ATMOSPHERIC DEPOSITION OF TOXIC SUBSTANCES TO THE GREAT LAKES: IADN RESULTS THROUGH 2000

Pierrette Blanchard	Air Quality Research Branch, Meteorological Service of Canada Environment Canada
Céline V. Audette	Center for Atmospheric Research Experiments, Meteorological Service of Canada, Environment Canada
Melissa L. Hulting	Great Lakes National Program Office, U.S. Environmental Protection Agency
Ilora Basu	School of Public and Environmental Affairs and Department of Chemistry, Indiana University
Kenneth A. Brice	Air Quality Research Branch, Meteorological Service of Canada, Environment Canada
C.H. Chan	Ecosystem Health Division, Ontario Region, Environment Canada
Helena Dryfhout-Clark	Center for Atmospheric Research Experiments, Meteorological Service of Canada, Environment Canada
Frank Froude	Center for Atmospheric Research Experiments, Meteorological Service of Canada, Environment Canada
Ronald A. Hites	School of Public and Environmental Affairs and Department of Chemistry, Indiana University
Melanie Neilson	Ecosystem Health Division, Ontario Region, Environment Canada

Atmospheric Deposition of Toxic Substances to the Great Lakes:
IADN Results through 2000

Published by
Environment Canada and the United States Environmental Protection Agency

ISBN: 0-662-37467-3
Public Works and Government Services Canada Catalogue Number: En56-156/2000-1E
US EPA Report Number: 905-R-04-900

Report available in printed form from

Air Quality Research Branch
Environment Canada
4905 Dufferin Street
Toronto ON
M3H 5T4
Canada

Great Lakes National Program Office
U.S. Environmental Protection Agency
77 West Jackson Boulevard (G17-J)
Chicago IL
60604
U.S.A.

and in electronic form at

http://www.msc.ec.gc.ca/IADN

www.epa.gov/glnpo/monitoring/air/iadn/iadn.html

ATMOSPHERIC DEPOSITION OF TOXIC SUBSTANCES TO THE GREAT LAKES: IADN RESULTS THROUGH 2000

Executive Summary

The Integrated Atmospheric Deposition Network was initiated in 1990 to measure atmospheric concentrations of persistent toxic pollutants in the Great Lakes basin. These measurements have been conducted at 5 master stations, one on each of the Great Lakes, as well as 10 satellite stations. The measured concentrations combined with physical parameters have formed the basis of loadings estimates produced by IADN every two years. This report presents the results of the loadings estimates for the years 1999-2000.

In the IADN calculations, processes of wet deposition via precipitation, dry deposition of particles and gas absorption at the water interface are taken into account. Volatilization from the Lakes is also important, and this is estimated using water concentrations from other monitoring or research projects for some compounds. The calculations in this report build on previous reports although several modifications have been made. The estimates are now calculated monthly instead of seasonally. The rates of precipitation and wind speeds, involved in the calculations, are lakewide values instead of "at station" measurements. Several Henry's law constants have been updated. Given these upgrades, loading estimates from previous years were re-calculated using the new model. The use of lakewide precipitation rates and wind speeds has changed the magnitude of the loading estimates on an annual basis by 25% for wet deposition and by a factor of two or less for gas absorption.

For all Lakes, loading estimates of banned organochlorine (OC) pesticides, such as α-HCH, continue to decline. For several OC pesticides, including chlordanes and p'p'-DDT, loading estimates are relatively small, with fluxes often less than 2 ng/m^2/day. Dieldrin is volatilizing out of the Lakes, while HCB is depositing in Lake Superior but volatilizing out of Lakes Michigan and Erie. Current-use pesticides such as γ-HCH and α-endosulfan are still depositing to the Lakes from the atmosphere and as expected show no trend. The monthly calculations revealed seasonality for several OC pesticides. α-HCH loading estimates have a strong seasonality with maxima in summer for both absorption and volatilization. These maxima are likely due to an increase in atmospheric concentration of α-HCH in the summertime combined with a favorable temperature-dependent Henry's law constant. γ-HCH (lindane) fluxes also presented a strong seasonal behaviour of the absorption process with maxima in spring. These correspond to planting of canola seeds in the Canadian prairies and subsequent transport of lindane to the Great Lakes as demonstrated by other researchers.

The PCBs considered in this report (18, 44, 52, 101 and suite PCB) all continue their trends of volatilizing out of the lakes, however tending towards equilibrium. Given that the water concentrations used in this report are similar to the ones in the 97-98 report, it is not surprising that the magnitude of the volatilization has remained the same in recent years with fluxes for suite PCB less than 50 ng/m^2/day. PCB loading estimates also show some seasonality.

Loadings of PAHs have remained constant over time, which is consistent with the combustion sources of these chemicals. The semi-volatile character of PAHs results in heavier PAHs entering the Lakes through dry and wet deposition while for lighter PAHs, absorption is most prominent. Most PAHs total loading estimates are similar for all lakes with

Lake Erie being slightly larger. One exception is phenanthrene for Lake Erie where total fluxes are 2 to 4 times larger than the other Lakes. Seasonal patterns of dry deposition reflect the seasonality of sources and the temperature dependent partitioning of PAHs with larger estimates in winter when particulate concentrations are expected to be larger.

Metals total loading estimates are of similar magnitudes for both Lake Ontario and Huron (the only Lakes for which metals data are available). Wet deposition is always more important than dry deposition and there is a lack of trend over time. This is consistent with Canadian emission sources that have remained constant over the last few years. Slight increases in loading estimates are observed in the winter months.

The influence of urban areas on the lakewide loading estimates was evaluated using the satellite site of Chicago, the only urban site in operation in 99-00. Total downward fluxes were compared between the Master station at Sleeping Bear Dunes and Chicago. For pesticides, similar fluxes were seen while PCBs and PAHs fluxes were much larger in Chicago. The urban effect of Chicago was investigated and as in previous IADN reports, it was found that there is a substantial effect for PCBs and PAHs. This points to the critical importance of including urban data in the loading estimates.

Table of Contents

List of Figures

List of Tables

1. Introduction

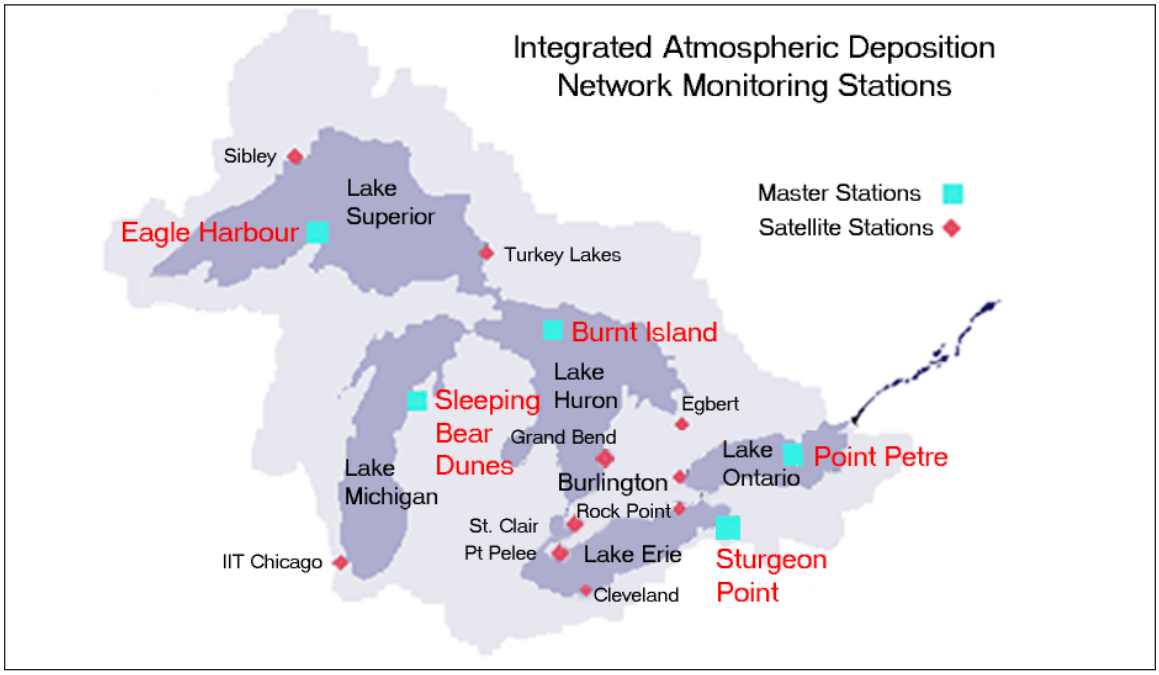
In 1987, a revision of the Great Lakes Water Quality Agreement of 1978 included a separate Annex (Annex 15) which called for the creation of the Integrated Atmospheric Deposition Network (IADN) to carry out surveillance and monitoring of the toxic contaminants. In accordance with Annex 15, IADN has produced biennial loading estimates on data from 1992 through 1998 (Hoff, 1996; Hillery et al., 1998; Galarneau et al., 2000; Buehler et al, 2001). This report details the 1999 and 2000 atmospheric loadings to the Great Lakes. It also defines a new reporting format for the IADN loading estimates. This new format consists of a standard "front end" that includes the sampling and analytical status of IADN and a section detailing recent improvements to the loadings calculations. A short summary of results is presented followed by tables and figures of loading estimates.

2. Status of IADN

2.1. Sampling Sites

IADN collects gas, particle, and precipitation phase samples at each of its master stations, one on each of the Great Lakes (see Figure 1). Sampling details can be found elsewhere (Environment Canada, 1994; Basu, 1996). Master stations on Lakes Erie(Sturgeon Point, STP), Michigan (Sleeping Bear Dunes, SBD) and Superior (Eagle Harbour, EGH) are operated by the United States (Indiana University, IU, via a cooperative agreement with US EPA) while Canada (Meteorological Service of Canada, MSC) operates the Master stations on Lakes Huron (Burnt Island, BNT) and Ontario (Point Petre, PPT). On the US side, two satellite urban stations are in operation in Chicago and Cleveland. Both air and precipitation samples are collected at these sites. On the Canadian side, air samples are collected at MSC's satellite site of Egbert (EGB) while only precipitation samples are collected at the other six satellite stations. The Ecosystem Health Division (EHD) of Environment Canada-Ontario Region is responsible for these precipitation satellite stations.

Figure 1. IADN master and satellite sampling stations



2.2. Measured Substances

IADN has been measuring several chemicals as well as meteorological parameters at all Master stations (Table 1). IADN has determined loading estimates for 26 of these (bold in Table), for which necessary supplementary information (such as Henry's Law constants and open lake water concentration data) was available.

