

NATIONAL AIR POLLUTION SURVEILLANCE

MONTHLY SUMMARY

FOR

NOVEMBER 1970

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

July 1971

SURVEILLANCE NATIONALE DE LA POLLUTION ATMOSPHERIQUE

SOMMAIRE MENSUEL

DE

NOVEMBRE 1970

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

Juillet 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 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 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.

TABLE OF CONTENTS

| | <u>Page</u> |
|--|-------------|
| Cooperating Agencies | 1 |
| The National Air Pollution Surveillance Network | 3 |
| Explanatory Note | 5 |
| Soiling Index | 9 |
| Suspended Particulates | 21 |
| Dustfall and Sulphation Rate | 49 |
| Sulphur Dioxide | 65 |

TABLE DES MATIÈRES

| | <u>Page</u> |
|---|-------------|
| Organismes collaborateurs | 2 |
| Le réseau national de surveillance de la pollution atmosphérique | 3 |
| Note explicative | 7 |
| Indice de souillure | 9 |
| Particules en suspension | 21 |
| Retombées de poussières et indice de formation de sulfate | 50 |
| Anhydride sulfureux | 65 |

Cooperating Agencies

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

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

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

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

Environmental 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.

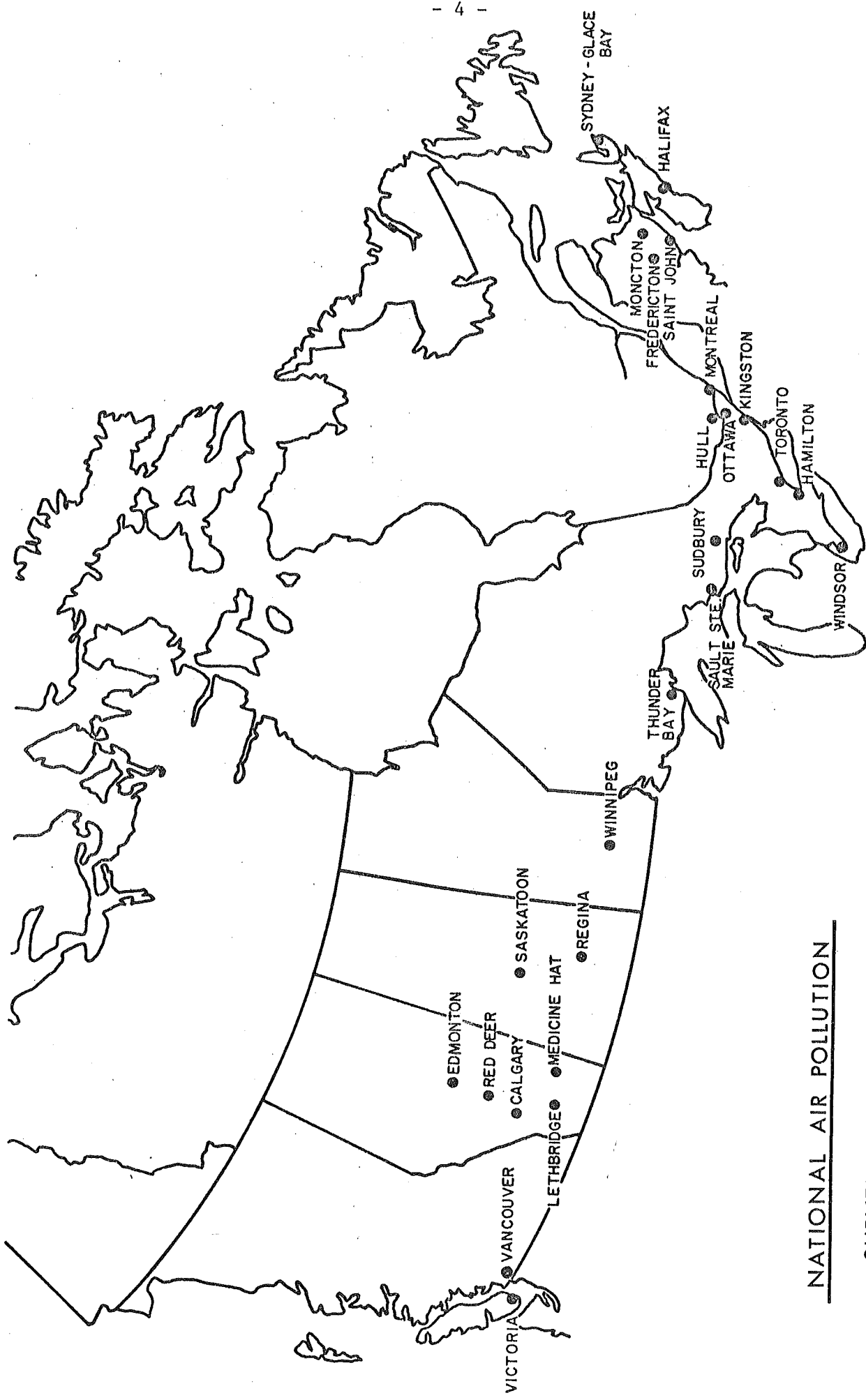
The National Air Pollution
Surveillance Network

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



NATIONAL AIR POLLUTION
SURVEILLANCE NETWORK
(November, 1970)

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, 1970, the program consisted of 128 sampling instruments in twenty cities across seven 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 janvier 1970, le programme comportait 128 instruments d'échantillonnage dans 20 villes de 7 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 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 m μ 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 m μ . 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 |
| 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 |
| 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 | | | STATION 30306R | | | STATION | | |
|-----|----------------|-----|------|----------------|-----|------|--------------|-----|------|
| | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN |
| 1 | | | | 12 | 1.4 | 1.0 | | | |
| 2 | | | | 12 | 2.0 | 1.0 | | | |
| 3 | | | | 12 | 2.1 | 0.7 | | | |
| 4 | | | | 12 | 1.3 | 0.6 | | | |
| 5 | 7 | 1.3 | 0.6 | 12 | 2.6 | 0.6 | | | |
| 6 | 12 | 1.4 | 0.6 | 12 | 1.8 | 0.8 | | | |
| 7 | 12 | 2.2 | 1.1 | 12 | 1.2 | 0.6 | | | |
| 8 | 12 | 2.2 | 0.6 | 12 | 2.3 | 1.1 | | | |
| 9 | 12 | 1.8 | 0.9 | 12 | 4.0 | 2.0 | | | |
| 10 | 12 | 3.5 | 1.4 | 12 | 5.0 | 2.0 | | | |
| 11 | 12 | 2.4 | 1.0 | 12 | 2.9 | 1.3 | | | |
| 12 | 12 | 0.6 | 0.3 | 12 | 1.4 | 0.7 | | | |
| 13 | 12 | 0.9 | 0.7 | 12 | 1.5 | 1.0 | | | |
| 14 | 12 | 1.0 | 0.4 | 12 | 0.8 | 0.4 | | | |
| 15 | 12 | 1.0 | 0.3 | 12 | 0.6 | 0.4 | | | |
| 16 | 12 | 1.3 | 0.5 | 12 | 1.8 | 1.0 | | | |
| 17 | 12 | 0.7 | 0.3 | 12 | 1.5 | 0.9 | | | |
| 18 | 12 | 1.3 | 0.7 | 12 | 1.7 | 0.8 | | | |
| 19 | 12 | 2.0 | 1.0 | 12 | 2.2 | 1.4 | | | |
| 20 | 12 | 1.6 | 0.9 | 12 | 3.0 | 1.3 | | | |
| 21 | 12 | 1.0 | 0.5 | 12 | 3.3 | 1.0 | | | |
| 22 | 12 | 0.8 | 0.4 | 12 | 1.7 | 0.8 | | | |
| 23 | 12 | 1.7 | 1.0 | 12 | 1.3 | 0.8 | | | |
| 24 | 12 | 1.8 | 1.1 | 12 | 1.0 | 0.5 | | | |
| 25 | 12 | 0.9 | 0.6 | 12 | 1.7 | 0.9 | | | |
| 26 | 12 | 0.7 | 0.3 | 12 | 1.2 | 0.8 | | | |
| 27 | 12 | 1.0 | 0.6 | 12 | 1.6 | 0.8 | | | |
| 28 | 12 | 1.4 | 0.8 | 12 | 1.6 | 1.0 | | | |
| 29 | 12 | 1.0 | 0.6 | 12 | 1.6 | 0.9 | | | |
| 30 | 12 | 1.0 | 0.8 | 12 | 1.0 | 0.7 | | | |

STA 30304R STA 30306R STA

| | | |
|-------------------|-----|-----|
| TOTAL NO. SAMPLES | 307 | 360 |
| MAXIMUM FOR MONTH | 3.5 | 5.0 |
| MONTHLY MEAN | 0.7 | 0.9 |

