13	117	2.3	92	2.1	123	1.8
17	159	4.9	60	0.4	129	2.0
28	135	2.3	121	0.9	126	1.8
31	75	0.7	81	0.4	93	1.2
NO. SAMPLES	5	5	4	4	5	5
MEAN	116	2.3	89	1.0	113	1.7
MAX.	159	4.9	121	2.1	129	2.0

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

DATE	STATION					
	50106R		50107R			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	80	1.8	87	0.8		
13	48	3.1	78	1.3		
17	67	0.7	69	0.7		
28	98	1.4	213	2.7		
31			103	0.5		
NO. SAMPLES	4	4	5	5		
MEAN	73	1.8	110	1.2		
MAX.	98	3.1	213	2.7		

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

DATE	STATION					
	50201C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	39	0.6				
13	127	1.7				
17	73	0.3				
28						
31						
NO. SAMPLES	3	3				
MEAN	80	0.9				
MAX.	127	1.7				

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

DATE	60101C		STATION			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	57	1.6				
13	105	2.5				
17	50	0.6				
28	106	2.3				
31						

NO. SAMPLES	4	4
MEAN	80	1.8
MAX.	106	2.5

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

DATE	STATION					
	60201I		60202C		60203R	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	128	0.7	95	1.2	44	0.6
13	141	0.9	154	1.7	94	2.6
17			110	1.1	80	0.5
28	155	1.0	146	2.1	77	0.8
31	78	0.5	126	0.7	86	0.6
NO. SAMPLES	4	4	5	5	5	5
MEAN	125	0.8	126	1.4	76	1.0
MAX.	155	1.0	154	2.1	94	2.6

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
6	35	0.3				
13	53	0.4				
17	37	0.4				
28	63	0.3				
31	49	0.3				

NO. SAMPLES	5	5
MEAN	47	0.3
MAX.	63	0.4

MONTH OCTOBER 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
1	240		120		137	
7	55		62		80	
13	152		79		121	
19	127		89		147	
31	110		92		97	
NO. SAMPLES	5		5		5	
MEAN	137		88		116	
MAX.	240		120		147	

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

		STATION				
DATE	60501C		60503R		60505R	
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
7	168				53	
15	324		NO DATA		221	
23	177		AVAILABLE		49	
31	168				162	
NO. SAMPLES	4				4	
MEAN	209				121	
MAX.	324				221	

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

DATE	STATION			
	60601C		60602R	
	T.P.	LEAD	T.P.	LEAD
4	NO DATA		57	
10			71	
16				
22	AVAILABLE		62	
28			93	

NO. SAMPLES	4
MEAN	71
MAX.	93

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
	NO DATA					
	AVAILABLE					

NO. SAMPLES

MEAN

MAX.

MONTH OCTOBER 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
7	85					
15	85					
23	70					
31	82					

NO. SAMPLES 4
MEAN 81
MAX. 85

MONTH OCTOBER 1971

LOCATION

THUNDER BAY

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

DATE	STATION			
	60901C		60902C	
	T.P.	LEAD	T.P.	LEAD
7	172		154	
15	127		161	
23	95		88	
31	165		129	
NO. SAMPLES	4		4	
MEAN	140		133	
MAX.	172		161	

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
10	68					
22	101					
28	111					

NO. SAMPLES	3
MEAN	93
MAX.	111

MONTH OCTOBER 1971

LOCATION

SARNIA

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

DATE	STATION					
	61101C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
19	64					
31	175					

NO. SAMPLES	2
MEAN	120
MAX.	175

MONTH OCTOBER 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
6	73	1.5	55	1.3	59	1.5
13	72	0.6	52	0.8	90	2.2
17	59	0.5	28	5.5	18	0.3
28	57	1.7	19	0.7	20	0.3
31	32	0.7	21	0.5	18	1.4
NO. SAMPLES	5	5	5	5	5	5
MEAN	59	1.0	35	1.8	41	1.2
MAX.	73	1.7	55	5.5	90	2.2