Table 1. IADN Chemical List, Revised June 2004

Chemicals measured at Master and satellite stations in air and precipitation
Bold: Chemicals for which loading estimates are available

IADN-suite PCBs (see Table 2)

Organochlorine pesticides:
Aldrin
***Trans*-Chlordane (γ)**
Cis-Chlordane (α)

p,p'-DDT
p,p'-DDD
p,p'-DDE

o,p'-DDT
Dieldrin
α-Endosulfan

β-Endosulfan
Endrin
Heptachlor epoxide
Hexachlorobenzene (HCB)
α-HCH
β-HCH
γ-HCH (lindane)
Methoxychlor
Trans-Nonachlor

PCB congeners 18, 44, 52, 101

Polycyclic aromatic compounds:
Anthracene
Benz[a]anthracene
Benzo[b]fluoranthene+
Benzo[k]fluoranthene

Benzo[ghi]perylene
Benzo[a]pyrene
Benzo[e]pyrene
Chrysene + Triphenylene
Dibenz[a,h]anthracene
Fluoranthene
Fluorene
Indeno[1,2,3,cd]pyrene
Phenanthrene
Pyrene

Trace Metals (Canada):
Arsenic
Cadmium
Lead
Selenium

A standardized suite of PCB congeners that make up the majority of PCB mass in air, the IADN PCB Suite, has been developed for the purpose of estimating total PCBs in air and precipitation.

Table 2. IADN PCB Suite congeners.

4+10	28	70+76	100	156+171+202
5+8	31	74	101	169
6	33+53	77+110	105+132+153	170+190
7+9	37+42	83	114+131	172
12+13	41+64+71	85	118	174
15+17	44	87+81	119	180
16+32	45	89	123+149	194+205
18	47+48	91	126	199
19	49	95+66	128+167	201
22	52	97	137+144	206
26	56+60+84+92	99	138+163	207

2.3. Sampling Protocols

2.3.1. Precipitation

The details of all sampling protocols are given in the Sampling Procedures Manuals for each agency. These details will be reviewed briefly here. All stations (including all Satellite facilities except Egbert) have samplers to measure wet deposition of gaseous organics. The precipitation sampler used for the organics measurements is uniform across the network, a MIC-B collector with a stainless steel funnel.

Indiana University uses XAD-2 resin column cartridges for accumulating the organics. EHD uses a dichloromethane solvent extraction system in which the rainwater is stabilized with 250 mL of dichloromethane then liquid/liquid extracted using fresh dichloromethane. Indiana University samples precipitation on a 28-day cumulative basis. EHD takes 14-day cumulative samples; however, as of 2000, the 14-day samples are composited to 28-day samples prior to analysis. The start and finish dates for the 28-day period are aligned between the two agencies. For trace metals, EHD uses a MIC-B precipitation sampler. The precipitation samples are collected in pre-cleaned polyethylene buckets. Indiana University does not measure trace metals.

2.3.2. Air

Organics air sampling uses modified high volume samplers with filter and absorbent combinations. Indiana University uses a HiVol of identical design, which has an XAD absorbent cartridge. This allows for a >800 m^3 sample volume. MSC uses polyurethane foam as the absorbent for organics. In this case, sample volumes are kept below 400 m^3 to avoid breakthrough of lighter organics during warm summer months. The metals are collected on a glass fiber filter at the sites of Point Petre and Burnt Island using a dedicated hi-vol sampler for a total air volume of 1625m^3. All agencies have now adopted a sampling frequency of a 24-hour sample every 12 days. Early results showed that little organochlorine mass was found on the filter. For example, at the Point Petre station in 1992, the particulate/gaseous mass ratio was 2.3% for total PCBs and < 1% for the HCHs, *p,p'*-DDE,

and HCB. Due to the low analyte masses on the filters, agency protocols have changed over the course of IADN. The general absence of most organochlorine pesticides and PCBs on the filters led Environment Canada to terminate the measurements of these compounds on filters in 1993. Indiana University stopped PCB analysis on filters in 1996; however, IU continues to analyze the pesticides on the filters because of their higher concentrations in the urban samples.

2.4. Chemical Analyses

Laboratory analysis protocols generally call for solvent extraction of the organic sampling media with addition of surrogate recovery standards. Extracts are then concentrated followed by column chromatographic cleanup, fractionation, nitrogen blow-down to small volume and injection into GC-ECD, HPLC or GC-MS instruments (Figure 2, 3, 4). Details of these analyses can be found in the agency project plans (e.g. Basu and Hillery, 1995). Metals analyses for Canadian samples are conducted using inductively coupled plasma emission for particulate and precipitation samples.

Figure 2. Schematic of Analyses for Canadian Precipitation Samples.

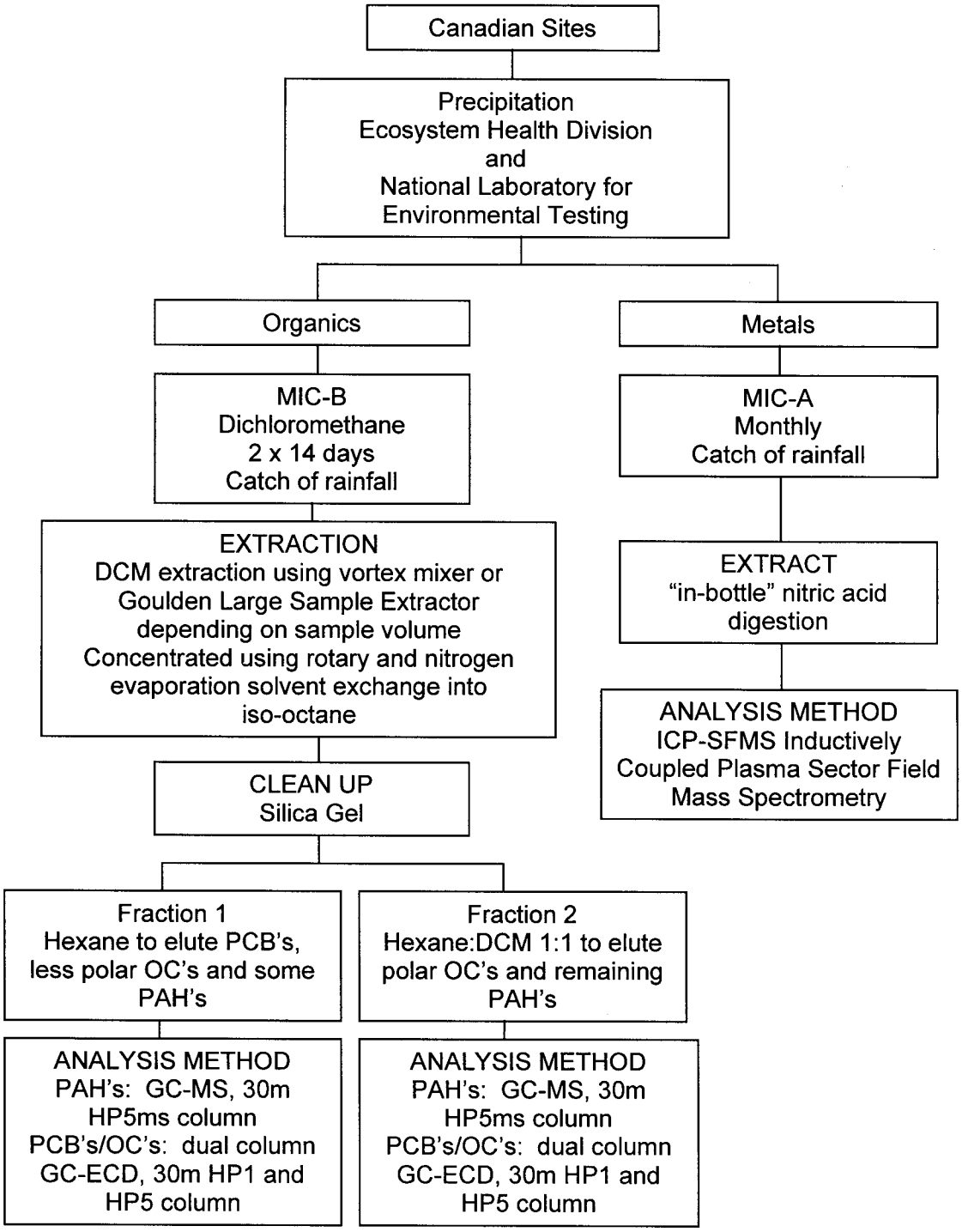


Figure 3. Schematic of Analyses for Canadian Air Samples.

