



Environment  
Canada

Environmental  
Protection

Environnement  
Canada

Protection de  
l'environnement

Daryl

Annual Summary

# National Air Pollution Surveillance

## Surveillance nationale de la pollution atmosphérique

Extrait annuel

1971

Surveillance Report

EPS 5-AP-72-3

Rapport de surveillance

Air Pollution  
Control Directorate  
October, 1972

Direction générale de  
la lutte contre la pollution  
atmosphérique  
octobre, 1972

TD  
182  
R46  
5/AP/72/3  
ex.1

NATIONAL AIR POLLUTION SURVEILLANCE

ANNUAL SUMMARY

FOR

1971

Compiled by the

Air Pollution Control Directorate  
Environmental Protection Service  
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

2000

2000

11166041  
TD 1820  
R46  
5/AP/72/3  
ex-1

SURVEILLANCE NATIONALE DE LA POLLUTION ATMOSPHERIQUE  
SOMMAIRE ANNUEL

DE

1971

Compilé par la

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

Extrait de données recueillies par les provinces de:

Nouvelle-Ecosse  
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

Rapport EPS 5-AP-72-3  
Décembre 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.

An important first step in achieving the goals of this program was the monthly reporting of data commencing in January, 1970. An annual summary commenced with the year 1970.

## 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 d'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.

La publication d'un rapport mensuel, depuis janvier 1970, fût une étape importante dans l'accomplissement de l'objectif du programme. On publie également depuis 1970 un extrait annuel.

TABLE OF CONTENTS

	<u>Page</u>
Cooperating Agencies	1
The National Air Pollution Surveillance Network	3
Explanatory Note	5
Sulphur Dioxide	9
Suspended Particulates	23
Lead	54
Soiling Index	77
Dustfall	98
Sulphation Rate	107

TABLE DES MATIERES

	<u>Page</u>
Organismes collaborateurs	2
Le réseau national de surveillance de la pollution atmosphérique	3
Note explicative	7
Anhydride sulfureux ( $\text{SO}_2$ )	10
Particules en suspension	24
Teneurs en plomb	55
Indices de souillure	78
Retombées de poussières	99
Indices de formation de sulfate	108



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,  
Ministry of the Environment,  
Province of Ontario.

Environmental Health Laboratory,  
Department of Mines, Resources and  
Environmental Management,  
Province of Manitoba.

Air Pollution Control Division,  
Department of the Environment,  
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-Ecosse.

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.

Air Pollution Control Division,  
Ministère de l'Environnement,  
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:

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



NATIONAL AIR POLLUTION  
SURVEILLANCE NETWORK  
(JANUARY, 1972)

Explanatory Note

The data reported in this 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, 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 agency. 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. Future plans call for increased standardization, a national reference centre for sampling methodology and a calibration service to facilitate the comparability 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 six main sections, each covering a separate pollution index. 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 annuel ont été recueillies par les organismes collaborateurs dans tout le Canada et acheminées au ministère fédéral de l'Environnement pour compilation. Depuis janvier, 1972, le programme comporte 237 instruments d'échantillonnage dans 37 villes des dix provinces. On y fait les mesures suivantes: 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 ne représentent qu'une partie de la contribution totale des organismes collaborateurs, étant donné que seuls les résultats des stations représentatives y sont inclus.

En plus de coordonner le programme national de surveillance de la pollution atmosphérique, le gouvernement fédéral, dans un certain nombre d'endroits, fournit aux organismes collaborateurs les appareils de surveillance employés dans ces stations. 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 viendront s'y ajouter et feront l'objet d'un compte-rendu au fur et à mesure de leur mise en marche. L'addition de nouveaux indices à ceux déjà mesurés fait aussi partie de l'objectif du programme. Les plans d'avenir prévoient enfin 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 indéfinissables dans les résultats peuvent se produire en raison de facteurs variables. Ces différences peuvent comprendre un ou l'ensemble des éléments suivants:

Les différentes conditions climatiques des différents secteurs.

Une différence dans les appareils, et méthodes d'échantillonnage ainsi que dans les techniques analytiques.

L'interférence par des émissions locales.

Le présent sommaire est divisé en six sections principales, chacune couvrant un indice de pollution différent. Chaque station d'échantillonnage est identifiée par un code qui définit son emplacement. Le premier chiffre du code identifie la province, le deuxième et le troisième chiffres la ville, alors que le quatrième et le cinquième identifient l'emplacement de la station dans la ville. Une lettre indique le genre de station, c'est-à-dire commerciale (C), résidentielle (R) ou industrielle (I). Une description de la méthode employée et une liste des stations d'échantillonnage se trouvent au début de chaque section. Les lettres M, P et F désignent les propriétaires des appareils; (M) désigne les municipalités (P) les provinces et (F) le gouvernement fédéral.

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 tabulation of results gives percentiles of the distribution; maximum and minimum observed  $\text{SO}_2$  values; annual arithmetic mean; standard deviation and percentage of data available based on 1-hour  $\text{SO}_2$  values and daily means. Accompanying each table is a graphical display in histogram form of the monthly arithmetic mean of daily average values. All values are expressed in units of parts per hundred million (pphm) by volume of air sampled.

### Anhydride sulfureux ( $\text{SO}_2$ )

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

Le tableau des résultats donne les centiles de la courbe de distribution; les concentrations maximales et minimales du  $\text{SO}_2$ ; la moyenne arithmétique annuelle; l'écart-type, le pourcentage de données disponibles pour les concentrations horaires du  $\text{SO}_2$  et les moyennes journalières. Un histogramme de la moyenne arithmétique mensuelle des valeurs moyennes journalières accompagne chaque tableau. Toutes les valeurs sont exprimées en parties par cent millions d'air échantillonné.

## STATIONS MEASURING SULPHUR DIOXIDE LEVELS

## STATIONS MESURANT LES VALEURS D'ANHYDRIDE SULFUREUX

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.

SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRIDE SULFUREUX

LOCATION SAINT JOHN  
STATION 40201C 110 CHARLOTTE ST.

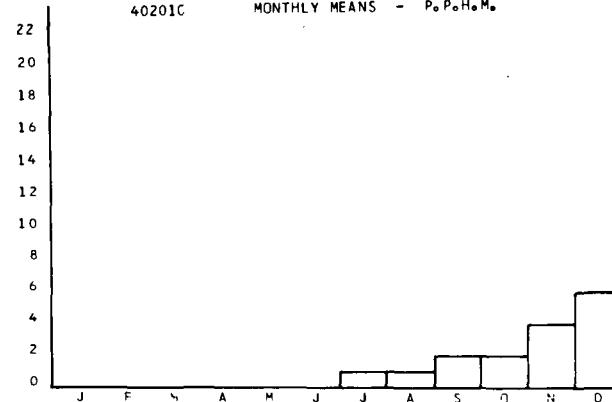
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.3 0.7 1.1 1.8 2.7 4.3 6.7 18.2 41.0

ANNUAL MEAN 2.94 MOYENNE ANNUELLE  
STANDARD DEVIATION 4.02 ECART-TYPE  
% OF DATA AVAILABLE 30 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.2 0.6 1.1 1.6 2.2 3.0 4.4 6.3 12.6 18.5

ANNUAL MEAN 2.91 MOYENNE ANNUELLE  
STANDARD DEVIATION 2.84 ECART-TYPE  
% OF DATA AVAILABLE 37 % DE DONNEES DISPONIBLES

40201C MONTHLY MEANS - P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



12

LOCATION MONTREAL  
STATION 50101R JARRY PARK

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.1 0.4 0.7 1.0 1.3 1.6 1.9 2.4 3.2 8.8 21.0

ANNUAL MEAN 2.07 MOYENNE ANNUELLE  
STANDARD DEVIATION 1.70 ECART-TYPE  
% OF DATA AVAILABLE 85 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.3 0.2 0.5 0.8 1.1 1.3 1.6 1.9 2.4 3.0 6.3 11.5

ANNUAL MEAN 2.07 MOYENNE ANNUELLE  
STANDARD DEVIATION 1.32 ECART-TYPE  
% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES

50101R MONTHLY MEANS - P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



SULPHUR DIOXIDE LEVELS  
 PARTS PER HUNDRED MILLION  
 VALEURS D'ANHYDRIDE SULFUREUX

LOCATION MONTREAL  
 STATION 50102R BOTANICAL GARDENS

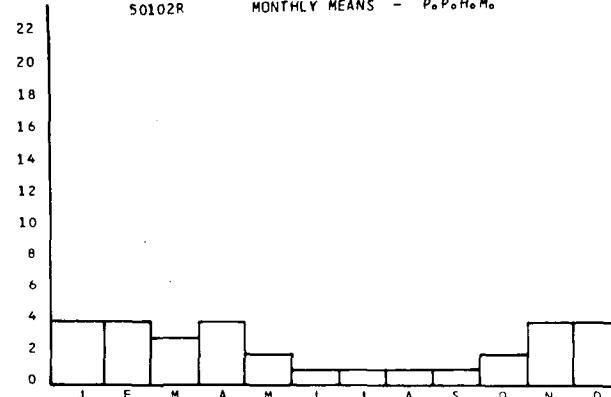
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
 ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
 MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
 0.0 0.0 0.2 0.7 1.1 1.5 1.9 2.5 3.1 4.7 11.7 31.0

ANNUAL MEAN 2.52 MOYENNE ANNUELLE  
 STANDARD DEVIATION 2.51 Ecart-type  
 % OF DATA AVAILABLE 96 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
 DAILY MEANS MOYENNES QUOTIDIENNES  
 MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
 0.0 0.1 0.5 0.8 1.2 1.7 2.2 2.7 3.3 4.4 8.8 13.5

ANNUAL MEAN 2.55 MOYENNE ANNUELLE  
 STANDARD DEVIATION 1.99 Ecart-type  
 % OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

50102R MONTHLY MEANS -  $P_o P_o H_o M_o$



13

LOCATION MONTREAL  
 STATION 50103R POINTE AUX TREMBLES

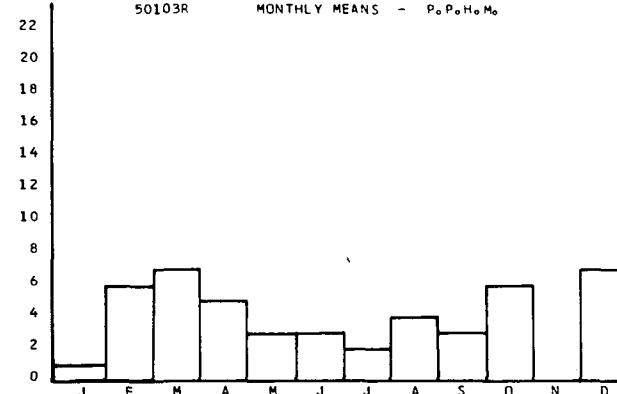
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
 ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
 DAILY MEANS MOYENNES QUOTIDIENNES  
 MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
 0.0 0.0 0.6 1.2 1.8 2.5 3.4 4.5 6.4 9.6 16.3 18.9

ANNUAL MEAN 4.18 MOYENNE ANNUELLE  
 STANDARD DEVIATION 3.94 Ecart-type  
 % OF DATA AVAILABLE 66 % DE DONNEES DISPONIBLES

50103R MONTHLY MEANS -  $P_o P_o H_o M_o$



SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRODE SULFUREUX

LOCATION MONTREAL  
STATION 50104C 1125 ONTARIO

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE

NO DATA AVAILABLE

PAS DE DONNEES DISPONIBLES

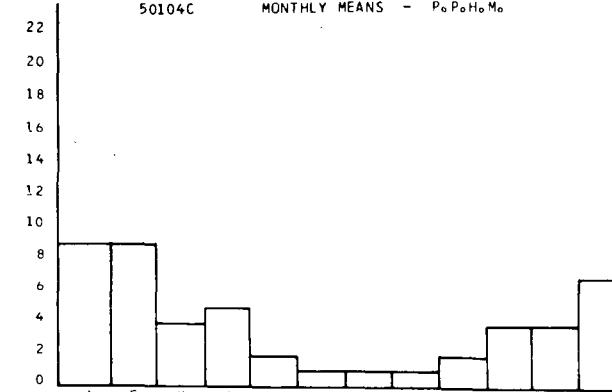
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.2 0.7 1.2 1.8 2.5 3.3 4.4 5.9 8.5 15.4 24.7

ANNUAL MEAN 4.06 MOYENNE ANNUELLE

STANDARD DEVIATION 3.72 ECART-TYPE

% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

50104C MONTHLY MEANS -  $\mu\text{g P}_{\text{O}_2}\text{H}_2\text{O}/\text{M}_0$



LOCATION MONTREAL  
STATION 50105C 1212 DRUMMOND

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE

NO DATA AVAILABLE

PAS DE DONNEES DISPONIBLES

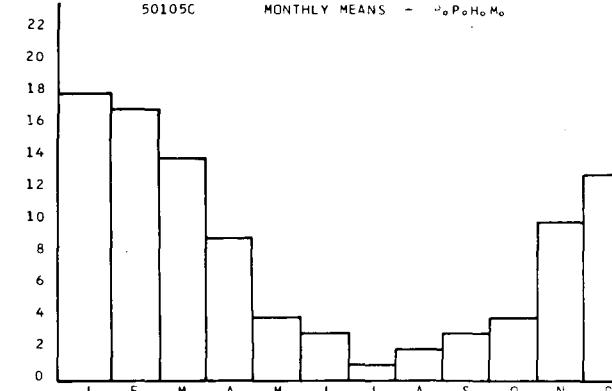
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.7 1.5 2.2 3.4 5.4 9.0 11.4 13.7 16.4 25.4 35.5

ANNUAL MEAN 8.01 MOYENNE ANNUELLE

STANDARD DEVIATION 6.52 ECART-TYPE

% OF DATA AVAILABLE 98 % DE DONNEES DISPONIBLES

50105C MONTHLY MEANS -  $\mu\text{g P}_{\text{O}_2}\text{H}_2\text{O}/\text{M}_0$



SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRIDE SULFUREUX

LOCATION MONTREAL  
STATION 50107R VILLE LASALLE

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

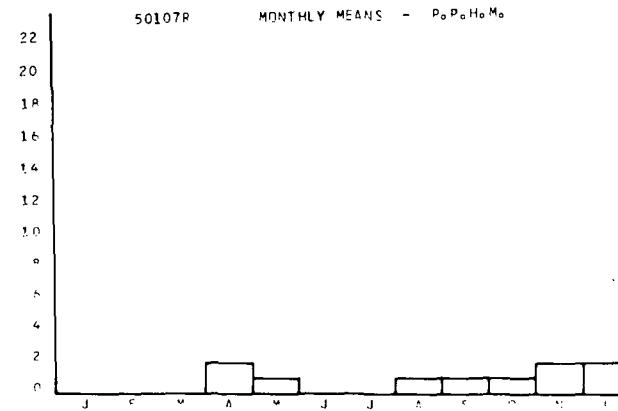
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES

	10	20	30	40	50	60	70	80	90	99	MAX.
MIN.	0.0	0.0	0.0	0.0	0.2	0.5	0.7	1.4	1.9	2.9	4.0
0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	1.4	1.9	2.9	4.0

ANNUAL MEAN 1.05 MOYENNE ANNUELLE

STANDARD DEVIATION 0.93 ECART-TYPE

% OF DATA AVAILABLE 77 % DE DONNEES DISPONIBLES



LOCATION HULL  
STATION 50201C RUE PRINCIPALE

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE

	10	20	30	40	50	60	70	80	90	99	MAX.
MIN.	0.0	0.0	0.0	0.0	0.1	0.5	0.8	1.4	2.3	4.1	10.8
0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.4	2.2	3.9	8.0

ANNUAL MEAN 1.67 MOYENNE ANNUELLE

STANDARD DEVIATION 2.36 ECART-TYPE

% OF DATA AVAILABLE 73 % DE DONNEES DISPONIBLES

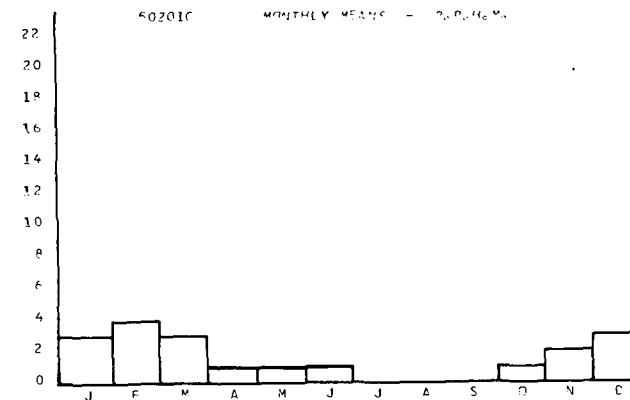
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES

	10	20	30	40	50	60	70	80	90	99	MAX.
MIN.	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.4	2.2	3.9	8.0
0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.4	2.2	3.9	8.0

ANNUAL MEAN 1.65 MOYENNE ANNUELLE

STANDARD DEVIATION 0.87 ECART-TYPE

% OF DATA AVAILABLE 83 % DE DONNEES DISPONIBLES



SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRIDE SULFUREUX

LOCATION OTTAWA  
STATION 60101C SLATER AND ELGIN

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTÉRVALLE D'UNE HEURE  
MIN: 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.0 0.0 0.6 1.6 3.6 6.3 15.8 45.0

ANNUAL MEAN 2.14 MOYENNE ANNUELLE

STANDARD DEVIATION 3.68 ECART-TYPE

% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES

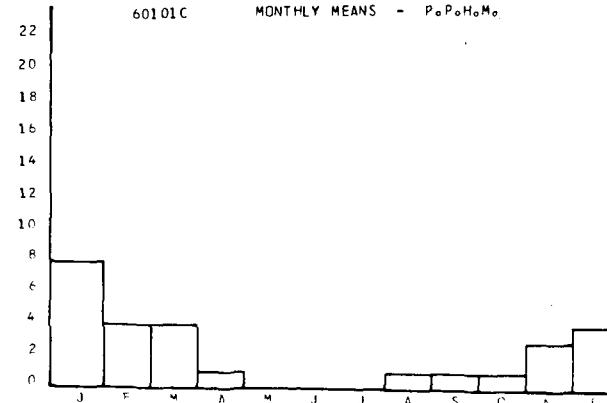
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN: 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.0 0.1 0.6 1.1 1.8 3.2 5.6 13.2 18.6

ANNUAL MEAN 2.15 MOYENNE ANNUELLE

STANDARD DEVIATION 2.98 ECART-TYPE

% OF DATA AVAILABLE 94 % DE DONNEES DISPONIBLES

60101C MONTHLY MEANS - P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



LOCATION WINDSOR  
STATION 602011 MORTON TERMINAL DOCK

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTÉRVALLE D'UNE HEURE  
MIN: 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.0 0.0 0.2 0.7 1.2 1.9 3.5 10.8 33.0

ANNUAL MEAN 1.49 MOYENNE ANNUELLE

STANDARD DEVIATION 2.44 ECART-TYPE

% OF DATA AVAILABLE 75 % DE DONNEES DISPONIBLES

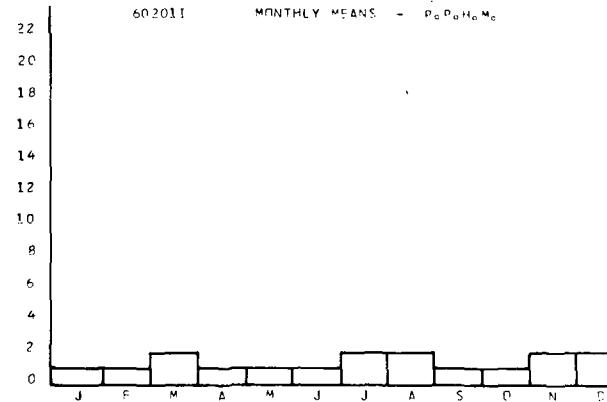
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN: 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.1 0.4 0.7 1.0 1.4 1.9 2.9 6.5 14.0

ANNUAL MEAN 1.45 MOYENNE ANNUELLE

STANDARD DEVIATION 1.49 ECART-TYPE

% OF DATA AVAILABLE 83 % DE DONNEES DISPONIBLES

602011 MONTHLY MEANS - P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRIDE SULFUREUX

LOCATION WINDSOR  
STATION 60204C 471 UNIVERSITY AVE

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.6 1.1 1.6 2.1 2.8 3.7 5.2 8.7 27.4 60.0

ANNUAL MEAN 4.22 MOYENNE ANNUELLE  
STANDARD DEVIATION 5.34 ECART-TYPE  
% OF DATA AVAILABLE 97 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.2 1.0 1.5 1.9 2.4 2.9 3.5 4.2 5.2 6.9 19.5 23.5

ANNUAL MEAN 4.25 MOYENNE ANNUELLE  
STANDARD DEVIATION 3.43 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

LOCATION TORONTO  
STATION 60401C 67 COLLEGE STREET

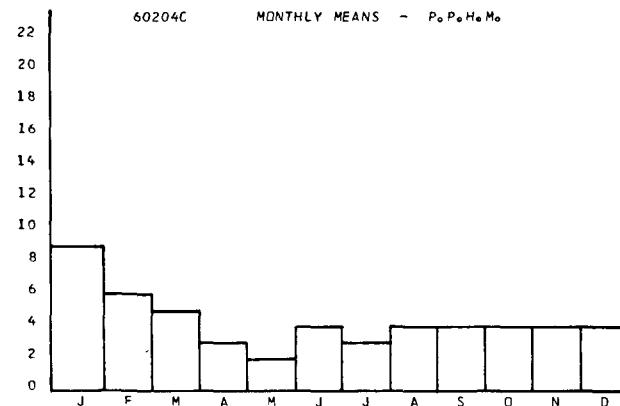
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.5 1.4 2.1 2.7 3.4 4.1 5.2 6.9 10.1 25.4 54.0

ANNUAL MEAN 5.17 MOYENNE ANNUELLE  
STANDARD DEVIATION 4.97 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES

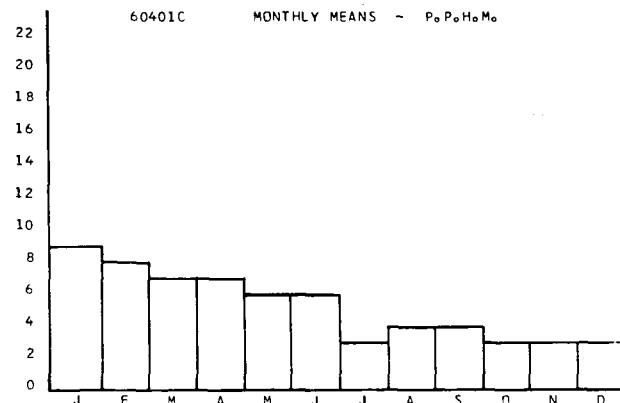
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.2 1.2 2.0 2.6 3.1 3.8 4.6 5.6 6.9 9.6 15.3 25.0

ANNUAL MEAN 5.17 MOYENNE ANNUELLE  
STANDARD DEVIATION 3.50 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES

60204C MONTHLY MEANS ~ P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



60401C MONTHLY MEANS ~ P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRIDE SULFUREUX

LOCATION TORONTO  
STATION 60402R DON MILLS, SCI. CENTRE

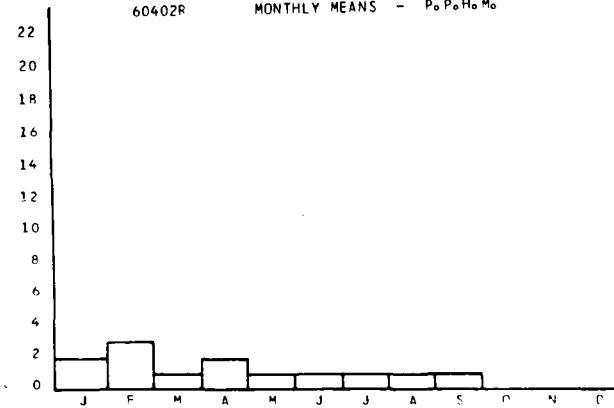
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.1 0.3 0.6 0.8 1.2 1.8 2.7 6.8 25.0

ANNUAL MEAN 1.42 MOYENNE ANNUELLE  
STANDARD DEVIATION 1.67 ECART-TYPE  
% OF DATA AVAILABLE 38 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.2 0.4 0.7 0.9 1.3 1.8 2.6 6.4 8.2

ANNUAL MEAN 1.37 MOYENNE ANNUELLE  
STANDARD DEVIATION 1.21 ECART-TYPE  
% OF DATA AVAILABLE 45 % DE DONNEES DISPONIBLES

60402R MONTHLY MEANS - P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



18

LOCATION TORONTO  
STATION 60403I EVANS/ARNOLD

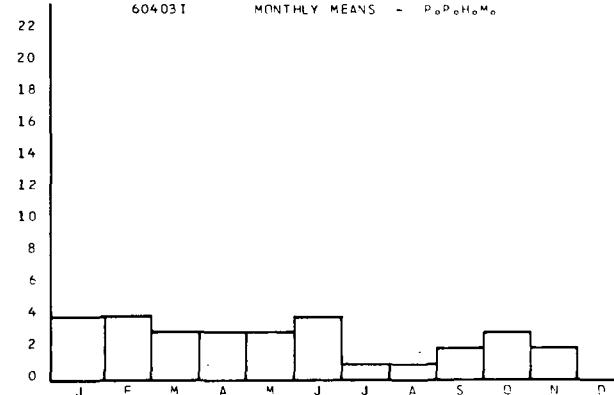
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.1 0.5 0.9 1.5 2.1 2.7 3.8 5.7 13.3 31.0

ANNUAL MEAN 2.74 MOYENNE ANNUELLE  
STANDARD DEVIATION 3.00 ECART-TYPE  
% OF DATA AVAILABLE 57 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.3 0.8 1.2 1.7 2.2 2.8 3.7 5.3 9.9 11.2

ANNUAL MEAN 2.71 MOYENNE ANNUELLE  
STANDARD DEVIATION 2.26 ECART-TYPE  
% OF DATA AVAILABLE 62 % DE DONNEES DISPONIBLES

60403I MONTHLY MEANS - P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRODE SULFUREUX

LOCATION TORONTO  
STATION 60407C CITY HALL

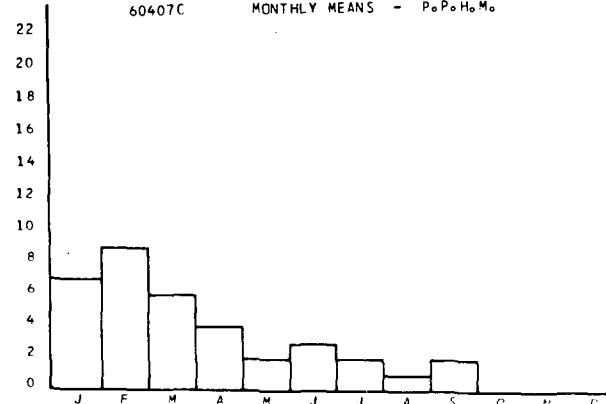
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL                   INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.1 0.9 1.5 2.1 3.2 4.5 6.4 9.7 20.4 50.0

ANNUAL MEAN       4.15   MOYENNE ANNUELLE  
STANDARD DEVIATION 4.58   ECART-TYPE  
% OF DATA AVAILABLE 53   % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS                           MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.6 1.2 2.0 2.8 3.8 4.8 6.3 8.8 14.8 18.6