MONTH NOVEMBER 1970

LOCATION

SYDNEY

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

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

STA 30403R STA 30406I STA

| | | |
|-------------------|-----|-----|
| TOTAL NO. SAMPLES | 319 | 360 |
| MAXIMUM FOR MONTH | 1.7 | 1.7 |
| MONTHLY MEAN | 0.2 | 0.3 |

MONTH NOVEMBER 1970

LOCATION

GLACE BAY

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

| DAY | STATION 50101R | | | STATION 50102R | | | STATION 50103R | | |
|-----|----------------|-----|------|----------------|-----|------|----------------|-----|------|
| | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN |
| 1 | | | | 12 | 0.6 | 0.4 | 12 | 1.4 | 0.7 |
| 2 | | | | | | | 12 | 0.8 | 0.5 |
| 3 | | | | | | | 12 | 2.0 | 0.5 |
| 4 | | | | | | | 12 | 2.6 | 1.2 |
| 5 | 8 | 0.5 | 0.4 | | | | 12 | 1.2 | 0.4 |
| 6 | 12 | 0.7 | 0.4 | | | | 12 | 0.7 | 0.1 |
| 7 | 12 | 0.6 | 0.4 | | | | 12 | 0.5 | 0.2 |
| 8 | 12 | 2.0 | 1.1 | | | | 12 | 1.2 | 0.6 |
| 9 | 12 | 1.6 | 1.1 | | | | 12 | 1.0 | 0.6 |
| 10 | 12 | 1.0 | 0.5 | | | | 12 | 0.7 | 0.4 |
| 11 | 12 | 0.8 | 0.5 | 3 | 0.9 | 0.7 | 12 | 0.8 | 0.4 |
| 12 | 12 | 0.8 | 0.4 | 12 | 0.7 | 0.5 | 12 | 0.5 | 0.2 |
| 13 | 12 | 0.8 | 0.4 | 12 | 0.7 | 0.4 | 12 | 0.2 | 0.1 |
| 14 | 12 | 0.4 | 0.2 | 12 | 0.8 | 0.4 | 12 | 0.2 | 0.0 |
| 15 | 12 | 0.7 | 0.4 | 12 | 0.8 | 0.5 | 12 | 0.2 | 0.1 |
| 16 | 12 | 0.5 | 0.3 | 12 | 0.8 | 0.5 | 12 | 0.2 | 0.1 |
| 17 | 12 | 0.7 | 0.5 | 12 | 0.8 | 0.5 | 12 | 0.3 | 0.2 |
| 18 | 12 | 0.8 | 0.6 | 12 | 0.5 | 0.3 | 12 | 0.5 | 0.2 |
| 19 | 12 | 1.4 | 0.7 | 12 | 0.7 | 0.4 | 12 | 0.5 | 0.3 |
| 20 | 12 | 0.9 | 0.5 | 12 | 0.6 | 0.4 | 12 | 0.5 | 0.2 |
| 21 | 12 | 0.5 | 0.3 | 12 | 0.6 | 0.4 | 12 | 0.5 | 0.2 |
| 22 | 12 | 0.7 | 0.5 | 12 | 0.8 | 0.5 | 12 | 0.5 | 0.2 |
| 23 | 12 | 0.8 | 0.4 | 12 | 0.7 | 0.4 | 12 | 0.5 | 0.2 |
| 24 | 12 | 1.0 | 0.7 | 12 | 0.7 | 0.5 | 12 | 0.7 | 0.3 |
| 25 | 12 | 0.9 | 0.6 | 12 | 0.8 | 0.5 | 12 | 0.8 | 0.4 |
| 26 | 12 | 1.1 | 0.6 | 12 | 0.9 | 0.5 | 12 | 0.8 | 0.4 |
| 27 | 12 | 2.0 | 1.3 | 12 | 1.5 | 1.0 | 12 | 0.8 | 0.5 |
| 28 | 12 | 0.9 | 0.7 | 12 | 1.0 | 0.6 | 12 | 0.8 | 0.4 |
| 29 | 12 | 0.7 | 0.5 | 12 | 0.5 | 0.3 | 12 | 0.3 | 0.1 |
| 30 | 12 | 0.8 | 0.5 | 12 | 1.0 | 0.6 | 12 | 1.2 | 0.3 |

| | STA 50101R | STA 50102R | STA 50103R |
|-------------------|------------|------------|------------|
| TOTAL NO. SAMPLES | 308 | 243 | 360 |
| MAXIMUM FOR MONTH | 2.0 | 1.5 | 2.6 |
| MONTHLY MEAN | 0.6 | 0.5 | 0.3 |
| MONTH | NOVEMBER | 1970 | LOCATION |
| | | | MONTREAL |

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

| DAY | STATION 50104C | | | STATION 50105C | | | STATION | | |
|-----|----------------|-----|------|----------------|-----|------|--------------|-----|------|
| | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN |
| 1 | 12 | 1.0 | 0.7 | 12 | 1.7 | 1.0 | | | |
| 2 | 12 | 1.5 | 1.1 | 12 | 2.2 | 1.4 | | | |
| 3 | 12 | 2.3 | 0.9 | 12 | 1.4 | 0.9 | | | |
| 4 | 12 | 2.8 | 2.2 | 12 | 2.2 | 1.6 | | | |
| 5 | 12 | 2.0 | 1.1 | 12 | 1.5 | 0.9 | | | |
| 6 | 12 | 1.5 | 0.7 | 12 | 1.0 | 0.8 | | | |
| 7 | 12 | 1.1 | 0.8 | 12 | 5.0 | 1.7 | | | |
| 8 | 12 | 2.0 | 0.8 | 12 | 1.3 | 0.7 | | | |
| 9 | 12 | 2.2 | 1.3 | 12 | 1.7 | 1.2 | | | |
| 10 | 12 | 1.0 | 0.7 | 12 | 1.3 | 0.9 | | | |
| 11 | 12 | 1.2 | 0.8 | 12 | 1.3 | 0.9 | | | |
| 12 | 12 | 1.0 | 0.6 | 12 | 1.5 | 0.8 | | | |
| 13 | 12 | 1.1 | 0.7 | 12 | 1.5 | 1.1 | | | |
| 14 | 12 | 0.8 | 0.5 | 12 | 1.2 | 0.7 | | | |
| 15 | 12 | 1.3 | 0.8 | 12 | 1.9 | 1.0 | | | |
| 16 | 12 | 1.2 | 0.8 | 12 | 3.2 | 1.1 | | | |
| 17 | 12 | 1.4 | 0.9 | 12 | 2.2 | 1.0 | | | |
| 18 | 12 | 1.4 | 1.0 | 12 | 1.2 | 1.0 | | | |
| 19 | 12 | 1.4 | 1.0 | 12 | 1.3 | 0.9 | | | |
| 20 | 12 | 1.2 | 0.8 | 12 | 1.0 | 0.8 | | | |
| 21 | 12 | 1.1 | 0.6 | 12 | 0.9 | 0.7 | | | |
| 22 | 12 | 1.4 | 0.8 | 12 | 1.4 | 0.7 | | | |
| 23 | 12 | 0.9 | 0.5 | 12 | 1.4 | 0.9 | | | |
| 24 | 12 | 1.1 | 0.7 | 12 | 2.0 | 1.1 | | | |
| 25 | 12 | 2.3 | 1.1 | 6 | 2.2 | 1.6 | | | |
| 26 | 12 | 1.9 | 1.2 | 12 | 1.5 | 1.0 | | | |
| 27 | 12 | 2.6 | 2.0 | 12 | 2.8 | 2.0 | | | |
| 28 | 12 | 1.3 | 0.9 | 12 | 2.0 | 1.2 | | | |
| 29 | 12 | 1.1 | 0.7 | 12 | 1.0 | 0.7 | | | |
| 30 | 12 | 1.8 | 1.1 | 12 | 1.0 | 0.7 | | | |

STA 50104C STA 50105C STA

| | | |
|-------------------|-----|-----|
| TOTAL NO. SAMPLES | 360 | 354 |
| MAXIMUM FOR MONTH | 2.8 | 5.0 |
| MONTHLY MEAN | 0.9 | 1.0 |