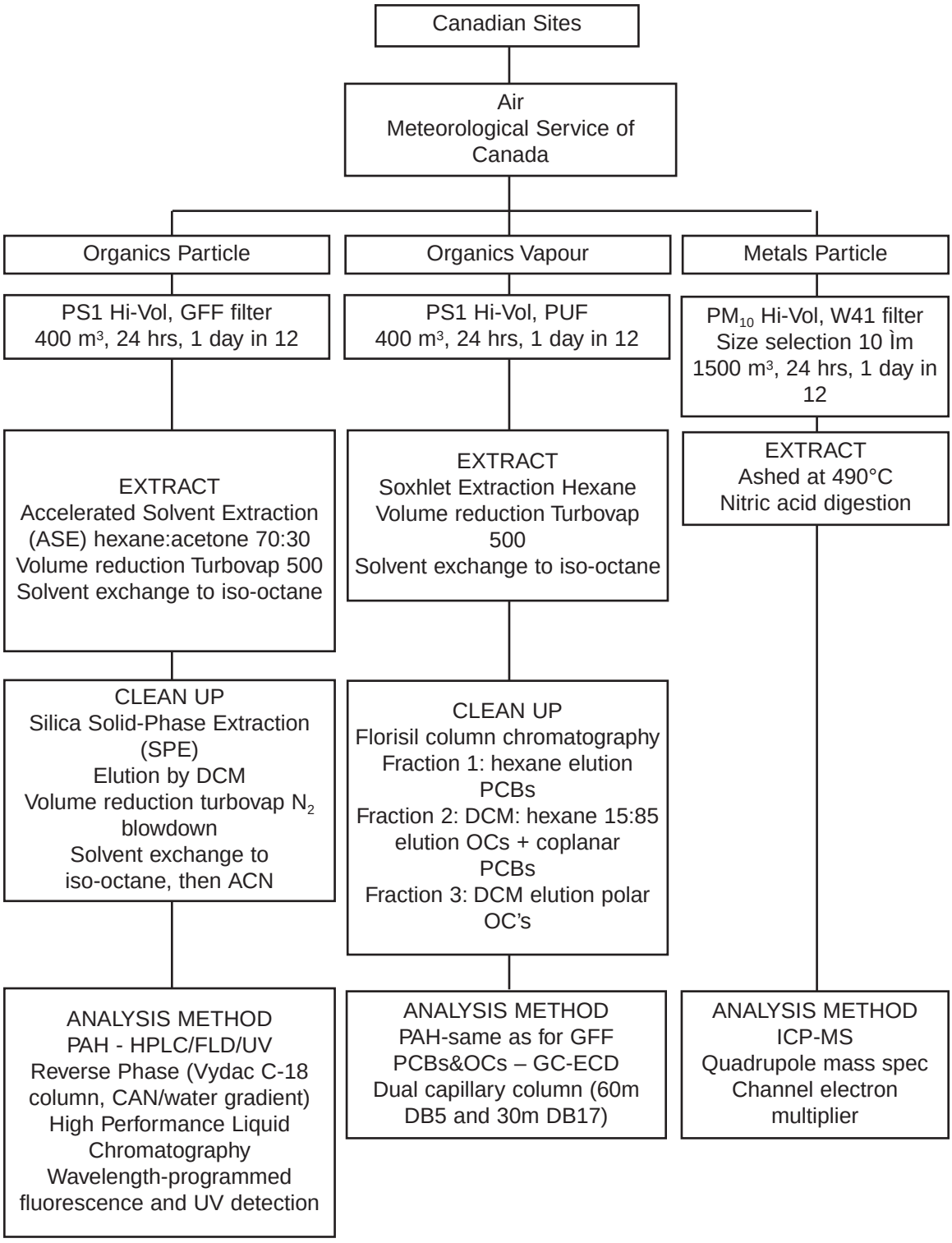
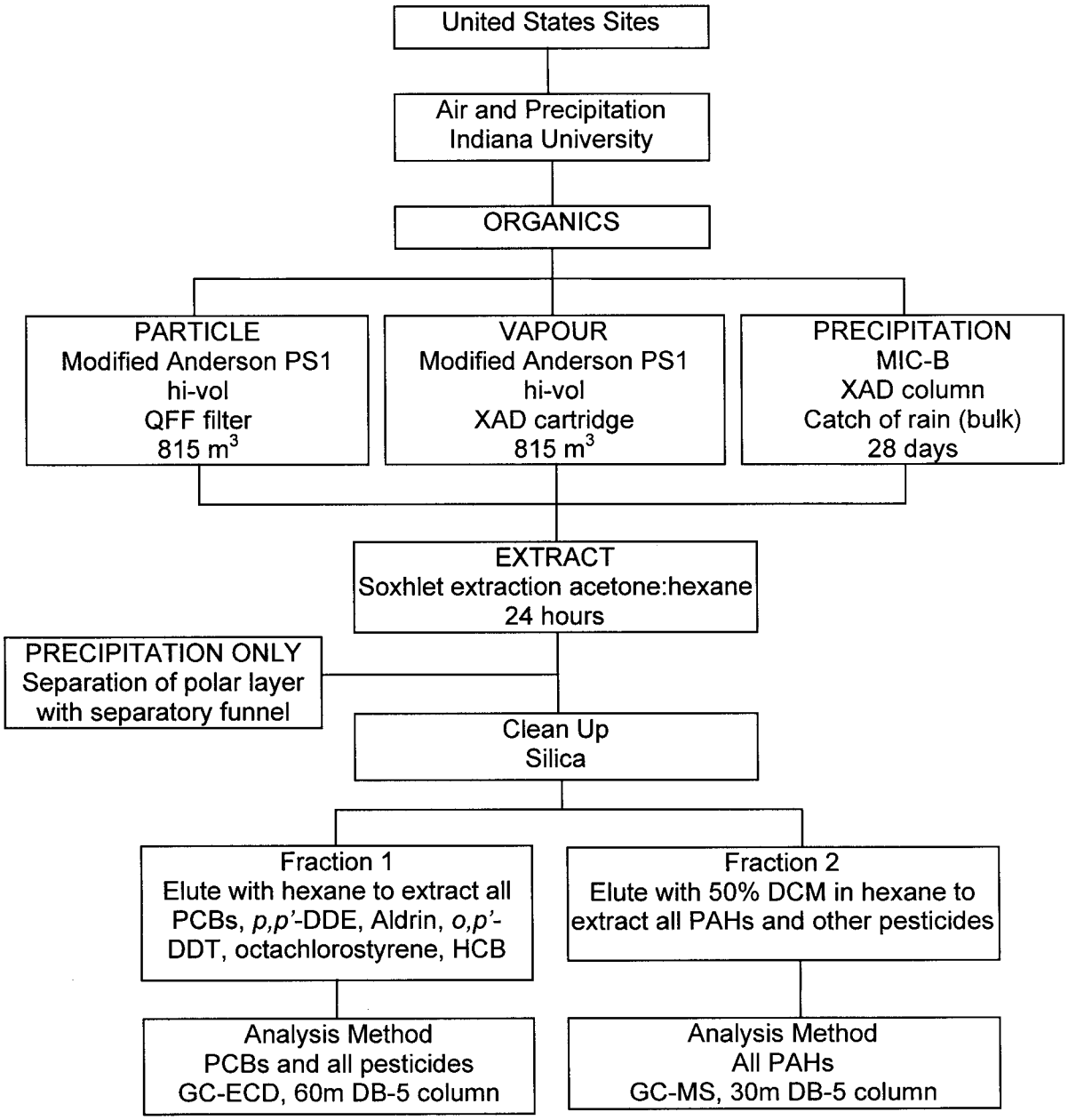


Figure 4. Schematic of Analyses for US Air and Precipitations Samples.



IADN follows a strong quality assurance program. The Quality Assurance Program Plan (QAPP) was documented jointly by Environment Canada, the United States Environmental Protection Agency, and the Ontario Ministry of the Environment and Energy (February 1994). All air and precipitation chemical data and all meteorological data measured by IADN go through a quality control process via the Research Data Management and Quality Control System™ (Sukloff et al., 1995).

Based on the results of our quality assurance studies to date, differences in loading estimates among sites/lakes should be viewed in consideration of the identified measurement differences among agencies involved in IADN. Some of these differences include (Fowlie, 2001): for PAHs, IU [Indiana University] reports data about 30% higher than MSC [Meteorological Services of Canada] for gas-phase samples but there was no such bias for particles or precipitation. For PCBs in the gas phase, IU reported data about 30% higher than MSC. For pesticides, IU reports data about 30% higher than MSC in the gas phase but comparable to NLET for precipitation. It is important to note that these results can only be applied to one point in time early in 2001 and should not be applied without caution to the 10 years of the IADN program. These issues continue to be addressed to ensure that data are compatible.

3. Loadings Calculations

3.1. Loadings Equation

Detailed descriptions of the loadings calculations can be found elsewhere (Hoff, 1994; Hoff et al., 1996; Hillery et al., 1998). A brief summary will be presented here. Net atmospheric flows (L, in kg/yr) are based on three processes: wet deposition, dry deposition, and net gas exchange. They are represented by the equation:

$$L = C_p R_p A + C_a \phi_a v_d A + [k_{ol}(1-\phi_a) C_a (RT/H) A - k_{ol}(1-\phi_w) C_w A] \quad (1)$$

Wet deposition is the product of the volume-weighted mean precipitation concentration, C_p (kg/m^3), the rate of precipitation, R_p (m/yr), and the area of the lake, A (m^2). Dry deposition is the product of the total atmospheric concentration of the pollutant, C_a (kg/m^3), the fraction of the compound in the particle phase, ϕ_a, the deposition velocity of the particles, v_d (m/yr), which is taken as 0.2 cm/s for all chemicals, and the area of the lake, A (m^2). The product of C_a and ϕ_a is operationally defined as the concentration obtained on the filter samples. Atmospheric concentrations are obtained from the measurements at master stations. It should be noted that the use of 0.2 cm/s does not accurately reflect the deposition velocity of all particles and most likely results in an underestimation of dry deposition.

Net gas exchange is divided into two components: absorption and volatilization. The variable, k_{ol} (m/yr), is the overall air-water mass transfer coefficient, R (atm m^3 K^{-1} mol^{-1}) is the ideal gas constant, T (K) is the temperature at the air-water interface, H (mol atm^{-1} m^{-3}) is the Henry's Law constant, and C_w (kg/m^3) is the concentration of the compound in water. For absorption, $(1 - \phi_a)C_a$ is the air concentration of the compound in the gas phase as obtained operationally on the PUF or XAD media. Absorption is the transfer of the compound in the gas phase from air to water. In the volatilization term, ϕ_w is the fraction of the compound on the particle phase in the water, thus making $(1 - \phi_w)C_w$ the dissolved phase concentration of the compound of interest. Volatilization is then the transfer of the compound from water to air. Net gas exchange is the sum of the absorption and volatilization estimates. The convention in this report is that positive net gas exchange indicates absorption, while negative net gas exchange indicates volatilization.

The loadings estimates are presented in this report as both flows and fluxes. Fluxes (ng/m^2/day) are simply the flows (kg/month) converted to ng/day and divided by the appropriate lake area. These areas are 82,100 km^2 for Lake Superior, 57,800 km^2 for Lake Michigan, 59,600 km^2 for Lake Huron, 25,700 km^2 for Lake Erie, and 18,960 km^2 for Lake Ontario. Fluxes allow for comparisons between the lakes by removing the variation due to differing lake areas. In past IADN reports, flows and fluxes were calculated seasonally and then summed to give annual loads and averaged to give annual fluxes. In this report, loadings estimates of dry and wet deposition and absorption are calculated monthly. Volatilization estimates are calculated annually and presented in a separate section since IADN does not measure water concentrations and must rely on other researchers' measurements.

In this report, errors are presented for each term as a coefficient of variation (COV). These COVs were calculated in accordance with the error propagation analysis by Hoff (1994). However, because monthly loadings estimates are now calculated, the standard deviation over mean as a measure of uncertainties for ambient air concentrations was not used because only 2-3 values were available. Instead, limit of detection over mean was adopted. This has resulted in slightly smaller overall COVs since temporal variability was one of the major source of error in previous reports.

3.2. 1999-2000 Model Improvements

The 1999-2000 Report includes several improvements to the calculation of the modeled estimates. The first significant improvement is the conversion to the Statistical Analysis System (SAS) format from an Excel-based program. The use of SAS allows direct transfer of the IADN data from the quality control process via the Research Data Management and Quality Control System™ (Sukloff et al., 1995). Further calculations will now be automated and thus results will be available shortly after data delivery. For the purpose of calculations, non-detect data values were set to zero. Other improvements have been done to various parameters in the model. These improvements affect the wet deposition and gas exchange terms of equation 1 and are discussed below. Considering the many changes to the calculations, flows and fluxes for all years were recalculated using the new information.