ANNUAL MEAN       4.10   MOYENNE ANNUELLE  
STANDARD DEVIATION 3.48   ECART-TYPE  
% OF DATA AVAILABLE 59   % DE DONNEES DISPONIBLES

60407C           MONTHLY MEANS -  $P_0 P_{0.5} H_0 M_0$



LOCATION HAMILTON  
STATION 60501C BARTON AND WENTWORTH

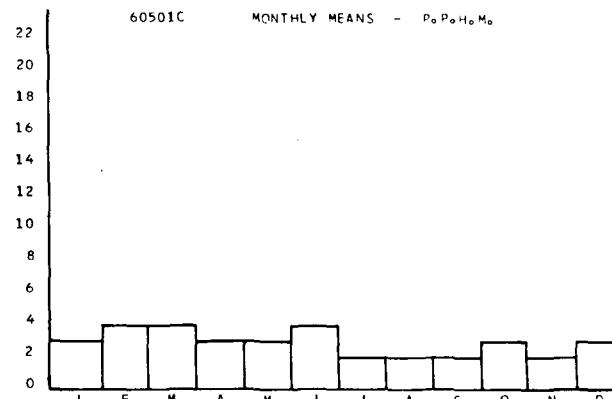
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL                   INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.2 0.6 1.1 1.6 2.2 3.0 4.1 6.3 13.0 31.0

ANNUAL MEAN       2.91   MOYENNE ANNUELLE  
STANDARD DEVIATION 3.01   ECART-TYPE  
% OF DATA AVAILABLE 100   % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS                           MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.5 1.0 1.5 1.9 2.5 3.3 4.2 5.4 8.8 15.8

ANNUAL MEAN       2.91   MOYENNE ANNUELLE  
STANDARD DEVIATION 2.23   ECART-TYPE  
% OF DATA AVAILABLE 100   % DE DONNEES DISPONIBLES

60501C           MONTHLY MEANS -  $P_0 P_{0.5} H_0 M_0$



SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRODE SULFUREUX

LOCATION HAMILTON  
STATION 60505R NORTH PARK

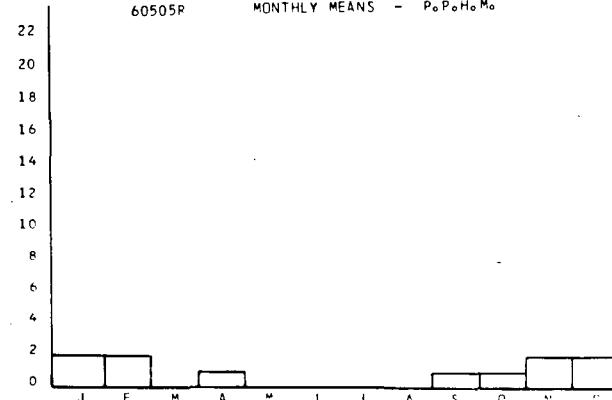
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.0 0.0 0.4 0.8 1.2 1.9 3.1 6.6 12.0

ANNUAL MEAN 1.33 MOYENNE ANNUELLE  
STANDARD DEVIATION 1.64 ECART-TYPE  
% OF DATA AVAILABLE 45 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.2 0.6 0.9 1.4 1.9 2.8 4.8 7.0

ANNUAL MEAN 1.32 MOYENNE ANNUELLE  
STANDARD DEVIATION 1.31 ECART-TYPE  
% OF DATA AVAILABLE 52 % DE DONNEES DISPONIBLES

60505R MONTHLY MEANS - P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



LOCATION HAMILTON  
STATION 60506I WOODWARD-BRAMPTON

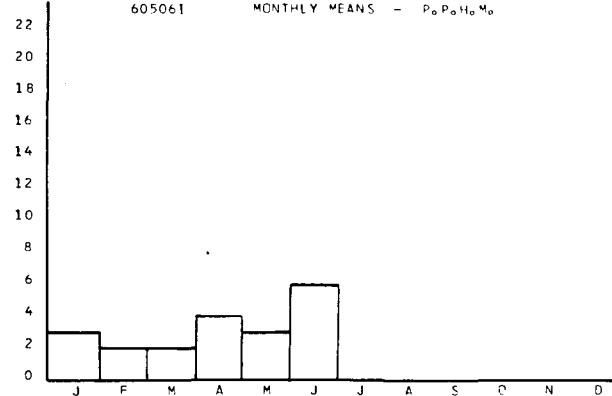
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.1 0.6 1.1 1.6 2.2 2.6 3.1 3.9 4.8 10.4 37.0

ANNUAL MEAN 2.92 MOYENNE ANNUELLE  
STANDARD DEVIATION 2.37 ECART-TYPE  
% OF DATA AVAILABLE 32 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.3 0.9 1.3 1.8 2.2 2.6 3.0 3.6 4.5 7.7 22.1

ANNUAL MEAN 2.93 MOYENNE ANNUELLE  
STANDARD DEVIATION 2.31 ECART-TYPE  
% OF DATA AVAILABLE 36 % DE DONNEES DISPONIBLES

60506I MONTHLY MEANS - P<sub>0</sub>P<sub>0</sub>H<sub>0</sub>M<sub>0</sub>



SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRODE SULFUREUX

LOCATION SUDBURY  
STATION 60602R ASH STREET

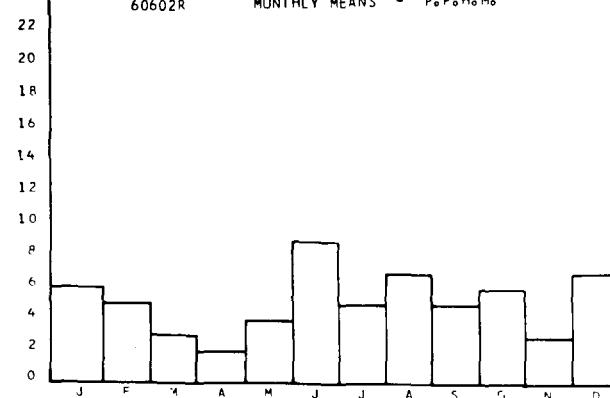
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.1 0.5 0.9 1.4 2.1 3.2 5.3 12.1 56.3 184.0

ANNUAL MEAN 5.27 MOYENNE ANNUELLE  
STANDARD DEVIATION 11.03 ECART-TYPE  
% OF DATA AVAILABLE 95 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.3 0.9 1.6 2.3 3.0 4.2 5.5 7.6 11.4 20.5 50.1

ANNUAL MEAN 5.26 MOYENNE ANNUELLE  
STANDARD DEVIATION 9.41 ECART-TYPE  
% OF DATA AVAILABLE 96 % DE DONNEES DISPONIBLES

60602R MONTHLY MEANS -  $P_{SO_2}H_2Mo$



LOCATION SUDBURY  
STATION 60603R 394 MONTAGUE AVE.

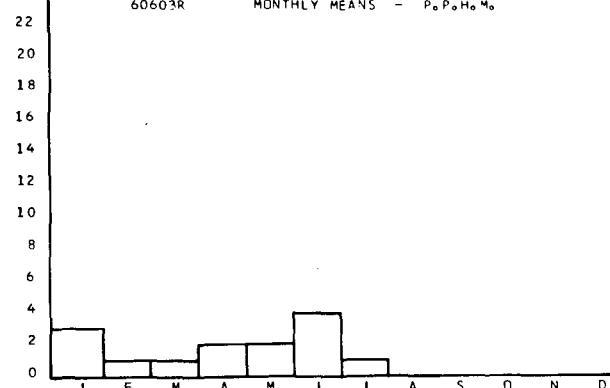
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.9 1.8 4.7 26.5 120.0

ANNUAL MEAN 2.08 MOYENNE ANNUELLE  
STANDARD DEVIATION 5.67 ECART-TYPE  
% OF DATA AVAILABLE 50 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.0 0.3 0.7 1.2 1.9 2.7 5.6 13.1 15.7

ANNUAL MEAN 2.05 MOYENNE ANNUELLE  
STANDARD DEVIATION 2.59 ECART-TYPE  
% OF DATA AVAILABLE 52 % DE DONNEES DISPONIBLES

60603R MONTHLY MEANS -  $P_{SO_2}H_2Mo$

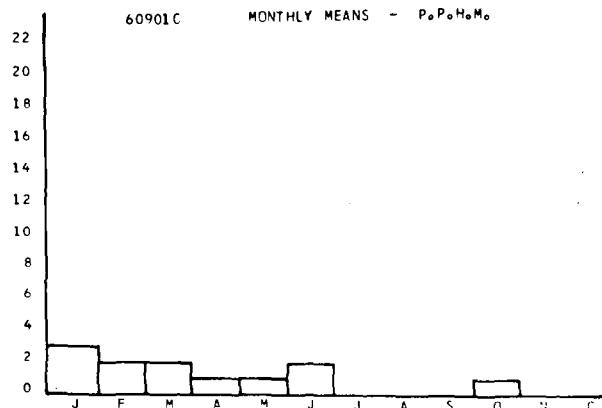


SULPHUR DIOXIDE LEVELS  
PARTS PER HUNDRED MILLION  
VALEURS D'ANHYDRIDE SULFUREUX

LOCATION LONDON  
STATION 60901C KING-RECTORY

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.0 0.3 0.7 1.2 1.7 2.2 2.9 4.8 9.0  
ANNUAL MEAN 1.48 MOYENNE ANNUELLE  
STANDARD DEVIATION 1.39 ECART-TYPE  
% OF DATA AVAILABLE 46 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.1 0.5 0.8 1.2 1.6 2.0 2.6 3.8 4.5  
ANNUAL MEAN 1.42 MOYENNE ANNUELLE  
STANDARD DEVIATION 1.12 ECART-TYPE  
% OF DATA AVAILABLE 52 % DE DONNEES DISPONIBLES



22

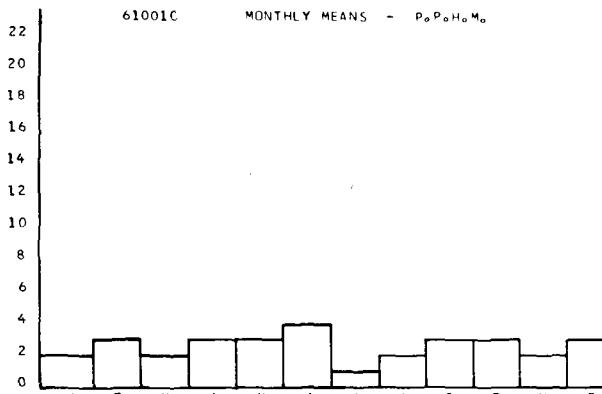
LOCATION SARNIA  
STATION 61001C 156 VICTORIA STREET

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
ONE-HOURLY INTERVAL INTERVALLE D'UNE HEURE  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.0 0.1 0.4 0.8 1.3 2.0 3.0 6.4 19.4 50.0

ANNUAL MEAN 2.62 MOYENNE ANNUELLE  
STANDARD DEVIATION 4.21 ECART-TYPE  
% OF DATA AVAILABLE 93 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.0 0.2 0.5 0.8 1.2 1.8 2.6 3.7 6.1 12.2 16.0

ANNUAL MEAN 2.65 MOYENNE ANNUELLE  
STANDARD DEVIATION 2.80 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES



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 fiber filter. The filter is removed and weighed to determine the amount of the suspended particulates deposited. The units of measurements are micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) of air.

Experience has shown that suspended particulate loadings tend to be log-normally distributed i.e. the logarithms of the observed values, rather than the values themselves, follow approximately the normal distribution curve. However, as is customary, the deciles and annual maximum and minimum are given for the distribution of observed values. In addition, for the log-normal distribution, the annual geometric mean, the annual geometric standard deviation and the percentage of data available are quoted. Accompanying each table is a graphical display in histogram form of the monthly geometric means of total particulate loading ( $\mu\text{g}/\text{m}^3$ ).

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. 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. Les résultats sont exprimés en microgrammes par mètre cube d'air.

Une étude statistique des concentrations des particules en suspension démontre que les logarithmes des concentrations, plutôt que les concentrations elles-mêmes, suivent approximativement une courbe de distribution normale. Cependant, selon l'usage, on rapporte les déciles de la courbe de distribution des valeurs telles que mesurées (non des logarithmes) ainsi que le minimum et le maximum annuels et le pourcentage de données disponibles. De plus on trouve les valeurs relatives à une courbe de distribution des logarithmes des concentrations, telles que la moyenne géométrique annuelle et l'écart-type géométrique annuel. Un histogramme des moyennes géométriques mensuelles des concentrations des particules en suspension accompagne chaque tableau.

## STATIONS MEASURING TOTAL PARTICULATES

## STATIONS MESURANT LES PARTICULES EN SUSPENSION

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. JNT. BLDG.
60801	C,P	THUNDER BAY, 14 ALGOMA STREET
60901	C,P	LONDON, KING-RECTORY
60902	C,P	LONDON, 372 DUNDAS
61001	C,P	SARNIA, 156 VICTORIA ST.
61101	C,P	PETERBOROUGH, FIRE HALL
70101	C,F	WINNIPEG, BROADWAY AT KENNEDY
70102	R,F	WINNIPEG, PORTAGE AT WOODLAWN
70103	R,F	WINNIPEG, HARTFORD AT AIKENS
70104	I,F	WINNIPEG, UNION STOCK YARDS
80101	C,F	REGINA, 1955 SMITH STREET
80102	R,F	REGINA, 3211 ALBERT STREET
80202	C,F	SASKATOON, CITY LIBRARY
80203	R,F	SASKATOON, MOUNT ROYAL LODGE
90101	C,F	EDMONTON, 98TH AND JASPER
90102	I,F	EDMONTON, 46TH ST. AND 104TH AVE.
90103	R,F	EDMONTON, 146TH ST. AND 92ND AVE.
90201	I,F	CALGARY, 6411 20TH ST., S.E.
90203	R,F	CALGARY, 407 31 AVE., N.W.
90204	C,F	CALGARY, 7TH AVE. AND 2ND ST., S.E.
90301	C,F	RED DEER, 4720 49TH STREET
90401	C,F	MEDICINE HAT, 770 FIRST ST. S.E.
90501	C,F	LETHBRIDGE, 13 ST. AND 9 AVE. S.
00101	I,F	VANCOUVER, VANCOUVER PILE DRIVING
00102	R,F	VANCOUVER, 100 RICHMOND ST.
00104	R,F	VANCOUVER, 27TH AND ONTARIO
00105	I,F	VANCOUVER, 739 W. HASTINGS ST.

00301

C,F

VICTORIA, POLICE STN. (HERALD ST.)

TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE.  
PARTICULES EN SUSPENSION

LOCATION HALIFAX

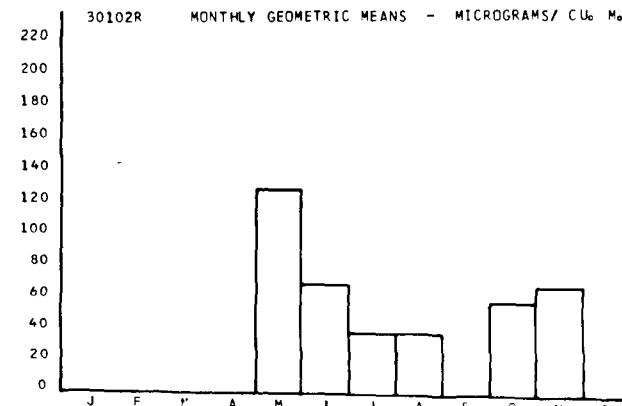
STATION 30102R DALHOUSIE UNIVERSITY

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
13 23 34 42 46 48 67 81 86 113 126

ANNUAL GEOMETRIC MEAN 55.0 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.8 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 55 % DE DONNEES DISPONIBLES



28

LOCATION SYDNEY

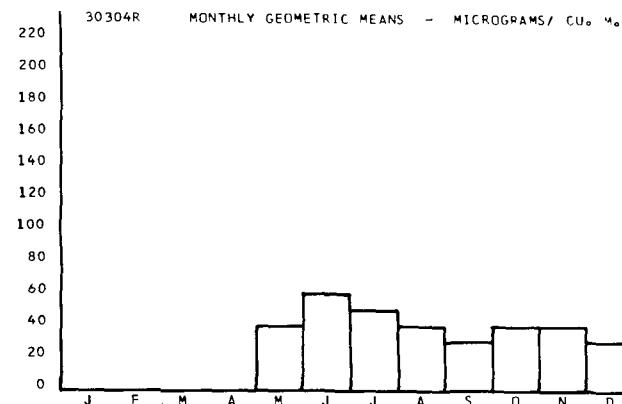
STATION 30304R CITY HOSPITAL

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
22 24 26 31 37 40 43 52 55 58 64

ANNUAL GEOMETRIC MEAN 39.9 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.4 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES

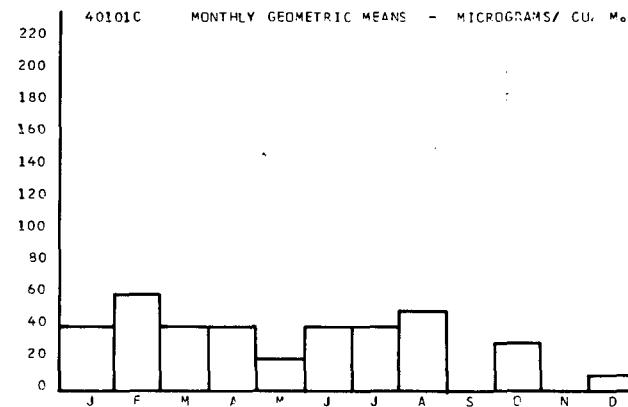


TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION FREDERICTON  
STATION 40101C WOODSTOCK ROAD

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
3 16 28 31 35 39 45 50 56 60 72

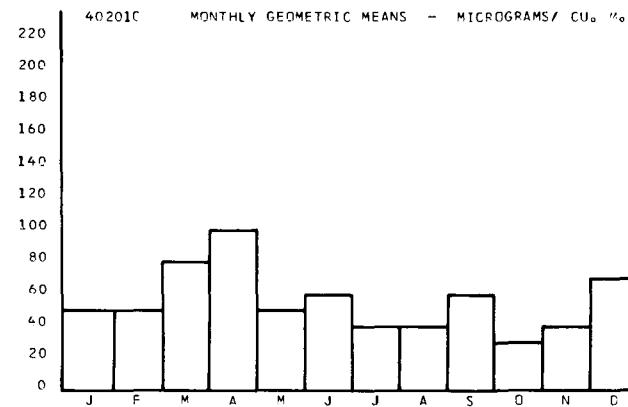
ANNUAL GEOMETRIC MEAN 35.8 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.9 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 58 % DE DONNEES DISPONIBLES



LOCATION SAINT JOHN  
STATION 40201C 110 CHARLOTTE ST.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
26 32 35 37 40 45 51 69 86 100 142

ANNUAL GEOMETRIC MEAN 54.2 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.6 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 77 % DE DONNEES DISPONIBLES

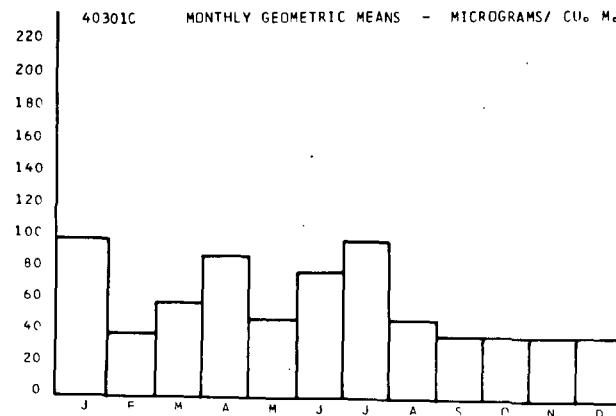


TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION MONCTON  
STATION 40301C POST OFFICE

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
17 30 33 36 42 48 62 66 77 103 204

ANNUAL GEOMETRIC MEAN 54.3 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.7 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 86 % DE DONNEES DISPONIBLES

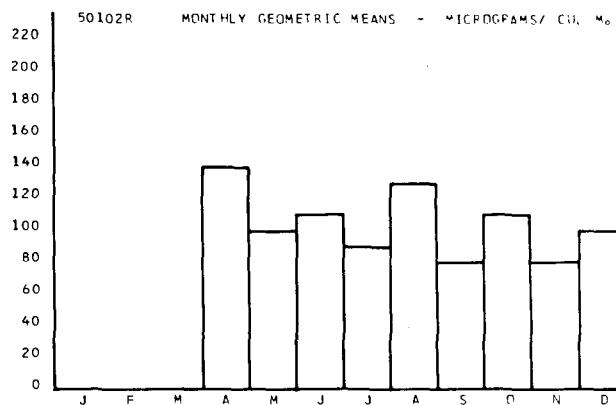


30

LOCATION MONTREAL  
STATION 50102R BOTANICAL GARDENS

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
40 68 76 81 93 97 111 123 156 166 227

ANNUAL GEOMETRIC MEAN 103.8 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.5 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 79 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION MONTREAL

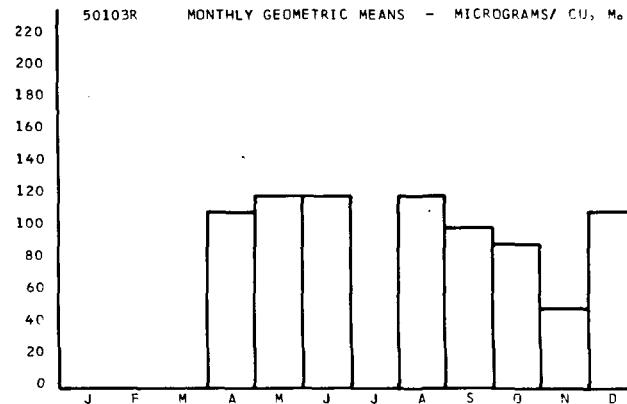
STATION 50103R POINTE AUX TREMBLES

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
45 54 62 72 80 90 98 120 168 180 240

ANNUAL GEOMETRIC MEAN 98.9 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.6 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 75 % DE DONNEES DISPONIBLES



31

LOCATION MONTREAL

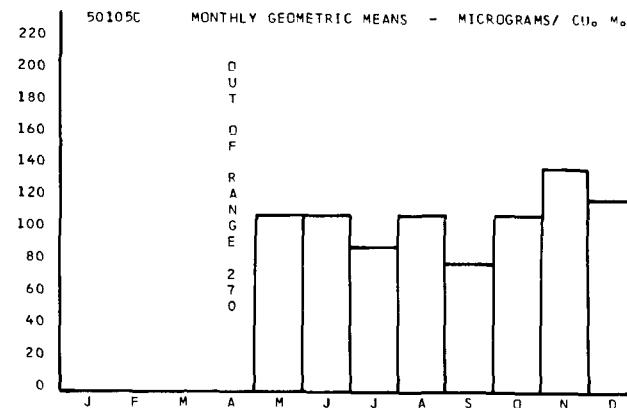
STATION 50105C 1212 DRUMMOND

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
44 58 82 94 104 114 121 127 146 163 270

ANNUAL GEOMETRIC MEAN 110.6 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.5 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 82 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION MONTREAL

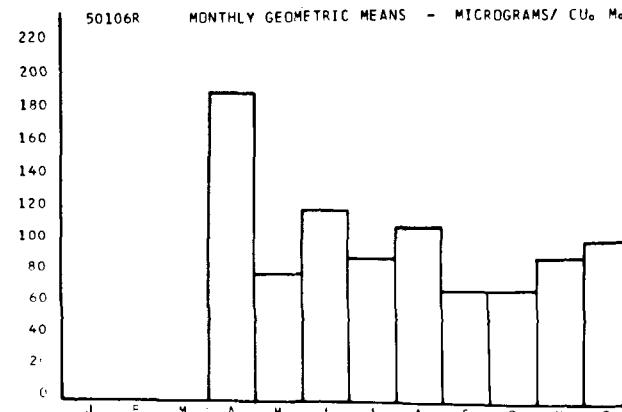
STATION 50106R VILLE ST. LAURENT

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
23 57 69 75 81 94 103 125 131 171 288

ANNUAL GEOMETRIC MEAN 95.7 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.6 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 87 % DE DONNEES DISPONIBLES



32

LOCATION MONTREAL

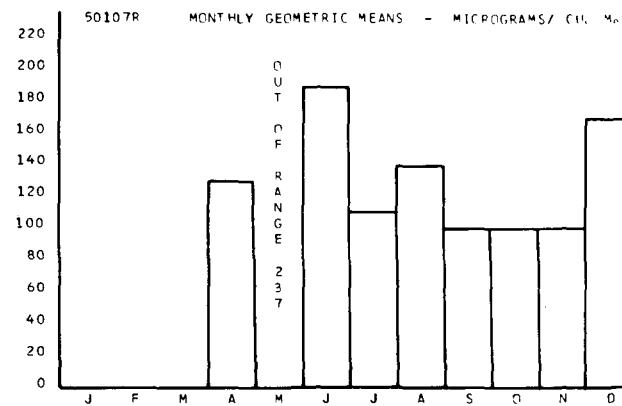
STATION 50107R VILLE LASALLE

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
46 62 76 86 106 130 170 209 236 306 377

ANNUAL GEOMETRIC MEAN 134.6 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.8 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 95 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

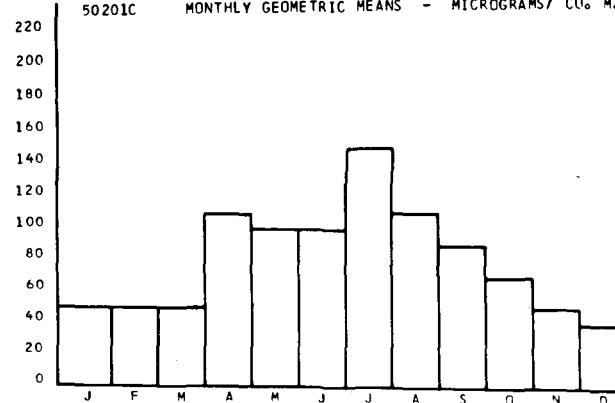
LOCATION HULL

STATION 50201C RUE PRINCIPALE

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
17 36 42 52 65 74 87 104 122 143 162

ANNUAL GEOMETRIC MEAN 73.0 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.7 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 83 % DE DONNEES DISPONIBLES

50201C MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CU. M.



33

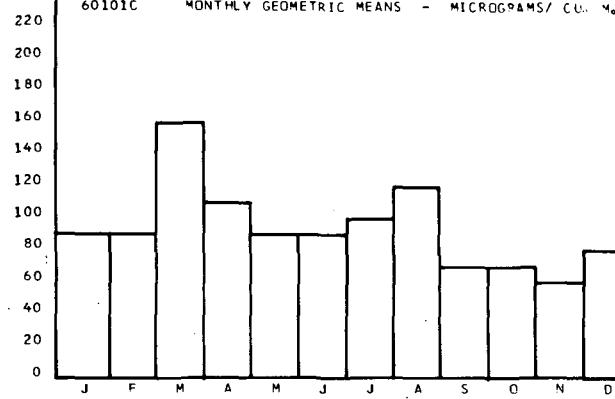
LOCATION OTTAWA

STATION 60101C SLATER AND ELGIN

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
45 51 55 65 81 99 104 114 141 153 229

ANNUAL GEOMETRIC MEAN 92.0 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.5 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES

60101C MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CU. M.