MONTH NOVEMBER 1970

LOCATION

MONTREAL

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

| DAY | STATION 50201C | | | STATION | | | STATION | | |
|-----|-----------------|-----|------|-----------------|-----|------|-----------------|-----|------|
| | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN |
| 1 | 12 | 1.2 | 0.9 | | | | | | |
| 2 | 12 | 1.3 | 0.9 | | | | | | |
| 3 | 12 | 1.7 | 0.7 | | | | | | |
| 4 | 12 | 1.1 | 0.6 | | | | | | |
| 5 | 12 | 0.4 | 0.2 | | | | | | |
| 6 | 12 | 0.5 | 0.1 | | | | | | |
| 7 | 12 | 2.0 | 0.4 | | | | | | |
| 8 | 12 | 2.3 | 1.1 | | | | | | |
| 9 | 12 | 2.6 | 1.3 | | | | | | |
| 10 | 12 | 1.8 | 1.1 | | | | | | |
| 11 | 12 | 3.0 | 1.2 | | | | | | |
| 12 | 12 | 1.4 | 0.6 | | | | | | |
| 13 | 12 | 0.4 | 0.3 | | | | | | |
| 14 | 12 | 1.0 | 0.6 | | | | | | |
| 15 | 12 | 0.6 | 0.4 | | | | | | |
| 16 | 12 | 0.2 | 0.1 | | | | | | |
| 17 | 12 | 0.9 | 0.4 | | | | | | |
| 18 | 12 | 3.5 | 0.8 | | | | | | |
| 19 | 12 | 2.2 | 1.5 | | | | | | |
| 20 | 12 | 1.5 | 0.5 | | | | | | |
| 21 | 12 | 0.2 | 0.1 | | | | | | |
| 22 | 12 | 0.3 | 0.2 | | | | | | |
| 23 | 12 | 0.2 | 0.1 | | | | | | |
| 24 | 12 | 0.4 | 0.1 | | | | | | |
| 25 | 12 | 0.4 | 0.2 | | | | | | |
| 26 | 12 | 0.9 | 0.4 | | | | | | |
| 27 | 12 | 1.0 | 0.7 | | | | | | |
| 28 | 12 | 1.1 | 0.6 | | | | | | |
| 29 | 12 | 0.8 | 0.4 | | | | | | |
| 30 | 12 | 0.4 | 0.3 | | | | | | |

| | STA 50201C | STA | STA |
|-------------------|------------|-----|-----|
| TOTAL NO. SAMPLES | 360 | | |
| MAXIMUM FOR MONTH | 3.5 | | |
| MONTHLY MEAN | 0.6 | | |

MONTH NOVEMBER 1970 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 | 0.7 0.4 | 12 | 0.1 0.0 | 12 | 0.6 0.4 |
| 2 | 12 | 0.9 0.4 | 12 | 0.3 0.1 | 12 | 0.7 0.4 |
| 3 | 12 | 1.0 0.3 | 12 | 0.3 0.1 | 12 | 1.0 0.4 |
| 4 | 12 | 1.3 0.4 | 12 | 0.3 0.1 | 12 | 0.8 0.3 |
| 5 | 12 | 1.0 0.2 | 12 | 0.1 0.0 | 12 | 0.2 0.1 |
| 6 | 12 | 0.8 0.4 | 12 | 0.1 0.0 | 12 | 0.3 0.2 |
| 7 | 12 | 0.6 0.3 | 12 | 0.3 0.1 | 12 | 0.7 0.2 |
| 8 | 12 | 0.9 0.4 | 12 | 0.4 0.1 | 12 | 1.5 0.5 |
| 9 | 12 | 0.8 0.5 | 12 | 0.2 0.1 | 12 | 0.7 0.5 |
| 10 | 12 | 1.6 0.8 | 12 | 0.3 0.1 | 12 | 1.1 0.5 |
| 11 | 12 | 1.6 0.6 | 12 | 0.3 0.1 | 12 | 0.9 0.4 |
| 12 | 12 | 0.7 0.3 | 12 | 0.2 0.0 | 12 | 0.7 0.3 |
| 13 | 12 | 0.5 0.2 | 12 | 0.2 0.0 | 12 | 0.1 0.1 |
| 14 | 12 | 0.3 0.1 | 12 | 0.2 0.0 | 12 | 0.3 0.1 |
| 15 | 12 | 0.2 0.1 | 12 | 0.1 0.0 | 12 | 0.4 0.1 |
| 16 | 12 | 0.7 0.4 | 12 | 0.1 0.0 | 12 | 0.4 0.3 |
| 17 | 12 | 1.0 0.4 | 12 | 0.2 0.1 | 12 | 0.5 0.3 |
| 18 | 12 | 0.6 0.2 | 12 | 0.0 0.0 | 12 | 0.5 0.2 |
| 19 | 12 | 1.9 0.9 | 12 | 0.3 0.2 | 12 | 1.2 0.8 |
| 20 | 12 | 0.9 0.3 | 12 | 0.3 0.1 | 12 | 0.5 0.3 |
| 21 | 12 | 0.4 0.2 | 12 | 0.1 0.0 | 12 | 1.7 0.3 |
| 22 | 12 | 0.8 0.2 | 10 | 0.2 0.0 | 12 | 0.3 0.2 |
| 23 | 12 | 0.5 0.2 | | | 12 | 0.4 0.2 |
| 24 | 12 | 1.9 0.7 | | | 12 | 0.6 0.2 |
| 25 | 12 | 0.7 0.3 | | | 12 | 0.6 0.3 |
| 26 | 12 | 1.1 0.4 | | | 12 | 0.7 0.4 |
| 27 | 12 | 0.8 0.6 | 5 | 0.3 0.1 | 12 | 1.1 0.7 |
| 28 | 12 | 0.3 0.1 | 12 | 0.4 0.1 | 12 | 0.8 0.4 |
| 29 | 12 | 0.6 0.1 | 12 | 0.2 0.1 | 12 | 0.6 0.2 |
| 30 | 12 | 0.5 0.2 | 12 | 0.3 0.1 | 12 | 0.4 0.2 |

STA 60101C STA 60102R STA 60103C

| | | | |
|-------------------|-----|-----|-----|
| TOTAL NO. SAMPLES | 360 | 303 | 360 |
| MAXIMUM FOR MONTH | 1.9 | 0.4 | 1.7 |
| MONTHLY MEAN | 0.4 | 0.1 | 0.3 |

MONTH NOVEMBER 1970

LOCATION

OTTAWA

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

| DAY | STATION 60401C | | | STATION | | | STATION | | |
|-----|----------------|-----|------|--------------|-----|------|--------------|-----|------|
| | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN |
| 1 | 24 | 1.5 | 0.6 | | | | | | |
| 2 | 24 | 1.1 | 0.6 | | | | | | |
| 3 | 24 | 1.6 | 0.5 | | | | | | |
| 4 | 24 | 1.3 | 0.5 | | | | | | |
| 5 | 24 | 1.3 | 0.6 | | | | | | |
| 6 | 24 | 1.1 | 0.6 | | | | | | |
| 7 | 18 | 0.6 | 0.6 | | | | | | |
| 8 | 24 | 1.8 | 0.4 | | | | | | |
| 9 | 24 | 2.0 | 1.0 | | | | | | |
| 10 | 24 | 2.0 | 0.9 | | | | | | |
| 11 | 24 | 2.1 | 1.0 | | | | | | |
| 12 | 24 | 1.1 | 0.4 | | | | | | |
| 13 | 24 | 0.8 | 0.3 | | | | | | |
| 14 | 24 | 2.1 | 0.4 | | | | | | |
| 15 | 24 | 0.8 | 0.3 | | | | | | |
| 16 | 24 | 0.8 | 0.4 | | | | | | |
| 17 | 24 | 1.4 | 0.7 | | | | | | |
| 18 | 24 | 2.2 | 0.8 | | | | | | |
| 19 | 24 | 2.1 | 1.1 | | | | | | |
| 20 | 24 | 1.0 | 0.5 | | | | | | |
| 21 | 24 | 0.6 | 0.2 | | | | | | |
| 22 | 24 | 0.7 | 0.4 | | | | | | |
| 23 | 19 | 1.0 | 0.4 | | | | | | |
| 24 | 24 | 0.5 | 0.4 | | | | | | |
| 25 | 24 | 0.8 | 0.5 | | | | | | |
| 26 | 24 | 1.7 | 1.1 | | | | | | |
| 27 | 24 | 2.2 | 1.2 | | | | | | |
| 28 | 24 | 1.3 | 0.6 | | | | | | |
| 29 | 24 | 1.9 | 0.5 | | | | | | |
| 30 | 17 | 1.1 | 0.6 | | | | | | |

| | STA 60401C | STA | STA |
|-------------------|------------|-----|-----|
| TOTAL NO. SAMPLES | 702 | | |
| MAXIMUM FOR MONTH | 2.2 | | |
| MONTHLY MEAN | 0.6 | | |