3.2.1 Rate of Precipitation, R_p

In past reports, the rate of precipitation R_p (m/yr) has been derived from data collected at each Master Station. This was then applied to the rest of the Lake although it had been recognized that this might not properly represent the rate of precipitation over the entire Lake. In this report, rates of precipitation have been obtained from the Great Lakes Environmental Research Laboratory (http://www.glerl.noaa.gov/) and averaged monthly. The NOAA estimates use multiple land-based measurements to interpolate area-weighted overlake precipitation amounts using the Thiessen method (Huggins, 1996). The ratios of lakewide precipitation estimates versus the precipitation rate at station are presented in Figure 5 for all Lakes for all years. For all Lakes, averages of these ratios are close to unity with RSD of the order of 40 to 70% due to monthly variability. Therefore although for the entire period, the updated precipitation rates may not drastically impact the wet deposition estimates, they will be affected for certain months/Lakes.

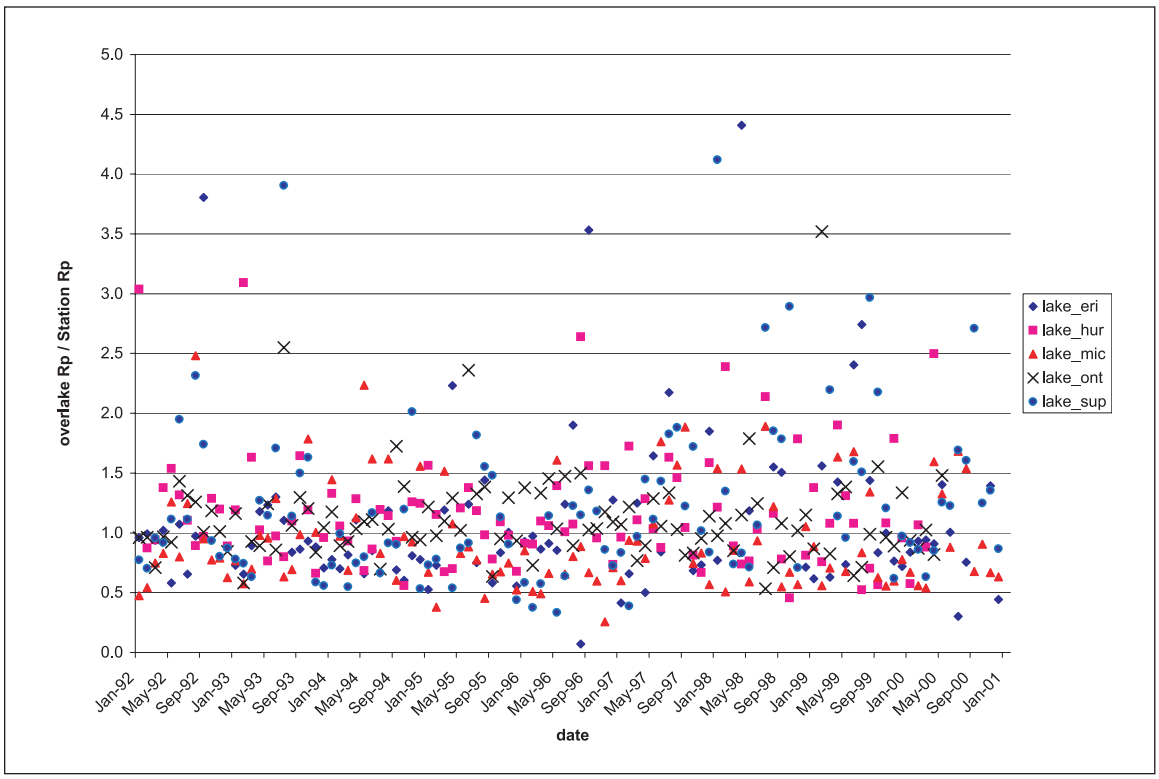


Figure 5. Ratio of lakewide R_p and station R_p for all years of measurements.

3.2.2 Henry's Law Constant, H

Modification of the Henry's law constants (H) strongly affects mass transfer coefficients and absorption (Equation 1). For this report updated Hs were adopted for PCBs based on the work of Li et al (2003). A list of all the Hs used is given in Table 3. Li et al. do not report temperature-dependent Hs for congeners 18 and 44. Congener 28 and 52 were used as surrogates of tri and tetra chlorinated PCB, respectively. Thus their temperature-dependent Hs were applied to PCB18 and PCB44. For the suite PCB, each homologue group was weighted according to its occurrence in ambient air samples (Neilson, 2000) and the same weight was used to obtain a "suite" H. The suite H equation is similar to the tetra homologue group that is the most prominent group in the atmosphere around the Great Lakes. It is important to note that the choice of Henry's law constants is critical to the resulting loadings estimates. Therefore further work will be ongoing to assess the effects of other researchers published H values on loadings calculations.

Table 3. Henry's Law Constants used in IADN calculations of gas exchange.

Substance	Parameters *m* and *b* for Henry's Law Constant, H (Pa•m^3/mol), $log_{10}H = m/T+b$		Source
	m	b	
α-HCH	-3054	10.1	Cotham and Bidleman (1991); Jantunen and Bidleman (2000)
Dieldrin	-3416	12.2	Cotham and Bidleman (1991)
Cis-chlordane	-1994	8.11	Jantunen et al. (2004)
Trans-chlordane	-1760	7.36	Jantunen et al. (2004)
Trans-nonachlor	-2317	9.28	Jantunen et al. (2004)
p,p'-DDD	-3416	11.3	Suntio et al. (1987); Tateya et al. (1988); as per Hoff et al. (1996)
p,p''-DDE	-2590	10.13	Jantunen et al. (2004)
p,p'-DDT	-3416	11.7	Cotham and Bidleman (1991)
γ-HCH	-2694	8.54	Cotham and Bidleman (1991); Jantunen and Bidleman (2000)
α-endosulfan	-1001	4.26	Rice et al. (1997)
HCB	-2559	10.4	Ten Hulscher et al. (1992)
PCB 18 (tri)	-2860	11.1	Li et al. (2003)
PCB 44 (tetra)	-2956	11.3	Li et al. (2003)
PCB 52 (tetra)	-2956	11.3	Li et al. (2003)
PCB 101 (penta)	-3233	12.2	Li et al. (2003)
IADN suite PCB	-2954	11.3	Weighted Calculation
Phenanthrene	-2469	8.89	Bamford et al. (1999)
Pyrene	-2239	7.59	Bamford et al. (1999)
Benzo[b]fluoranthene	-3416	10.4	Ten Hulscher et al. (1992)
Benzo[k]fluoranthene	-3416	10.7	Ten Hulscher et al. (1992)
Benzo[a]pyrene	-3416	10.8	Ten Hulscher et al. (1992)
Indeno[1,2,3-cd]pyrene	-3416	6.95	Ten Hulscher et al. (1992)

3.2.3 Wind Speed, U_{10}

In previous reports, the wind speed at 10 meters (U_{10}) has been obtained from measurements at station and then applied to the entire lake area. A better representation of lakewide wind speeds has now been obtained and incorporated into the model. Monthly wind speed values derived by NOAA (NOAA, 2000) from over-water buoy data were used. The impact of these updated wind speeds is quite significant because it affects the air-water mass transfer coefficient. Kol is calculated from the water-side and air-side mass transfer coefficients following

$$\frac{1}{k_{ol}} = \frac{1}{k_w} + \frac{RT}{Hka} \tag{2}$$

The equation for the water-side mass transfer coefficient is (Galarneau et al, 2000):

$$k_{w,x} = 0.45u_{10}^{1.64}\left[\left(\frac{V_{m,x}}{29.6}\right)^{0.6}\right]^{(-0.5 or -0.66)} \tag{3}$$

The exponent will change depending on wind speed: if U_{10}<3.6 then -0.66 is used for the exponent and if U_{10}≥3.6 then -0.5.

While the air-side mass transfer coefficient is:

$$k_{a,x} = 15(0.2u_{10} + 0.3)\left[\frac{(1/M_x + 1/29)^{0.5}}{\left((\Sigma V_d)_x^{1/3} + 19.7^{1/3}\right)^2}\right]^{0.61} \tag{4}$$

Where $V_{m,x}$ is the molar volume, M_x is the molecular weight, ΣV_d is the atomic diffusion volume, all three quantities are specific to each chemical of interest. Therefore it is readily seen that a modification of the wind speed results in a substantial change of k_w, k_a and thus k_{ol}.

The ratios of lakewide wind speed estimates versus wind speeds measured at station are plotted in Figure 6 for all Lakes for all years. As can be observed there are substantial differences in wind speeds measured at the stations versus integrated overlake values mostly resulting in larger wind speeds. This will in turn impact the mass transfer coefficients where a doubling of wind speed will result in an increase of k_{ol} by a factor of 2 to 4. Undoubtedly this will affect the gas exchange term of equation 1.

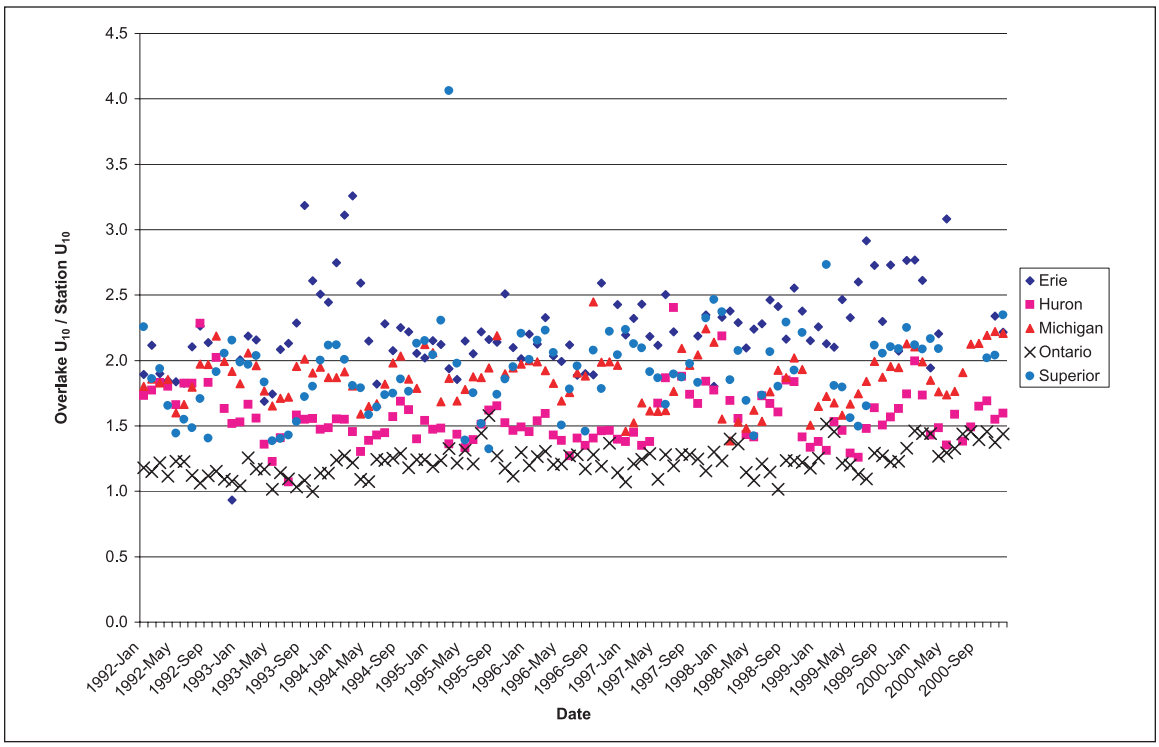


Figure 6. Ratios of lakewide and at station wind speeds for all measurements.