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION WINDSOR

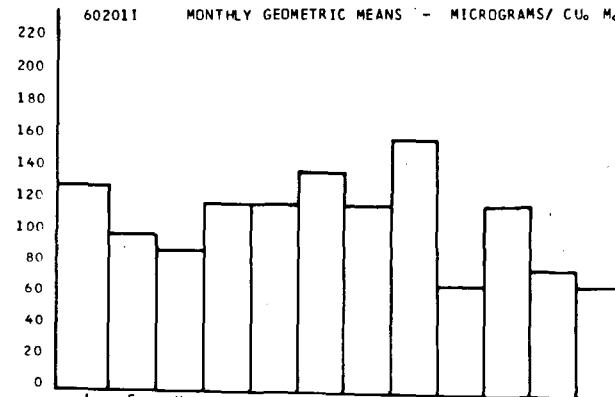
STATION 602011 MORTON TERMINAL DOCK

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 41 57 67 85 100 113 126 140 158 168 193

ANNUAL GEOMETRIC MEAN 106.2 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.5 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



34

LOCATION WINDSOR

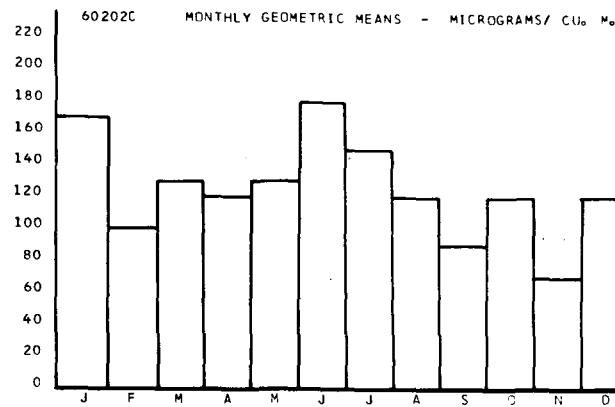
STATION 602020 CITY HALL

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 37 73 82 93 119 127 139 149 174 200 223

ANNUAL GEOMETRIC MEAN 121.8 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.5 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION WINDSOR

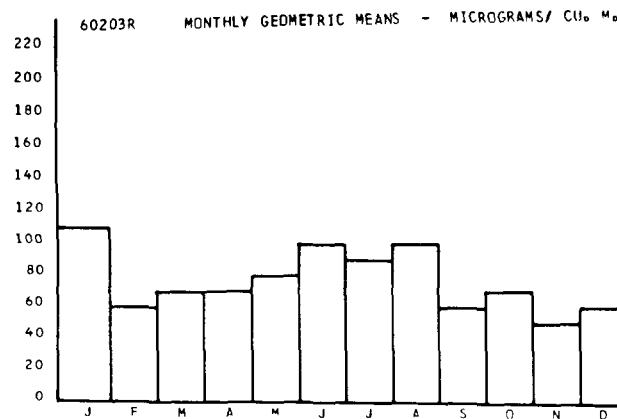
STATION 60203R WINDSOR-TECUMSEH WATER WORKS

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
31 38 47 59 71 76 83 93 113 120 215

ANNUAL GEOMETRIC MEAN 75.7 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.6 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 94 % DE DONNEES DISPONIBLES



35

LOCATION KINGSTON

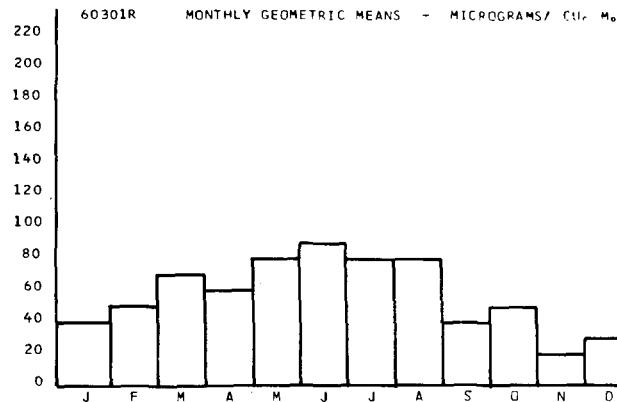
STATION 60301R QUEEN'S UNIVERSITY

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
19 32 36 40 48 52 61 77 83 99 123

ANNUAL GEOMETRIC MEAN 56.6 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.5 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 81 % DE DONNEES DISPONIBLES



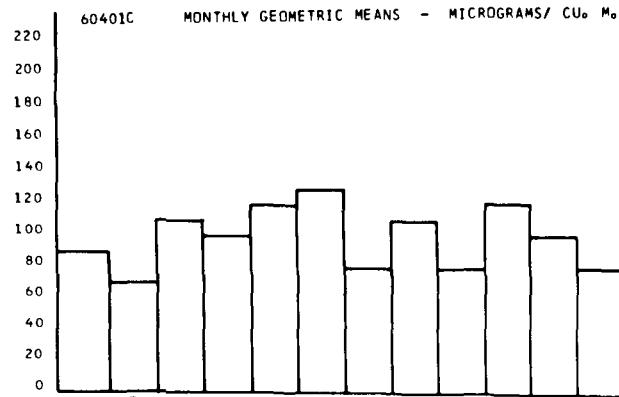
TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION TORONTO

STATION 60401C 67 COLLEGE STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
43 56 69 80 94 103 109 118 134 157 240

ANNUAL GEOMETRIC MEAN 99.3 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.5 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 97 % DE DONNEES DISPONIBLES



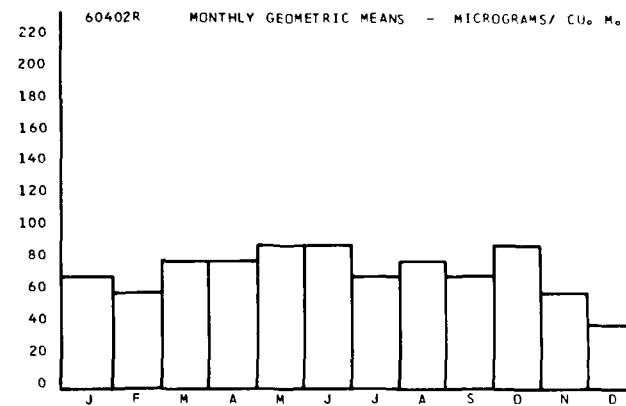
36

LOCATION TORONTO

STATION 60402R DON MILLS, SCI. CENTRE

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
33 43 52 57 61 66 78 90 102 118 151

ANNUAL GEOMETRIC MEAN 72.6 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.5 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION TORONTO

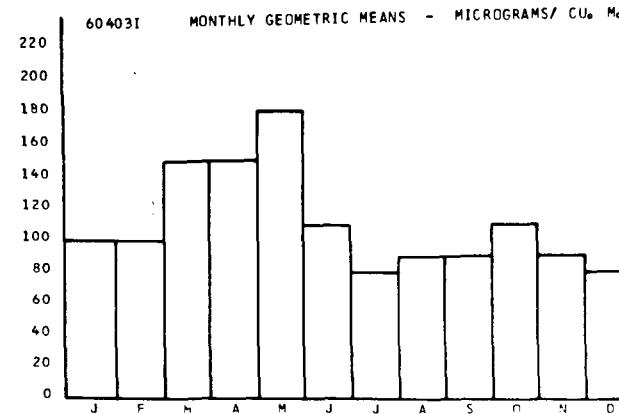
STATION 60403I EVANS/ARNOLD

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
46 65 76 88 96 104 117 124 145 187 267

ANNUAL GEOMETRIC MEAN 107.9 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.5 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES



37

LOCATION HAMILTON

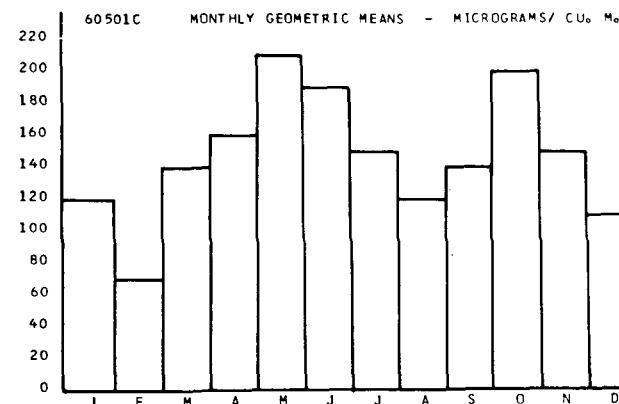
STATION 60501C BARTON AND WENTWORTH

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
50 80 102 113 138 151 163 168 191 220 324

ANNUAL GEOMETRIC MEAN 142.5 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.5 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION HAMILTON

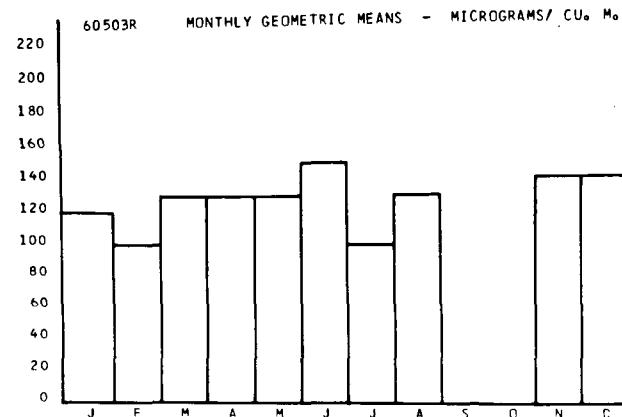
STATION 60503R CHATHAM-FRID

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
65 82 87 94 100 121 134 154 170 197 269

ANNUAL GEOMETRIC MEAN 123.7 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.4 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES



38

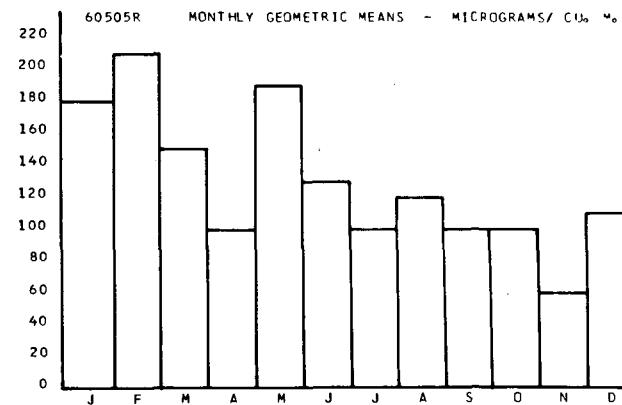
LOCATION HAMILTON  
STATION 60505R NORTH PARK

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
49 68 79 90 103 116 127 158 171 234 361

ANNUAL GEOMETRIC MEAN 120.8 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.6 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 98 % DE DONNEES DISPONIBLES

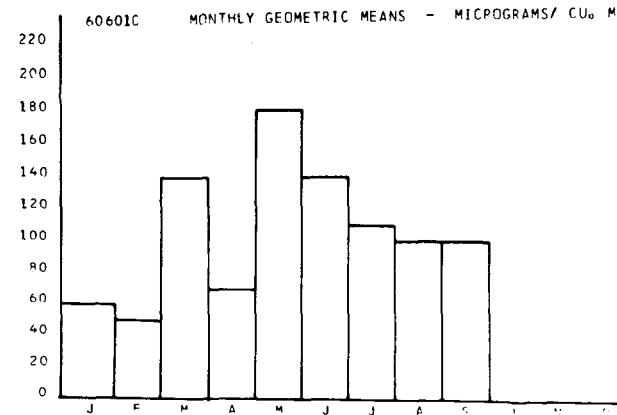


TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION SUDBURY  
STATION 60601C 50 CEDAR STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
37 59 62 73 81 96 111 170 205 249 342

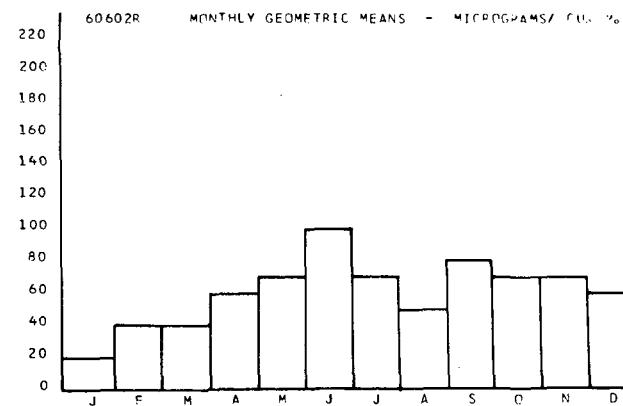
ANNUAL GEOMETRIC MEAN 110.0 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.8 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 90 % DE DONNEES DISPONIBLES



LOCATION SUDBURY  
STATION 60602R ASH STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
7 23 40 46 53 62 72 79 91 124 168

ANNUAL GEOMETRIC MEAN 58.6 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.9 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 94 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION SAULT STE MARIE

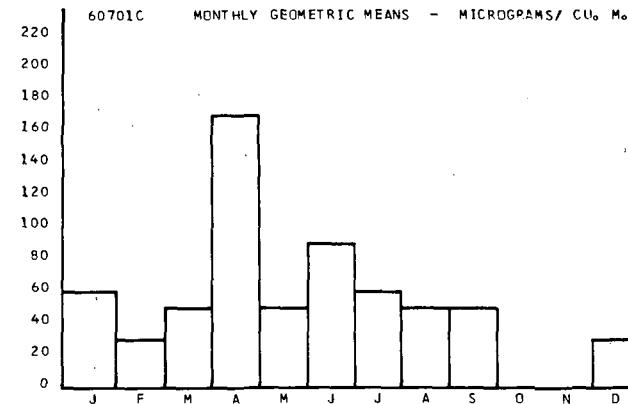
STATION 60701C PROV. ONTARIO BLDG.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
22 24 34 39 48 54 62 70 75 121 222

ANNUAL GEOMETRIC MEAN 55.1 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 16.7 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 85 % DE DONNEES DISPONIBLES



40

LOCATION THUNDER BAY

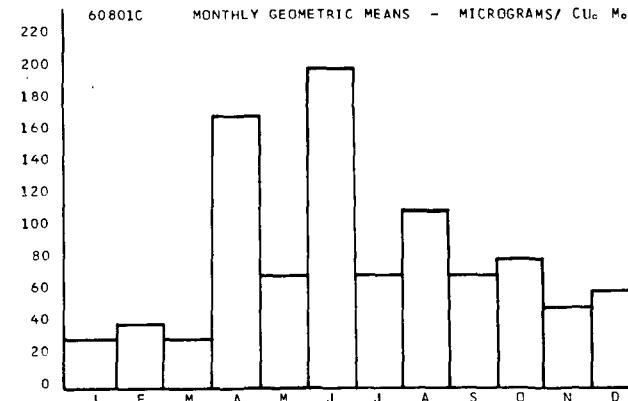
STATION 60801C 14 ALGOMA STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
13 27 31 46 55 69 80 88 123 189 272

ANNUAL GEOMETRIC MEAN 68.9 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 26.1 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 95 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION LONDON

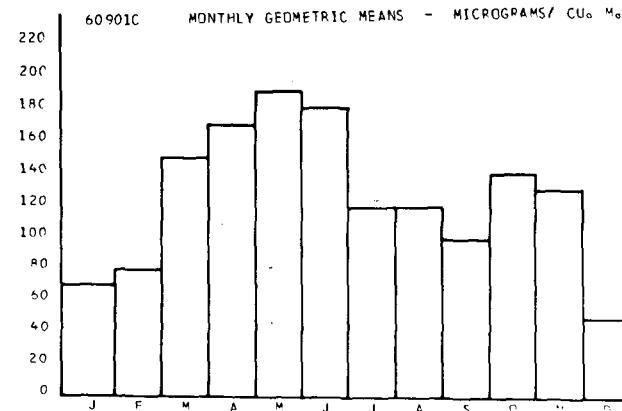
STATION 60901C KING-RECTORY

FREQUENCY DISTRIBUTION - DÉCILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 30 67 86 92 123 135 160 170 183 229 277

ANNUAL GEOMETRIC MEAN 125.2 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 16.7 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 97 % DE DONNEES DISPONIBLES



LOCATION LONDON

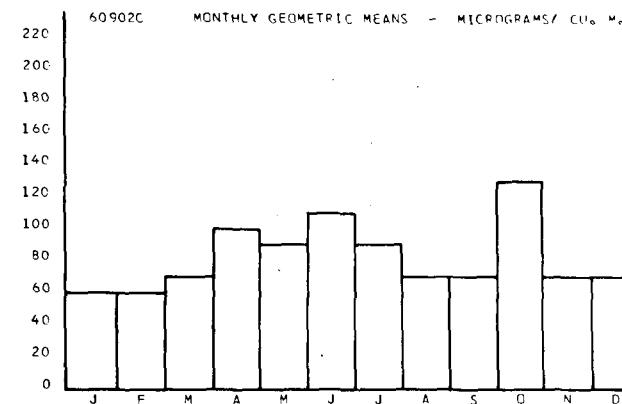
STATION 60902C 372 DUNDAS

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 30 52 57 69 72 76 86 99 127 156 180

ANNUAL GEOMETRIC MEAN 82.5 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 10.6 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 86 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION SARNIA

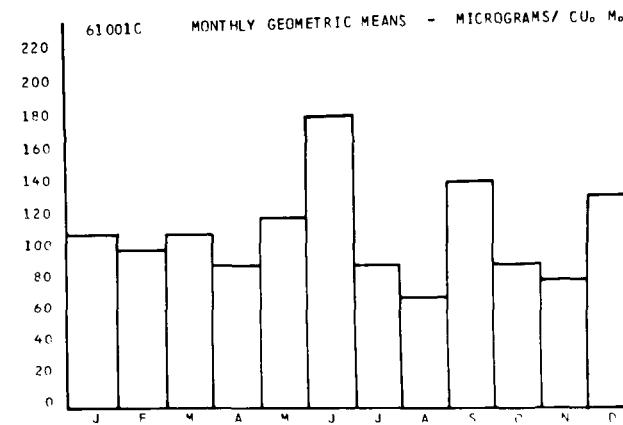
STATION 61001C 156 VICTORIA STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN<sub>n</sub> 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX<sub>n</sub>  
39 61 72 83 93 100 114 136 152 168 333

ANNUAL GEOMETRIC MEAN 105.1 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.6 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 96 % DE DONNEES DISPONIBLES



▲2

LOCATION PETERBOROUGH

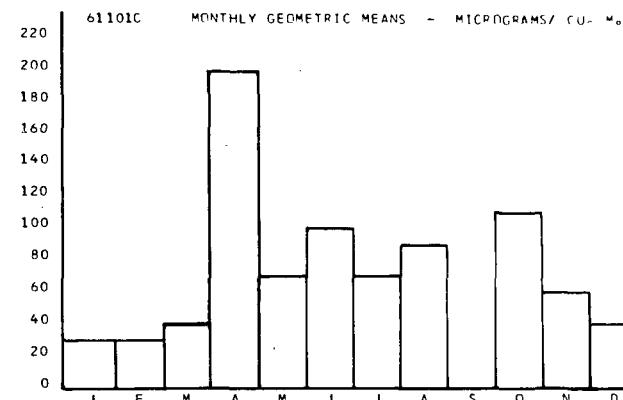
STATION 61101C FIRE HALL

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN<sub>n</sub> 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX<sub>n</sub>  
10 20 34 47 52 59 62 82 110 171 506

ANNUAL GEOMETRIC MEAN 61.0 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.3 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION WINNIPEG

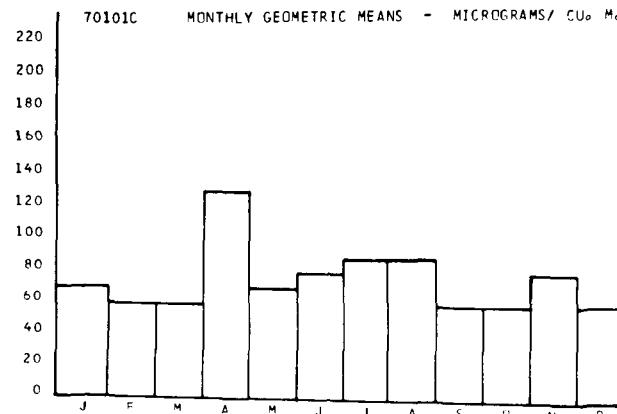
STATION 70101C KENNEDY ST. & YORK AVE.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
23 36 48 54 64 76 90 95 103 122 153

ANNUAL GEOMETRIC MEAN 72.7 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.6 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 94 % DE DONNEES DISPONIBLES



43

LOCATION WINNIPEG

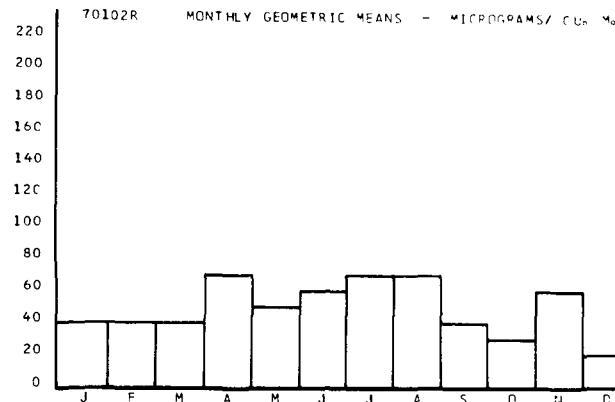
STATION 70102R PORTAGE AT WOODLAWN

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
18 20 28 32 41 50 54 73 86 96 132

ANNUAL GEOMETRIC MEAN 49.4 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.7 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION WINNIPEG

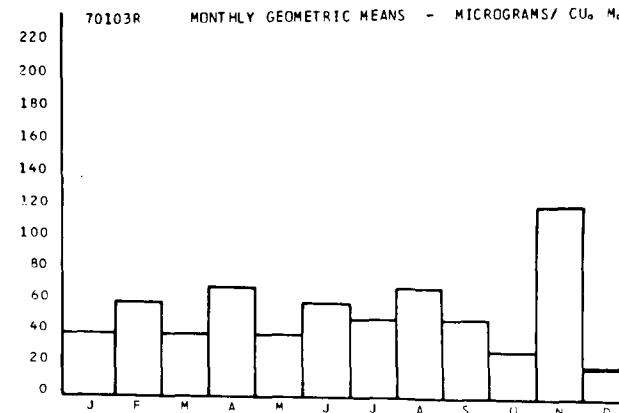
STATION 70103R HARTFORD AT AIKENS

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 18 22 27 32 42 51 54 59 67 87 135

ANNUAL GEOMETRIC MEAN 47.4 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.7 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 87 % DE DONNEES DISPONIBLES



LOCATION WINNIPEG

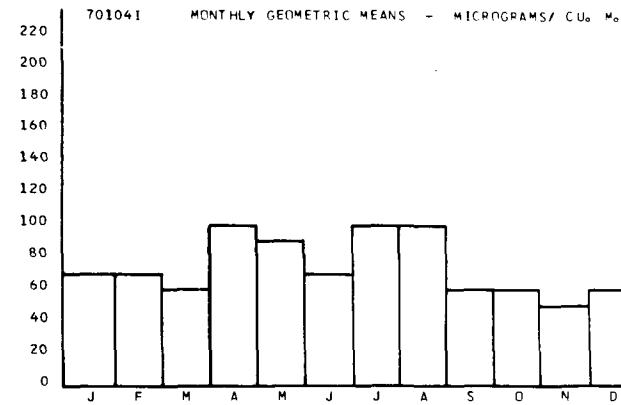
STATION 70104I UNION STOCK YARDS

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 21 39 57 61 63 71 82 93 110 132 194

ANNUAL GEOMETRIC MEAN 75.2 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.6 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION REGINA

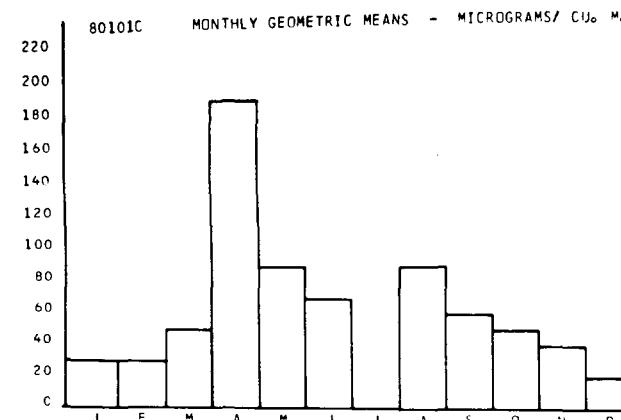
STATION 80101C 1955 SMITH STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
14 20 25 40 49 60 68 80 108 132 309

ANNUAL GEOMETRIC MEAN 57.0 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.1 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 78 % DE DONNEES DISPONIBLES



45

LOCATION REGINA

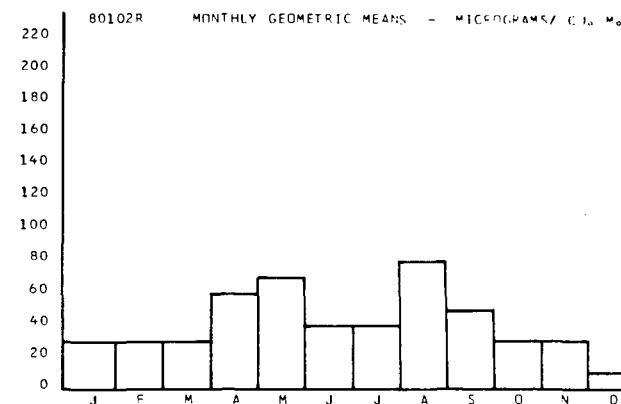
STATION 80102R 3211 ALBERT STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
12 16 21 27 31 36 42 52 59 71 93

ANNUAL GEOMETRIC MEAN 37.4 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.7 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 81 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION SASKATOON

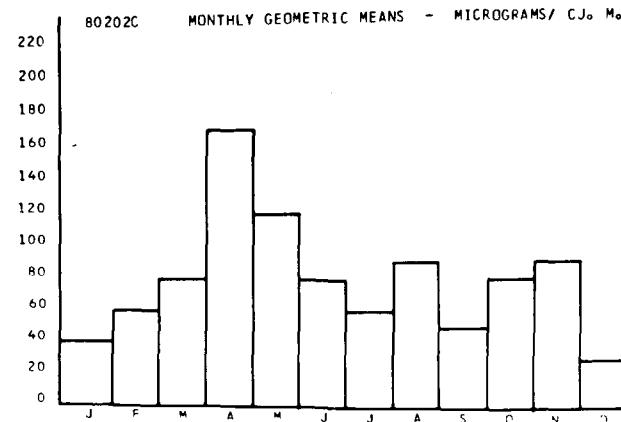
STATION 80202C CITY LIBRARY

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
17 27 41 51 60 73 81 104 114 153 266

ANNUAL GEOMETRIC MEAN 71.5 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.9 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



LOCATION SASKATOON

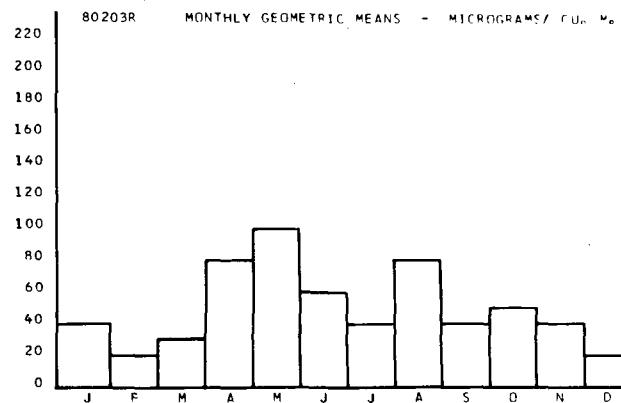
STATION 80203R MOUNT ROYAL LODGE

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
11 18 23 31 36 50 65 74 84 110 177