MONTH NOVEMBER 1970

LOCATION

TORONTO

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 | 0.3 | 0.1 |
| 2 | 6 | 1.2 | 0.7 | 12 | 0.7 | 0.2 | 12 | 0.4 | 0.1 |
| 3 | 12 | 0.8 | 0.3 | 12 | 0.8 | 0.2 | 12 | 0.3 | 0.1 |
| 4 | 12 | 0.8 | 0.3 | 12 | 0.6 | 0.2 | 12 | 0.3 | 0.1 |
| 5 | 12 | 1.4 | 0.7 | 12 | 0.8 | 0.4 | 12 | 0.8 | 0.3 |
| 6 | 12 | 1.1 | 0.6 | 12 | 0.3 | 0.2 | 12 | 0.3 | 0.1 |
| 7 | 12 | 1.4 | 0.8 | 12 | 0.8 | 0.4 | 12 | 0.8 | 0.4 |
| 8 | 12 | 1.1 | 0.7 | 12 | 0.8 | 0.3 | 12 | 0.8 | 0.4 |
| 9 | 12 | 1.3 | 0.6 | 1 | 0.3 | 0.3 | 12 | 0.7 | 0.2 |
| 10 | 12 | 1.7 | 0.9 | | | | 12 | 0.5 | 0.2 |
| 11 | 12 | 0.8 | 0.2 | | | | 12 | 0.3 | 0.1 |
| 12 | 12 | 1.8 | 0.7 | | | | 12 | 0.3 | 0.1 |
| 13 | 12 | 0.8 | 0.4 | 4 | 1.0 | 0.4 | 12 | 0.6 | 0.2 |
| 14 | 12 | 0.7 | 0.3 | 12 | 0.6 | 0.2 | 12 | 1.0 | 0.4 |
| 15 | 12 | 1.4 | 0.6 | 12 | 0.8 | 0.4 | 12 | 0.6 | 0.3 |
| 16 | 12 | 0.8 | 0.5 | 12 | 0.5 | 0.3 | 12 | 0.9 | 0.4 |
| 17 | 12 | 1.5 | 0.7 | 12 | 1.2 | 0.5 | 12 | 0.4 | 0.2 |
| 18 | 12 | 1.3 | 0.4 | 12 | 0.7 | 0.2 | 12 | 0.5 | 0.3 |
| 19 | 12 | 0.8 | 0.4 | 12 | 0.4 | 0.2 | 12 | 0.3 | 0.1 |
| 20 | 12 | 1.1 | 0.5 | 12 | 0.3 | 0.1 | 12 | 0.5 | 0.2 |
| 21 | 12 | 0.7 | 0.2 | 12 | 0.3 | 0.2 | 12 | 0.4 | 0.1 |
| 22 | 12 | 0.8 | 0.3 | 12 | 0.4 | 0.1 | 12 | 0.3 | 0.1 |
| 23 | 12 | 1.0 | 0.3 | 12 | 0.3 | 0.1 | 12 | 0.5 | 0.2 |
| 24 | 12 | 1.6 | 0.6 | 12 | 0.6 | 0.2 | 12 | 1.1 | 0.4 |
| 25 | 12 | 1.6 | 0.7 | 12 | 0.8 | 0.3 | 12 | 0.6 | 0.2 |
| 26 | 12 | 1.7 | 1.0 | 12 | 0.6 | 0.2 | 12 | 0.8 | 0.3 |
| 27 | 10 | 1.6 | 0.6 | 12 | 0.8 | 0.3 | 12 | 0.7 | 0.3 |
| 28 | | | | 12 | 0.5 | 0.1 | 7 | 0.2 | 0.1 |
| 29 | | | | 12 | 0.5 | 0.2 | | | |
| 30 | | | | 12 | 0.6 | 0.1 | 7 | 0.1 | 0.0 |

STA 90113C STA 90115I STA 90118R

| | | | |
|-------------------|-----|-----|-----|
| TOTAL NO. SAMPLES | 304 | 305 | 338 |
| MAXIMUM FOR MONTH | 1.8 | 1.2 | 1.1 |
| MONTHLY MEAN | 0.5 | 0.2 | 0.2 |

MONTH NOVEMBER 1970

LOCATION

EDMONTON

SUMMARY OF SOILING INDEX LEVELS
VALEURS CONDENSEES DES INDICES DE SOUILLURE

| DAY | STATION 90204C | | | STATION 90216R | | | STATION 90218I | | |
|-----|----------------|-----|------|----------------|-----|------|----------------|-----|------|
| | 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 | 0.5 | 0.1 |
| 2 | 12 | 1.5 | 0.8 | 12 | 0.8 | 0.3 | 12 | 0.5 | 0.2 |
| 3 | 12 | 1.7 | 0.6 | 12 | 1.0 | 0.3 | 12 | 0.8 | 0.4 |
| 4 | 12 | 1.8 | 0.8 | 12 | 0.5 | 0.2 | 12 | 0.8 | 0.3 |
| 5 | 12 | 0.9 | 0.5 | 12 | 1.3 | 0.3 | 12 | 0.5 | 0.2 |
| 6 | 12 | 1.4 | 0.7 | 12 | 1.2 | 0.5 | 12 | 1.4 | 0.4 |
| 7 | 12 | 0.9 | 0.5 | 12 | 0.4 | 0.2 | 12 | 0.7 | 0.4 |
| 8 | 12 | 0.6 | 0.3 | 12 | 0.4 | 0.1 | 12 | 0.6 | 0.2 |
| 9 | 12 | 2.6 | 0.8 | 12 | 0.8 | 0.3 | 12 | 0.3 | 0.1 |
| 10 | 12 | 1.6 | 0.9 | 12 | 0.7 | 0.3 | 12 | 1.4 | 0.3 |
| 11 | 12 | 2.3 | 1.0 | 12 | 0.5 | 0.3 | 12 | 0.5 | 0.3 |
| 12 | 12 | 0.8 | 0.3 | 12 | 0.6 | 0.3 | 12 | 0.9 | 0.4 |
| 13 | 12 | 1.8 | 1.0 | 12 | 0.7 | 0.3 | 12 | 1.5 | 0.5 |
| 14 | 12 | 0.7 | 0.4 | 12 | 0.2 | 0.0 | 12 | 0.5 | 0.2 |
| 15 | 12 | 0.6 | 0.3 | 12 | 0.3 | 0.1 | 12 | 0.3 | 0.1 |
| 16 | 12 | 1.3 | 0.6 | 12 | 0.7 | 0.3 | 12 | 0.3 | 0.1 |
| 17 | 12 | 1.8 | 0.7 | 12 | 0.7 | 0.2 | 12 | 0.7 | 0.3 |
| 18 | 12 | 1.1 | 0.6 | 12 | 1.7 | 0.4 | 12 | 0.4 | 0.2 |
| 19 | 12 | 0.7 | 0.3 | 12 | 0.4 | 0.1 | 7 | 0.5 | 0.3 |
| 20 | 12 | 0.8 | 0.3 | 12 | 0.6 | 0.2 | | | |
| 21 | 12 | 0.7 | 0.2 | 12 | 0.2 | 0.1 | | | |
| 22 | 12 | 0.8 | 0.3 | 12 | 0.3 | 0.2 | | | |
| 23 | 12 | 3.5 | 1.2 | 12 | 0.3 | 0.2 | | | |
| 24 | 12 | 1.2 | 0.5 | 3 | 0.3 | 0.2 | | | |
| 25 | 12 | 0.8 | 0.3 | | | | | | |
| 26 | 12 | 1.8 | 0.6 | 5 | 0.3 | 0.1 | | | |
| 27 | 12 | 0.7 | 0.4 | 12 | 0.4 | 0.2 | 4 | 1.1 | 0.3 |
| 28 | 12 | 1.7 | 0.8 | 12 | 0.5 | 0.2 | 12 | 0.8 | 0.5 |
| 29 | 12 | 3.3 | 1.0 | 12 | 0.7 | 0.2 | 12 | 2.2 | 0.8 |
| 30 | 12 | 1.3 | 0.4 | 12 | 0.8 | 0.3 | 12 | 0.7 | 0.2 |

| | STA 90204C | STA 90216R | STA 90218I |
|-------------------|------------|------------|------------|
| TOTAL NO. SAMPLES | 360 | 332 | 263 |
| MAXIMUM FOR MONTH | 3.5 | 1.7 | 2.2 |
| MONTHLY MEAN | 0.6 | 0.2 | 0.3 |

MONTH NOVEMBER 1970

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 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

| | | |
|-------|-----|------------------------------------|
| 30101 | C,F | HALIFAX, N.S. TECHNICAL COLLEGE |
| 30102 | R,F | HALIFAX, DALHOUSIE UNIVERSITY |
| 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, N. YORK, SCI. CENTRE |
| 60403 | I,P | TORONTO, ETGBICOKE, EVANS-ARNOLD |
| 60501 | C,P | HAMILTON, BARTON AND WENTWORTH |
| 60503 | R,P | HAMILTON, CHATHAM-FRID |
| 60601 | C,P | SUDBURY, CEDAR STREET |
| 60701 | C,P | SAULT STE. MARIE, PROV. ONT. BLDG. |
| 60801 | C,P | THUNDER BAY, 14 ALGOMA STREET |
| 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 |
| 00301 | C,F | VICTORIA, POLICE STN. (HERALD ST.) |