It is important to note that this effect is not as significant for Lake Ontario where the ratio of new to old wind speed is lowest. This is likely due to the fact that the IADN site on that lake is located on a peninsula extending into the lake and thus the meteorological measurements at station reflect open lake conditions.

As discussed in section 3.1, lake water concentrations, although crucial to the loadings calculations, are not measured on a routine basis as part of IADN. No new data were available for 1999-2000, therefore water concentration data for 1997 and 1998 from available sources were used (Buehler et al., 2001). If more than one source was available for a given lake for one year, the water concentration data were pooled by the method of weighting by inverse variance (Taylor, 1990).

4. Results

A comparison of annual wet deposition flows (kg/yr) between results contained in this report and results for 1997-98 calculated using the old method (Buehler et al., Appendix D) indicates a difference of 25% or less. This difference can be explained by the adoption of overlake precipitation for the calculations herein. The introduction of overlake wind speeds has also increased the absolute magnitudes of absorption and volatilization by one and a half to two times. Furthermore, the water-side mass transfer coefficient is also dependent on wind speed (the exponent term, Equation 3) as the wind speed goes from less than 3.6 m/s at station to more than 3.6 m/s overlake. The water concentrations were obtained as annual averages. Earlier in IADN's operation, particulate concentrations were found to be insignificant for pesticides and PCBs, so dry deposition is not determined for those chemicals.

4.1 Organochlorine pesticides:

4.1.1 α-HCH

Wet deposition fluxes of α-HCH appear to be decreasing particularly for Ontario and Huron. For all lakes, the amount of precipitation has not significantly varied since 1992 therefore the decreasing trend is due to a decline of α-HCH in precipitation. This has been shown before (Chan et al. 2003) and attributed to international changes in usage patterns. Lakes Huron and Ontario have larger wet deposition fluxes than the other Lakes.

The magnitude of both absorption and volatilization has decreased over time, and air-water exchange for α-HCH is approaching equilibrium whereby absorption from the atmosphere equals volatilization from the Lake. The volatilization trends for Lake Michigan and Huron are driven by the difference in water concentration data pre- and post-1994.

A strong seasonality is observed for both absorption and volatilization of α-HCH with maxima in the summer months (Figure 7). The strong seasonality observed is likely a result of the temperature dependence of source strengths of banned OC pesticides i.e. increased summertime volatilization from soils where they were historically applied.

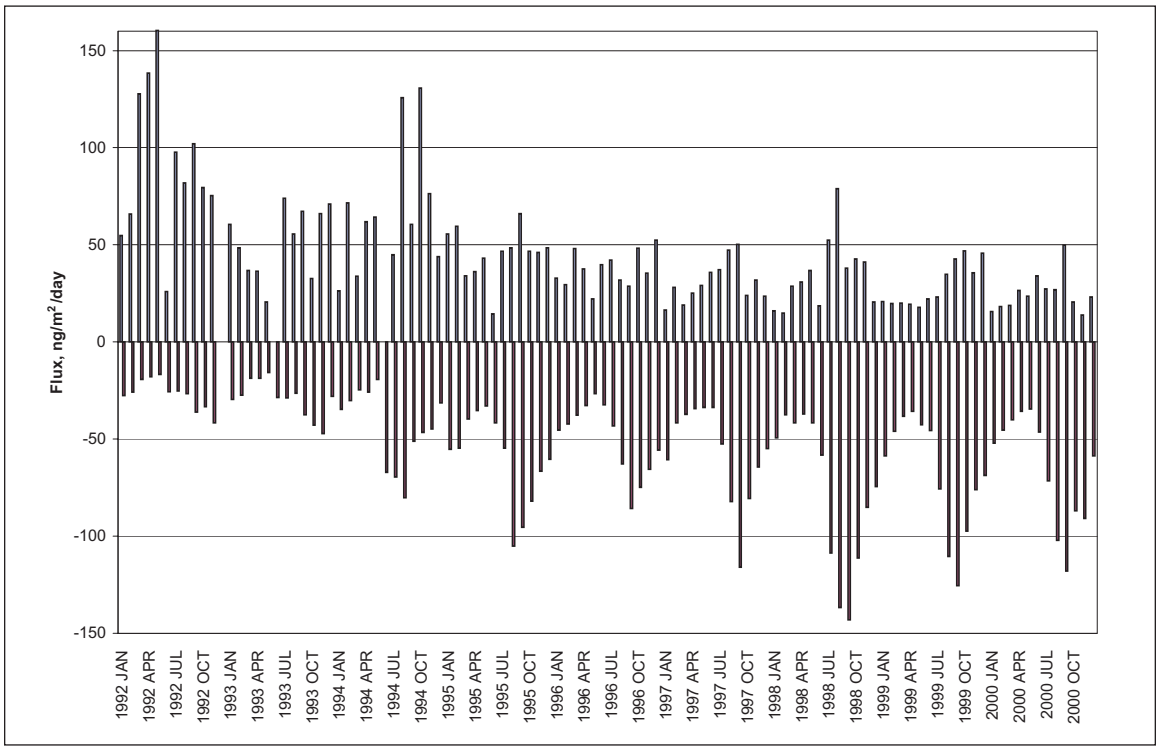


Figure 7. α-HCH monthly absorption and volatilization fluxes for Lake Superior.

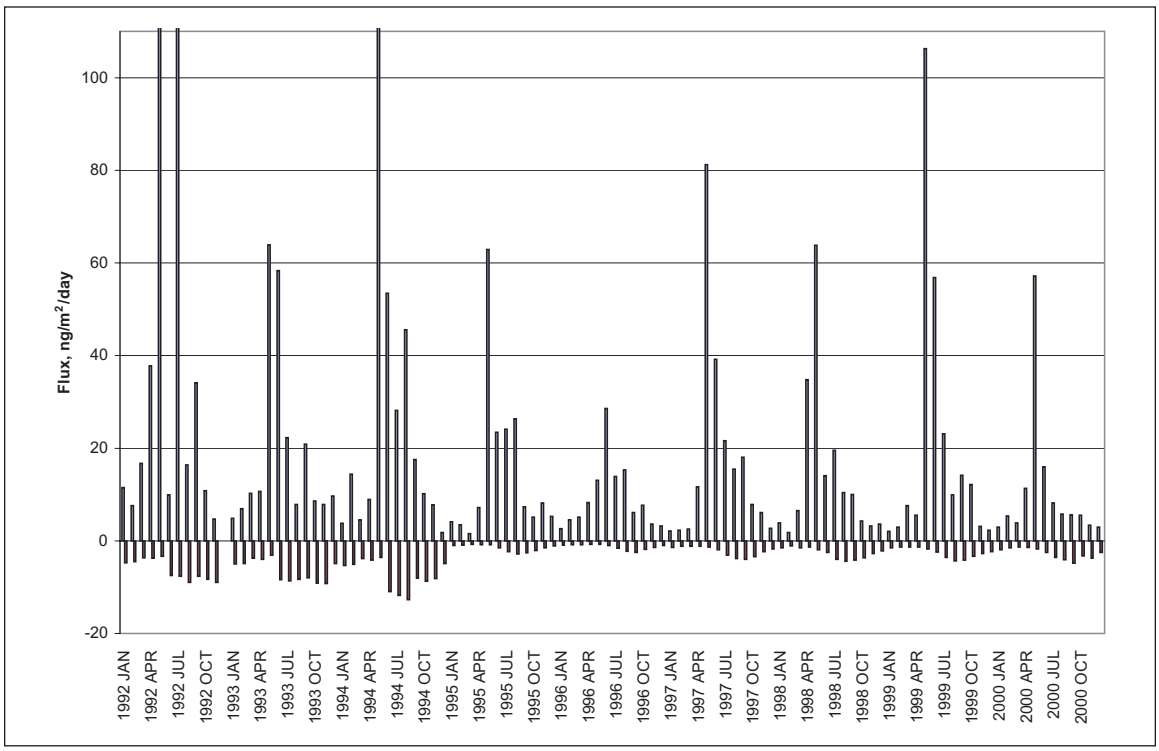


Figure 8. γ-HCH monthly absorption and volatilization fluxes for Lake Michigan.

4.1.2 γ-HCH (Lindane)

Wet deposition fluxes of γ-HCH have remained similar throughout the nineties. This is not surprising because lindane is a current-use pesticide in Canada that has been shown to impact the Great Lakes region (Ma et al. 2003). For all Lakes, lindane is still showing net deposition through absorption from the atmosphere. All Lakes present a strong seasonality (Figure 8) with maxima in absorption fluxes in April-May-June. Lindane has been used extensively in the Canadian prairies as a seed treatment for canola and re-emission from soil usually occurs in April-May (Waite et al. 2001). This re-emission from the Canadian prairies can then be transported to the Great Lakes basin. This is clearly seen from the temporal variation of the absorption results. Some volatilization of lindane from the Lakes occurs in summer but this is usually relatively small compared to the spring atmospheric deposition.

For α-HCH, the use of overlake wind speeds has had the result of increasing both absorption and volatilization significantly compared to Buehler et al. This is partly due to the fact that the atmospheric concentration maxima are in summer when the wind speed differences are more pronounced. However, in the case of lindane, the absorption component will not be as influenced since lindane has a springtime maxima when wind speeds at station and overlake are relatively comparable. Thus the magnitude of lindane absorption fluxes to the Lakes is comparable to results obtained by Buehler et al. However the volatilization term will be affected since most lindane volatilization occurs in summer.

4.1.3 Dieldrin

Dieldrin has been used directly as a pesticide on crops but is also a degradation product of aldrin; both were deregistered in 1987. This banned pesticide has been volatilizing from the lakes since 1992. As with other compounds, the inclusion of the overlake wind speed had a doubling effect on the volatilization and also results in a seasonal pattern with larger volatilization in summer (when wind speeds are largest).