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

DATE	STATION					
	70104I					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	124	1.5				
13	86	0.2				
17	28	0.3				
28	66	0.7				
31	44	0.5				

NO. SAMPLES	5	5
MEAN	70	0.6
MAX.	124	1.5

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

DATE	STATION					
	80101C		80102R			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	75	0.6				
13			42	0.3		
17						
28	51	0.7	27	0.4		
31	42	0.4	19	0.3		
NO. SAMPLES	3	3	3	3		
MEAN	56	0.6	29	0.3		
MAX.	75	0.7	42	0.4		

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

DATE	STATION					
	80202C		80203R			
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	174	0.8	175	0.5		
13	75	0.8	52	0.1		
17						
28	64	0.7	24	0.1		
31	53	0.4	31	0.2		
NO. SAMPLES	4	4	4	4		
MEAN	91	0.7	71	0.3		
MAX.	174	0.8	175	0.5		

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

STATION						
DATE	80301C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	105	0.6				
13	21	0.2				
17	19	0.2				
28	34	0.4				
31	18	0.9				
NO. SAMPLES	5	5				
MEAN	39	0.5				
MAX.	105	0.9				

MONTH OCTOBER 1971

LOCATION

MOOSE JAW

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

DATE	STATION					
	80401C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	217	0.5				
13	85	0.6				
17						
28	94	0.5				
31	113	0.5				

NO. SAMPLES	4	4
MEAN	127	0.5
MAX.	217	0.6

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
6	72	0.6	70	0.3	78	0.4
13	48	0.4	106	0.6	45	0.4
17	43	0.4	78	0.2	37	0.3
28	73	0.5	282	0.3	44	0.2
31	29	0.3	178	0.4	46	0.3
NO. SAMPLES	5	5	5	5	5	5
MEAN	53	0.4	143	0.4	50	0.3
MAX.	73	0.6	282	0.6	78	0.4

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
6	207	0.9	107	0.5	142	1.5
13	76	1.0	27	0.8	63	1.8
17	61	0.6	60	1.3	89	1.3
28	87	1.9	40	0.6	113	1.9
31			52	1.0		
NO. SAMPLES	4	4	5	5	4	4
MEAN	108	1.1	57	0.8	102	1.6
MAX.	207	1.9	107	1.3	142	1.9

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

DATE	STATION					
	90301C					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	240	0.6				
13	41	0.7				
17						
28	26	0.3				
31	16	0.2				
NO. SAMPLES	4	4				
MEAN	81	0.5				
MAX.	240	0.7				

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
6	82	0.4				
13	31	0.5				
17						
28	64	0.7				
31	78	0.7				
NO. SAMPLES	4	4				
MEAN	64	0.6				
MAX.	82	0.7				

MONTH OCTOBER 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
6	61	0.7				
13	16	0.3				
17	21	0.2				
28						
31						
NO. SAMPLES	3	3				
MEAN	33	0.4				
MAX.	61	0.7				

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
6					111	1.9
13					49	0.3
17	NO	DATA	AVAILABLE			
28						
31						
NO. SAMPLES					2	2
MEAN					80	1.1
MAX.					111	1.9

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

STATION						
DATE	00105I					
	T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6	142	2.0				
13	47	1.2				
17						
28						
31						
NO. SAMPLES	2	2				
MEAN	94	1.6				
MAX.	142	2.0				

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

DATE	00201C	STATION					
		T.P.	LEAD	T.P.	LEAD	T.P.	LEAD
6							
13							
17							
28							
31							

NO. SAMPLES

MEAN

MAX.