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 | 34 | 0.3 | | | | |
| 14 | 58 | 0.5 | | | | |
| 19 | 69 | 0.6 | | | | |
| 24 | 49 | 0.4 | 42 | 0.4 | | |
| NO. SAMPLES | 4 | 4 | 1 | 1 | | |
| MEAN | 53 | 0.5 | | | | |
| MAX. | 69 | 0.6 | | | | |

MONTH NOVEMBER 1970

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 |
| 6 | 59 | 0.6 | | | | |
| 14 | 75 | 0.1 | | | | |
| 19 | 64 | 0.5 | | | | |
| NO. SAMPLES | 3 | 3 | | | | |
| MEAN | 66 | 0.4 | | | | |
| MAX. | 75 | 0.6 | | | | |

MONTH NOVEMBER 1970

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 |
| 6 | 99 | 0.7 | | | | |
| 14 | 50 | 0.3 | | | | |
| 19 | 71 | 1.3 | | | | |
| 24 | 59 | 0.5 | | | | |

| | | |
|-------------|----|-----|
| NO. SAMPLES | 4 | 4 |
| MEAN | 70 | 0.7 |
| MAX. | 99 | 1.3 |

MONTH NOVEMBER 1970

LOCATION

SAINT JOHN

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 | 67 | 0.8 | | | | |
| 14 | 51 | 0.3 | | | | |
| 23 | 144 | 1.3 | | | | |

| | | |
|-------------|-----|-----|
| NO. SAMPLES | 3 | 3 |
| MEAN | 87 | 0.8 |
| MAX. | 144 | 1.3 |

MONTH NOVEMBER 1970

LOCATION

MONCTON

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

| DATE | STATION | | | | | |
|-------------|---------|------|--------|------|------|------|
| | 50201C | | 50202R | | | |
| | T.P. | LEAD | T.P. | LEAD | T.P. | LEAD |
| 6 | 80 | 1.2 | 46 | 0.6 | | |
| 14 | 73 | 0.8 | 134 | 0.4 | | |
| 19 | 218 | 3.6 | 197 | 2.2 | | |
| 24 | 127 | 0.7 | 35 | 0.3 | | |
| NO. SAMPLES | 4 | 4 | 4 | 4 | | |
| MEAN | 124 | 1.6 | 103 | 0.8 | | |
| MAX. | 218 | 3.6 | 197 | 2.2 | | |

MONTH NOVEMBER 1970

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 |
| 6 | 96 | 1.6 | | | | |
| 14 | 29 | 1.0 | | | | |
| 19 | 227 | 4.0 | | | | |
| 24 | 115 | 1.0 | | | | |

| | | |
|-------------|-----|-----|
| NO. SAMPLES | 4 | 4 |
| MEAN | 117 | 1.9 |
| MAX. | 227 | 4.0 |

MONTH NOVEMBER 1970

LOCATION

OTTAWA

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 | 107 | 0.6 | 168 | 1.3 | 131 | 0.7 |
| 14 | 118 | 0.5 | 61 | 1.1 | 22 | 0.2 |
| 19 | 109 | 0.7 | 153 | 1.4 | 96 | 0.7 |
| 24 | 81 | 0.5 | 165 | 1.3 | 77 | 0.7 |
| NO. SAMPLES | 4 | 4 | 4 | 4 | 4 | 4 |
| MEAN | 104 | 0.6 | 137 | 1.3 | 81 | 0.6 |
| MAX. | 118 | 0.7 | 168 | 1.4 | 131 | 0.7 |

MONTH NOVEMBER 1970

LOCATION

WINDSOR

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

STATION

| DATE | 60301R | | | | | |
|------|--------|------|------|------|------|------|
| | T.P. | LEAD | T.P. | LEAD | T.P. | LEAD |
| 6 | 44 | 0.4 | | | | |
| 14 | 26 | 0.3 | | | | |
| 19 | 15 | 0.9 | | | | |
| 24 | 39 | 0.7 | | | | |

| | | |
|-------------|----|-----|
| NO. SAMPLES | 4 | 4 |
| MEAN | 31 | 0.6 |
| MAX. | 44 | 0.9 |

MONTH NOVEMBER 1970

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 |
| 2 | | | 86 | | 123 | |
| 3 | 80 | | | | | |
| 8 | | | 81 | | 41 | |
| 11 | 107 | | | | | |
| 14 | | | 65 | | 47 | |
| 19 | 169 | | | | | |
| 20 | | | 55 | | 73 | |
| 26 | | | | | 143 | |
| 27 | 135 | | 178 | | | |
| NO. SAMPLES | 4 | | 5 | | 5 | |
| MEAN | 123 | | 93 | | 85 | |
| MAX. | 169 | | 178 | | 143 | |

MONTH NOVEMBER 1970

LOCATION

TORONTO

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

| DATE | STATION | | | | | |
|-------------|---------|------|--------|------|------|------|
| | 60501C | | 60503R | | | |
| | T.P. | LEAD | T.P. | LEAD | T.P. | LEAD |
| 5 | 60 | | 62 | | | |
| 13 | 62 | | 89 | | | |
| 21 | 91 | | 44 | | | |
| 29 | 10 | | 86 | | | |
| NO. SAMPLES | 4 | | 4 | | | |
| MEAN | 56 | | 70 | | | |
| MAX. | 91 | | 89 | | | |

MONTH NOVEMBER 1970

LOCATION

HAMILTON

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

| DATE | STATION | | | | | |
|------|---------|------|------|------|------|------|
| | 60601C | | | | | |
| | T.P. | LEAD | T.P. | LEAD | T.P. | LEAD |
| 2 | 50 | | | | | |
| 9 | 72 | | | | | |

| | |
|-------------|----|
| NO. SAMPLES | 2 |
| MEAN | 61 |
| MAX. | 72 |

MONTH NOVEMBER 1970

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 |
| 3 | 56 | | | | | |
| 9 | 37 | | | | | |
| 15 | 41 | | | | | |
| 21 | 13 | | | | | |

| | |
|-------------|----|
| NO. SAMPLES | 4 |
| MEAN | 37 |
| MAX. | 56 |

MONTH NOVEMBER 1970

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 |
| 5 | 42 | | | | | |
| 13 | 71 | | | | | |
| 21 | 42 | | | | | |

| | |
|-------------|----|
| NO. SAMPLES | 3 |
| MEAN | 52 |
| MAX. | 71 |

MONTH NOVEMBER 1970

LOCATION

THUNDER BAY

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 | 123 | 1.2 | 29 | 1.2 | 28 | 0.7 |
| 14 | 83 | 0.9 | 55 | 0.9 | 61 | 0.7 |
| 20 | 88 | 6.9 | 44 | 1.9 | 44 | 1.3 |
| 24 | 124 | 0.5 | | | 103 | 0.5 |
| NO. SAMPLES | 4 | 4 | 3 | 3 | 4 | 4 |
| MEAN | 104 | 2.4 | 43 | 1.4 | 59 | 0.8 |
| MAX. | 124 | 6.9 | 55 | 1.9 | 103 | 1.3 |

MONTH NOVEMBER 1970

LOCATION

WINNIPEG

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

| DATE | STATION | | | | | |
|------|---------|------|------|------|------|------|
| | 7Q104I | | | | | |
| | T.P. | LEAD | T.P. | LEAD | T.P. | LEAD |
| 6 | 128 | 0.7 | | | | |
| 14 | 107 | 0.4 | | | | |
| 20 | 178 | 1.9 | | | | |
| 24 | 137 | 0.2 | | | | |

| | | |
|-------------|-----|-----|
| NO. SAMPLES | 4 | 4 |
| MEAN | 137 | 0.8 |
| MAX. | 178 | 1.9 |

MONTH NOVEMBER 1970

LOCATION

WINNIPEG

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 | 110 | 0.8 | 178 | 0.5 | | |
| 14 | 31 | 0.6 | 20 | 0.4 | | |
| 19 | 93 | | 52 | | | |
| 24 | | | 81 | | | |
| NO. SAMPLES | 3 | 2 | 4 | 2 | | |
| MEAN | 78 | 0.7 | 83 | 0.5 | | |
| MAX. | 110 | 0.8 | 178 | 0.5 | | |

MONTH NOVEMBER 1970

LOCATION

REGINA

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 | 101 | 0.8 | 69 | 0.3 | | |
| 14 | 67 | 0.9 | 54 | 0.3 | | |
| 19 | 96 | 0.8 | 41 | 0.1 | | |
| 24 | 193 | | 112 | 0.2 | | |
| NO. SAMPLES | 4 | 3 | 4 | 4 | | |
| MEAN | 114 | 0.8 | 69 | 0.3 | | |
| MAX. | 193 | 0.9 | 112 | 0.3 | | |