ANNUAL GEOMETRIC MEAN 48.1 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.0 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 80 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION EDMONTON

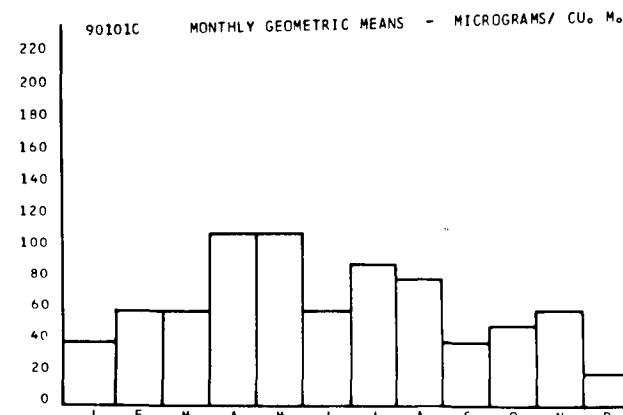
STATION 90101C 98TH AND JASPER

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
13 25 34 45 54 62 69 85 95 128 184

ANNUAL GEOMETRIC MEAN 59.8 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.8 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 96 % DE DONNEES DISPONIBLES



74

LOCATION EDMONTON

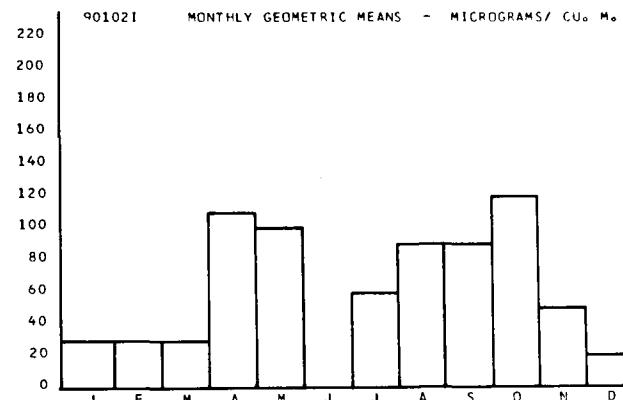
STATION 90102I 46TH ST. AND 104TH AVE.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
14 20 23 28 37 44 78 103 117 174 282

ANNUAL GEOMETRIC MEAN 56.1 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.2 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 83 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION EDMONTON

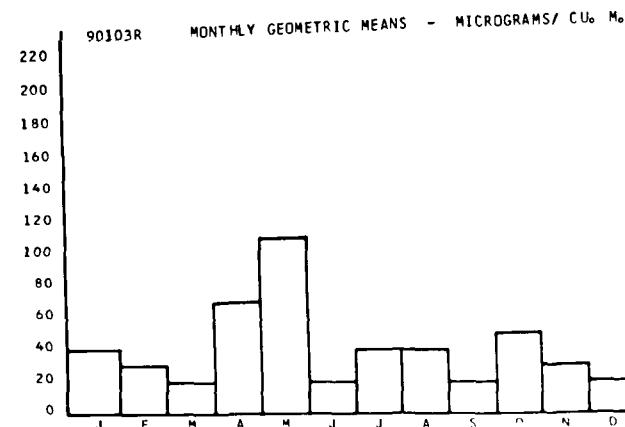
STATION 90103R 146TH ST. AND 92ND AVE.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
7 15 19 23 30 37 41 53 68 92 158

ANNUAL GEOMETRIC MEAN 37.2 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.0 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES



84

LOCATION CALGARY

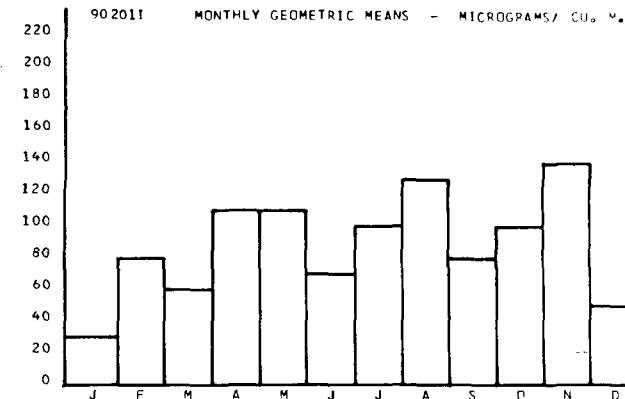
STATION 90201I 6411 20TH ST., S.E.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
19 35 46 59 71 83 90 104 174 195 268

ANNUAL GEOMETRIC MEAN 83.0 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.9 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION CALGARY

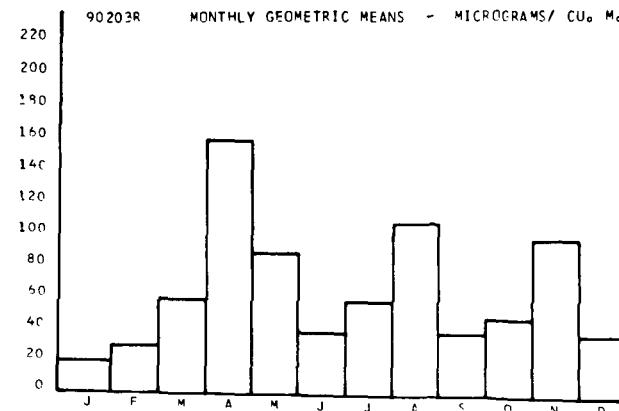
STATION 90203R 407 31ST AVE., N.W.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
11 22 28 35 50 59 75 91 108 172 296

ANNUAL GEOMETRIC MEAN 59.5 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 26.2 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES



LOCATION CALGARY

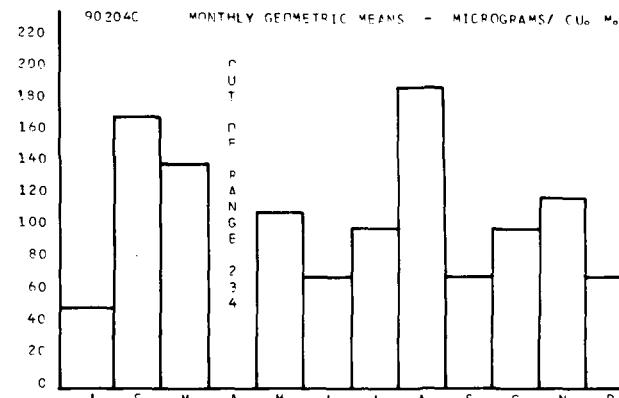
STATION 90204C 7 AVE. AND 2 ST., S.E.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
33 42 56 72 78 94 126 158 184 234 364

ANNUAL GEOMETRIC MEAN 105.2 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 16.9 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 61 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

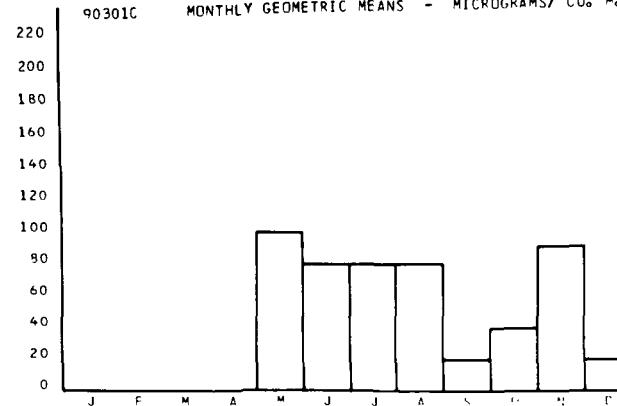
LOCATION RED DEER

STATION 90301C 4720 49TH STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
16 19 26 38 52 69 78 90 96 122 240

ANNUAL GEOMETRIC MEAN 59.1 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 2.1 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 78 % DE DONNEES DISPONIBLES

90301C MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CU. M.



50

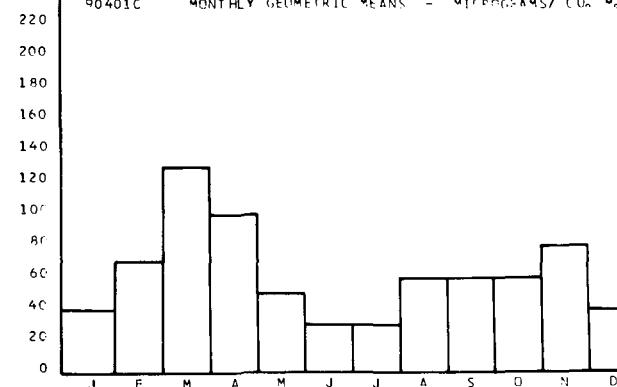
LOCATION MEDICINE HAT

STATION 90401C 770 FIRST ST., S.E.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
21 29 34 38 46 56 63 74 84 126 200

ANNUAL GEOMETRIC MEAN 57.3 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.7 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 67 % DE DONNEES DISPONIBLES

90401C MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CU. M.



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION LETHBRIDGE

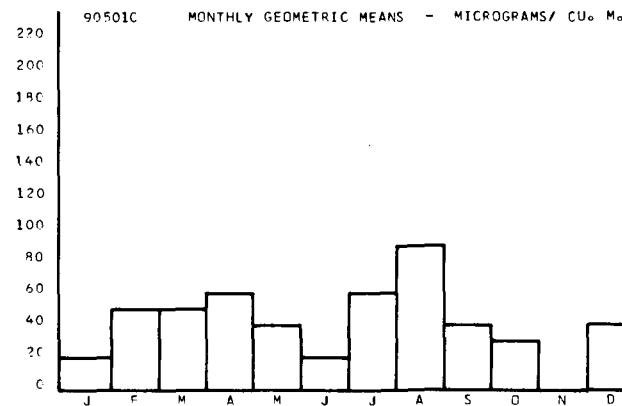
STATION 90501C 13 ST. AND 9 AVE. S.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
6 16 25 30 35 41 46 53 73 92 134

ANNUAL GEOMETRIC MEAN 41.2 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.9 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 74 % DE DONNEES DISPONIBLES



51

LOCATION VANCOUVER

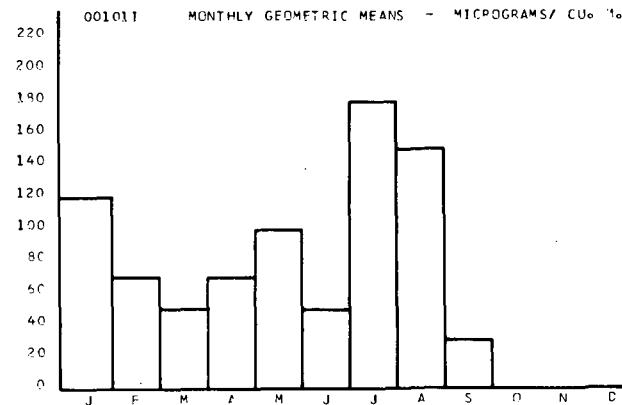
STATION 00101I VANCOUVER PILE DRIVING

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
27 40 56 63 73 79 94 109 118 156 300

ANNUAL GEOMETRIC MEAN 83.4 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.7 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 61 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION VANCOUVER

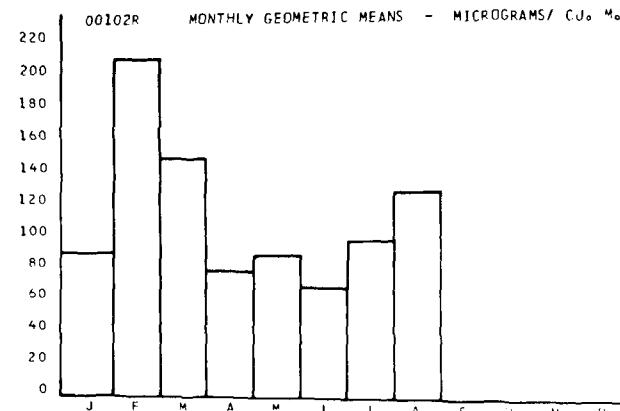
STATION 00102R 100 RICHMOND ST.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
38 60 66 75 83 99 122 135 163 180 275

ANNUAL GEOMETRIC MEAN 105.7 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.6 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 60 % DE DONNEES DISPONIBLES



52

LOCATION VANCOUVER

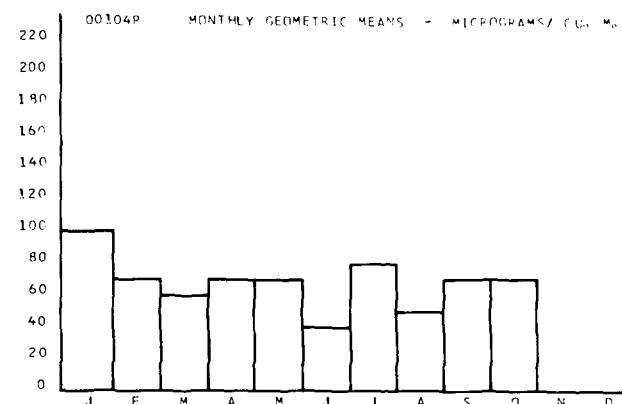
STATION 00104R 27TH AND ONTARIO

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
27 39 46 53 56 69 75 88 92 121 169

ANNUAL GEOMETRIC MEAN 69.2 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.5 Ecart-type GEOMETRIQUE

% OF DATA AVAILABLE 71 % DE DONNEES DISPONIBLES



TOTAL PARTICULATES  
MICROGRAMS PER CUBIC METRE  
PARTICULES EN SUSPENSION

LOCATION VANCUVER

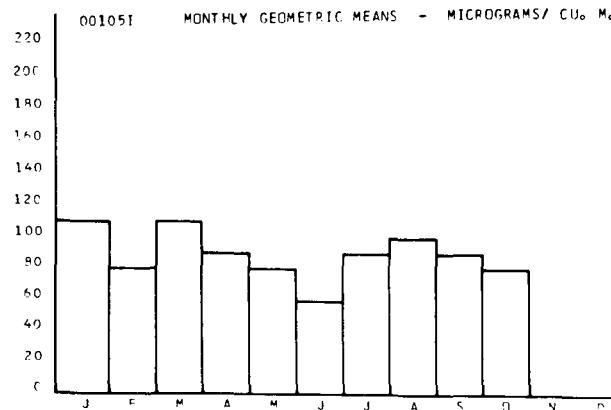
STATION 001051 739 W. HASTINGS ST.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
45 54 63 69 76 85 92 110 130 141 166

ANNUAL GEOMETRIC MEAN 88.5 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.4 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 73 % DE DONNEES DISPONIBLES



53

LOCATION VICTORIA

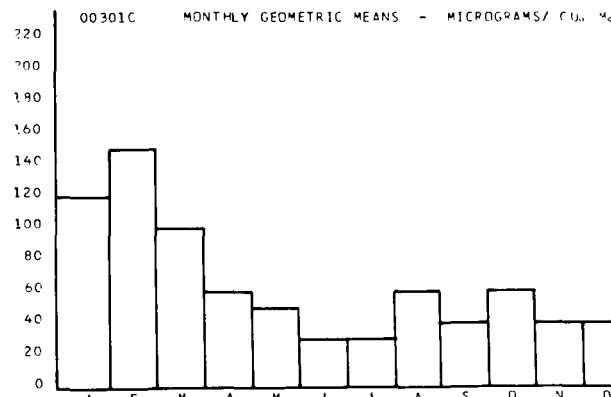
STATION 00301C POLICE STN. (HERALD ST.)

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
15 25 34 42 48 56 64 78 94 141 185

ANNUAL GEOMETRIC MEAN 59.1 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.8 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



Lead

The reader is referred to the previous section (Suspended Particulates) for the details of sampling methodology. After the filter is removed from the high volume sampler it is analysed, subsequent to the determination of total particulate loading, for its lead content by atomic absorption spectroscopy. Prior to September, 1970, lead content was determined by x-ray fluorescence. The units of measurement are micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

Like total particulate loadings, lead values generally follow a log-normal distribution. The presentation is identical to that of the previous section. Deciles and annual maximum and minimum are given for the distribution of observed lead values while the annual geometric mean and the geometric standard deviation are quoted for the log-normal distribution. The percentage of data available is also given. Accompanying each table is a graphical display in histogram form of the monthly geometric mean of lead values ( $\mu\text{g}/\text{m}^3$ ).

Teneurs en plomb

Le lecteur trouvera à la section précédente (particules en suspension) les détails relatifs à l'échantillonnage. A la suite de la mesure des particules en suspension on procède au dosage du plomb par spectroscopie d'absorption atomique. Les résultats, antérieurs à septembre 1970, furent obtenus par fluorescence des rayons-x. On exprime les teneurs en plomb en microgrammes par mètre cube d'air ( $\mu\text{g}/\text{m}^3$ ).

La courbe de distribution est normale si l'on emploie les logarithmes des concentrations tel que mentionné à la section sur les particules en suspension. De même on rapporte les déciles des valeurs telles que mesurées (non les logarithmes) ainsi que le minimum et le maximum annuels et le pourcentage de données disponibles. De plus, on trouve les valeurs relatives à une courbe de distribution des logarithmes des concentrations, à savoir la moyenne géométrique annuelle et l'écart-type géométrique. Un histogramme des moyennes géométriques mensuelles de teneurs en plomb accompagne chaque table.

## STATIONS MEASURING LEAD VALUES

## STATIONS MESURANT LES VALEURS DE PLOMB

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
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 AND ONTARIO
00105	I,F	VANCOUVER, 739 W. HASTINGS ST.
00301	C,F	VICTORIA, POLICE STN. (HERALD ST.)

LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION HALIFAX

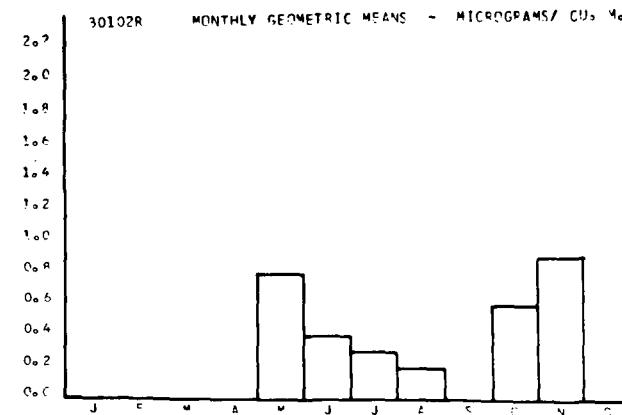
STATION 30102R DALHOUSIE UNIVERSITY

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.12 0.09 0.18 0.25 0.31 0.37 0.44 0.56 0.74 1.02 1.17

ANNUAL GEOMETRIC MEAN 0.39 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.05 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 55 % DE DONNEES DISPONIBLES



58

LOCATION SYDNEY

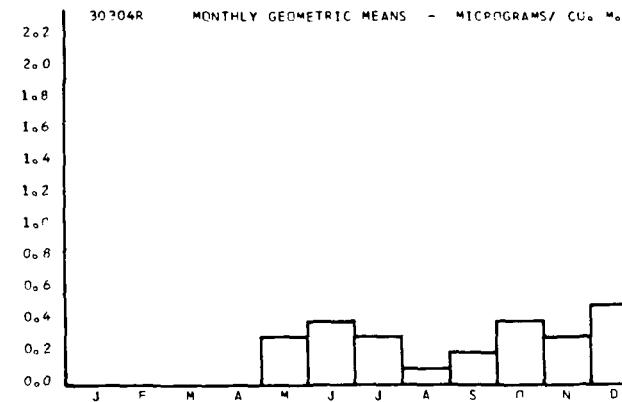
STATION 30304R CITY HOSPITAL

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.07 0.12 0.16 0.20 0.23 0.27 0.31 0.35 0.40 0.48 0.65

ANNUAL GEOMETRIC MEAN 0.29 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.63 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES

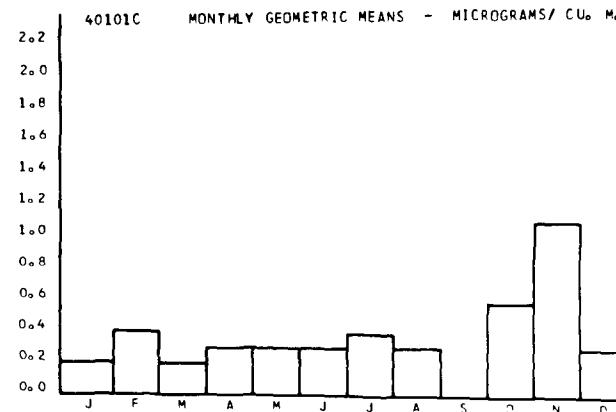


LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION FREDERICTON  
STATION 40101C WOODSTOCK ROAD

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.14 0.13 0.16 0.20 0.24 0.28 0.33 0.38 0.49 0.57 1.06

ANNUAL GEOMETRIC MEAN 0.31 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.68 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 58 % DE DONNEES DISPONIBLES

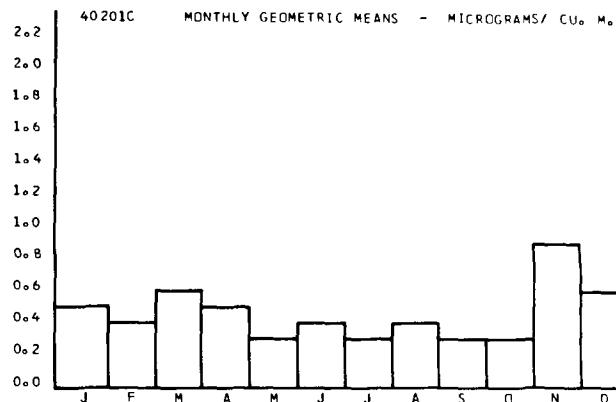


59

LOCATION SAINT JOHN  
STATION 40201C 110 CHARLOTTE ST.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.15 0.21 0.26 0.30 0.34 0.38 0.44 0.50 0.59 0.74 1.08

ANNUAL GEOMETRIC MEAN 0.43 MOYENNE ANNUELLE GEOMETRIQUE  
GEOMETRIC STANDARD DEVIATION 1.56 ECART-TYPE GEOMETRIQUE  
% OF DATA AVAILABLE 77 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLDMB

LOCATION MONCTON

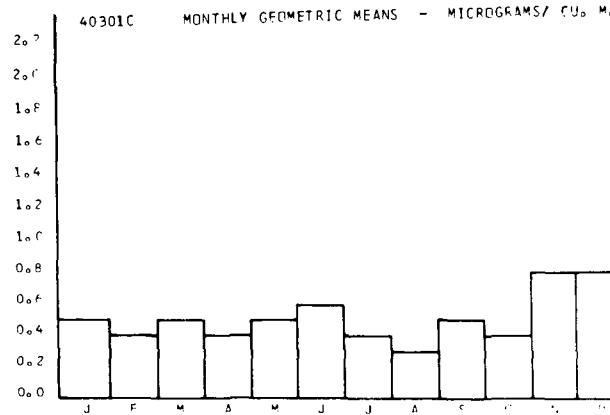
STATION 40301C POST OFFICE

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.21 0.23 0.28 0.34 0.40 0.46 0.51 0.58 0.67 0.77 0.98

ANNUAL GEOMETRIC MEAN 0.48 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.51 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 86 % DE DONNEES DISPONIBLES



LOCATION MONTREAL

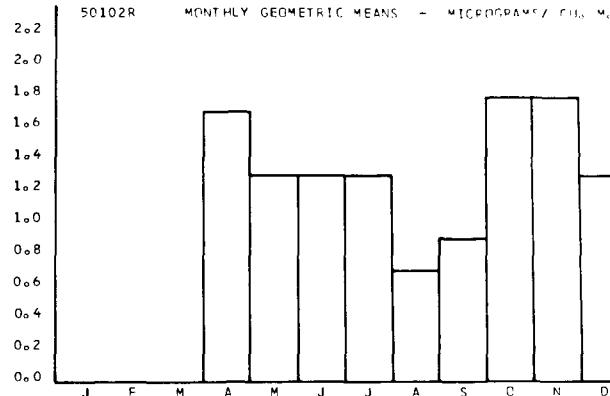
STATION 50102R BOTANICAL GARDENS

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.30 0.63 0.72 0.86 1.07 1.31 1.39 1.63 1.89 2.26 4.95

ANNUAL GEOMETRIC MEAN 1.26 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.75 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 79 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION MONTREAL

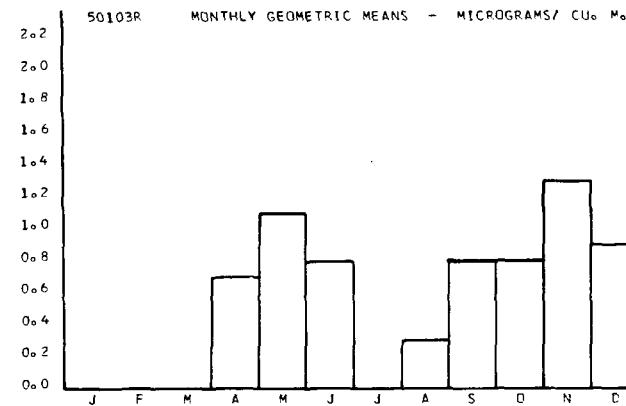
STATION 50103R POINTE AUX TREMBLES

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 0.13 0.24 0.39 0.56 0.65 0.77 0.85 0.93 1.30 1.38 2.38

ANNUAL GEOMETRIC MEAN 0.73 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.94 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 73 % DE DONNEES DISPONIBLES



LOCATION MONTREAL

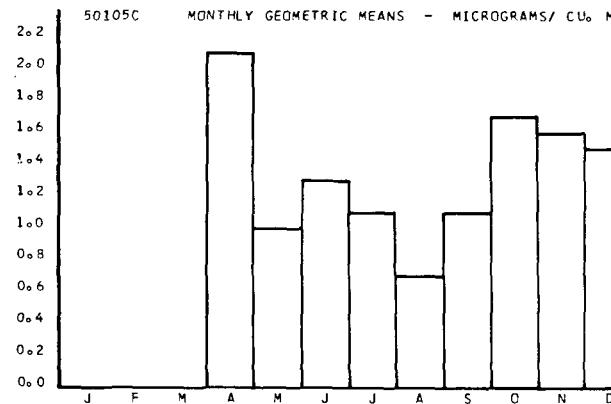
STATION 50105C 1212 DRUMMOND

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 0.30 0.71 0.81 0.93 1.09 1.20 1.32 1.51 1.72 1.88 4.09

ANNUAL GEOMETRIC MEAN 1.18 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.68 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 82 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION MONTREAL

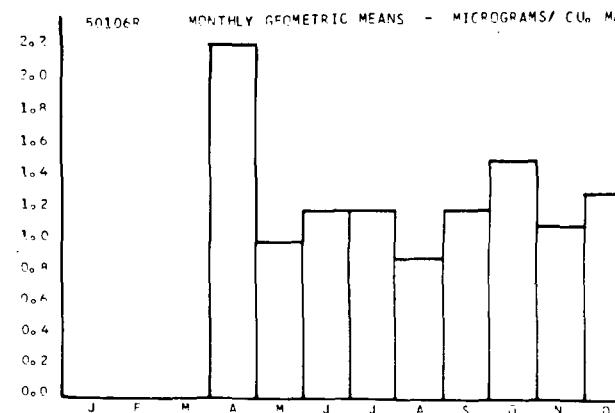
STATION 50106R VILLE ST. LAURENT

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.44 0.64 0.78 0.90 0.98 1.12 1.34 1.51 1.73 2.07 3.14