4.1.4 HCB

HCB absorption data are only reported for Lake Superior, Michigan and Erie due to breakthrough during air sampling at the Canadian sites. At all sites HCB is tending towards equilibrium with absorption and volatilization having similar magnitudes. Fluxes are between 15 and -15 ng/m^2/day for all three lakes indicating the ubiquity of HCB. There is a strong seasonality of both absorption and volatilization fluxes for all Lakes with maxima in winter. While most OC pesticides usually peak in summer, HCB has a relatively large Henry's law constant (H) yielding mass transfer coefficients with winter maxima.

4.1.5 Chlordanes

Cis-chlordane, trans-chlordane, trans-nonachlor

Technical chlordane was used extensively for termite control and phased out in the US in 1988. Volatilization from soils is the predominant source of chlordanes to the Great Lakes (Hafner and Hites, 2003). In this loadings report, only wet deposition and absorption fluxes are included. The fluxes of chlordanes are small, often less than 1-2 ng/m^2/day. Lake Erie has the largest absorption fluxes for all three compounds.

4.1.6 DDT and Metabolites

p,p'-DDT; p,p'-DDD; p,p'DDE

DDT has been banned in Canada and the United States since the early 1970s, while Mexico banned its use in 2000. For these compounds, absorption fluxes dominate and are larger for Lake Erie. Fluctuations throughout the nineties are observed; for example, p,p'-DDT showed a slight increase in absorption during the summers of 1999 for Lake Michigan. The increase seen in wet deposition for Lake Huron and Ontario in 1997 is due to a single monthly sample of large concentration.

4.1.7 α-endosulfan

α-Endosulfan is a current-use pesticide employed on fruit and vegetable crops with heavy uses in New York, Michigan and some use in Ontario. Absorption fluxes dominate deposition to the Lakes with larger fluxes for Lakes Michigan, Erie and Ontario. Wet deposition is also relatively significant for Lake Ontario. Similar to lindane, the other current-use pesticide measured by IADN, α-endosulfan deposition presents a strong seasonal pattern with maxima in summer consistent with application patterns.

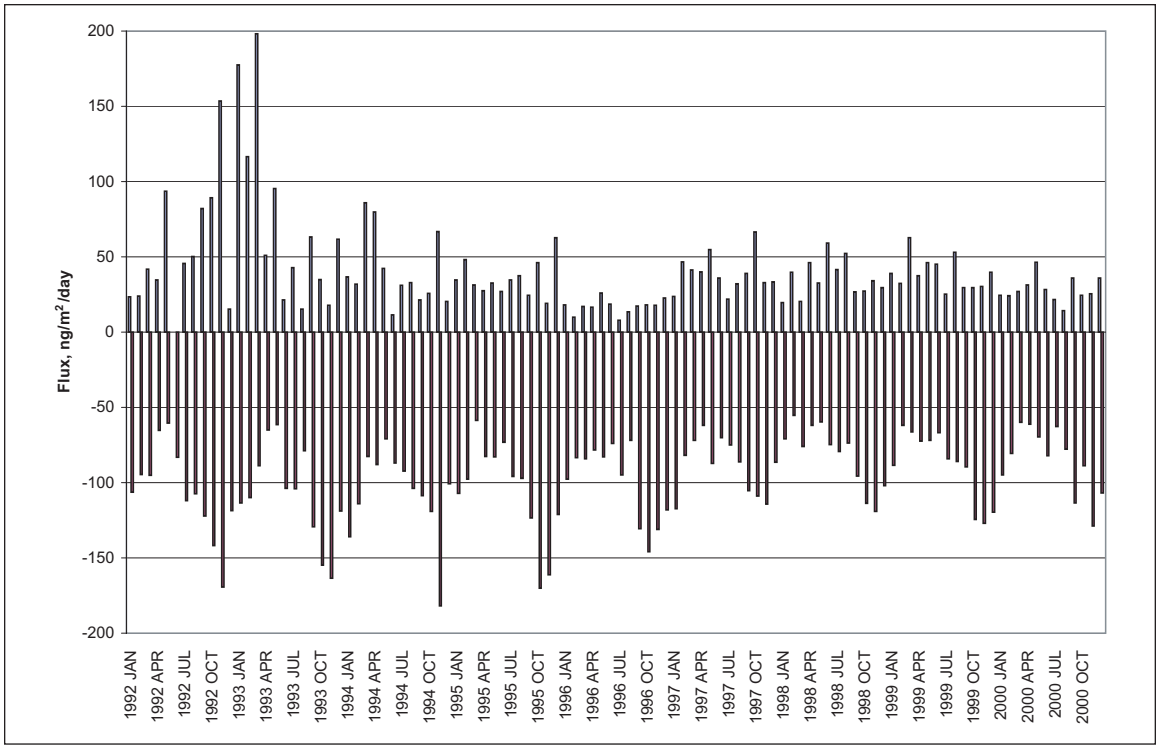


Figure 9. Suite PCBs absorption and volatilization for Lake Erie.

4.2 Polychlorinated Biphenyls, PCBs

Fluxes for the individual PCB congeners (18, 44, 52, and 101) generally reflect patterns of the suite. Wet deposition constitutes 7-15% of downward deposition on average (note that wet deposition fluxes are multiplied by 10 in Figure C16). There is no discernable trend over time for wet deposition and fluxes are similar among lakes for which recent data are available (Superior, Michigan, and Erie). It is also noteworthy to mention that the PCB concentrations in precipitation are getting very small relative to blank concentrations, particularly at the sites of Eagle Harbour and Sleeping Bear Dunes. Gas exchange is the dominant process for PCBs. Overall deposition of PCBs continues to decrease, with air-water exchange dominated by volatilization out of the Lakes, but tending towards equilibrium, particularly for Superior and Michigan. Some increases in absorption are seen in the late 1990s for Lakes Superior, Michigan, and Erie. Absorption decreases again by 2000. Monthly absorption and volatilization fluxes are plotted for Lake Erie. PCB fluxes tend to be largest for Lake Erie. The Lake Erie master station, Sturgeon Point, may be influenced by source areas of PCBs in New York State and in the highly populated areas on the eastern seabord of the U.S. (Hafner and Hites, 2003).

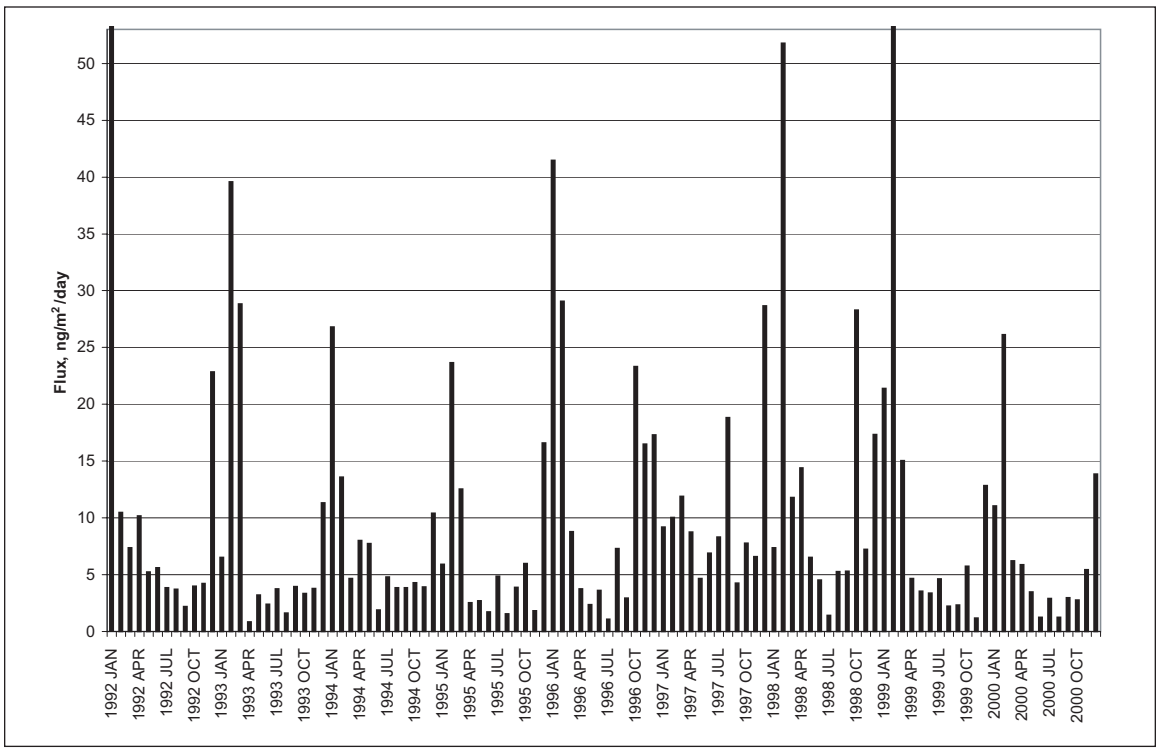


Figure 10. Pyrene Monthly Dry Deposition for Lake Ontario.

4.3 Polycyclic Aromatic Hydrocarbons, PAHs

Phenanthrene, Pyrene, B(a)P, Indeno, B(b+k)F

For the lighter PAHs (e.g. phenanthrene), absorption fluxes dominate deposition to the Lakes whereas for the heavier PAHs (e.g. B(a)P), wet and dry deposition are the main pathways of entry into the lakes. Fluxes are largest for Lake Erie, particularly absorption, again emphasizing the impact of urban emissions on the Sturgeon Point site.

For all lakes no particular temporal trend is observed consistent with current emissions of these combustion by-products. Across the basin, dry deposition of PAHs is larger in winter (Jan.-Apr.) reflecting the tendency of these semi-volatile compounds to partition to aerosols in colder temperatures (Figure 10). Furthermore, domestic heating is expected to contribute to winter PAHs maxima. For phenanthrene and pyrene, absorption fluxes might be expected to be larger in summer when temperatures are warmer and the more volatile PAH will partition to the vapour phase. This is only observed for Lake Superior. For the other lakes, the increase in domestic heating sources in winter seems to obscure this pattern and thus seasonality is not as marked.

4.4 Trace Metals

Lead, Cadmium, Arsenic, Selenium

For all metals, wet deposition fluxes are larger than dry deposition. For the present calculations, the deposition velocity was 0.2 cm/s for all organochlorines, PAHs and metals. More information is needed to accurately describe the dry deposition process, in particular the use of a single value deposition velocity. For trace metals, it is possible that dry deposition fluxes are underestimated. No trends in dry or wet deposition were observed for both Lakes. This is not surprising since Canadian atmospheric emissions have not significantly declined since 1992.