MONTH NOVEMBER 1970

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 |
| 6 | 42 | 0.6 | 28 | 0.3 | 33 | 0.4 |
| 14 | 116 | 1.2 | 54 | 1.0 | 46 | 0.6 |
| 19 | 54 | 1.0 | | | 43 | 0.6 |
| 24 | | | 52 | 0.3 | 22 | 0.4 |
| NO. SAMPLES | 3 | 3 | 3 | 3 | 4 | 4 |
| MEAN | 71 | 0.9 | 45 | 0.5 | 36 | 0.5 |
| MAX. | 116 | 1.2 | 54 | 1.0 | 46 | 0.6 |

MONTH NOVEMBER 1970

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 |
| 6 | 192 | 1.1 | 136 | 1.1 | 200 | 1.7 |
| 14 | 75 | 3.0 | 41 | 0.9 | 194 | 2.2 |
| 19 | 114 | 0.7 | 100 | 0.8 | 180 | 1.4 |
| 24 | 95 | 0.7 | 57 | 0.4 | | |
| NO. SAMPLES | 4 | 4 | 4 | 4 | 3 | 3 |
| MEAN | 119 | 1.4 | 84 | 0.8 | 191 | 1.8 |
| MAX. | 192 | 3.0 | 136 | 1.1 | 200 | 2.2 |

MONTH NOVEMBER 1970

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 |
| 6 | 100 | 0.5 | | | | |
| 14 | | | | | | |
| 19 | 17 | 0.6 | | | | |
| 24 | 20 | 0.7 | | | | |

| | | |
|-------------|-----|-----|
| NO. SAMPLES | 3 | 3 |
| MEAN | 46 | 0.6 |
| MAX. | 100 | 0.7 |

MONTH NOVEMBER 1970

LOCATION

RED DEER

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

| DATE | 90401C | | STATION | | | |
|------|--------|------|---------|------|------|------|
| | T.P. | LEAD | T.P. | LEAD | T.P. | LEAD |
| 6 | 92 | 1.5 | | | | |
| 14 | 238 | 1.1 | | | | |
| 19 | 49 | 0.5 | | | | |
| 24 | 68 | 0.5 | | | | |

| | | |
|-------------|-----|-----|
| NO. SAMPLES | 4 | 4 |
| MEAN | 112 | 0.9 |
| MAX. | 238 | 1.5 |

MONTH NOVEMBER 1970

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 | 68 | 0.6 | | | | |
| 14 | 19 | 0.3 | | | | |
| 19 | | | | | | |
| 24 | 51 | 0.5 | | | | |
| NO. SAMPLES | 3 | 3 | | | | |
| MEAN | 46 | 0.5 | | | | |
| MAX. | 68 | 0.6 | | | | |

MONTH NOVEMBER 1970

LOCATION

LETHBRIDGE

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

| DATE | STATION | | | | | |
|-------------|---------|------|--------|------|--------|------|
| | 001011 | | 00102R | | 00104R | |
| | T.P. | LEAD | T.P. | LEAD | T.P. | LEAD |
| 6 | 86 | 0.9 | 96 | 0.8 | 94 | 1.7 |
| 14 | 132 | 3.2 | 151 | 3.4 | 191 | 3.8 |
| 19 | 131 | 0.7 | 96 | 1.0 | 101 | 0.5 |
| 24 | 105 | 0.4 | 134 | 1.6 | 178 | 0.9 |
| NO. SAMPLES | 4 | 4 | 4 | 4 | 4 | 4 |
| MEAN | 114 | 1.3 | 119 | 1.7 | 141 | 1.7 |
| MAX. | 132 | 3.2 | 151 | 3.4 | 191 | 3.8 |

MONTH NOVEMBER 1970

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 |
| 6 | 125 | 0.8 | | | | |
| 14 | 178 | 3.1 | | | | |
| 19 | 114 | 0.9 | | | | |
| 24 | 210 | 0.8 | | | | |

| | | |
|-------------|-----|-----|
| NO. SAMPLES | 4 | 4 |
| MEAN | 157 | 1.4 |
| MAX. | 210 | 3.1 |

MONTH NOVEMBER 1970

LOCATION

VANCOUVER

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

| DATE | STATION | | | | | |
|-------------|---------|------|------|------|------|------|
| | 00301C | | | | | |
| | T.P. | LEAD | T.P. | LEAD | T.P. | LEAD |
| 6 | 46 | 1.4 | | | | |
| 14 | 95 | 0.9 | | | | |
| 19 | 85 | 0.6 | | | | |
| 24 | 69 | 0.7 | | | | |
| NO. SAMPLES | 4 | 4 | | | | |
| MEAN | 74 | 0.9 | | | | |
| MAX. | 95 | 1.4 | | | | |

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 POUSSIÈRES 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 |
| 30402 | R* | GLACE BAY, WESLEY HALL |
| 30406 | I* | GLACE BAY, PUMPING STATION ROAD |
| 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. |
| 60207 | I | WINDSOR, MORTON DRIVE |

| | | |
|-------|----|-------------------------------------|
| 60208 | R | WINDSOR, LANSPEARY PARK |
| 60401 | C* | TORONTO, 67 COLLEGE STREET |
| 60404 | R* | TORONTO, 5126 YONGE STREET |
| 60405 | I* | TORONTO, JOHN ST. PUMP STATION |
| 60406 | R* | TORONTO, ROSEHILL RESERVOIR |
| 60501 | C* | HAMILTON, BARTON AND WENTWORTH |
| 60502 | I* | HAMILTON, BURLINGTON-GAGE |
| 60503 | R* | HAMILTON, CHATHAM-FRID |
| 60504 | R* | HAMILTON, FENNEL-W. 5TH. |
| 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. |
| 90107 | I | EDMONTON (N.W.), 160 ST. & 118 AVE. |
| 90109 | I | EDMONTON (N.W.), 149 ST. & 115 AVE. |
| 90110 | I | EDMONTON (N.W.), 156 ST. & 129 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 |

90213

I*

CALGARY, S.W. 1/4-22-23-29 W. 4TH

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

| STATION | DUSTFALL | | | | | | |
|---------|--------------|--------|------|-----|-------|--------|-----|
| | TOTAL SOLIDS | INSOL. | SOL. | ASH | COMB. | TRACER | SO3 |
| 30101C | 29.5 | 21.8 | 7.7 | | | 0.6 | 1.0 |
| 30102R | 13.8 | 4.3 | 9.5 | | | 1.0 | 0.9 |
| 30105R | 12.1 | 7.5 | 4.6 | | | 0.6 | 0.5 |
| 30106R | 8.4 | 4.5 | 3.8 | | | 0.3 | 0.2 |
| 30108C | 26.1 | 17.5 | 8.7 | | | 0.9 | 0.8 |
| 30109R | 9.7 | 5.4 | 4.3 | | | 1.0 | 0.3 |
| TRACER | CHLORIDE | | | | | | |
| MEAN | 16.6 | 10.2 | 6.4 | | | 0.7 | 0.6 |
| MAX. | 29.4 | 21.8 | 9.5 | | | 1.0 | 1.0 |
| MIN. | 8.3 | 4.3 | 3.8 | | | 0.3 | 0.2 |

MONTH NOVEMBER 1970

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 | 19.7 | 7.6 | 12.1 | 13.5 | | 2.0 | |
| 30302I | 49.2 | 25.1 | 24.1 | 32.5 | | 6.3 | 1.5 |
| 30305R | 158.4 | 125.7 | 32.7 | 118.8 | | 44.8 | 1.2 |
| 30309I | 35.9 | 19.3 | 16.6 | 20.3 | | 1.7 | |

TRACER IRON

| | | | | | | | |
|------|-------|-------|------|-------|--|------|-----|
| MEAN | 65.8 | 44.4 | 21.4 | 46.3 | | 13.7 | 1.4 |
| MAX. | 158.4 | 125.7 | 32.7 | 118.8 | | 44.8 | 1.5 |
| MIN. | 19.7 | 7.6 | 12.1 | 13.5 | | 1.7 | 1.2 |

MONTH NOVEMBER 1970

LOCATION

SYDNEY

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

| STATION | TOTAL SOLIDS | DUSTFALL | | | | | TRACER | SO3 |
|---------|-----------------|----------|------|------|-------|-----|--------|-----|
| | | INSOL. | SOL. | ASH | COMB. | | | |
| 30401R | 45.7 | 29.5 | 16.2 | 34.3 | | 7.3 | 0.9 | |
| 30402R | 20.0 | 7.7 | 12.3 | 13.4 | | 1.1 | 0.9 | |
| 30406I | 66.2 | 38.5 | 27.7 | 44.4 | | 6.0 | 0.8 | |
| | | | | | | | | |
| TRACER | IRON | | | | | | | |
| | | | | | | | | |
| MEAN | 44.0 | 25.2 | 18.7 | 30.7 | | 4.8 | 0.9 | |
| MAX. | 66.2 | 38.5 | 27.7 | 44.4 | | 7.3 | 0.9 | |
| MIN. | 20.0 | 7.7 | 12.3 | 13.4 | | 1.1 | 0.8 | |

MONTH NOVEMBER 1970

LOCATION

GLACE 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 |
|---------|-----------------|--------|------|-----|-------|--------|-----|
|---------|-----------------|--------|------|-----|-------|--------|-----|

| | | | | | | | |
|--------|------|------|------|------|-----|--|--|
| 50201C | 41.5 | 25.7 | 15.8 | 17.5 | 8.2 | | |
|--------|------|------|------|------|-----|--|--|

| | | | | | | | |
|------|------|------|------|------|-----|--|--|
| MEAN | 41.5 | 25.7 | 15.8 | 17.5 | 8.2 | | |
|------|------|------|------|------|-----|--|--|

MAX.