MONTH OCTOBER 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
6					
13					
17					
28	89	2.8			
31	36	1.1			
NO. SAMPLES	2	2			
MEAN	63	2.0			
MAX.	89	2.8			

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 certains cas, pour répondre à un besoin particulier, l'échantillon est aussi 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-WELLINGTON
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 AND HENDERSON HWY.
70110	C	WINNIPEG, KENNEDY AND ST. MARY'S
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. AND 132 AVE.
90106	R*	EDMONTON, 54 ST. AND 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.
90201	I*	CALGARY, 6411 20TH ST., S.E.
90204	C*	CALGARY, 7 AVE. & 2 ST., S.E.
90205	R*	CALGARY, 32 AVE. AND 14 ST., S.W.
90206	R*	CALGARY, 62 CAMBRIDGE ROAD
90210	I*	CALGARY, 58 AVE. AND 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	9.0	5.7	3.3			1.4	0.7
30102R	6.6	4.2	2.5			0.5	0.4
30105R	5.8	3.2	2.6			0.5	0.4
30106R	7.8	4.7	3.1			1.4	0.2
30108C	7.6	5.9	1.7			0.6	0.7
30109R	5.5	2.3	3.2			1.4	0.1

TRACER CHLORIDE

MEAN	7.1	4.3	2.7			0.9	0.4
MAX.	9.0	5.9	3.3			1.4	0.7
MIN.	5.5	2.3	1.7			0.4	0.1

SUMMARY OF DUSTFALL AND SULFATION RATES
 RETOMBÉES DE POUSSIÈRES ET INDICES DE FORMATION DE SULFATE

STATION	DUSTFALL						SO3
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
30301R	14.9	6.2	8.7	9.2		1.5	
30302I	58.4	42.2	16.2	44.2		11.5	1.2
30305R	408.7	377.3	31.4	301.6		111.7	1.6
30309I	27.0	10.9	16.1	20.9		1.2	

TRACER IRON

MEAN	127.3	109.1	18.1	94.0		31.5	1.4
MAX.	408.7	377.3	31.4	301.6		111.7	1.6
MIN.	14.9	6.2	8.7	9.2		1.2	1.2

MONTH OCTOBER 1971

LOCATION

SYDNEY

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

DUSTFALL

STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
30401R	42.7	26.0	16.7	20.0		3.1	0.3
30403R	35.8	14.1	21.7	19.3		0.8	0.3
30406I	59.4	28.3	31.1	28.9		1.8	0.1

TRACER IRON

MEAN	46.0	22.8	23.1	22.7		1.9	0.2
MAX.	59.4	28.3	31.1	28.9		3.1	0.3
MIN.	35.8	14.1	16.7	19.3		0.8	0.1

MONTH OCTOBER 1971

LOCATION

GLACE BAY

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

STATION	DUSTFALL						SO3
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
50102R	24.0						1.7
50103R	19.0						2.0
50106R	24.0						1.3
50107R	23.0						0.8
MEAN	22.5						1.5
MAX.	24.0						2.0
MIN.	19.0						0.8

MONTH OCTOBER 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
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50201C	24.9	18.4	6.5	13.4	5.0		
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MEAN	24.9	18.4	6.5	13.4	5.0		
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MAX.

MIN.

MONTH OCTOBER 1971

LOCATION

HULL

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

STATION	DUSTFALL					SO3
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	
60101C	36.5	28.8	7.7	20.6	8.2	
60102R						
60103C	10.6	6.4	4.2	4.3	2.1	
MEAN	23.6	17.6	6.0	12.5	5.2	
MAX.	36.5	28.8	7.7	20.6	8.2	
MIN.	10.6	6.4	4.2	4.3	2.1	

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

STATION	DUSTFALL						SO ₃
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
60201I	6.5	2.0	4.5				
60202C	17.7	11.3	6.4				
60203R	5.3	1.8	3.5				
60206C	6.0	1.9	4.1				
60209R	8.0	4.1	3.9				
60210R	3.5	0.9	2.6				
MEAN	7.8	3.7	4.2				
MAX.	17.7	11.3	6.4				
MIN.	3.5	0.9	2.6				