ANNUAL GEOMETRIC MEAN 1.19 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.59 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 87 % DE DONNEES DISPONIBLES



62

LOCATION MONTREAL

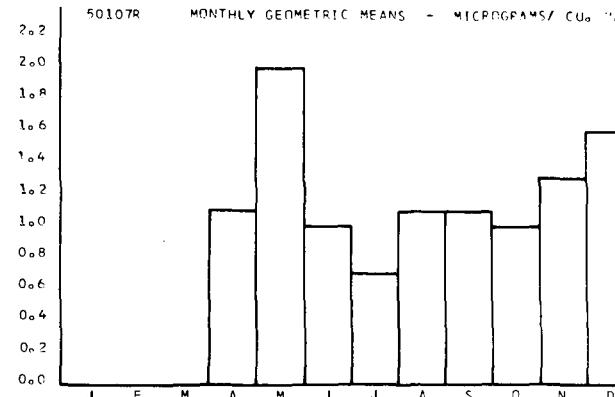
STATION 50107R VILLE LASALLE

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.30 0.43 0.64 0.74 0.81 1.00 1.19 1.28 2.38 3.64 6.09

ANNUAL GEOMETRIC MEAN 1.19 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.12 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 95 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION HULL

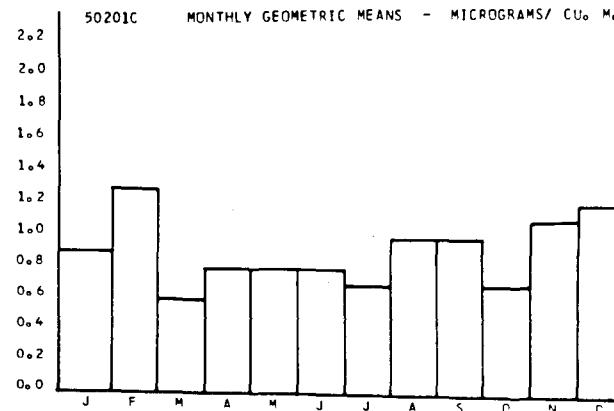
STATION 50201C RUE PRINCIPALE

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.27 0.41 0.59 0.66 0.75 0.85 0.96 1.06 1.24 1.67 2.29

ANNUAL GEOMETRIC MEAN 0.89 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.63 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 83 % DE DONNEES DISPONIBLES



63

LOCATION OTTAWA

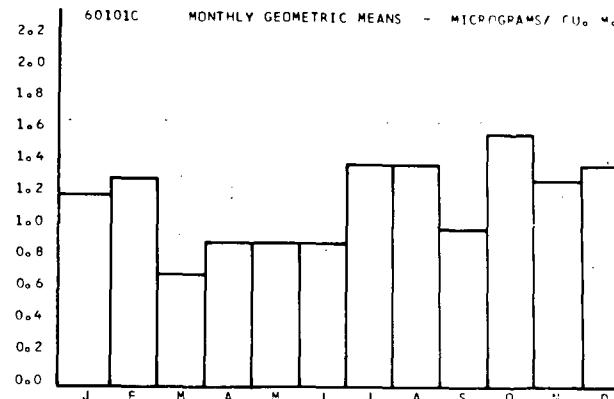
STATION 60101C SLATER AND ELGIN

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.32 0.57 0.67 0.80 0.93 1.08 1.24 1.40 1.68 2.62

ANNUAL GEOMETRIC MEAN 1.13 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.64 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION WINDSOR

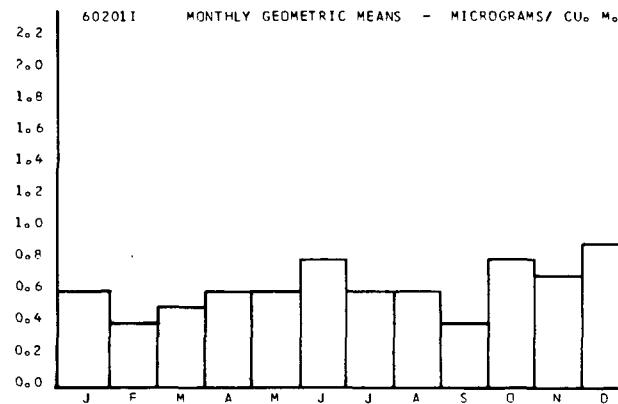
STATION 60201I MORTEN TERMINAL DOCK

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.22 0.31 0.40 0.45 0.50 0.57 0.65 0.71 0.79 1.11 1.94

ANNUAL GEOMETRIC MEAN 0.62 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.57 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



LOCATION WINDSOR

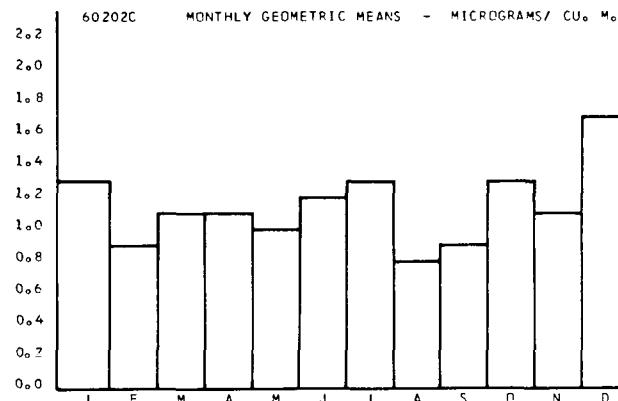
STATION 60202C CITY HALL

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.42 0.68 0.75 0.81 0.91 1.02 1.09 1.31 1.56 1.71 2.10

ANNUAL GEOMETRIC MEAN 1.10 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.43 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION WINDSOR

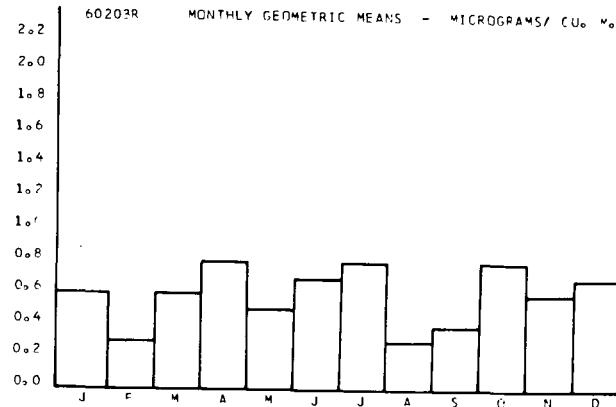
STATION 60203R WINDSOR-TECUMSEH WATER WORKS

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.15 0.21 0.30 0.37 0.44 0.51 0.59 0.73 0.86 1.07 2.62

ANNUAL GEOMETRIC MEAN 0.55 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.82 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 94 % DE DONNEES DISPONIBLES



65

LOCATION KINGSTON

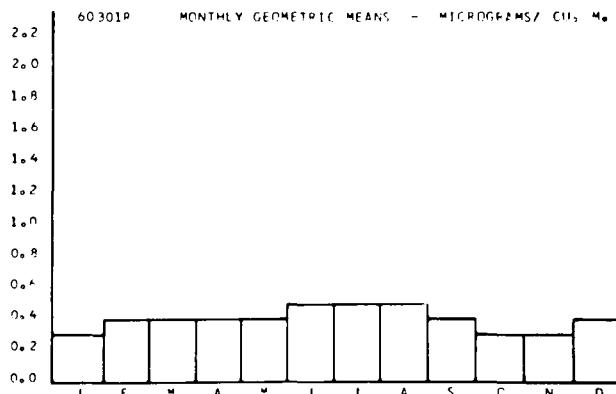
STATION 60301R QUEEN'S UNIVERSITY

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.19 0.21 0.24 0.27 0.30 0.33 0.37 0.41 0.50 0.60 0.71

ANNUAL GEOMETRIC MEAN 0.39 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.38 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 79 % DE DONNEES DISPONIBLES



LEAC VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION WINNIPEG

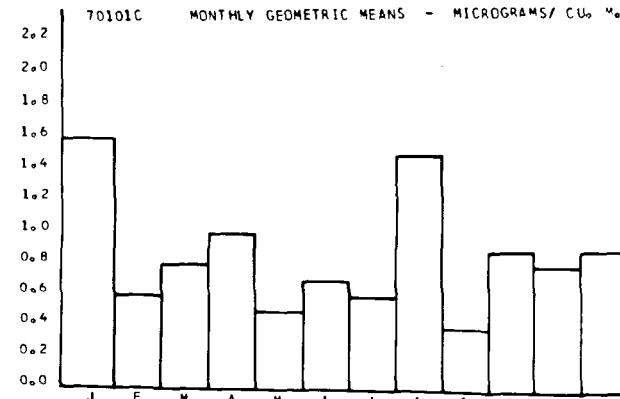
STATION 70101C KENNEDY ST. & YORK AVE.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 0.27 0.33 0.44 0.50 0.58 0.70 0.90 1.10 1.40 1.70 6.57

ANNUAL GEOMETRIC MEAN 0.82 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.93 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 94 % DE DONNEES DISPONIBLES



96

LOCATION WINNIPEG

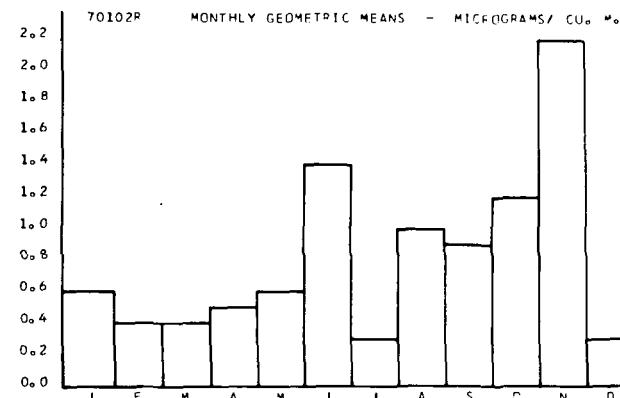
STATION 70102R PORTAGE AT WOODLAWN

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 0.17 0.20 0.25 0.31 0.43 0.64 0.75 0.93 1.41 3.21 18.67

ANNUAL GEOMETRIC MEAN 0.71 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.70 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION WINNIPEG

STATION 70103R HARTFORD AT AIKENS

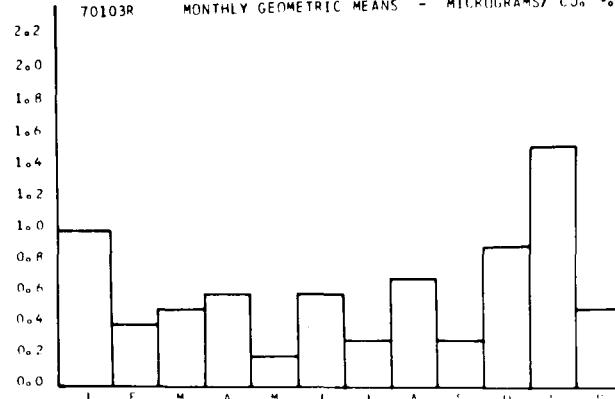
FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.1 0.16 0.22 0.25 0.29 0.36 0.49 0.67 1.26 1.64 3.59

ANNUAL GEOMETRIC MEAN 0.52 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.27 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 87 % DE DONNEES DISPONIBLES

70103R MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CUB. M.



67

LOCATION WINNIPEG

STATION 70104I UNION STOCK YARDS

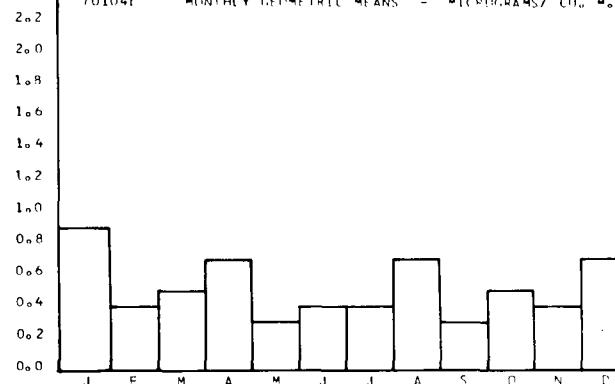
FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.13 0.14 0.21 0.26 0.31 0.37 0.48 0.66 0.87 1.41 2.40

ANNUAL GEOMETRIC MEAN 0.48 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.12 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES

70104I MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CUB. M.



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION REGINA

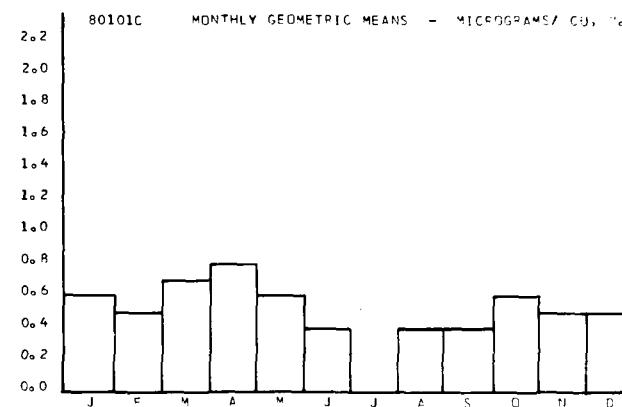
STATION 80101C 1955 SMITH STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.20 0.27 0.33 0.39 0.44 0.50 0.58 0.67 0.77 0.93 1.25

ANNUAL GEOMETRIC MEAN 0.55 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.50 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 78 % DE DONNEES DISPONIBLES



68

LOCATION REGINA

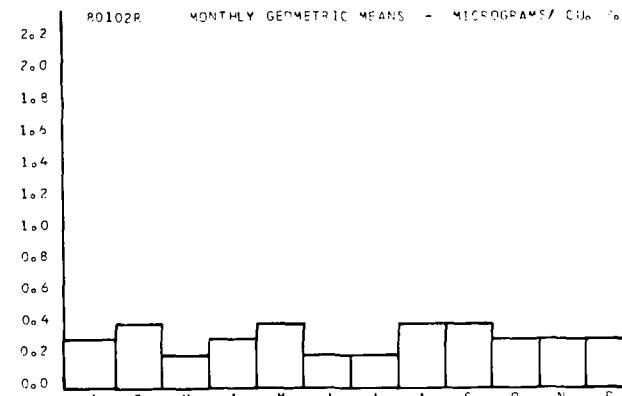
STATION 80102R 3211 ALBERT STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.06 0.07 0.12 0.16 0.20 0.27 0.32 0.36 0.39 0.49 0.65

ANNUAL GEOMETRIC MEAN 0.29 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.69 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 81 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION SASKATOON

STATION 80202C CITY LIBRARY

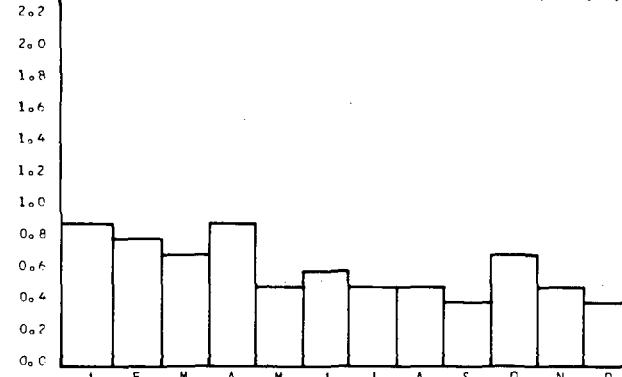
FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.23 0.27 0.25 0.41 0.49 0.58 0.65 0.73 0.84 0.93 1.26

ANNUAL GEOMETRIC MEAN 0.58 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.52 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 87 % DE DONNEES DISPONIBLES

80202C MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CU. M.



LOCATION SASKATOON

STATION 80203R MOUNT ROYAL LODGE

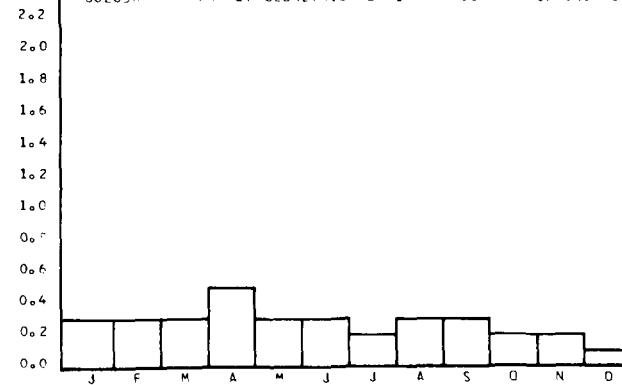
FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.09 0.06 0.11 0.15 0.18 0.22 0.27 0.32 0.40 0.46 0.70

ANNUAL GEOMETRIC MEAN 0.25 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.66 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 80 % DE DONNEES DISPONIBLES

80203R MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CU. M.



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION EDMONTON

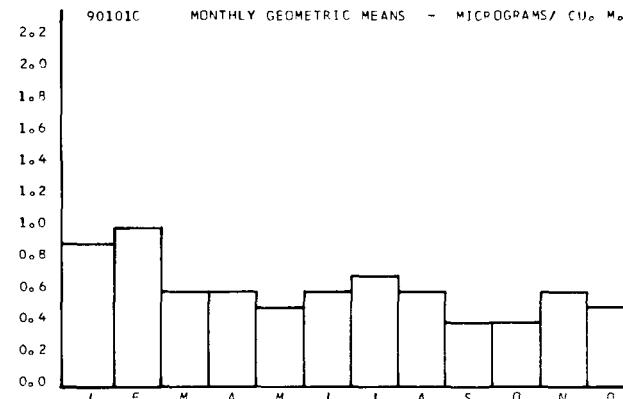
STATION 90101C 98TH AND JASPER

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.20 0.31 0.37 0.42 0.47 0.55 0.64 0.73 0.89 1.04 1.30

ANNUAL GEOMETRIC MEAN 0.60 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.57 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 96 % DE DONNEES DISPONIBLES



70

LOCATION EDMONTON

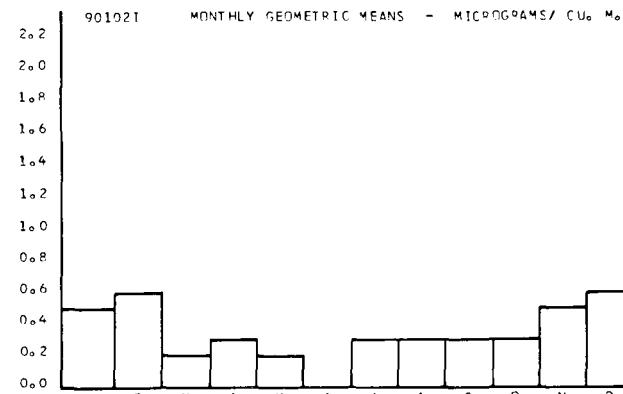
STATION 90102I 46TH ST- AN/ 104TH AVE.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.10 0.12 0.16 0.19 0.24 0.28 0.36 0.46 0.57 0.79 1.20

ANNUAL GEOMETRIC MEAN 0.36 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.86 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 83 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION EDMONTON

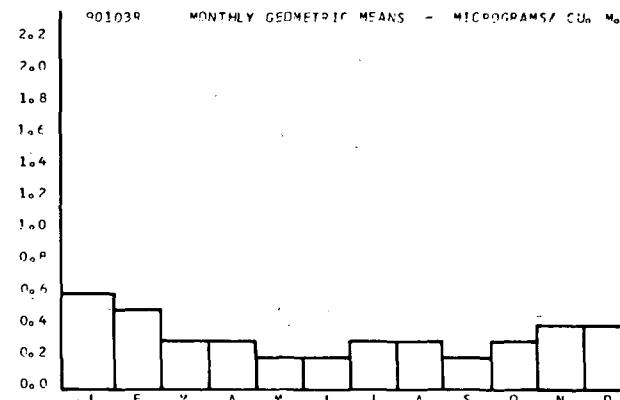
STATION 90103R 146TH ST. AND 92ND AVE.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.10 0.12 0.15 0.18 0.22 0.25 0.29 0.35 0.46 0.65 1.00

ANNUAL GEOMETRIC MEAN 0.32 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.70 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES



LOCATION CALGARY

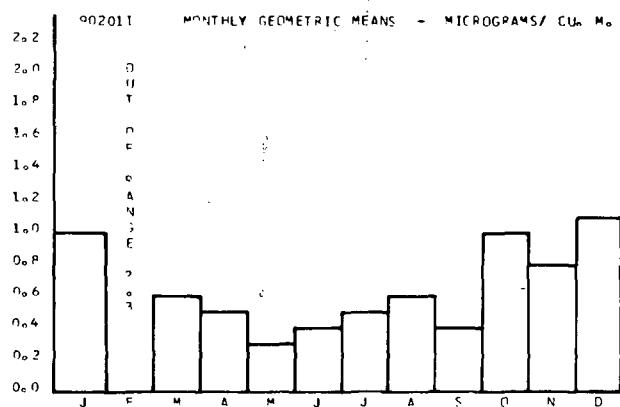
STATION 90201I 6411 20TH ST., S.E.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.10 0.21 0.29 0.37 0.44 0.51 0.64 0.84 1.01 1.86 3.60

ANNUAL GEOMETRIC MEAN 0.63 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 2.17 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION CALGARY

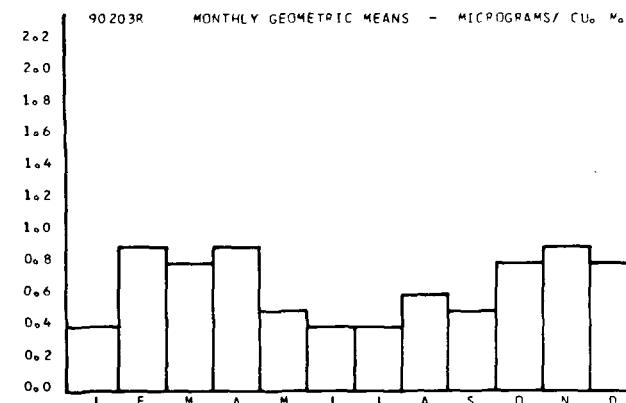
STATION 90203R 407 31ST AVE., N.W.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.20 0.25 0.33 0.42 0.48 0.54 0.63 0.79 0.97 1.32 1.90

ANNUAL GEOMETRIC MEAN 0.63 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.73 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES



LOCATION CALGARY

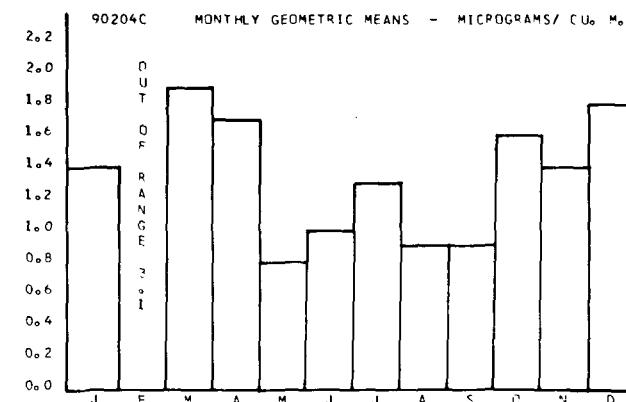
STATION 90204C 7 AVE. AND 2 ST., S.E.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.40 0.75 0.88 0.97 1.07 1.22 1.45 1.72 1.90 2.85 3.20

ANNUAL GEOMETRIC MEAN 1.35 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.63 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 61 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLUME

LOCATION PFO BEER

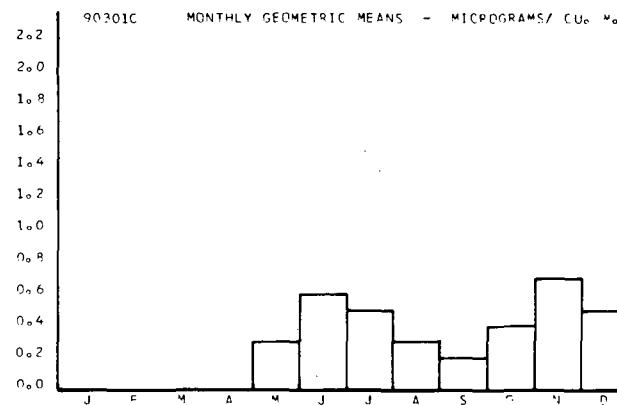
STATION 90301C 4720 49TH STREET

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.20 0.15 0.20 0.24 0.29 0.34 0.39 0.49 0.55 0.63 1.20

ANNUAL GEOMETRIC MEAN 0.39 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.62 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 75 % DE DONNEES DISPONIBLES



73

LOCATION MEDICINE HAT

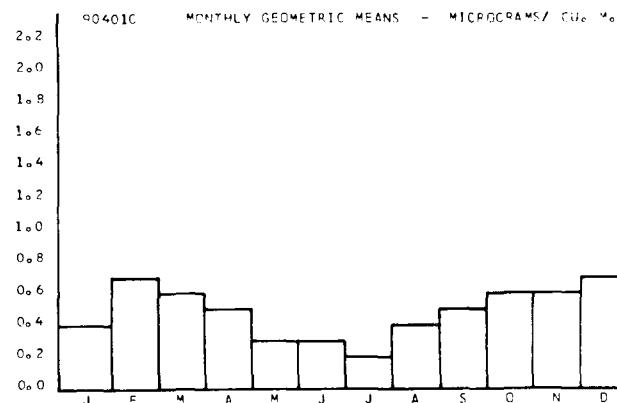
STATION 90401C 770 FIRST ST., S.E.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.10 0.20 0.25 0.29 0.35 0.42 0.49 0.56 0.64 0.81 1.30

ANNUAL GEOMETRIC MEAN 0.45 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.65 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 87 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION LETHBRIDGE

STATION 90501C 13 ST. AND 9 AVE. S.

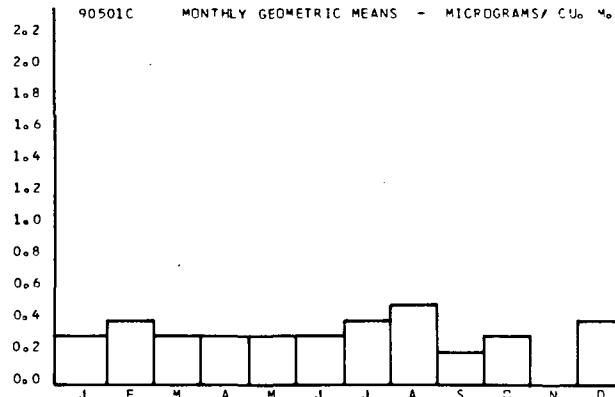
FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.10 0.11 0.14 0.17 0.21 0.27 0.33 0.39 0.46 0.60 0.80

ANNUAL GEOMETRIC MEAN 0.32 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.70 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 74 % DE DONNEES DISPONIBLES

90501C MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CU. M.