MIN.

MONTH NOVEMBER 1970

LOCATION

HULL

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

| STATION | DUSTFALL | | | | | TRACER | SO3 |
|---------|--------------|--------|------|------|-------|--------|-----|
| | TOTAL SOLIDS | INSOL. | SOL. | ASH | COMB. | | |
| 60101C | 35.3 | 20.8 | 14.5 | 11.7 | 9.1 | | |
| 60102R | 16.8 | 4.2 | 12.6 | 2.5 | 1.7 | | |
| 60103C | 24.1 | 14.4 | 9.7 | 10.0 | 4.4 | | |
| MEAN | 25.4 | 13.1 | 12.3 | 8.1 | 5.1 | | |
| MAX. | 35.3 | 20.8 | 14.5 | 11.7 | 9.1 | | |
| MIN. | 16.8 | 4.2 | 9.7 | 2.5 | 1.7 | | |

MONTH NOVEMBER 1970

LOCATION

OTTAWA

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

DUSTFALL

| STATION | TOTAL SOLIDS | INSOL. | SOL. | ASH | COMB. | TRACER | SO3 |
|---------|-----------------|--------|------|-----|-------|--------|-----|
| 60201I | 16.3 | 6.5 | 9.8 | | | | |
| 60202C | 30.5 | 18.8 | 11.7 | | | | |
| 60203R | 7.6 | 3.4 | 4.2 | | | | |
| 60206C | 9.9 | 4.2 | 5.7 | | | | |
| 60207I | 26.1 | 12.4 | 13.7 | | | | |
| 60208R | 21.0 | 14.0 | 7.0 | | | | |
| MEAN | 18.6 | 9.9 | 8.7 | | | | |
| MAX. | 30.5 | 18.8 | 13.7 | | | | |
| MIN. | 7.6 | 3.4 | 4.2 | | | | |

MONTH NOVEMBER 1970

LOCATION

WINDSOR

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 | |
| 60401C | 35.0 | 20.3 | 14.7 | | | | 1.9 |
| 60404R | 12.0 | 6.7 | 5.3 | | | | 0.7 |
| 60405I | 51.0 | 36.2 | 14.8 | | | | 0.9 |
| 60406R | 12.0 | 7.2 | 4.8 | | | | 0.9 |
| MEAN | 27.5 | 17.6 | 9.9 | | | | 1.1 |
| MAX. | 51.0 | 36.2 | 14.8 | | | | 1.8 |
| MIN. | 12.0 | 6.7 | 4.8 | | | | 0.7 |

MONTH NOVEMBER 1970

LOCATION

TORONTO

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

DUSTFALL

| STATION | TOTAL SOLIDS | INSOL. | SOL. | ASH | COMB. | TRACER | SO3 |
|---------|-----------------|--------|------|-----|-------|--------|-----|
| 60501C | 21.0 | 13.2 | 7.8 | | | | 1.1 |
| 60502I | 40.0 | 26.0 | 14.0 | | | | 1.5 |
| 60503R | 20.0 | 8.2 | 11.8 | | | | 1.0 |
| 60504R | 4.0 | 3.0 | 1.0 | | | | 0.7 |
| MEAN | 21.3 | 12.6 | 8.6 | | | | 1.0 |
| MAX. | 40.0 | 26.0 | 14.0 | | | | 1.4 |
| MIN. | 4.0 | 3.0 | 1.0 | | | | 0.7 |

MONTH NOVEMBER 1970

LOCATION

HAMILTON

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 | 20.2 | 14.4 | 5.8 | 11.1 | 9.1 | | |
| 70108R | 29.6 | 23.5 | 6.1 | 18.8 | 10.8 | | |
| 70113I | | | | | | | |
| 70115I | 30.5 | 23.2 | 7.3 | 20.8 | 9.7 | | |
| 70116C | 52.2 | 46.4 | 5.8 | 39.4 | 12.8 | | |
| 70117R | 21.8 | 11.5 | 10.3 | 10.3 | 11.5 | | |
| MEAN | 30.9 | 23.8 | 7.1 | 20.1 | 10.8 | | |
| MAX. | 52.2 | 46.4 | 10.3 | 39.4 | 12.8 | | |
| MIN. | 20.2 | 11.5 | 5.8 | 10.3 | 9.1 | | |

MONTH NOVEMBER 1970

LOCATION

WINNIPEG

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

DUSTFALL

| STATION | TOTAL SOLIDS | INSOL. | SOL. | ASH | COMB. | TRACER | SO3 |
|---------|-----------------|--------|------|------|-------|--------|-----|
| 90104C | 9.5 | | | 8.1 | 1.4 | | 0.1 |
| 90105R | | | | | | | |
| 90106R | | | | | | | |
| 90107I | | | | | | | |
| 90109I | 25.7 | | | 20.4 | 5.3 | 3.5 | |
| 90110I | 4.8 | | | 3.2 | 1.6 | 0.5 | |

| TRACER | CALCIUM |
|--------|---------|
|--------|---------|

| | | | | | | | |
|------|------|--|--|------|-----|-----|-----|
| MEAN | 13.3 | | | 10.6 | 2.8 | 2.0 | 0.1 |
| MAX. | 25.7 | | | 20.4 | 5.3 | 3.5 | |
| MIN. | 4.8 | | | 3.2 | 1.4 | 0.5 | |

MONTH NOVEMBER 1970

LOCATION

EDMONTON

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 | |
| 90204C | 167.5 | | | 138.4 | 29.1 | | 0.3 |
| 90205R | 4.8 | | | 3.5 | 1.3 | | 0.3 |
| 90206R | 8.1 | | | 5.6 | 2.5 | | 0.2 |
| 90207I | 13.3 | | | 10.0 | 3.3 | | 0.3 |
| 90210I | 5.6 | | | 3.2 | 2.4 | | 0.3 |
| 90213I | 9.5 | | | 5.5 | 4.0 | | 0.2 |
| MEAN | 34.8 | | | 27.7 | 7.1 | | 0.3 |
| MAX. | 167.5 | | | 138.4 | 29.1 | | 0.3 |
| MIN. | 4.8 | | | 3.2 | 1.3 | | 0.2 |

MONTH NOVEMBER 1970

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

| | | |
|-------|---------|-------------------------------|
| 50101 | R,P,COU | MONTREAL, JARRY PARK |
| 50102 | R,P,COU | MONTREAL, BOTANICAL GARDENS |
| 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 |
| 60204 | C,P,COU | WINDSOR, UNIVERSITY AVE. |
| 60401 | C,P,COU | TORONTO, 67 COLLEGE ST. |
| 60402 | R,P,COU | TORONTO, N. YORK, SCI. CENTRE |
| 60403 | I,P,COU | TORONTO, EVANS/ARNOLD |
| 60501 | C,P,COU | HAMILTON, BARTON/WENTWORTH |