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

STATION	DUSTFALL						SO ₃
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
60401C	14.4	9.3	5.1				0.7
60403I	10.5						0.5
60404R	3.3	1.3	2.0				0.4
60405I	24.1	15.9	8.2				0.6
60406R	12.8	3.7	9.1				0.4
60408C	13.4	7.3	6.1				0.3
MEAN	13.1	7.5	6.1				0.5
MAX.	24.1	15.9	9.1				0.7
MIN.	3.3	1.3	2.0				0.3

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

STATION	DUSTFALL						SO ₃
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
60501C	30.2	20.3	9.9				0.8
60502I	36.6	26.3	10.3				0.9
60503R	20.0	13.4	6.6				0.5
60504R	9.7	3.9	5.8				0.9
60507C	29.1	14.1	15.0				0.8
60508R	12.5	6.2	6.3				0.3
MEAN	23.0	14.0	9.0				0.7
MAX.	36.6	26.3	15.0				0.9
MIN.	9.7	3.9	5.8				0.3

MONTH OCTOBER 1971

LOCATION

HAMILTON

SUMMARY OF DUSTFALL AND SULFATION RATES
 RETOMBÉES DE POUSSIÈRES ET INDICES DE FORMATION DE SULFATE

STATION	DUSTFALL						SO ₃
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
60701C	6.8	2.1	4.7				0.2
60702R	3.0	2.1	0.9				0.1
60703I	23.2	13.6	9.6				0.5
MEAN	11.0	5.9	5.1				0.3
MAX.	23.2	13.6	9.6				0.5
MIN.	3.0	2.1	0.9				0.1

MONTH OCTOBER 1971

LOCATION SAULT STE. MARIE

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

STATION	DUSTFALL						SO3
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
60802C	20.2	10.6	9.6				0.0
60803R	19.3	6.3	13.0				0.1
60804R	26.7	9.4	17.3				0.1
MEAN	22.1	8.8	13.3				0.1
MAX.	26.7	10.6	17.3				0.1
MIN.	19.3	6.3	9.6				0.0

MONTH OCTOBER 1971

LOCATION

THUNDER BAY

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
60901C	6.9	3.9	3.0				0.4
MEAN	6.9	3.9	3.0				0.4
MAX.							
MIN.							

MONTH OCTOBER 1971

LOCATION

LONDON

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

DUSTFALL

STATION	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	SO3
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61001C							1.0
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61002R							0.7
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61003I							1.0
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MEAN							0.9
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MAX.							0.9
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MIN.							0.7
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MONTH OCTOBER 1971

LOCATION

SARNIA

SUMMARY OF DUSTFALL AND SULFATION RATES
 RETOMBÉES DE POUSSIÈRES ET INDICES DE FORMATION DE SULFATE

STATION	DUSTFALL					TRACER	SO ₃
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.		
70105R	24.4	13.8	10.6	16.3	8.1		
70110C	25.3	18.8	6.5	18.4	6.9		
70113I	16.2	8.5	7.7	10.4	5.8		
70115I	21.9	9.6	12.3	13.4	8.5		
70116C	41.0	31.9	9.1	32.4	8.6		
70117R	6.6	3.4	3.2	3.5	3.1		
MEAN	22.6	14.3	8.2	15.7	6.8		
MAX.	41.0	31.9	12.3	32.4	8.6		
MIN.	6.6	3.4	3.2	3.5	3.1		

MONTH OCTOBER 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	35.9			29.2	6.7		0.1
90105R							0.1
90106R	5.8			3.9	1.9		0.1
90112I	7.2			5.7	1.5		0.5
90119C	7.8			4.1	3.7		0.0
90120I	24.3			18.7	5.6		0.1
MEAN	16.2			12.3	3.9		0.1
MAX.	35.9			29.2	6.7		0.5
MIN.	5.8			3.9	1.5		0.0