74

LOCATION VANCOUVER

STATION 00101I VANCOUVER PILE DRIVING

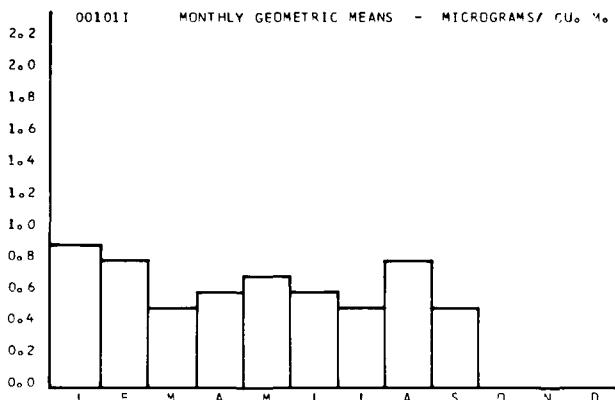
FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.25 0.40 0.44 0.47 0.51 0.62 0.71 0.79 0.94 1.09 1.39

ANNUAL GEOMETRIC MEAN 0.66 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.50 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 61 % DE DONNEES DISPONIBLES

00101I MONTHLY GEOMETRIC MEANS - MICROGRAMS/ CU. M.



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION VANCOUVER

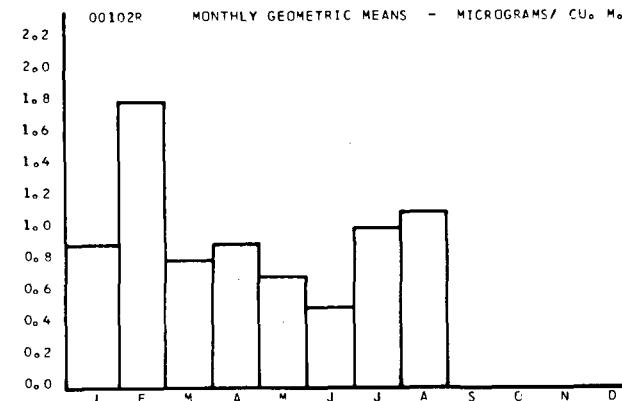
STATION 00102R 100 RICHMOND ST.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.43 0.42 0.46 0.49 0.58 0.75 0.93 1.08 1.58 1.77 2.54

ANNUAL GEOMETRIC MEAN 0.88 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.70 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 60 % DE DONNEES DISPONIBLES



75

LOCATION VANCOUVER

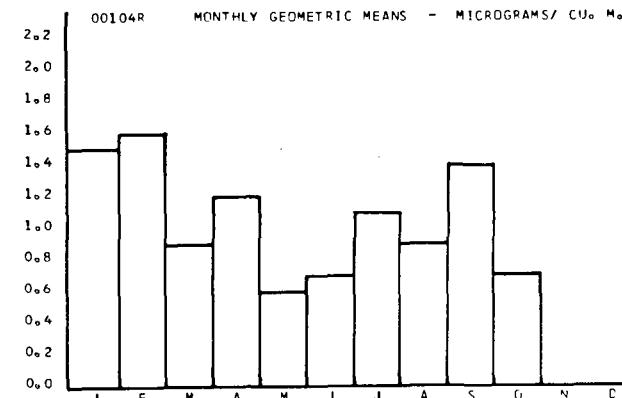
STATION 00104R 27TH AND ONTARIO

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
0.27 0.42 0.55 0.70 0.79 1.11 1.21 1.39 1.72 1.84 2.10

ANNUAL GEOMETRIC MEAN 1.00 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.69 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 71 % DE DONNEES DISPONIBLES



LEAD VALUES  
MICROGRAMS PER CUBIC METRE  
VALEURS DE PLOMB

LOCATION VANCOUVER

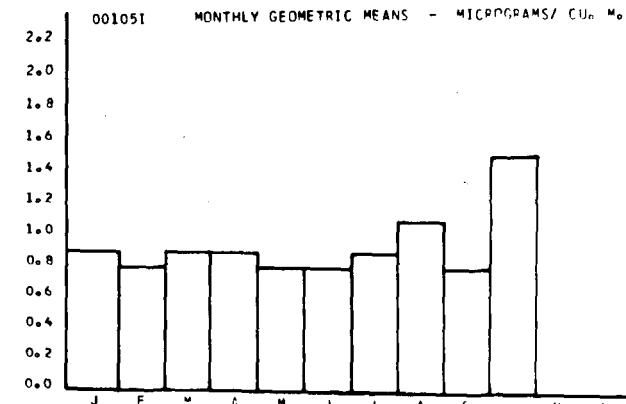
STATION 001051 739 W. HASTINGS ST.

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 0.48 0.53 0.59 0.72 0.76 0.83 0.94 1.02 1.13 1.36 2.03

ANNUAL GEOMETRIC MEAN 0.89 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.40 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 73 % DE DONNEES DISPONIBLES



LOCATION VICTORIA

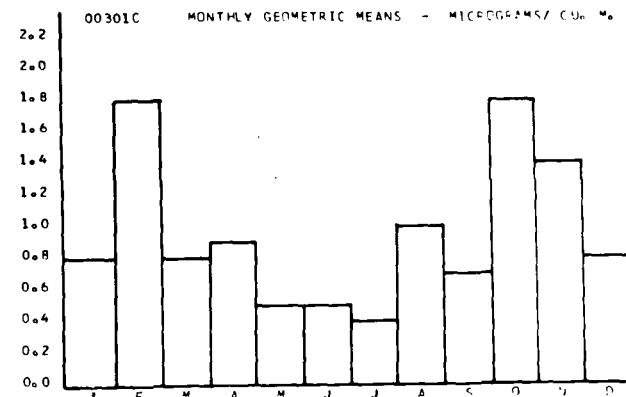
STATION 00301C POLICE STN. (HERALD ST.)

FREQUENCY DISTRIBUTION - DECILES - DISTRIBUTION DES FREQUENCES  
 MIN. 10% 20% 30% 40% 50% 60% 70% 80% 90% MAX.  
 0.20 0.29 0.39 0.53 0.64 0.78 1.01 1.20 1.44 1.71 2.79

ANNUAL GEOMETRIC MEAN 0.82 MOYENNE ANNUELLE GEOMETRIQUE

GEOMETRIC STANDARD DEVIATION 1.84 ECART-TYPE GEOMETRIQUE

% OF DATA AVAILABLE 89 % DE DONNEES DISPONIBLES



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 transmissions 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 mu wavelength. The soiling index is expressed as the number of COH units per 1000 linear feet of air drawn through the filter.

The tabulation of results gives percentiles of the distribution; maximum and minimum observed annual COH values; annual arithmetic mean; standard deviation and percentage of data available based on 2-hour COH values and daily means. Accompanying each table is a graphical display in histogram form of the monthly arithmetic mean of daily average values.

### Indices 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 de 2 heures et la poussière en suspension dans l'air se dépose sur le filtre produisant une tache circulaire. A toutes les 2 heures, le ruban avance de quelques pouces et une nouvelle tache est formée.

On mesure ensuite la quantité de lumière absorbée par la poussière. Les résultats sont exprimés en unités COH (coefficient d'obscurité). Une unité COH a été définie comme étant la quantité de particules produisant une densité optique de 0.01 dans un faisceau de lumière d'une longueur d'onde de 400 mu. L'indice de souillure est le nombre d'unité COH par 1,000 pieds linéaires d'air aspiré à travers le filtre.

Les tableaux présentent les centiles de la courbe de distribution des résultats; les valeurs COH annuelles maximales et minimales; la moyenne arithmétique annuelle, le pourcentage de résultats disponibles et l'écart-type des mesures individuelles (échantillonnage de 2 heures) et des moyennes journalières. Un histogramme des moyennes arithmétiques mensuelles des moyennes journalières accompagne chaque table.

## STATIONS MEASURING SOILING INDEX LEVELS

## 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-RECTOR Y
61001	C,P	SARNIA, 156 VICTORIA ST.
90113	C,P	EDMONTON, 100A AVE. AND 104 ST.
90115	I,P	EDMONTON, 147 ST. AND 116 AVE.
90118	R,P	EDMONTON, 73 AVE. 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.

SOILING INDEX LEVELS  
COH UNITS  
VALEURS DES INDICES DE SOUILLAGE

LOCATION SYDNEY  
STATION 30304P CITY HOSPITAL

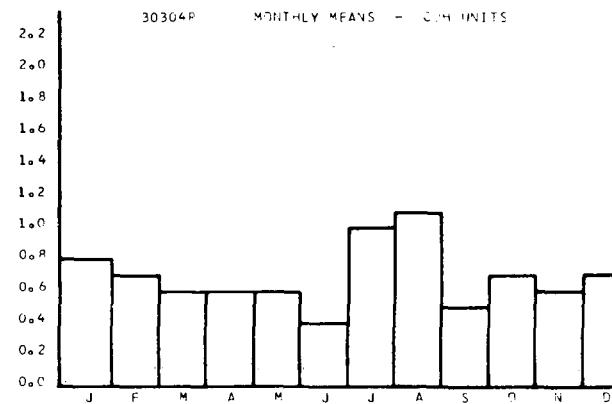
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL - INTERVALLE DE DEUX HEURES  
MIN 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.02 0.13 0.24 0.34 0.47 0.61 0.77 1.04 1.54 2.91 5.2

ANNUAL MEAN 0.68 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.65 Ecart-type  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS - MUYENNES QUOTIDIENNES  
MIN 10 20 30 40 50 60 70 80 90 99 MAX.  
0.04 0.21 0.34 0.43 0.50 0.57 0.66 0.77 0.88 1.17 2.01 2.21

ANNUAL MEAN 0.69 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.40 Ecart-type  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES

30304P MONTHLY MEANS - COH UNITS



81

LOCATION SYDNEY  
STATION 30306P LINGAN ROAD

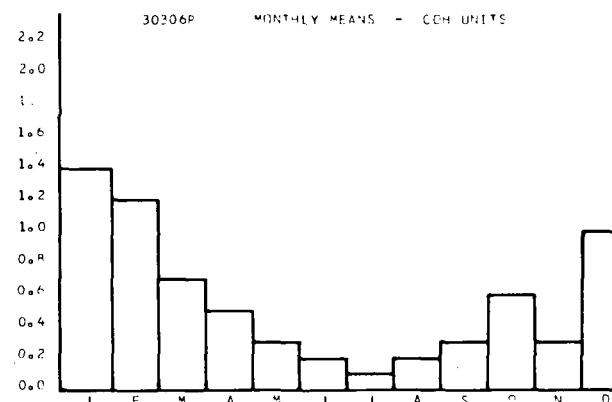
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL - INTERVALLE DE DEUX HEURES  
MIN 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.05 0.12 0.21 0.33 0.47 0.65 0.89 1.27 2.48 7.2

ANNUAL MEAN 0.66 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.59 Ecart-type  
% OF DATA AVAILABLE 98 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS - MUYENNES QUOTIDIENNES  
MIN 10 20 30 40 50 60 70 80 90 99 MAX.  
0.03 0.08 0.14 0.19 0.28 0.40 0.52 0.65 0.85 1.15 1.97 3.27

ANNUAL MEAN 0.65 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.45 Ecart-type  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

30306P MONTHLY MEANS - COH UNITS



SOILING INDEX LEVELS  
COH UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION GLACE BAY  
STATION 30403R PORT CALEDONIA

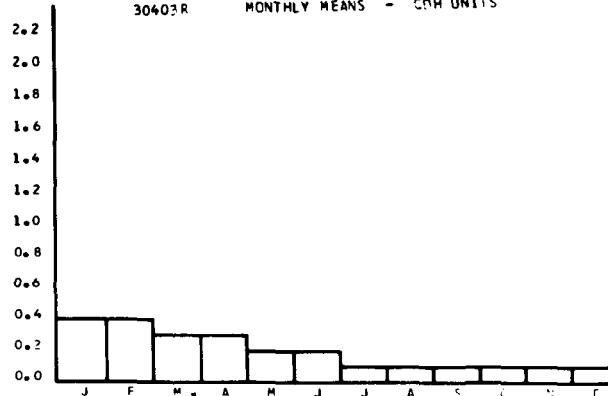
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.00 0.03 0.07 0.10 0.17 0.27 0.43 1.09 2.7

ANNUAL MEAN 0.19 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.24 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.03 0.01 0.03 0.05 0.08 0.10 0.14 0.18 0.24 0.35 0.64 0.87

ANNUAL MEAN 0.19 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.14 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES

30403R MONTHLY MEANS - COH UNITS



82

LOCATION GLACE BAY  
STATION 30406I PUMPING STATION ROAD

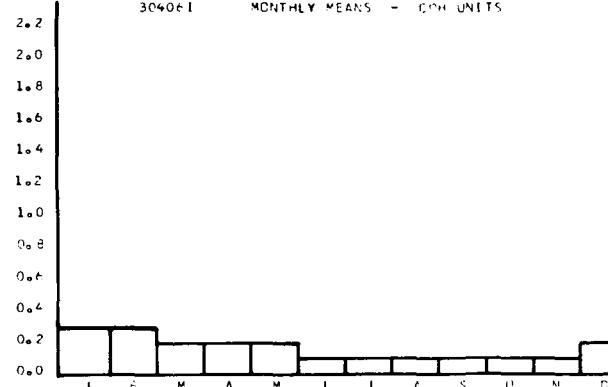
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.00 0.04 0.07 0.10 0.17 0.24 0.28 1.01 3.3

ANNUAL MEAN 0.18 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.23 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.03 0.02 0.04 0.06 0.08 0.10 0.14 0.17 0.21 0.30 0.57 0.83

ANNUAL MEAN 0.18 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.12 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

30406I MONTHLY MEANS - COH UNITS



SOILING INDEX LEVELS  
COH UNITS  
VALEURS DES INDICES DE SOUILLURE

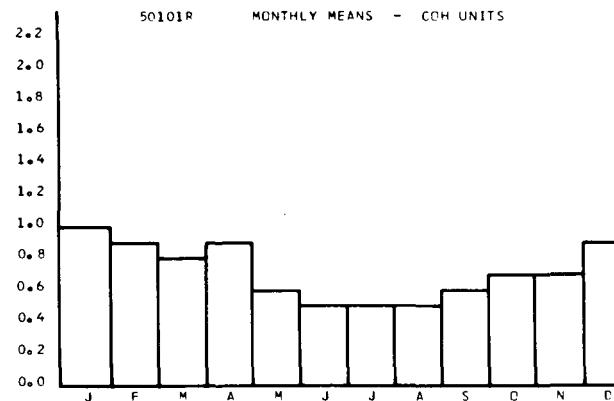
LOCATION MONTREAL  
STATION 50101R JARRY PARK

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.23 0.31 0.39 0.46 0.54 0.64 0.74 0.91 1.34 2.34 4.1

ANNUAL MEAN 0.71 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.47 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.19 0.33 0.41 0.46 0.52 0.58 0.65 0.75 0.89 1.14 1.79 2.13

ANNUAL MEAN 0.71 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.35 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES



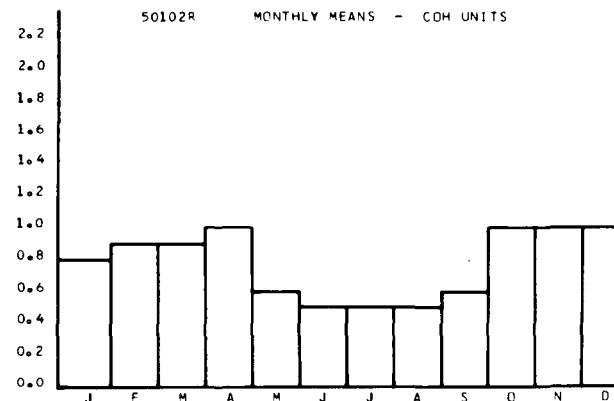
LOCATION MONTREAL  
STATION 50102R BOTANICAL GARDENS

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.26 0.36 0.44 0.49 0.61 0.69 0.79 0.97 1.43 2.48 4.1

ANNUAL MEAN 0.77 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.49 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.23 0.37 0.45 0.51 0.56 0.63 0.73 0.84 0.95 1.23 1.94 2.54

ANNUAL MEAN 0.77 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.36 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES



SOILING INDEX LEVELS  
COM UNITS  
VALEURS DES INDICES DE SOUILLURE

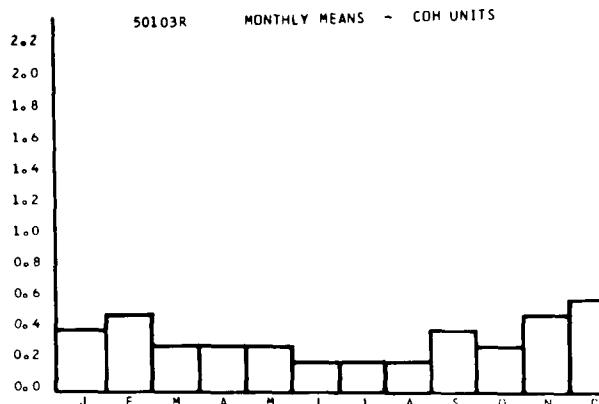
LOCATION MONTREAL  
STATION 50103R POINTE AUX TREMBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.00 0.03 0.08 0.14 0.19 0.25 0.30 0.37 0.45 0.62 0.97 2.00

ANNUAL MEAN 0.34 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.25 ECART-TYPE  
% OF DATA AVAILABLE 86 % DE DONNEES DISPONIBLES



84

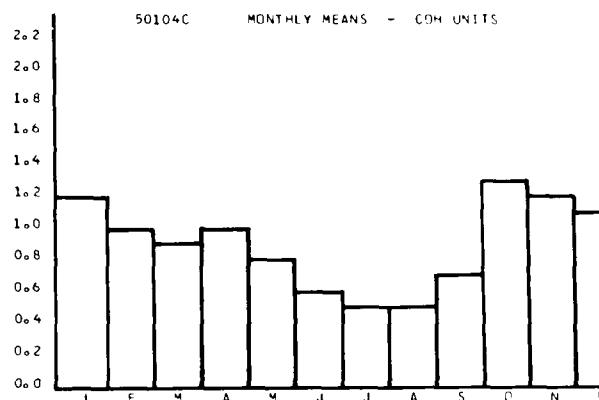
LOCATION MONTREAL  
STATION 50104C 1125 ONTARIO

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.20 0.39 0.50 0.59 0.68 0.76 0.85 0.97 1.12 1.40 2.27 3.00

ANNUAL MEAN 0.90 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.44 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES



SOILING INDEX LEVELS  
COM UNITS  
VALEURS DES INDICES DE SOUILLURE

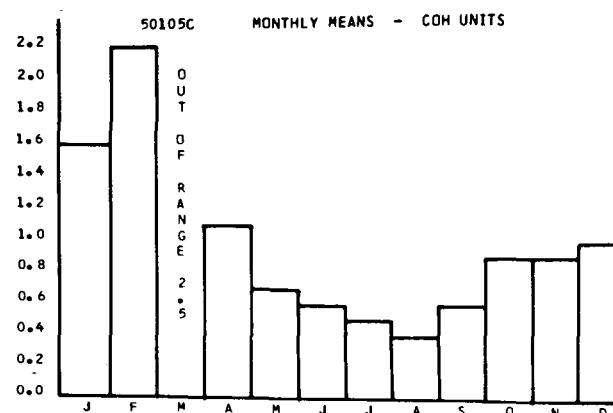
LOCATION MONTREAL  
STATION 50105C 1212 DRUMMOND

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.30 0.39 0.48 0.57 0.65 0.74 0.87 1.12 1.54 2.13 4.42 5.20

ANNUAL MEAN 1.10 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.83 ECART-TYPE  
% OF DATA AVAILABLE 98 % DE DONNEES DISPONIBLES



5

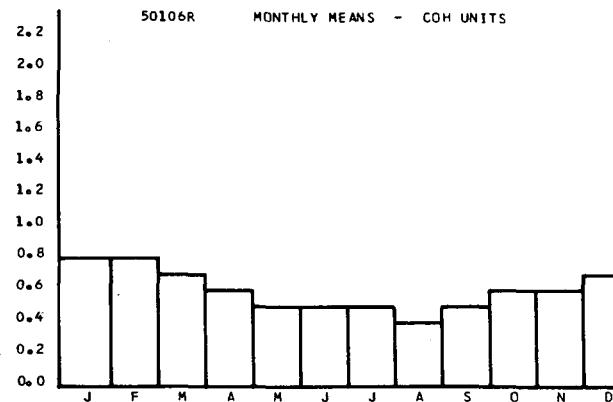
LOCATION MONTREAL  
STATION 50106R VILLE ST. LAURENT

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.20 0.31 0.35 0.39 0.43 0.47 0.52 0.59 0.72 0.88 1.44 2.20

ANNUAL MEAN 0.60 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.27 ECART-TYPE  
% OF DATA AVAILABLE 98 % DE DONNEES DISPONIBLES



SOILING INDEX LEVELS  
COH UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION MONTREAL  
STATION 50107R VILLE LASALLE

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

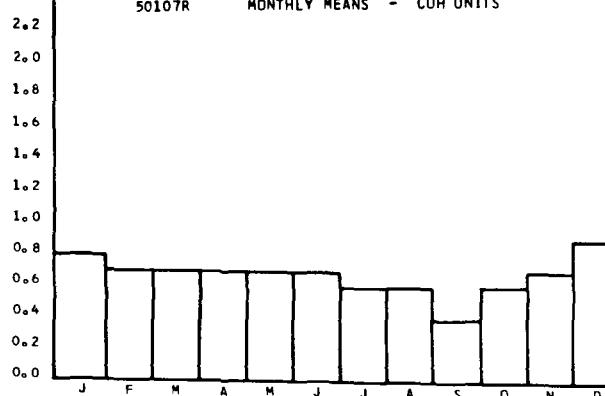
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.10 0.31 0.39 0.44 0.50 0.56 0.63 0.70 0.80 0.99 1.57 2.30

ANNUAL MEAN 0.67 MOYENNE ANNUELLE

STANDARD DEVIATION 0.30 ECART-TYPE

% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

50107R MONTHLY MEANS - COH UNITS



98

LOCATION HULL  
STATION 50201C RUE PRINCIPALE

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.03 0.09 0.15 0.21 0.27 0.37 0.67 1.34 2.8

ANNUAL MEAN 0.28 MOYENNE ANNUELLE

STANDARD DEVIATION 0.31 ECART-TYPE

% OF DATA AVAILABLE 98 % DE DONNEES DISPONIBLES

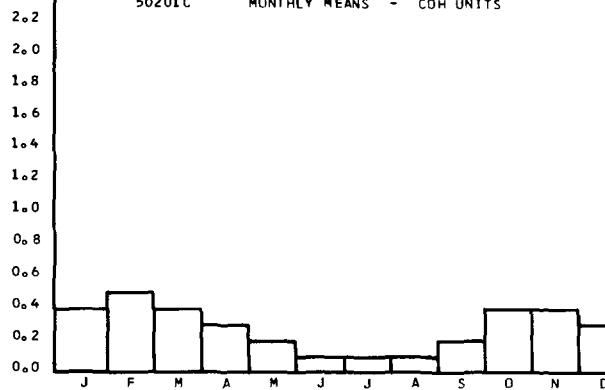
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.00 0.02 0.06 0.10 0.14 0.19 0.24 0.29 0.38 0.49 0.89 1.48

ANNUAL MEAN 0.28 MOYENNE ANNUELLE

STANDARD DEVIATION 0.21 ECART-TYPE

% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

50201C MONTHLY MEANS - COH UNITS



SOILING INDEX LEVELS  
COM UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION OTTAWA  
STATION 60101C SLATER AND ELGIN

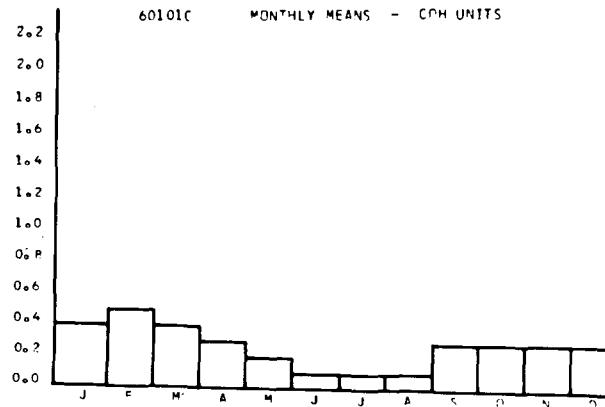
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.01 0.08 0.15 0.21 0.26 0.35 0.60 1.33 5.6

ANNUAL MEAN 0.26 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.33 ECART-TYPE  
% OF DATA AVAILABLE 96 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.00 0.00 0.05 0.09 0.14 0.18 0.23 0.28 0.35 0.47 0.82 2.06

ANNUAL MEAN 0.26 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.21 ECART-TYPE  
% OF DATA AVAILABLE 97 % DE DONNEES DISPONIBLES

60101C MONTHLY MEANS - COM UNITS



78

LOCATION OTTAWA  
STATION 60102R EXPERIMENTAL FARM

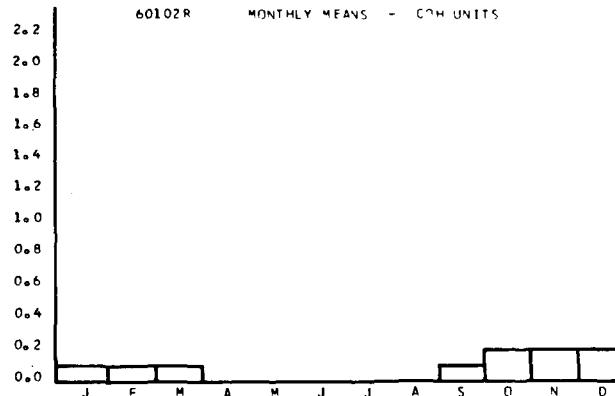
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.00 0.00 0.01 0.07 0.14 0.25 0.67 1.2

ANNUAL MEAN 0.09 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.15 ECART-TYPE  
% OF DATA AVAILABLE 90 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.00 0.00 0.00 0.00 0.01 0.04 0.08 0.12 0.21 0.39 0.68

ANNUAL MEAN 0.09 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.11 ECART-TYPE  
% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES

60102R MONTHLY MEANS - COM UNITS



SOILING INDEX LEVELS  
COPH UNITS  
VALEURS DES INDICES DE SOUILLAGE

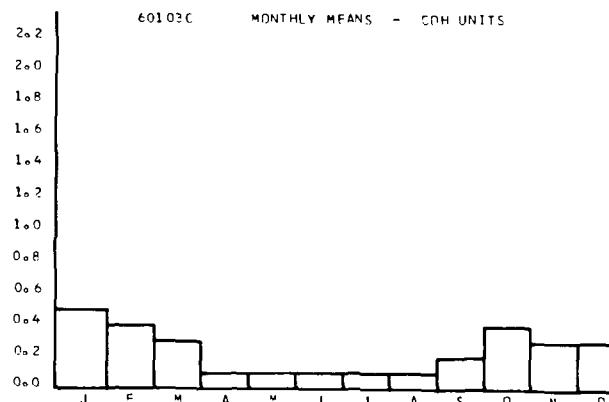
LOCATION OTTAWA  
STATION 60103C GILMOUR STREET

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.01 0.07 0.13 0.19 0.24 0.29 0.55 1.33 2.6

ANNUAL MEAN 0.24 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.29 ECART-TYPE  
% OF DATA AVAILABLE 87 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.00 0.00 0.03 0.07 0.12 0.17 0.22 0.27 0.34 0.44 0.80 1.09

ANNUAL MEAN 0.24 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.19 ECART-TYPE  
% OF DATA AVAILABLE 88 % DE DONNEES DISPONIBLES