4.5 Urban Influence

Many air monitoring studies in urban areas have shown higher levels of toxic pollutants than exist at more rural sites (Simcik et al., 1997; Miller et al., 2001; Harner et al., 2004). Lakes Michigan, Erie, and Ontario are likely significantly affected by deposition from urban areas such as Chicago/Milwaukee, Cleveland, and Toronto/Hamilton. Therefore, loadings calculated using only master station data most likely underestimate deposition to the Great Lakes. In the past, the only urban IADN station was located on the Illinois Institute of Technology campus in Chicago. In late December of 2002, a new monitoring site was established in Cleveland, Ohio. Data from this site will assist IADN in estimating urban inputs to Lake Erie. The previous two IADN loadings reports (for data from 1995-96 and 1997-98) calculated fluxes and loadings using Chicago data to estimate the influence of that urban area on atmospheric deposition to Lake Michigan. This exercise has been repeated for this report.

Fluxes calculated using Sleeping Bear Dunes data and Chicago data are compared. Chicago data are then applied to an area of the lake representing the “urban plume” to examine the increase in loadings to the Lake. Flux and loadings estimates were made on an annual basis, and average lakewide surface water temperature and precipitation rates, as well as overwater wind speeds, were used. As for loadings results for Sleeping Bear Dunes, the water data used were unpublished EPA data from 1997 (the most recent available). Volatilization estimates are not available for many chemicals due to the lack of available data. In addition, dry deposition estimates could not be made for some compounds due to lack of particulate concentration measurements (most notably for PCBs).

Table 4 shows a comparison of fluxes occurring at Sleeping Bear Dunes (the background site) and Chicago. Examination of total net inputs (not including volatilization) indicates that total downward fluxes in 1999 were greater at Chicago for all chemicals except α-HCH and α-endosulfan. Fluxes were generally higher in Chicago but of the same magnitude for the DDTs and HCB, while the chlordane components were about ten times higher at Chicago. Actually, downward fluxes of the HCHs, α-endosulfan, and HCB are very similar between the two sites. The comparability of the pesticide fluxes between the two sites may be due to the fact that many of the IADN pesticides were used in agriculture in more rural areas, like those near Sleeping Bear Dunes. Chlordane was used for termite control, explaining the greater presence in the urban area. The comparability of HCB fluxes may simply reflect the ubiquity of HCB as a pollutant, in part due to its ability to be transported easily over long distances from sources to more remote areas.

The situation is different for PCBs and PAHs. Total downward fluxes of PCBs were about ten times higher in Chicago. Downward fluxes of PAHs were generally about 20-75 times higher at the urban site. Examination of volatilization was limited due to the availability of water data, but for PCBs (with the exception of PCB 52), addition of Chicago data usually resulted in a switch in direction for gas exchange from net volatilization (but generally near equilibrium) at Sleeping Bear Dunes to net deposition at Chicago. Net gas exchange of PCB 52 was positive at both SBD and Chicago. Chicago fluxes in all deposition categories tended to decrease from 1999 to 2000 reflecting patterns at the master stations.

Elevated PCB fluxes at Chicago may be due to continued inputs of PCBs from landfills, sewage sludge drying beds, and historically contaminated sites in the area (Hsu et al. 2003). High PAH fluxes are most likely due to a high concentration of industry in the Chicago-Gary, IN area as well as contributions from motor vehicles.

Patterns in dominant deposition processes reflect those at the master stations: the pesticides, PCBs, and lighter PAHs (phenanthrene and pyrene) have highest fluxes for absorption, whereas the heavier PAHs have higher fluxes for wet and dry deposition than for absorption. Wet deposition fluxes were lowest for pesticides and HCB and higher for PCBs and PAHs at Sleeping Bear Dunes, and the same is the case at Chicago. Wet deposition fluxes are higher in the city, particularly for PAHs. When compared to past fluxes (1996-1998), newly calculated Chicago wet deposition fluxes were either comparable or lower. For dry deposition, pesticide fluxes are much lower than PAH fluxes at both SBD and Chicago. Similar to wet deposition, dry deposition fluxes of PAHs are much higher at the Chicago site, in the hundreds of $ng/m^2/d$ compared to fluxes in the single digits at SBD. Dry deposition fluxes at Chicago have been for the most part consistent over time. Absorption fluxes for dieldrin, chlordane component compounds, and DDT and its degradation productions were quite a bit higher (about five to ten times) at Chicago versus SBD. The urban effect on absorption fluxes was even higher for PCBs (8-22X) and the lighter PAHs (40-100X).

Reflecting a pattern found at the master stations, the magnitude of the absorption and volatilization fluxes has increased by about two for many compounds (versus the results for 1996-98, which used old methods of calculation). This is most likely due to a method change, namely the use of overlake wind speeds, which are greater than at-station wind speeds, rather than a change in the state of the environment. The method change also results in higher net loads (wet + dry + absorption + volatilization), which can be calculated for substances with available water data.

Loadings (in kilograms per year) to Lake Michigan as a whole were also calculated taking Chicago's influence into account. As in the past, the "urban plume" surface area where Chicago data was applied was 100 km of shoreline and 10 km offshore for wet and dry deposition (1,000 km^2, or 1.7% of the total lake area) and 100 km by 20 km offshore for gas exchange (2,000 km^2, or 3.5% of the total lake area) (See Galarneau et al. 2000). It is assumed that Chicago-originated pollutants in the vapor phase have a more extensive spatial influence out over the lake, since particles and affected precipitation deposit closer to the city. In addition, the percentages of the time that winds were blowing from Chicago out onto the Lake (winds from entire southwest quadrant) were calculated using 1999 and 2000 station-specific hourly meteorological data from IIT. This was used to determine the fraction of the time that the Chicago concentrations/fluxes should be applied to the affected area of the lake. These percentages were 32.8% and 35.2% for 1999 and 2000, respec-

Table 4. Mass Fluxes (ng/m²/day) of atmospheric deposition at Sleeping Bear Dunes (SBD), the master station, and Chicago in 1999 and 2000.

		Wet Deposition		Dry Deposition		Absorption		Volatilization		Net Gas Exchange		Total (w/dry deposition)		Net Input (downward flux)	
		SBD	Chicago	SBD	Chicago	SBD	Chicago	SBD	Chicago	SBD	Chicago	SBD	Chicago	SBD	Chicago
α-HCH	1999 2000	0.68 1.7	1.3 1.2	0.16 0.15	0.081 0.034	20 22	16 24	-16 -17	-15 -16	4 5	1 8	4.9 6.9	2.4 9.2	21 24	17 25
γ-HCH	1999 2000	0.79 2.3	5.4 2.4	0.1 0.04	0.2 0.1	21 11	18 14	-2 -2.7	-2.4 -2.6	19 8.3	16 11.4	20 11	21 14	22 13	24 17
Dieldrin	1999 2000	0.94 0.9	5 2.3	0.91 0.57	4.2 3.4	9.7 4.8	59 22							12 6.3	68 28
Cis-chlordane	1999 2000	0.31 0.34	1.3 1.5	0.1 0.08	0.73 0.6	0.84 0.68	8.3 4.1		-4 -4.6		4.3 -0.5		6.3 1.6	1.3 1.1	10 6.2
Trans-chlordane	1999 2000	0.04 0.04	0.32 0.23	0.09 0.05	0.62 0.48	0.7 0.39	5.5 2.9		-2.8 -3.1		2.7 -0.2		3.6 0.51	0.83 0.48	6.4 3.6
Trans-nonachlor	1999 2000	0.05 0.04	0.27 0.13	0.07 0.02	0.26 0.23	0.78 0.53	3.7 2.1		-3.2 -3.6		0.5 -1.5		1 -1.1	0.9 0.58	4.2 2.5
α-endosulfan	1999 2000	0.75 1.2	2.4 1.6	1.04 0.68	1.1 0.9	16 7.6	14 9.4							18 9.5	18 12
p,p'-DDE	1999 2000	0.25 0.06	0.59 0.18			0.94 0.65	5.6 3.3		-5.6 -6.3		0 -3		0.59 -2.8	1.2 0.71	6.2 3.5
p,p'-DDT	1999 2000	0.2 0.21	1.6 0.51	0.06 0.05	1.6 0.78	2.3 0.78	13 6.7		-0.25 -0.26		13 6.4		16 7.7	2.6 1.2	16 8
p,p'-DDD	1999 2000	0.04 0.03	0.43 0.12	0.07 0.02	0.42 0.22	1.2 0.35	1.4 0.49		-0.01 -0.011		1.4 0.48		2.2 0.82	1.3 0.4	2.3 0.83
HCB 2000	1999 0.04	0.04 0.045	0.12		6.8	5.9 8.1	7.9 -8.4	-7.2 -8.5	-7.4 -1.6	-1.3 -0.4	0.5 -1.6	-1.3 -0.36	0.62 6.8	6 8.1	8
PCB 18	1999 2000	0.09 0.09	0.54 0.25			1.3 0.8	10 5.3	-1.7 -1.9	-1.8 -2.1	-0.4 -1.1	8.2 3.2	-0.31 -1	8.7 3.5	1.4 0.94	11 5.6
PCB 44	1999 2000	0.16 0.08	1.5 0.6			1 0.82	11 6.1	-2 -2.3	-2.2 -2.5	-1 -1.5	8.8 3.6	-0.84 -1.4	10 4.2	1.2 0.9	13 6.7
PCB 52	1999 2000	0.15 0.17	0.66 0.57			1.2 0.9	16 10	-0.49 -0.57	-0.09 -0.1	0.71 0.33	16 9.9	0.86 0.5	17 10	1.4 1.1	17 11
PCB 101	1999 2000	0.11 0.13	0.58 0.53			0.65 0.5	13 7.1	-1.3 -1.5	-1.2 -1.4	-0.65 -1	12 5.7	-0.54 -0.87	12 6.2	0.76 0.63	14 7.6
Suite PCBs	1999 2000	2.8 2.3	16 8.6			21 15	260 140	-23 -27	-24 -27	-2 -12	240 110	0.8 -9.7	250 120	24 17	280 150
Phenanthrene	1999 2000	11 13	760 210	6.4 8.9	210 150	290 330	16000 11000							310 350	17000 11000
Pyrene	1999 2000	9 8.8	550 160	6.9 8.1	290 240	21 25	1900 1400							37 42	2700 1800
B(b+k)F	1999 2000	14 14	580 210	11 16	390 300	0.22 0.01	100 61							25 30	1100 570
B(a)P	1999 2000	5 4.1	320 85	2.6 3.5	140 110	0 0	14 11							7.5 7.6	470 210
Indeno(1,2,3-cd)P	1999 2000	8 6	290 81	4.5 6.4	200 150	0 0	17 12							12 12	510 240

tively, and are similar to such percentages from past calculations showing that contaminated urban air blows out onto the lake roughly a third of the time.