MONTH OCTOBER 1971

LOCATION

EDMONTON

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

STATION	DUSTFALL						SO3
	TOTAL SOLIDS	INSOL.	SOL.	ASH	COMB.	TRACER	
90201I	18.4			15.0	3.4		0.3
90204C	14.7			11.6	3.1		0.1
90205R	4.9			3.2	1.7		0.2
90206R	8.1			5.8	2.3		0.1
90210I	17.9			14.9	3.0		0.2
90219C	14.6			10.9	3.7		0.2
MEAN	13.1			10.2	2.9		0.2
MAX.	18.4			15.0	3.7		0.3
MIN.	4.9			3.2	1.7		0.1

MONTH OCTOBER 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 (SO₂)

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

30101	C,F,COU	HALIFAX, N.S. TECHNICAL COLLEGE
40201	C,F,COU	SAINT JOHN, 110 CHARLOTTE ST.
50101	R,P,COU	MONTREAL, JARRY PARK
50102	R,P,COU	MONTREAL, BOTANICAL GARDENS
50103	R,P,COL	MONTREAL, POINTE AUX TREMBLES
50104	C,M,COL	MONTREAL, 1125 ONTARIO
50105	C,M,COL	MONTREAL, 1212 DRUMMOND
50107	R,P,COU	MONTREAL, VILLE LASALLE
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.
70101	C,P,CON	WINNIPEG, KENNEDY AND YORK AVE.

80108

C,F,COU

REGINA, 12TH AND SMITH

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

	STATION 30101C	STATION	STATION
DAY	NO. OF MAX MEAN SAMP.	NO. OF MAX MEAN SAMP.	NO. OF MAX MEAN SAMP.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13	NO DATA		
14			
15			
16	AVAILABLE		
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

STA 30101C STA STA

TOTAL NO. SAMPLES

MAXIMUM FOR MONTH

MONTHLY MEAN

MONTH OCTOBER 1971

LOCATION

HALIFAX

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

STATION 40201C				STATION			STATION		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	21	12	4						
2	22	4	2						
3	21	6	3						
4	22	4	2						
5	22	1	1						
6	21	1	1						
7	22	5	2						
8	21	8	2						
9	22	6	2						
10	22	2	1						
11	20	4	1						
12	22	7	2						
13	21	4	2						
14	22	10	3						
15	22	2	1						
16	21	6	3						
17	20	3	1						
18	12	3	2						
19									
20	11	10	3						
21	12	5	2						
22	17	2	1						
23	8	4	2						
24									
25	6	3	3						
26	21	20	5						
27	10	3	1						
28	21	3	1						
29	22	8	2						
30	22	10	4						
31	21	3	1						

STA 40201C STA STA

TOTAL NO. SAMPLES 547

MAXIMUM FOR MONTH 20

MONTHLY MEAN 2.0

MONTH OCTOBER 1971

LOCATION

SAINT JOHN

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

	STA 50101R	STA 50102R	STA 50103R
TOTAL NO. SAMPLES	602	740	82
MAXIMUM FOR MONTH	5	10	29
MONTHLY MEAN	1.8	2.1	5.8
MONTH OCTOBER 1971	LOCATION		MONTREAL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

STATION 50104C				STATION 50105C			STATION 50107R		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	12	11	3	12	13	5	24	1	1
2	12	2	1	12	4	3	24	2	1
3	12	1	1	12	3	2	24	2	2
4	12	6	2	12	18	4	24	2	1
5	12	4	2	12	2	1	24	2	1
6	12	10	4	12	3	2	24	2	1
7	12	2	2	12	7	5	24	2	1
8	12	9	3	12	9	6	24	1	0
9	12	9	4	12	7	4	24	2	1
10	12	4	2	12	2	1	24	2	1
11	12	2	1	12	6	4	24	2	1
12	12	6	2	12	9	6	24	3	2
13	12	13	7	12	14	9	24	3	2
14	12	19	9	12	16	10	24	3	2
15	12	11	5	12	11	6	24	3	2
16	12	9	3	12	11	5	24	2	1
17	12	9	3	12	6	4	24	2	1
18	12	9	4	11	7	3	24	2	2
19	11	12	4	12	4	2	24	3	1
20	12	19	7	12	23	7	24	3	2
21	12	13	6	12	11	5	24	2	1
22	12	13	6	12	7	5	24	2	1
23	12	4	2	12	6	3	24	2	1
24	12	2	2	11	5	4	24	3	2
25	12	14	4	12	13	4	24	3	2
26	12	14	5	12	15	7	24	3	2
27	12	5	3	12	4	3	24	4	2
28	9	7	2	12	4	2	24	4	2
29	11	9	4	5	7	5	24	3	2
30	12	5	2	12	7	5	24	3	2
31	12	3	2	12	8	3	24	3	2