88

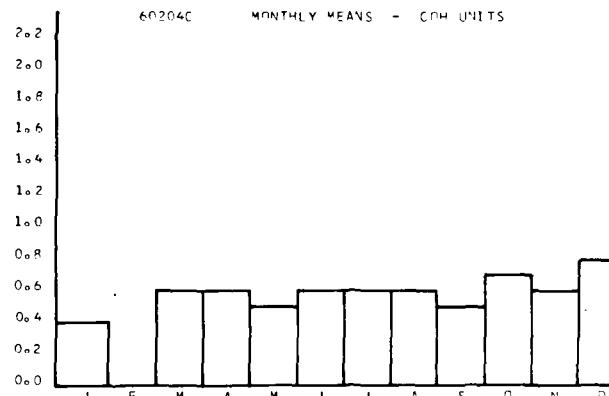
LOCATION WINDSOR 471 UNIVERSITY AVE  
STATION 60204C

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.20 0.28 0.34 0.41 0.47 0.55 0.65 0.77 0.98 1.74 2.9

ANNUAL MEAN 0.58 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.35 ECART-TYPE  
% OF DATA AVAILABLE 91 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.14 0.26 0.34 0.40 0.45 0.50 0.55 0.61 0.69 0.84 1.15 1.51

ANNUAL MEAN 0.58 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.22 ECART-TYPE  
% OF DATA AVAILABLE 92 % DE DONNEES DISPONIBLES



SOILING INDEX LEVELS  
COH UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION TORONTO  
STATION 60401C 67 COLLEGE STREET

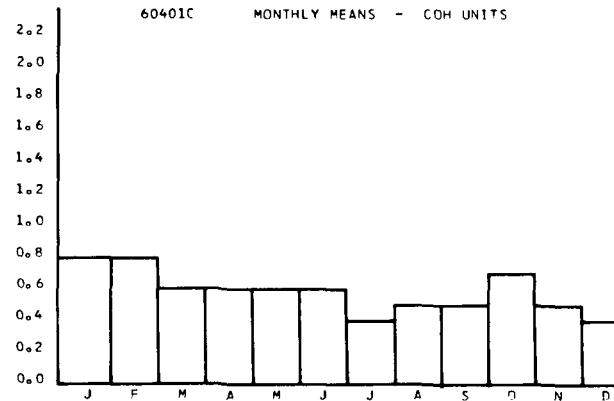
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.16 0.25 0.32 0.39 0.47 0.56 0.67 0.80 1.04 1.72 2.8

ANNUAL MEAN 0.57 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.36 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.13 0.21 0.28 0.35 0.42 0.48 0.56 0.65 0.76 0.93 1.25 1.52

ANNUAL MEAN 0.57 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.27 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES

60401C MONTHLY MEANS - COH UNITS



68

LOCATION TORONTO  
STATION 60402R DON MILLS, SCI. CENTRE

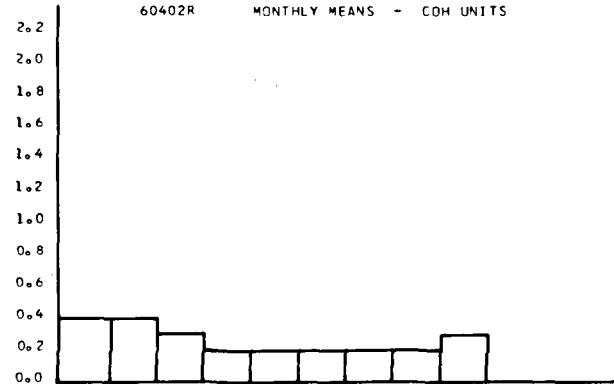
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.09 0.13 0.17 0.21 0.28 0.40 0.56 1.06 2.6

ANNUAL MEAN 0.27 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.25 ECART-TYPE  
% OF DATA AVAILABLE 73 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.07 0.05 0.10 0.13 0.16 0.19 0.23 0.27 0.33 0.44 0.71 0.92

ANNUAL MEAN 0.27 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.15 ECART-TYPE  
% OF DATA AVAILABLE 74 % DE DONNEES DISPONIBLES

60402R MONTHLY MEANS - COH UNITS



SIGHTING INDEX LEVELS  
CCH UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION TOR INTC  
STATION 604031 EVANS/ARNOLD

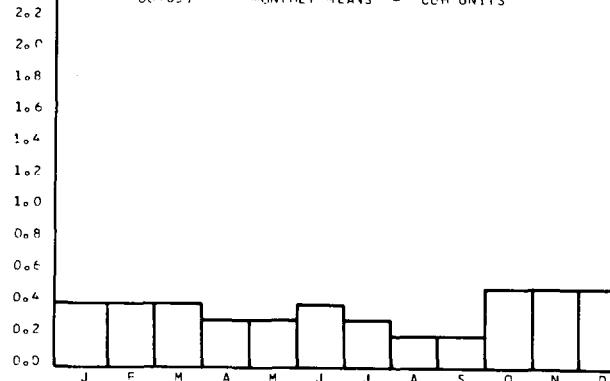
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.08 0.13 0.17 0.22 0.26 0.38 0.49 0.71 1.59 3.6

ANNUAL MEAN 0.36 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.34 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.04 0.14 0.19 0.23 0.26 0.30 0.37 0.46 0.61 1.24 1.56

ANNUAL MEAN 0.36 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.22 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

604031 MONTHLY MEANS - CCH UNITS



06

LOCATION TORONTO  
STATION 60407C CITY HALL

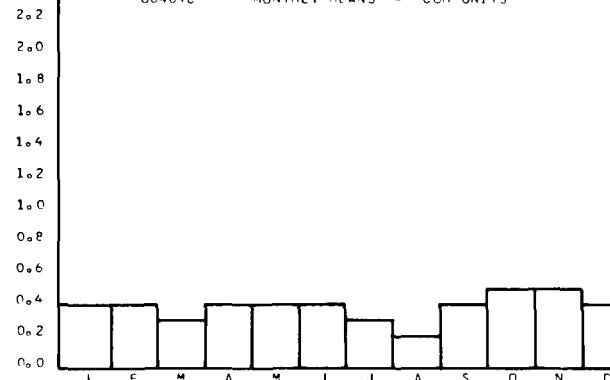
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.11 0.15 0.19 0.25 0.31 0.42 0.52 0.71 1.29 2.6

ANNUAL MEAN 0.37 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.30 ECART-TYPE  
% OF DATA AVAILABLE 94 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.13 0.18 0.22 0.25 0.29 0.34 0.39 0.46 0.57 1.22

ANNUAL MEAN 0.37 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.17 ECART-TYPE  
% OF DATA AVAILABLE 95 % DE DONNEES DISPONIBLES

60407C MONTHLY MEANS - CCH UNITS



SOILING INDEX LEVELS  
CCH UNITS  
VALEURS DES INDICES DE SUILLURE

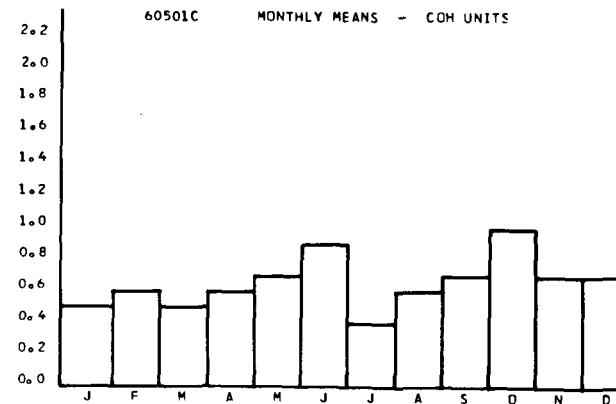
LOCATION HAMILTON  
STATION 60501C BARTON AND WENTWORTH

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.20 0.28 0.36 0.43 0.52 0.62 0.75 0.93 1.27 2.26 4.1

ANNUAL MEAN 0.67 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.47 ECART-TYPE  
% OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.12 0.28 0.35 0.41 0.47 0.53 0.59 0.72 0.87 1.12 1.73 2.50

ANNUAL MEAN 0.67 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.34 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES



10

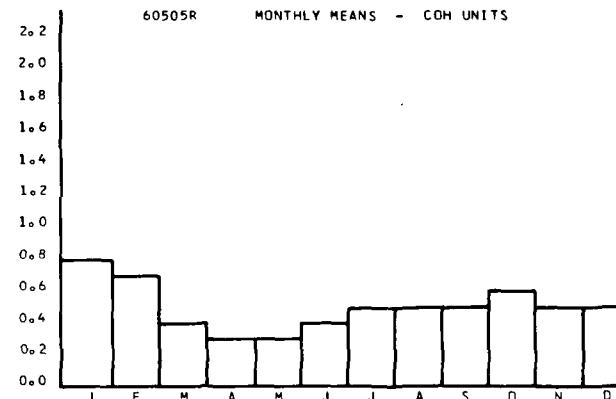
LOCATION HAMILTON  
STATION 60505R NORTH PARK

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.12 0.17 0.24 0.34 0.46 0.63 0.82 1.08 1.76 2.6

ANNUAL MEAN 0.51 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.43 ECART-TYPE  
% OF DATA AVAILABLE 96 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.06 0.10 0.18 0.26 0.33 0.41 0.48 0.60 0.75 0.94 1.29 1.45

ANNUAL MEAN 0.51 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.31 ECART-TYPE  
% OF DATA AVAILABLE 98 % DE DONNEES DISPONIBLES



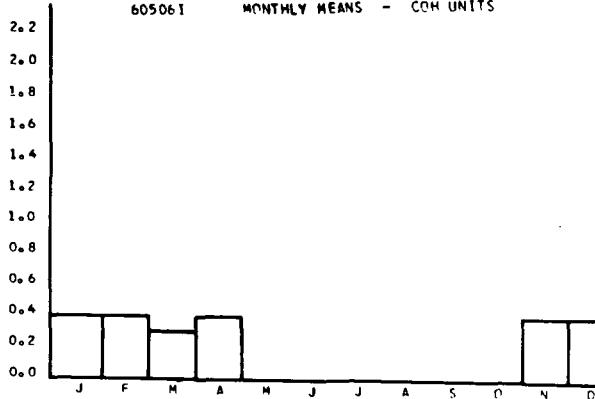
SOILING INDEX LEVELS  
COH UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION HAMILTON  
STATION 605061 WOODWARD-BRAMPTON

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.01 0.11 0.15 0.19 0.25 0.31 0.40 0.50 0.68 1.37 6.0  
ANNUAL MEAN 0.37 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.33 ECART-TYPE  
% OF DATA AVAILABLE 46 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.10 0.13 0.18 0.22 0.26 0.29 0.34 0.39 0.46 0.57 0.93 1.23  
ANNUAL MEAN 0.37 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.18 ECART-TYPE  
% OF DATA AVAILABLE 47 % DE DONNEES DISPONIBLES

605061 MONTHLY MEANS - COH UNITS



92

LOCATION SUDBURY  
STATION 60601C 50 CEDAR STREET

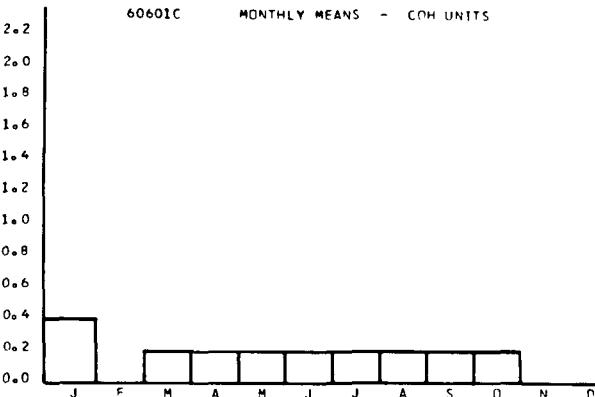
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.04 0.11 0.15 0.18 0.22 0.29 0.43 0.89 2.9

ANNUAL MEAN 0.22 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.22 ECART-TYPE  
% OF DATA AVAILABLE 63 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.02 0.03 0.07 0.11 0.13 0.15 0.18 0.20 0.25 0.30 0.63 0.75

ANNUAL MEAN 0.22 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.11 ECART-TYPE  
% OF DATA AVAILABLE 64 % DE DONNEES DISPONIBLES

60601C MONTHLY MEANS - COH UNITS



SOILING INDEX LEVELS  
COH UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION SUBURY  
STATION 60602R ASH STREET

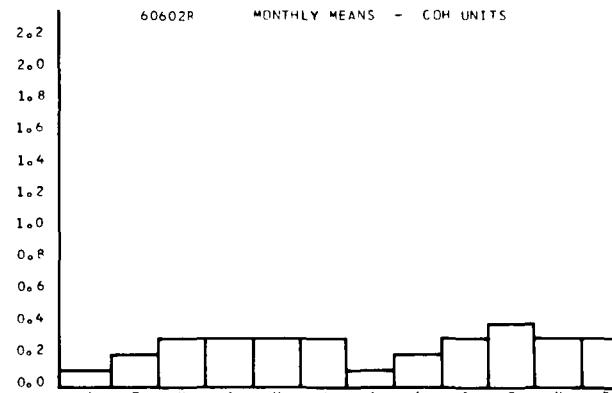
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.01 0.05 0.08 0.12 0.17 0.21 0.28 0.37 0.52 1.10 2.7

ANNUAL MEAN 0.26 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.24 ECART-TYPE  
% OF DATA AVAILABLE 95 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.00 0.03 0.07 0.10 0.14 0.17 0.21 0.26 0.32 0.43 0.79 1.07

ANNUAL MEAN 0.26 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.17 ECART-TYPE  
% OF DATA AVAILABLE 97 % DE DONNEES DISPONIBLES

60602R MONTHLY MEANS - COH UNITS



93

LOCATION LONDON  
STATION 60901C KING-RECTORY

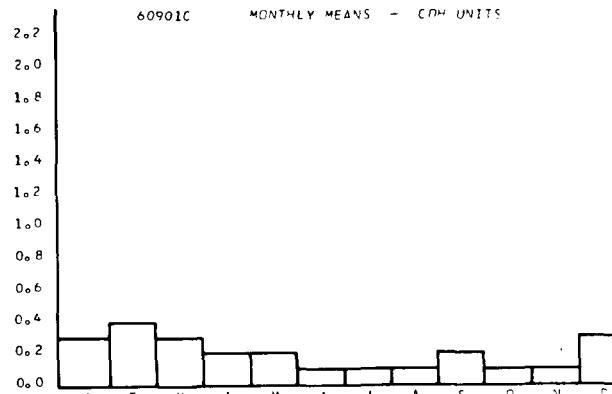
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.0 0.00 0.00 0.01 0.08 0.13 0.16 0.20 0.29 0.44 0.88 1.3

ANNUAL MEAN 0.21 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.21 ECART-TYPE  
% OF DATA AVAILABLE 81 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.02 0.02 0.04 0.07 0.09 0.12 0.16 0.20 0.27 0.36 0.50 0.82

ANNUAL MEAN 0.21 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.13 ECART-TYPE  
% OF DATA AVAILABLE 82 % DE DONNEES DISPONIBLES

60901C MONTHLY MEANS - COH UNITS



SILING INDEX LEVELS  
 COH UNITS  
 VALEURS DES INDICES DE SOUILLAGE

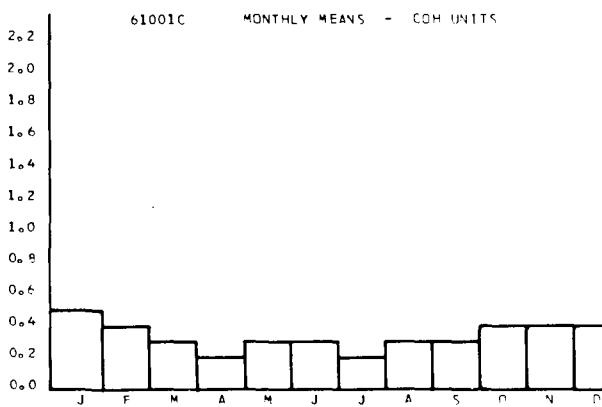
LOCATION SARNIA  
 STATION 61001C 156 VICTORIA STREET

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
 TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES  
 MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
 0.0 0.00 0.07 0.13 0.17 0.22 0.28 0.38 0.48 0.69 1.27 5.0

ANNUAL MEAN 0.34 MOYENNE ANNUELLE  
 STANDARD DEVIATION 0.30 ECART-TYPE  
 % OF DATA AVAILABLE 96 % DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
 DAILY MEANS MOYENNES QUOTIDIENNES  
 MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
 0.03 0.11 0.15 0.19 0.23 0.28 0.32 0.37 0.43 0.49 0.79 1.04

ANNUAL MEAN 0.34 MOYENNE ANNUELLE  
 STANDARD DEVIATION 0.16 ECART-TYPE  
 % OF DATA AVAILABLE 97 % DE DONNEES DISPONIBLES



4

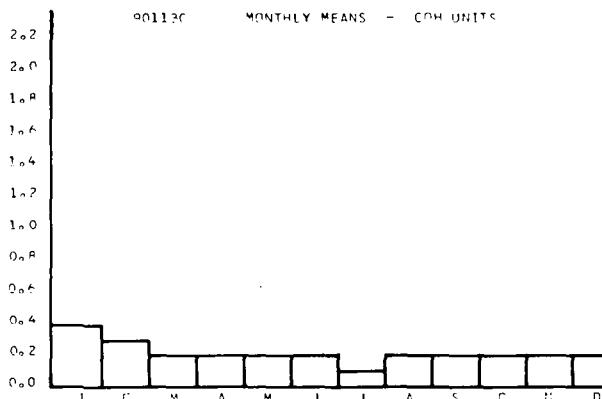
LOCATION EDMONTON  
 STATION 90113C 100A AVE. AND 104 ST.

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
 TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
 DAILY MEANS MOYENNES QUOTIDIENNES  
 MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
 0.00 0.03 0.06 0.09 0.12 0.14 0.17 0.19 0.24 0.31 0.68 1.11

ANNUAL MEAN 0.21 MOYENNE ANNUELLE  
 STANDARD DEVIATION 0.13 ECART-TYPE  
 % OF DATA AVAILABLE 99 % DE DONNEES DISPONIBLES



SPLITTING INDEX LEVELS  
COH UNITS  
VALEURS DES INDICES DE SOUILLURE

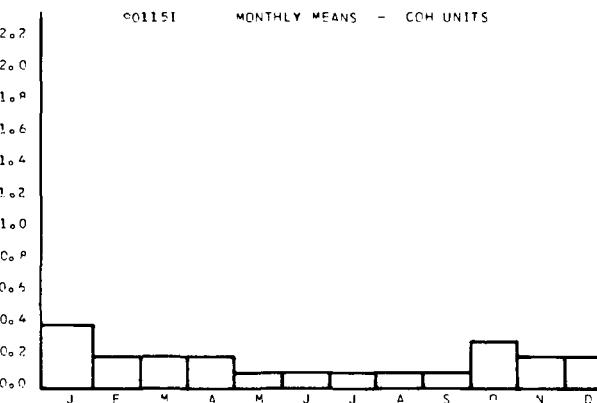
LOCATION EDMONTON  
STATION 901151 147 ST. AND 116 AVE.

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.00 0.00 0.02 0.04 0.05 0.07 0.09 0.14 0.20 0.32 0.97 1.50

ANNUAL MEAN 0.18 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.20 ECART-TYPE  
% OF DATA AVAILABLE 98 % DE DONNEES DISPONIBLES



50

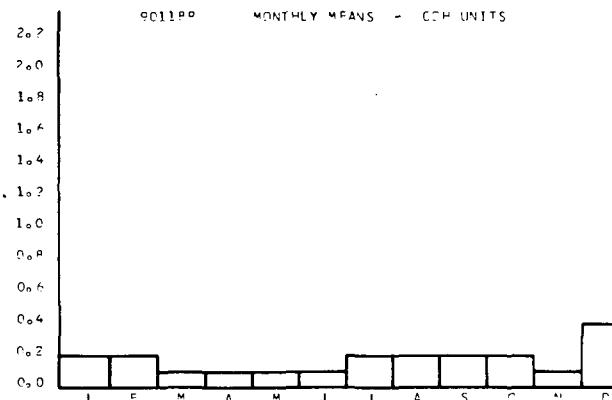
LOCATION EDMONTON  
STATION 901189 73 AVE. & 95 ST.

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.02 0.02 0.04 0.06 0.08 0.10 0.14 0.17 0.20 0.28 0.58 0.86

ANNUAL MEAN 0.18 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.12 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES



SOILING INDEX LEVELS  
CPH UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION CALGARY  
STATION 9C204C 7 AVE. AND 2 ST. S.E.

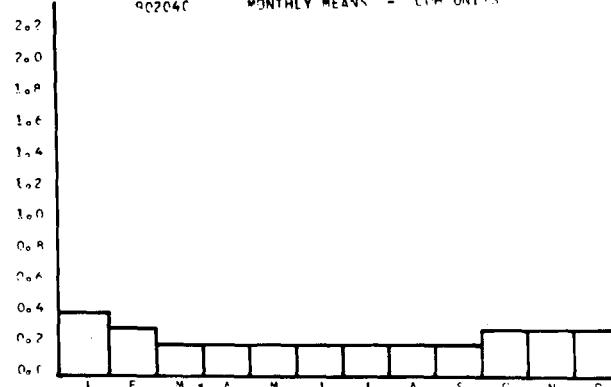
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.04 0.04 0.07 0.11 0.14 0.16 0.19 0.24 0.30 0.42 1.25

ANNUAL MEAN 0.25 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.16 ECART-TYPE  
% OF DATA AVAILABLE 100 % DE DONNEES DISPONIBLES

9C204C MONTHLY MEANS - CPH UNITS



96

LOCATION CALGARY  
STATION 9C214P GLENMORE LAM

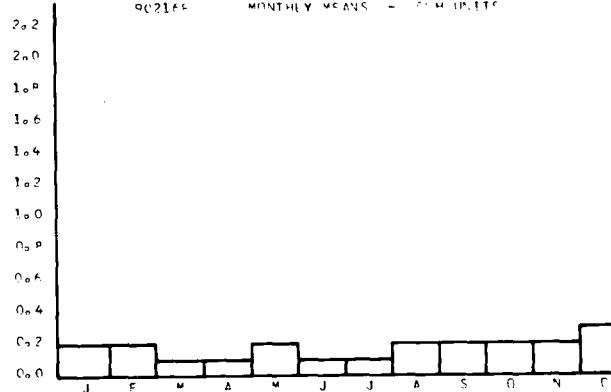
FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES  
MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.03 0.02 0.04 0.06 0.08 0.10 0.13 0.15 0.18 0.25 1.11

ANNUAL MEAN 0.17 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.10 ECART-TYPE  
% OF DATA AVAILABLE 95 % DE DONNEES DISPONIBLES

9C214P MONTHLY MEANS - CPH UNITS



SOILING INDEX LEVELS  
CCH UNITS  
VALEURS DES INDICES DE SOUILLURE

LOCATION CALGARY  
STATION 902181 BONNYBROOK ROAD, S.E.

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
TWO-HOURLY INTERVAL INTERVALLE DE DEUX HEURES

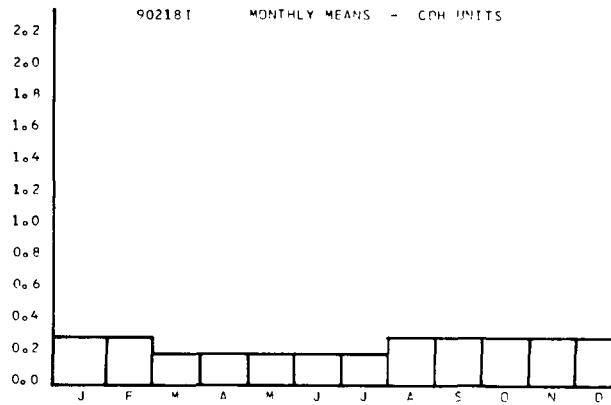
NO DATA AVAILABLE PAS DE DONNEES DISPONIBLES

FREQUENCY DISTRIBUTION - PERCENTILES - DISTRIBUTION DES FREQUENCES  
DAILY MEANS MOYENNES QUOTIDIENNES

MIN. 10 20 30 40 50 60 70 80 90 99 MAX.  
0.05 0.05 0.10 0.13 0.16 0.18 0.22 0.26 0.30 0.39 0.62 1.62

ANNUAL MEAN 0.26 MOYENNE ANNUELLE  
STANDARD DEVIATION 0.14 ECART-TYPE  
% OF DATA AVAILABLE 97 % DE DONNEES DISPONIBLES

902181 MONTHLY MEANS - CPH UNITS



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. Dustfall results are expressed in units of tons per square mile per month.

The tabulation of results gives the dustfall values to a maximum of 6 stations per city. The complete set of dustfall values obtained during 1970 for each station are presented in a column, with the mean and standard deviation appearing at the foot. Finally, the data for each station are grouped together to yield an overall mean annual dustfall value for that city. All figures quoted are expressed as tons per square mile per month.

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, et, en détermine la quantité totale par pesée. Les résultats sont exprimés en tonnes par mille carré par mois.

Chaque colonne des tables contient la série complète des retombées de poussières pour chaque poste (un maximum de six postes par ville) pendant l'année 1970. Au bas de chaque colonne on observe la moyenne et l'écart-type des concentrations obtenues à chaque poste. Enfin, on trouve la moyenne annuelle générale pour tous les postes d'une même ville.

## STATIONS MEASURING DUSTFALL

## STATIONS MESURANT LES RETOMBEES DE POUSSIERES

30101	C*	HALIFAX, NO. S. TECHNICAL COLLEGE
30102	R*	HALIFAX, DALHOUSIE UNIVERSITY
30105	R*	HALIFAX, ST. MARY'S
30106	R*	HALIFAX, FAIRVIEW SCHOOL
30108	C*	HALIFAX, FEDERAL BUILDING
30109	R*	HALIFAX, TELEPHONE BUILDING
30301	R	SYDNEY, MURPHY ROAD
30302	I*	SYDNEY, SYDNEY STEEL CORPORATION
30305	R*	SYDNEY, VICTORIA ROAD ( WHITNEY SCH.)
30309	I	SYDNEY, PT. EDWARD, RICHMOND PLASTICS
30401	R*	GLACE BAY, LAKE ROAD
30403	R*	GLACE BAY, PORT CALEDONIA
30406	I*	GLACE BAY, PUMPING STATION ROAD
50102	R*	MONTREAL, BOTANICAL GARDENS
50103	R*	MONTREAL, POINTE AUX TREMBLES
50106	R*	MONTREAL, VILLE ST. LAURENT
50107	R*	MONTREAL, VILLE LASALLE
50201	C	HULL, RUE PRINCIPALE
60101	C	OTTAWA, SLATER AND ELGIN
60102	R	OTTAWA, EXPERIMENTAL FARM
60103	C	OTTAWA, GILMOUR STREET
60201	I	WINDSOR, MORTON TERMINAL DOCK
60202	C	WINDSOR, CITY HALL
60203	R	WINDSOR-TECUMSEH WATER WORKS

60206	C	WINDSOR, 3120 DOUGALL AVE.
60209	R	WINDSOR, E. C. ROWE AND JEFFERSON
60210	R	WINDSOR, LESPERANCE NEAR PRINCE ST.
60401	C*	TORONTO, 67 COLLEGE STREET
60403	I*	TORONTO, ETOBICOKE, EVANS-ARNOLD
60404	R*	TORONTO, 5126 YONGE STREET
60405	I*	TORONTO, JOHN ST. PUMP STATION
60406	R*	TORONTO, ROSEHILL RESERVOIR
60408	C*	TORONTO, DANFORTH-ROBINSON
60501	C*	HAMILTON, BARTON AND WENTWORTH
60502	I*	HAMILTON, BURLINGTON-GAGE
60503	R*	HAMILTON, CHATHAM-FRID
60504	R*	HAMILTON, FENNEL-W. 5TH.
60507	C*	HAMILTON, HUGHSON-HUNTER
60508	R*	HAMILTON, MCMASTER UNIVERSITY
60701	C*	SAULT STE. MARIE, PROV. ONT. BLDG.
60702	R*	SAULT STE. MARIE, ANNA MCREA P. S.
60703	I*	SAULT STE. MARIE, BAYVIEW-YONGE
60802	C*	THUNDER BAY, 185 GORE ST.
60803	R*	THUNDER BAY, ST. BERNARD SCHOOL
60804	R*	THUNDER BAY, 205 STRATHCONA
60901	C*	LONDON, KING-RECTORY
70105	R	WINNIPEG, MARTIN AND HENDERSON HWY.
70108	R	WINNIPEG, YOUNG AND SARGENT
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
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. AND 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.