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

| DAY | STATION 50101R | | | STATION 50102R | | | STATION 50104C | | |
|-----|----------------|-----|------|----------------|-----|------|----------------|-----|------|
| | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN |
| 1 | | | | | | | 12 | 6 | 4 |
| 2 | | | | | | | 11 | 20 | 8 |
| 3 | | | | | | | 12 | 15 | 7 |
| 4 | | | | | | | 12 | 34 | 16 |
| 5 | 15 | 5 | 3 | | | | 12 | 11 | 5 |
| 6 | 16 | 4 | 3 | | | | 12 | 6 | 3 |
| 7 | | | | | | | 12 | 7 | 3 |
| 8 | | | | | | | 12 | 11 | 4 |
| 9 | 14 | 6 | 4 | | | | 12 | 10 | 7 |
| 10 | 16 | 4 | 3 | | | | 12 | 4 | 3 |
| 11 | 15 | 5 | 3 | | | | 12 | 6 | 3 |
| 12 | 24 | 3 | 2 | 14 | 7 | 3 | 12 | 3 | 2 |
| 13 | 11 | 2 | 1 | 14 | 3 | 2 | 12 | 7 | 4 |
| 14 | | | | | | | 12 | 6 | 4 |
| 15 | | | | | | | 12 | 9 | 3 |
| 16 | 13 | 2 | 1 | 14 | 3 | 2 | 12 | 5 | 3 |
| 17 | 24 | 3 | 1 | 24 | 4 | 2 | 10 | 6 | 4 |
| 18 | 24 | 3 | 1 | 24 | 5 | 2 | 12 | 7 | 5 |
| 19 | 24 | 2 | 1 | 24 | 4 | 2 | 12 | 7 | 5 |
| 20 | 8 | 3 | 1 | 15 | 5 | 2 | 12 | 0 | 0 |
| 21 | | | | | | | 12 | 5 | 3 |
| 22 | | | | | | | 12 | 9 | 4 |
| 23 | 13 | 2 | 1 | | | | 12 | 6 | 3 |
| 24 | 24 | 1 | 1 | 14 | 4 | 3 | 12 | 6 | 4 |
| 25 | 24 | 5 | 2 | 24 | 4 | 2 | 12 | 9 | 6 |
| 26 | 24 | 4 | 3 | 24 | 8 | 5 | 12 | 13 | 9 |
| 27 | 16 | 6 | 3 | 16 | 8 | 5 | 12 | 21 | 13 |
| 28 | | | | | | | 12 | 7 | 4 |
| 29 | | | | | | | 12 | 4 | 3 |
| 30 | 15 | 6 | 3 | 10 | 7 | 5 | 12 | 14 | 5 |

| | STA 50101R | STA 50102R | STA 50104C |
|-------------------|------------|------------|------------|
| TOTAL NO. SAMPLES | 320 | 217 | 357 |
| MAXIMUM FOR MONTH | 6 | 8 | 34 |
| MONTHLY MEAN | 2.0 | 2.9 | 5.0 |

MONTH NOVEMBER 1970

LOCATION

MONTREAL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

| DAY | STATION 50105C | | | STATION | | | STATION | | |
|-----|----------------|-----|------|--------------|-----|------|--------------|-----|------|
| | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN | NO. OF SAMP. | MAX | MEAN |
| 1 | 12 | 7 | 4 | | | | | | |
| 2 | 12 | 24 | 11 | | | | | | |
| 3 | 12 | 19 | 10 | | | | | | |
| 4 | 12 | 43 | 21 | | | | | | |
| 5 | 11 | 14 | 12 | | | | | | |
| 6 | 12 | 16 | 12 | | | | | | |
| 7 | 12 | 20 | 13 | | | | | | |
| 8 | 12 | 22 | 9 | | | | | | |
| 9 | 12 | 37 | 19 | | | | | | |
| 10 | 12 | 9 | 7 | | | | | | |
| 11 | 12 | 9 | 6 | | | | | | |
| 12 | 11 | 9 | 6 | | | | | | |
| 13 | 12 | 14 | 9 | | | | | | |
| 14 | 12 | 17 | 11 | | | | | | |
| 15 | 12 | 25 | 14 | | | | | | |
| 16 | 12 | 21 | 15 | | | | | | |
| 17 | 12 | 17 | 14 | | | | | | |
| 18 | 12 | 18 | 14 | | | | | | |
| 19 | 12 | 20 | 12 | | | | | | |
| 20 | 12 | 0 | 0 | | | | | | |
| 21 | 12 | 13 | 10 | | | | | | |
| 22 | 12 | 13 | 8 | | | | | | |
| 23 | 12 | 11 | 9 | | | | | | |
| 24 | 12 | 16 | 12 | | | | | | |
| 25 | 12 | 17 | 13 | | | | | | |
| 26 | 12 | 13 | 10 | | | | | | |
| 27 | 12 | 31 | 21 | | | | | | |
| 28 | 12 | 18 | 14 | | | | | | |
| 29 | 12 | 11 | 8 | | | | | | |
| 30 | 12 | 17 | 11 | | | | | | |

STA 50105C STA STA

TOTAL NO. SAMPLES 358

MAXIMUM FOR MONTH 43

MONTHLY MEAN 11.2

MONTH NOVEMBER 1970

LOCATION

MONTREAL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

STA 50201C STA STA

TOTAL NO. SAMPLES 709

MAXIMUM FOR MONTH 15

MONTHLY MEAN 2.3

MONTH NOVEMBER 1970

LOCATION

HULL

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

| | STA 60101C | STA | STA |
|-------------------|------------|-----|-----|
| TOTAL NO. SAMPLES | 607 | | |
| MAXIMUM FOR MONTH | 15 | | |
| MONTHLY MEAN | 3.4 | | |

MONTH NOVEMBER 1970

LOCATION

OTTAWA

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

STA 60204C STA STA

TOTAL NO. SAMPLES 696
MAXIMUM FOR MONTH 35
MONTHLY MEAN 4.5

MONTH NOVEMBER 1970

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 | 11 | 6 | | | | 8 | 3 | 3 |
| 2 | 24 | 11 | 6 | 12 | 2 | 1 | 11 | 21 | 7 |
| 3 | 24 | 13 | 6 | 24 | 2 | 1 | 24 | 5 | 2 |
| 4 | 24 | 11 | 5 | 24 | 1 | 1 | 24 | 2 | 1 |
| 5 | 24 | 6 | 2 | 24 | 4 | 1 | 24 | 3 | 1 |
| 6 | 24 | 22 | 11 | 24 | 11 | 4 | 24 | 3 | 1 |
| 7 | 24 | 7 | 3 | 24 | 4 | 1 | 24 | 4 | 2 |
| 8 | 24 | 9 | 5 | 24 | 1 | 0 | 24 | 6 | 3 |
| 9 | 24 | 17 | 7 | 18 | 2 | 1 | 24 | 12 | 5 |
| 10 | 24 | 38 | 13 | 12 | 8 | 1 | 24 | 6 | 4 |
| 11 | 24 | 18 | 7 | | | | 24 | 7 | 5 |
| 12 | 24 | 7 | 4 | | | | 24 | 5 | 3 |
| 13 | 24 | 5 | 4 | | | | 24 | 3 | 2 |
| 14 | 24 | 6 | 3 | | | | 24 | 2 | 1 |
| 15 | 24 | 5 | 3 | 12 | 5 | 3 | 24 | 4 | 1 |
| 16 | 24 | 12 | 5 | 15 | 6 | 4 | 24 | 5 | 3 |
| 17 | 24 | 8 | 5 | 24 | 6 | 5 | 24 | 10 | 4 |
| 18 | 24 | 14 | 8 | 24 | 6 | 4 | 24 | 5 | 3 |
| 19 | 24 | 35 | 20 | 24 | 7 | 6 | 24 | 11 | 6 |
| 20 | 24 | 18 | 8 | 24 | 11 | 5 | 24 | 3 | 1 |
| 21 | 24 | 10 | 3 | 24 | 9 | 4 | 24 | 1 | 0 |
| 22 | 24 | 22 | 9 | 24 | 9 | 6 | 24 | 9 | 2 |
| 23 | 24 | 5 | 3 | 24 | 8 | 3 | 24 | 1 | 0 |
| 24 | 24 | 8 | 5 | 24 | 5 | 3 | 24 | 3 | 1 |
| 25 | 24 | 30 | 14 | 24 | 7 | 4 | 24 | 7 | 2 |
| 26 | 24 | 35 | 20 | 24 | 8 | 6 | 24 | 9 | 3 |
| 27 | 24 | 26 | 13 | 24 | 10 | 7 | 24 | 5 | 3 |
| 28 | 24 | 5 | 2 | 24 | 5 | 4 | 24 | 3 | 1 |
| 29 | 24 | 11 | 4 | 24 | 5 | 4 | 24 | 2 | 1 |
| 30 | 24 | 8 | 4 | 24 | 6 | 3 | 22 | 5 | 2 |

| | STA 60401C | STA 60402R | STA 60403I |
|-------------------|------------|------------|------------|
| TOTAL NO. SAMPLES | 720 | 549 | 689 |
| MAXIMUM FOR MONTH | 38 | 11 | 21 |
| MONTHLY MEAN | 6.9 | 3.3 | 2.3 |
| MONTH | NOVEMBER | 1970 | LOCATION |
| | | | TORONTO |

SUMMARY OF SULFUR DIOXIDE LEVELS
VALEURS CONDENSEES D'ANHYDRIDE SULFUREUX

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

| | STA 60501C | STA | STA |
|-------------------|------------|-----|-----|
| TOTAL NO. SAMPLES | 720 | | |
| MAXIMUM FOR MONTH | 10 | | |
| MONTHLY MEAN | 1.8 | | |

MONTH NOVEMBER 1970

LOCATION

HAMILTON