	STA 50104C	STA 50105C	STA 50107R
TOTAL NO. SAMPLES	367	363	744
MAXIMUM FOR MONTH	19	23	4
MONTHLY MEAN	3.6	4.3	1.5

MONTH OCTOBER 1971

LOCATION

MONTREAL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

	STATION 50201C		STATION		STATION
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX MEAN
1	17	4	1		
2	21	1	0		
3	22	6	1		
4	12	7	3		
5					
6					
7	12	0	0		
8	7	0	0		
9					
10					
11					
12	12	2	1		
13	22	4	2		
14	18	5	2		
15	21	2	1		
16	22	3	0		
17	21	5	2		
18	21	3	1		
19	21	7	2		
20	21	2	1		
21	22	9	3		
22	21	8	3		
23	21	5	2		
24	22	9	2		
25	21	4	2		
26	21	2	1		
27	20	1	1		
28	8	1	1		
29	8	1	1		
30	11	2	1		
31					

STA 50201C STA STA

TOTAL NO. SAMPLES 445

MAXIMUM FOR MONTH 9

MONTHLY MEAN 1.4

MONTH OCTOBER 1971

LOCATION

HULL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

	STA 60101C	STA	STA
TOTAL NO. SAMPLES	730		
MAXIMUM FOR MONTH	20		
MONTHLY MEAN	0.9		

MONTH OCTOBER 1971

LOCATION

OTTAWA

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

STA 60201I STA 60204C STA

TOTAL NO. SAMPLES	487	744
MAXIMUM FOR MONTH	16	37
MONTHLY MEAN	1.8	3.5

MONTH OCTOBER 1971

LOCATION

WINDSOR

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

	STA 60401C	STA 60402R	STA 60403I
TOTAL NO. SAMPLES	744		160
MAXIMUM FOR MONTH	14		20
MONTHLY MEAN	2.9		2.3

MONTH OCTOBER 1971

LOCATION

TORONTO

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

STA 60407C STA STA

TOTAL NO. SAMPLES

MAXIMUM FOR MONTH

MONTHLY MEAN

MONTH OCTOBER 1971

LOCATION

TORONTO

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

STA 60501C STA 60505R STA 60506I

TOTAL NO. SAMPLES	744	739
MAXIMUM FOR MONTH	19	9
MONTHLY MEAN	2.9	1.0

MONTH OCTOBER 1971

LOCATION

HAMILTON

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

STATION 60602R				STATION 60603R				STATION			
DAY	NO. OF	MAX	MEAN	NO. OF	MAX	MEAN		NO. OF	MAX	MEAN	
	SAMP.			SAMP.				SAMP.			
1	24	5	1								
2	24	21	5								
3	24	19	3								
4	24	108	33								
5	24	51	11								
6	24	9	1								
7	24	2	1								
8	24	5	2								
9	24	12	4								
10	24	41	8								
11	24	5	1								
12	24	16	3								
13	24	7	3								
14	24	4	1								
15	24	77	12								
16	24	45	4								
17	24	21	3								
18	24	4	3								
19	24	3	2								
20	24	32	3								
21	24	3	2								
22	24	6	1								
23	24	28	3								
24	24	32	9								
25	24	33	12								
26	24	7	4								
27	24	9	6								
28	24	112	18								
29	24	25	6								
30	24	39	6								
31	24	87	11								