DUSTFALL VALUES  
TONS PER SQUARE MILE PER 30 DAYS  
RETOMBÉES DE POUSSIÈRES

LOCATION HALIFAX

MONTH	STATION					
	30101C	30102R	30105R	30106R	30108C	30109R
J	9.1	7.7	8.0	4.9	59.5	2.6
F	8.7	6.2	6.0	6.5	32.1	2.7
M	12.6	20.0	12.1	13.1	48.4	7.5
A	14.9	12.4	11.0	11.3	27.8	9.5
M	8.0	14.2	10.8	9.6	14.0	8.3
J	6.8	8.9	7.7	4.6	9.1	5.4
J	5.2	5.7	4.4	2.8	9.6	4.9
A	7.3	6.8	5.2	6.6	12.2	2.6
S	5.4	5.8	3.2	7.9	9.0	2.2
O	9.0	6.6	5.8	7.8	7.6	5.5
N	19.7	14.6	12.2	14.2	45.8	10.6
D	14.1		12.3	27.2		
MEAN	10.1	9.9	8.0	8.5	25.2	5.6
S.D.	4.4	4.1	3.2	3.6	18.0	3.0

CITY MEAN 11.4 MOYENNE POUR LA VILLE

DUSTFALL VALUES  
TONS PER SQUARE MILE PER 30 DAYS  
RETOMBÉES DE POUSSIÈRES

LOCATION GLACE BAY

MONTH	STATION		
	30401R	30403R	30406I
J	46.7	15.9	20.8
F	38.0	12.0	27.2
M	39.1	15.6	25.8
A	39.8	13.2	18.7
M	58.7	17.3	58.7
J	42.3	24.6	59.3
J			
A	138.9	20.6	74.1
S	39.0	22.4	52.5
O	42.7	35.8	59.4
N	51.8	5.1	43.2
D	22.3	23.2	20.6
MEAN	50.8	18.7	42.8
S.D.	30.6	8.0	19.3

CITY MEAN 37.4 MOYENNE POUR LA VILLE

103

LOCATION SYDNEY

MONTH	STATION			
	30301R	30302I	30305R	30309I
J	6.7	31.7	267.3	86.4
F	14.8	31.5	164.1	38.2
M	12.9	31.0	479.4	46.1
A	23.5	53.0	198.5	70.0
M	21.2	64.3	257.8	57.3
J	36.1	26.4	210.9	33.0
J				
A	19.3	54.0	342.6	28.1
S	30.0	35.4	499.2	31.4
O	14.9	58.4	435.9	27.0
N	24.2	60.9	445.2	40.2
D	10.3	44.3	328.9	26.5
MEAN	19.4	44.6	330.0	44.0
S.D.	8.7	13.9	119.9	19.6

CITY MEAN 109.5 MOYENNE POUR LA VILLE

LOCATION MONTREAL

MONTH	STATION			
	50102R	50103R	50106R	50107R
J	31.0	15.0		
F	21.0	17.0	27.0	
M	6.0	19.0	22.0	
A	3.0	20.0	44.0	
M	13.0	20.0	25.0	80.0
J	27.0	14.0	18.0	31.0
J	20.0	18.0	13.0	31.0
A	21.0	15.0	12.0	50.0
S	37.0	20.0	20.0	29.0
O	24.0	19.0	24.0	23.0
N	58.0	14.0	27.0	25.0
D	33.0	29.0	22.0	39.0
MEAN	24.5	18.3	23.1	38.5
S.D.	14.7	4.1	8.6	18.8

CITY MEAN 25.0 MOYENNE POUR LA VILLE

DUSTFALL VALUES  
TONS PER SQUARE MILE PER 30 DAYS  
RETOMBÉES DE POUSSIÈRES

LOCATION HULL

STATION

MONTH 50201C

J	11.3
F	25.6
M	31.8
A	37.8
M	32.3
J	
J	
A	28.1
S	28.8
O	24.9
N	22.0
D	25.5

MEAN	27.4
S.D.	6.9

CITY MEAN 27.4 MOYENNE POUR LA VILLE

DUSTFALL VALUES  
TONS PER SQUARE MILE PER 30 DAYS  
RETOMBÉES DE POUSSIÈRES

LOCATION WINDSOR

STATION

MONTH	60201I	60202C	60203R	60206C	60209R	60210P
J	7.3	40.3	16.9	8.1	20.6	9.7
F	18.2		10.9	10.8	22.9	5.8
M	13.4	39.2	10.1	11.5	14.3	8.0
A	12.2	36.6	9.9	12.3	14.6	
M	18.6	26.4	10.6	13.7	14.4	41.2
J	17.3	30.4	8.7	15.1	16.6	
J	4.8	15.9	9.2	7.8	13.1	7.8
A	18.2	29.0	14.8	12.5	21.4	8.8
S	16.6	20.8	6.5	7.1	9.0	5.1
O	6.5	17.7	5.3	6.0	8.0	3.4
N	22.6	25.8	6.8	8.3	10.6	2.6
D	10.9	4.1	5.0	12.2	11.5	

MEAN	13.9
S.D.	5.7

CITY MEAN 14.2 MOYENNE POUR LA VILLE

104

LOCATION OTTAWA

STATION

MONTH	60101C	60102R	60103C
J	35.7	5.6	16.7
F	36.9	13.6	27.5
M	52.5	5.6	26.5
A	43.9	11.6	42.3
M	37.4	18.9	23.3
J	39.4	26.8	24.9
J	23.6	18.3	19.9
A	24.1	27.9	18.0
S	20.6		11.3
O	36.5		10.6
N	37.6	17.7	18.9
D	55.5	13.9	26.1

MEAN	37.0
S.D.	10.7

CITY MEAN 25.6 MOYENNE POUR LA VILLE

LOCATION TORONTO

STATION

MONTH	60401C	60403I	60404R	60405I	60406R	60408C
J	19.1	41.1	11.5	36.1	11.2	11.1
F	13.9	15.0	4.5	23.2	14.5	6.3
M	22.3	8.9	16.2	42.4	12.7	25.3
A	31.4	8.0	37.1	43.0	15.8	38.0
M	19.8	11.0	9.2	22.2	19.4	11.9
J	16.4	20.5	15.0	41.4	16.6	
J	8.5	28.4	11.9	23.3	24.9	17.6
A	16.4		5.0	32.0	7.7	13.0
S	16.8	15.8	6.1	28.8	9.4	12.9
O	14.4	10.5	3.3	24.1	12.8	13.4
N	14.7	5.7	9.8	27.1	28.8	20.1
D	18.0	6.0	6.0	25.0	8.0	15.0

MEAN	17.6
S.D.	5.5

CITY MEAN 17.9 MOYENNE POUR LA VILLE

DUSTFALL VALUES  
TONS PER SQUARE MILE PER 30 DAYS  
RETOMBÉES DE POUSSIÈRES

LOCATION HAMILTON

MONTH	STATION					
	60501C	60502I	60503R	60504R	60507C	60508R
J	15.4	51.4	11.3	17.4	19.7	
F	16.7	33.6	16.8	12.0	17.5	14.3
M	19.2	54.7	26.1	14.5	37.3	31.4
A	24.4	51.4	21.5	12.5	38.2	19.6
M	19.4	42.2	17.6	9.2	25.7	12.3
J	18.4	46.5	16.9	10.2	32.7	18.7
J	18.0	32.7	6.0	9.8	16.3	11.9
A	30.5	41.7	19.7	7.9	21.5	15.0
S	20.2	41.1	15.4	7.4	75.0	12.3
O	30.2	36.6	20.0	9.7	29.1	12.5
N	23.2	36.8	18.9	6.6	17.7	14.5
D	15.0	27.0		6.0	15.0	17.0
MEAN	20.9	41.3	17.3	10.3	28.9	16.3
S.D.	5.2	8.5	5.3	3.4	16.9	5.7

CITY MEAN 22.7 MOYENNE POUR LA VILLE

DUSTFALL VALUES  
TONS PER SQUARE MILE PER 30 DAYS  
RETOMBÉES DE POUSSIÈRES

LOCATION THUNDER BAY

MONTH	STATION		
	60802C	60803R	60804R
J	6.7	3.1	5.6
F	14.3	8.2	6.0
M	9.8	6.3	3.1
A	15.1	5.7	10.1
M	27.9	22.1	31.5
J	20.5	2.7	11.6
J	4.5	3.5	9.1
A	6.8	8.6	6.7
S	10.1	1.5	8.5
O	20.2	19.3	26.7
N	8.8	3.6	10.7
D	10.8	1.5	3.2
MEAN	13.0	7.2	11.1
S.D.	6.9	6.8	8.9

CITY MEAN 10.4 MOYENNE POUR LA VILLE

105

LOCATION SAULT STE. MARIE

MONTH	STATION		
	60701C	60702R	60703I
J	7.6	5.4	32.3
F			19.0
M			19.0
A	11.6	10.0	27.3
M	19.2	7.6	18.8
J			
J	21.4	13.3	18.6
A	28.0	8.8	24.3
S	9.7	6.8	26.8
O	6.8	3.0	23.2
N	6.6	6.9	9.2
D	5.3	1.6	13.9
MEAN	12.9	7.0	21.1
S.D.	8.0	3.5	6.5

CITY MEAN 14.2 MOYENNE POUR LA VILLE

LOCATION LONDON

MONTH	STATION	
	60901C	
J		
F		
M	26.1	
A		
M	19.0	
J		
J	17.5	
A	8.8	
S	10.0	
O	6.5	
N	8.2	
D	7.0	
MEAN	12.9	
S.D.	7.1	

CITY MEAN 12.9 MOYENNE POUR LA VILLE

DUSTFALL VALUES  
TONS PER SQUARE MILE PER 30 DAYS  
RETOMBÉES DE POUSSIÈRES

LOCATION WINNIPEG

MONTH	STATION					
	70105R	70108R	70110C	70113I	70115I	70116C
J	10.7		22.7		17.2	22.2
F						
M	21.9		40.0	17.7	41.5	65.4
A	37.1	52.0			63.9	120.7
M						
J						
J	17.8	24.0	24.0	19.3	42.3	45.0
A	15.4		26.5	21.6	26.3	36.3
S	16.2		28.6	23.3	29.3	40.6
O	24.4		25.3	16.2	21.9	41.0
N	44.3		70.4	30.7	33.1	86.0
D	16.7		34.4	15.6	36.1	39.8
MEAN	22.7	38.0	34.0	20.6	34.6	55.2
S.D.	11.1	19.8	15.8	5.2	13.8	30.7

CITY MEAN 34.2 MOYENNE POUR LA VILLE

DUSTFALL VALUES  
TONS PER SQUARE MILE PER 30 DAYS  
RETOMBÉES DE POUSSIÈRES

LOCATION CALGARY

MONTH	STATION					
	90201I	90204C	90205R	90206R	90210I	90219C
J	3.0	9.8	1.5	2.8	2.2	4.8
F	6.7	46.1	3.6	6.5	13.9	11.0
M	7.3	76.5	6.1	9.4	5.0	13.9
A	17.6	89.3	10.8	13.3	17.0	20.8
M	37.0	85.5	12.4	22.9	18.0	18.7
J	20.0	78.8	7.7	14.0	11.6	17.4
J	30.1	93.9	6.2	10.1		21.8
A	20.8	47.5	6.5	9.6	49.6	14.4
S	21.1	51.4	5.9	7.9	79.1	9.4
O	18.4	14.7	4.9	8.1	17.9	14.6
N	36.4		5.4	12.5	44.8	16.4
D	7.5	36.1	2.8	4.2	9.1	5.5
MEAN	18.9	57.4	6.1	10.1	24.4	14.1
S.D.	11.4	29.7	3.1	5.3	23.5	5.5

CITY MEAN 21.3 MOYENNE POUR LA VILLE

LOCATION EDMONTON

MONTH	STATION					
	90104C	90105R	90106R	90112I	90119C	90120I
J	1.5	3.4	2.1	4.9	4.2	5.8
F	17.7	5.3	3.4	2.5	3.4	3.5
M	36.1	7.5	3.3	3.4	12.0	6.1
A	18.3	13.0	9.7	3.6	41.1	25.1
M	23.1	24.6	19.9	15.3	34.2	46.3
J	28.2	16.7	13.2	11.6	29.6	21.9
J	26.3	24.0	7.4	14.5	14.5	46.3
A	28.0	11.8	8.2	14.0	9.7	29.6
S	28.4	15.9	13.8	12.0	8.4	
O	35.9		5.8	7.2	7.8	24.3
N	18.4	6.9	2.7	4.9	5.7	17.2
D	5.9	3.4	1.9	2.5	2.2	3.5
MEAN	22.3	12.0	7.6	8.0	14.4	20.9
S.D.	10.7	7.6	5.7	5.1	13.1	15.7

CITY MEAN 14.2 MOYENNE POUR LA VILLE

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  $\text{SO}_3$  per 100  $\text{cm}^2$  per day.

The presentation in this section follows the same outline as for dustfall, with groups of stations to a maximum of 6 per city. The complete set of sulphation rates obtained in the year for each station are presented in a column with the mean and standard deviation appearing at the foot. Finally, the data for each station are grouped together to yield an overall mean annual sulphation rate for that city. All figures quoted are expressed as milligrams of  $\text{SO}_3$  per 100 square centimetres per day.

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. Le peroxyde de plomb réagit avec les composés sulfurés de l'atmosphère pour produire du sulfate de plomb. Les résultats sont exprimés en milligrammes de  $\text{SO}_3$  par  $100 \text{ cm}^2$  par jour.

La présentation des résultats de cette section est similaire à celle de la section des retombés de poussières.

Chaque colonne des tables contient la série complète des indices de formation des sulfates pour chaque poste (un maximum de 6 postes par ville) pendant l'année 1970. Au bas de chaque colonne, on observe la moyenne et l'écart-type des concentrations obtenues à chaque poste. Enfin, on trouve la moyenne annuelle générale pour tous les postes d'une même ville.

## STATIONS MEASURING SULPHATION RATES

## STATIONS MESURANT LES INDICES DE FORMATION DE SULFATE

30101	C*	HALIFAX, NO. 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
30302	I*	SYDNEY, SYDNEY STEEL CORPORATION
30305	R*	SYDNEY, VICTORIA ROAD ( WHITNEY SCH. )
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
60401	C*	TORONTO, 67 COLLEGE STREET
60403	I*	TORONTO, ETOBICOKE, EVANS-ARNOLD
60404	R*	TORONTO, 5126 YONGE STREET
60405	I*	TORONTO, JOHN ST. PUMP STATION
60406	R*	TORONTO, ROSEHILL RESERVOIR
60408	C*	TORONTO, DANFORTH-ROBINSON
60501	C*	HAMILTON, BARTON AND WENTWORTH
60502	I*	HAMILTON, BURLINGTON-GAGE
60503	R*	HAMILTON, CHATHAM-FRID

60504	R*	HAMILTON, FENNEL-W.	5TH
60507	C*	HAMILTON, HUGHSON-HUNTER	
60508	R*	HAMILTON, MCMASTER UNIVERSITY	
60701	C*	SAULT STE. MARIE, PROV. ONT. BLDG.	
60702	R*	SAULT STE. MARIE, ANNA MCREA P.	S.
60703	I*	SAULT STE. MARIE, BAYVIEW-YONGE	
60802	C*	THUNDER BAY, 185 GORE ST.	
60803	R*	THUNDER BAY, ST. BERNARD SCHOOL	
60804	R*	THUNDER BAY, 205 STRATHCONA	
60901	C*	LONDON, KING-RECTORY	
61001	C*	SARNIA, 156 VICTORIA ST.	
61002	R*	SARNIA, YACHT CLUB	
61003	I*	SARNIA, LAMBTON COLLEGE	
90104	C*	EDMONTON, 100TH ST. AND 103RD AVE.	
90105	R*	EDMONTON (No. 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. AND 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.	

SULPHATION RATES  
MILLIGRAMS SO<sub>3</sub> PER 100 SQ. CM. PER DAY  
INDICES DE FORMATION DE SULFATE

LOCATION HALIFAX

MONTH	STATION					
	30101C	30102R	30105R	30106R	30108C	30109R
J	0.9	0.8	0.4	0.2	1.8	0.2
F	0.6	0.6	0.4	0.2	0.5	0.2
M	1.3	1.0	0.6	0.3	1.3	0.2
A	1.0	0.7	0.5	0.4	1.2	0.2
M	0.7	0.6	0.4	0.4	0.9	0.1
J	0.7	0.3	0.3	0.2	0.8	0.1
J	0.5	0.1	0.1	0.2	0.5	0.1
A	0.4	0.1	0.1	0.1	0.6	0.0
S	0.6	0.3	0.2	0.2	0.5	0.1
O	0.7	0.4	0.4	0.2	0.7	0.1
N	1.9	0.9	1.0	0.5	1.6	0.4
D	2.1	0.9	1.1	0.5	1.4	0.4
MEAN	1.0	0.6	0.5	0.3	1.0	0.2
S.D.	0.5	0.3	0.3	0.1	0.5	0.1

CITY MEAN 0.6 MOYENNE POUR LA VILLE

SULPHATION RATES  
MILLIGRAMS SO<sub>3</sub> PER 100 SQ. CM. PER DAY  
INDICES DE FORMATION DE SULFATE

LOCATION GLACE BAY

MONTH	STATION		
	30401R	30403R	30406I
J	0.9	0.3	0.3
F	0.7	0.4	0.3
M	0.7	0.4	0.2
A	0.8	0.0	0.2
M	0.5	0.3	0.3
J	0.4	0.3	0.2
J	0.1	0.2	0.1
A	0.2	0.3	0.2
S	0.3	0.3	0.1
O	0.3	0.3	0.1
N	0.5	0.4	0.6
D	0.5	0.4	0.1
MEAN	0.5	0.3	0.2
S.D.	0.3	0.1	0.1

CITY MEAN 0.3 MOYENNE POUR LA VILLE

111

LOCATION SYDNEY

MONTH	STATION	
	30302I	30305R
J	1.2	1.7
F	1.1	1.3
M	1.1	2.0
A	1.7	1.0
M	1.2	1.0
J	1.2	1.1
J	0.8	1.4
A	0.5	1.7
S	1.2	1.6
O	2.3	1.2
N	1.1	1.4
D	1.1	1.4
MEAN	1.3	1.4
S.D.	0.4	0.3

CITY MEAN 1.3 MOYENNE POUR LA VILLE

LOCATION MONTREAL

MONTH	STATION			
	50102R	50103R	50106R	50107R
J	2.5			
F	3.3			
M	2.0			
A	1.5	0.8		
M	0.9	2.2	0.8	2.4
J	0.6	2.5	0.6	0.9
J	0.5	2.1	0.3	0.7
A	0.8	2.2	0.7	0.5
S	1.2	2.0	1.2	1.1
O	1.7	2.0	1.3	0.8
N	1.1	1.1	1.0	1.6
D	1.3	2.9	1.8	2.2
MEAN	1.0	2.2	0.9	1.3
S.D.	0.4	0.6	0.4	0.7

CITY MEAN 1.4 MOYENNE POUR LA VILLE

SULPHATION RATES  
MILLIGRAMS SO<sub>3</sub> PER 100 SQ. CM<sub>2</sub> PER DAY  
INDICES DE FORMATION DE SULFATE

LOCATION TORONTO

MONTH	STATION					
	60401C	60403I	60404R	60405I	60406R	60408C
J	1.7	0.7	0.6	1.9	1.1	1.3
F	1.9	0.9	0.8	1.5	0.7	1.1
M	1.4	0.7	0.6	1.4	0.8	0.8
A	1.1	0.8	0.3	1.0	0.9	0.3
M	0.6	0.3	0.4	0.5	0.3	0.2
J	1.0	0.5	0.3	1.0	0.3	
J	0.6	0.3	0.3	0.3	0.3	
A	0.3	0.2	0.2	0.4	0.5	0.2
S	0.6	0.2	0.3	0.3	0.3	0.3
O	0.7	0.5	0.4	0.5	0.4	0.3
N	0.5	0.4	0.3	0.6	0.4	0.4
D	0.8	0.4	0.3	0.5	0.4	0.5
MEAN	0.9	0.5	0.4	0.8	0.5	0.5
S.D.	0.5	0.2	0.2	0.5	0.3	0.4

CITY MEAN 0.6 MOYENNE POUR LA VILLE

SULPHATION RATES  
MILLIGRAMS SO<sub>3</sub> PER 100 SQ. CM<sub>2</sub> PER DAY  
INDICES DE FORMATION DE SULFATE

LOCATION SAULT STE. MARIE

MONTH	STATION		
	60701C	60702R	60703I
J	0.3	0.3	0.4
F	0.4	0.4	0.4
M	0.4	0.4	0.4
A	0.0	0.2	0.3
M	0.2	0.1	0.2
J	0.1	0.1	0.2
J	0.1	0.1	0.2
A	0.1	0.0	0.2
S	0.1	0.1	0.2
O	0.2	0.1	0.5
N	0.4	0.1	0.4
D	0.3	0.2	0.4
MEAN	0.2	0.1	0.3
S.D.	0.1	0.1	0.1

CITY MEAN 0.2 MOYENNE POUR LA VILLE

LOCATION HAMILTON

MONTH	STATION					
	60501C	60502I	60503R	60504R	60507C	60508R
J	1.0	1.1	1.5	0.5	0.9	0.5
F	0.7	1.3	1.0	0.7	1.0	0.2
M	0.9	1.1	0.9	0.5	0.8	0.2
A	0.7	0.7	0.3	0.4	0.6	0.2
M	0.7	1.0	0.4	0.2	0.6	0.2
J	1.0	1.0	0.5	0.7	0.7	0.3
J	0.4	0.6	0.3	0.3	0.3	0.2
A	0.3	0.6	0.3	0.3	0.1	
S	0.5	0.8	0.3	0.5	0.1	0.3
O	0.8	0.9	0.5	0.9	0.8	0.3
N	0.6	0.7	0.4	0.5	0.6	0.3
D	0.5	0.7	0.6	1.1	0.5	0.3
MEAN	0.7	0.9	0.6	0.5	0.6	0.2
S.D.	0.2	0.2	0.4	0.3	0.3	0.1

CITY MEAN 0.6 MOYENNE POUR LA VILLE

LOCATION THUNDER BAY

MONTH	STATION		
	60802C	60803R	60804R
J	0.3	0.1	0.1
F	0.1	0.1	0.1
M	0.1	0.1	0.0
A	0.1	0.1	0.0
M	0.1	0.1	0.0
J	0.1	0.1	0.0
J	0.0	0.0	1.1
A	0.1	0.0	0.0
S		0.1	0.0
O	0.0	0.1	0.1
N	0.2	0.1	0.0
D	0.2	0.1	0.1
MEAN	0.1	0.1	0.1
S.D.	0.1	0.0	0.3

CITY MEAN 0.1 MOYENNE POUR LA VILLE

**SULPHATION RATES**  
**MILLIGRAMS SO<sub>3</sub> PER 100 SQ. CM. PER DAY**  
**INDICES DE FORMATION DE SULFATE**

LOCATION LONDON

MONTH 60901C STATION

J	0.9
F	0.7
M	0.3
A	0.2
M	0.1
J	0.2
J	0.1
A	0.1
S	0.3
O	0.4
N	0.5
D	0.3

MEAN	0.4
S.D.	0.3

CITY MEAN 0.4 MOYENNE POUR LA VILLE

**SULPHATION RATES**  
**MILLIGRAMS SO<sub>3</sub> PER 100 SQ. CM. PER DAY**  
**INDICES DE FORMATION DE SULFATE**

LOCATION EDMONTON

MONTH 90104C 90105R STATION 90106R 90112I 90119C 90120I

J	0.1	0.1	0.2	1.4	0.1	0.2
F	0.2	0.1	0.1	0.8	0.1	0.1
M	0.1	0.1	0.1	0.5	0.1	0.2
A	0.1	0.0	0.1	0.3	0.1	0.1
M	0.1	0.1	0.1	0.2	0.1	0.1
J	0.1	0.0	0.1	0.3	0.0	0.1
J	0.1	0.1	0.1	0.3	0.0	0.1
A	0.1	0.1	0.1	0.3	0.1	1.4
S	0.1	0.1	0.1	0.7	0.0	0.1
O	0.1	0.1	0.1	0.5	0.0	0.1
N	0.1	0.1	0.1	0.6	0.1	0.1
D	0.2	0.1	0.1	0.5	0.1	0.1

MEAN	0.1	0.1	0.1	0.5	0.1	0.2
S.D.	0.0	0.0	0.0	0.3	0.0	0.4

CITY MEAN 0.2 MOYENNE POUR LA VILLE

113

LOCATION SARNIA

MONTH 61001C 61002R STATION 61003I

J	1.4	1.1	1.6
F	1.1	0.7	2.1
M	0.5	1.4	
A	0.7	1.0	0.8
M	0.8	1.5	
J	0.5	1.4	
J	1.0	0.4	0.9
A	0.8	0.3	1.0
S	1.2	0.6	1.1
O	0.9	0.7	0.9
N	1.1	0.6	1.2
D	0.7	0.7	1.1

MEAN	1.0	0.7	1.2
S.D.	0.2	0.2	0.4

CITY MEAN 1.0 MOYENNE POUR LA VILLE

LOCATION CALGARY

MONTH 90201I 90204C STATION 90205R 90206R 90210I 90219C

J	0.4	0.3	0.3	0.3	0.4	0.5
F	0.3	0.3	0.3	0.4	0.4	0.3
M	0.2	0.2	0.2	0.2	0.3	0.2
A	0.2	0.1	0.1	0.1	0.2	0.2
M	0.3	0.2	0.2	0.1	0.2	0.2
J	0.2	0.1	0.1	0.1	0.2	0.2
J	0.2	0.2	0.1	0.1	0.2	0.2
A	0.3	0.2	0.1	0.1	0.3	0.2
S	0.3	0.2	0.2	0.2	0.2	0.3
O	0.3	0.1	0.2	0.1	0.2	0.2
N	0.2	0.2	0.1	0.1	0.2	0.2
D	0.1	0.1	0.1	0.1	0.2	0.2

MEAN	0.2	0.2	0.2	0.2	0.2	0.3
S.D.	0.1	0.1	0.1	0.1	0.1	0.1

CITY MEAN 0.2 MOYENNE POUR LA VILLE