STA 60602R STA 60603R STA

TOTAL NO. SAMPLES	744
MAXIMUM FOR MONTH	112
MONTHLY MEAN	5.8

MONTH OCTOBER 1971

LOCATION

SUDBURY

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

DAY	STATION 60901C		STATION		STATION	
	NO. OF SAMP.	MAX MEAN	NO. OF SAMP.	MAX MEAN	NO. OF SAMP.	MAX MEAN
1						
2						
3						
4						
5						
6						
7	9	4	3			
8	24	5	3			
9	24	5	4			
10	12	4	3			
11	24	2	1			
12	24	1	0			
13	24	0	0			
14	23	2	1			
15	23	2	1			
16	24	1	1			
17	24	1	0			
18	24	1	0			
19	24	1	0			
20	24	1	1			
21	11	0	0			
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

	STA 60901C	STA	STA
TOTAL NO. SAMPLES	318		
MAXIMUM FOR MONTH	5		
MONTHLY MEAN	1.0		

MONTH OCTOBER 1971

LOCATION

LONDON

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

STATION 61001C				STATION			STATION		
DAY	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN	NO. OF SAMP.	MAX	MEAN
1	20	35	8						
2	24	44	13						
3	24	8	4						
4	23	7	1						
5	24	5	1						
6	24	2	0						
7	24	1	0						
8	24	14	4						
9	24	5	2						
10	24	2	0						
11	24	7	1						
12	22	1	0						
13	24	4	1						
14	22	27	5						
15	24	59	14						
16	24	1	1						
17	24	2	1						
18	11	5	1						
19	24	5	2						
20	22	13	2						
21	24	23	3						
22	24	6	1						
23	24	1	0						
24	24	1	0						
25	24	1	0						
26	24	15	6						
27	23	26	6						
28	24	9	2						
29	24	3	1						
30	24	20	5						
31	24	13	4						

STA 61001C STA STA

TOTAL NO. SAMPLES	719
MAXIMUM FOR MONTH	59
MONTHLY MEAN	2.9

MONTH OCTOBER 1971

LOCATION

SARNIA

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

	STATION 70101C	STATION	STATION
DAY	NO. OF MAX MEAN SAMP.	NO. OF MAX MEAN SAMP.	NO. OF MAX MEAN SAMP.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13	13	1	0
14	24	1	0
15	24	1	0
16	24	1	0
17	24	1	0
18	24	1	0
19	21	1	0
20	24	2	1
21	24	2	1
22	24	1	1
23	24	1	0
24	24	0	0
25	24	1	0
26	24	2	0
27	21	2	0
28	7	1	0
29	24	1	1
30	24	1	0
31	24	2	0

	STA 70101C	STA	STA
TOTAL NO. SAMPLES	422		
MAXIMUM FOR MONTH	2		
MONTHLY MEAN	0.3		

MONTH OCTOBER 1971

LOCATION

WINNIPEG

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

STATION 80108C				STATION				STATION			
DAY	NO. OF	MAX	MEAN	NO. OF	MAX	MEAN		NO. OF	MAX	MEAN	
	SAMP.			SAMP.				SAMP.			
1	24	0	0								
2	24	0	0								
3	24	0	0								
4	24	0	0								
5	24	2	0								
6	23	1	0								
7	24	0	0								
8	24	0	0								
9	23	0	0								
10	24	0	0								
11	24	0	0								
12	14	0	0								
13											
14											
15	8	0	0								
16	24	0	0								
17	24	1	0								
18	16	0	0								
19	5	0	0								
20	24	0	0								
21	11	0	0								
22											
23											
24											
25	9	0	0								
26	9	0	0								
27	22	0	0								
28											
29	7	0	0								
30	24	0	0								
31	6	0	0								

STA 80108C STA STA

TOTAL NO. SAMPLES 465

MAXIMUM FOR MONTH 2

MONTHLY MEAN 0.0

MONTH OCTOBER 1971

LOCATION

REGINA