Table 5 shows loadings for Sleeping Bear Dunes and Chicago, as well as a percentage urban effect (the ratio of the extra loading provided by Chicago to the lakewide loading calculated using only Sleeping Bear Dunes data). Since loadings are simply fluxes applied to the Lake as a whole, general patterns for loadings reflect those found in the fluxes. Total downward loadings (''net input'' which do not include the effects of volatilization) show that Chicago has a minimal effect for the HCHs, a-endosulfan, p,p'-DDD, and HCB. Urban effects of about 5-10% are found for dieldrin, the chlordane components, and p,p'-DDT and its degradation product p,p'-DDE. Since gas exchange is the dominant deposition process for the pesticides and HCB, increases in absorption drive urban effects, and wet deposition and dry deposition generally have a lower urban effect than for gas absorption for these substances.

Urban effects for total downward loads for PCB congeners range from 7% to 20%, with about a 10-13% added effect for Suite PCBs. When volatilization is included, in most cases there is a negative urban effect, indicating a switch from net volatilization at the rural site to net deposition at Chicago. The exception is PCB 52, which has positive net deposition at both sites, and Suite PCB in 1999, which for the first time since early in the IADN program shows total deposition (including all pathways) to be positive at Sleeping Bear Dunes, though the Suite PCB contribution from Chicago for that year is still three times higher than the lakewide loading calculated using data from SBD. However, Suite PCB total deposition for SBD becomes negative again in 2000.

Urban effects for PAH loadings are sizable in all deposition categories. Since wet and dry deposition are more significant for the heavier PAHs than for PCBs and the pesticides, urban effects for these processes are higher than was the case for pesticides and PCBs, usually between 10-40%. Urban effects for absorption are high, increasing deposition particularly for phenanthrene and pyrene, the ligher PAHs. Total downward loadings are increased by 12 to 72% for PAHs.

Fluxes and loadings for Chicago for 1999 and 2000 reiterate the conclusion from past IADN loadings reports that cities can have a significant effect on atmospheric deposition to the Lakes, particularly for PCBs and PAHs. The effect of urban pollution on deposition to Lake Michigan is likely greater than that described here for Chicago, since cities like Milwaukee and Green Bay are not included. Data from the new Cleveland station will shed further light on urban effects on the Great Lakes.

Table 5. Atmospheric Loadings (kg/yr) using data from Sleeping Bear Dunes (SBD), a remote master station, and Chicago for 1999 and 2000.

		Wet Deposition			Dry Deposition			Absorption			Volatilization			Net Gas Exchnage		Total		Net input		
		SBD	Chicago	Urban Effect	SBD	Chicago	Urban Effect	SBD	Chicago	Urban Effect	SBD	Chicago	Urban Effect	SBD	Chicago	SBD	Chicago	SBD	Chicago	Urban Effect
α-HCH	1999	14	0.16	1.1%	3.4	0.0097	0.3%	420	3.8	0.9%	-340	-3.6	1.1%	80	0.2	97	0.37	440	4	1.0%
	2000	36	0.15	0.4%	3.2	0.0044	0.1%	460	6.2	1.4%	-360	-4.1	1.1%	100	2.1	140	2.3	500	6.4	1.3%
γ-HCH	1999	17	0.65	3.8%	2.1	0.024	1.1%	440	4.3	1.0%	-42	-0.58	1.4%	400	3.7	420	4.4	460	5	1.1%
	2000	49	0.31	0.6%	0.84	0.013	1.5%	230	3.6	1.6%	-57	-0.67	1.2%	170	2.9	220	3.3	280	3.9	1.4%
Dieldrin	1999	20	0.6	3.0%	19	0.5	2.6%	200	14	7.0%						240	15	240	15	6.3%
	2000	19	0.3	1.6%	12	0.44	3.7%	100	5.7	5.7%						130	6.4	130	6.4	4.9%
Cis-chlordane	1999	6.5	0.16	2.5%	2.1	0.087	4.1%	18	2	11%		-0.96			1	27	1.3	27	2.2	8.2%
	2000	7.2	0.19	2.6%	1.7	0.077	4.5%	14	1.1	7.9%		-1.2			-0.1	23	0.17	23	1.4	6.1%
trans-chlordane	1999	0.84	0.038	4.5%	1.9	0.074	3.9%	15	1.3	8.7%		-0.67			0.63	18	0.74	18	1.4	7.8%
	2000	0.84	0.03	3.6%	1.1	0.062	5.6%	8.2	0.74	9.0%		-0.8			-0.06	10	0.032	10	0.83	8.3%
trans-nonachlor	1999	0.95	0.032	3.4%	1.5	0.031	2.1%	17	0.89	5.2%		-0.77			0.12	20	0.18	20	0.95	4.8%
	2000	0.72	0.017	2.4%	0.42	0.03	7.1%	11	0.54	4.9%		-0.92			-0.38	12	-0.33	12	0.59	4.9%
α-endosulfan	1999	16	0.29	1.8%	22	0.13	0.6%	340	3.4	1.0%						380	3.8	380	3.8	1.0%
	2000	25	0.21	0.8%	14	0.12	0.9%	160	2.4	1.5%						200	2.7	200	2.7	1.4%
p,p'-DDE	1999	5.3	0.071	1.3%				20	1.3	6.5%		-1.3			0	25	0.07	1 25	1.4	5.6%
	2000	1.3	0.023	1.8%				14	0.85	6.1%		-1.6			-0.75	15	-0.73	15	0.87	5.8%
p,p'-DDT	1999	4.2	0.19	4.5%	1.3	0.19	15%	49	3.1	6.3%		-0.06			3	55	3.4	56	3.5	6.3%
	2000	4.4	0.065	1.5%	1.1	0.1	9.1%	20	1.7	8.5%		-0.067			1.6	26	1.8	26	1.9	7.3%
p,p'-DDD	1999	0.84	0.051	6.1%	1.5	0.05	3.3%	25	0.34	1.4%		-0.002			0.34	27	0.44	27	0.44	1.6%
	2000	0.63	0.015	2.4%	0.42	0.028	6.7%	7.4	0.13	1.8%		-0.003			0.13	8.5	0.17	8.5	0.17	2.0%
HCB	1999	0.84	0.014	1.7%				120	1.9	1.6%	-150	-1.8	1.2%	-30	0.1	-29	0.11	120	1.9	1.6%
	2000	0.84	0.0058	0.7%				140	2.1	1.5%	-180	-2.2	1.2%	-40	-0.1	-39	-0.094	140	2.1	1.5%
PCB 18	1999	1.9	0.065	3.4%				27	2.4	8.9%	-36	-0.43	1.2%	-9	2	-7.1	2	29	2.5	8.6%
	2000	1.9	0.032	1.7%				18	1.4	7.8%	-40	-0.54	1.4%	-22	0.86	-20	0.89	20	1.4	7.0%
PCB 44	1999	3.4	0.18	5.3%				21	2.6	12%	-42	-0.53	1.3%	-21	2	-18	2.3	24	2.8	12%
	2000	1.7	0.077	4.5%				17	1.6	9.4%	-49	-0.64	1.3%	-32	0.96	-30	1	19	1.7	9.0%
PCB 52	1999	3.2	0.079	2.5%				25	3.8	15%	-10	-0.022	0.22%	15	3.8	18	3.9	28	3.9	14%
	2000	3.6	0.073	2.0%				19	2.6	14%	-12	-0.026	0.22%	7	2.5	11	2.6	23	2.7	12%
PCB 101	1999	2.3	0.07	3.0%				14	3.1	22%	-27	-0.29	1.3%	-13	2.8	-11	2.9	16	3.2	20%
	2000	2.7	0.068	2.5%				11	1.8	16%	-32	-0.36	1.4%	-21	1.4	-18	1.5	14	1.9	14%
Suite PCBs	1999	59	1.9	3.2%				440	62	14%	-490	-5.8	1.2%	-50	56	9	58	500	64	13%
	2000	49	1.1	2.2%				320	36	11%	-570	-6.9	1.2%	-250	29	-140	30	370	37	10%
Phenanthrene	1999	230	91	40%	140	25	18%	6100	3800	62%						6500	3900	6500	3900	60%
	2000	270	27	10%	190	19	10%	6900	2800	40%						6400	2800	7400	2800	38%
Pyrene	1999	190	66	35%	150	35	23%	440	460	105%						740	560	780	560	72%
	2000	190	21	11%	170	31	18%	530	360	68%						820	410	890	410	46%
B(b+k)F	1999	300	70	23%	240	47	20%	4.6	25	540%						570	140	550	140	26%
	2000	300	28	9.3%	330	39	12%	0	16							630	82	630	82	13%
B(a)P	1999	100	38	38%	55	17	31%	0	3.4							170	58	160	58	36%
	2000	87	11	13%	74	14	19%	0	2.8							160	28	160	28	18%
Indeno	1999	160	35	22%	95	24	25%	0	4.1							270	63	270	63	23%
	2000	130	10	7.7%	140	19	14%	0	3.1							270	32	270	32	12%

4.6 Blank Loadings

The IADN data are not blank corrected. Therefore it is important to present loadings estimates obtained from blank values to understand the proportion of calculated deposition due to blanks. For IADN, MSC air field blanks are obtained by sending a sampling medium to the field and retrieving it with only a short period of exposure to ambient air (without pumping air through). IU blank cartridges are installed in the sampler, kept there for one week, and then returned to the laboratory. The results are representative of analytical blanks and potential interferences from the sampling media. Precipitation blanks for the US samples are XAD cartridges sent out to the field, installed in the sampler, kept there for 28 days, and then shipped back to the laboratory for extraction. Water concentration blanks are prepared by placing a clean filter in the sampling device, wetting with organic free water then shipping for chemical analysis.

Results are presented in Table 6 for Lake Superior and Ontario to represent the different laboratories involved in the program. For pesticides such as HCHs, the blank loadings are small compared to the sample values from less than 1% to about 5%. Dieldrin blanks are a little more prominent with the blank loadings representing 5-10%, 3% and 8% of the wet deposition, absorption and volatilization respectively. HCB blank loadings are larger particularly for wet deposition (13-17%) and volatilization (26%). Cis- and trans-chlordane have blank loadings of the order of 10-30% for wet deposition with smaller blank loadings for absorption. DDT and metabolites can have large blank loadings, particularly for wet deposition, due to the small concentrations now measured for these species. PCBs blanks contribute between 10 and 35% of loadings for all terms. For the heavier PAHs mostly found on particles, blank loadings for absorption are very large compared to what is found in air while lighter PAHs mostly found in the gas phase have large dry deposition blanks relative to dry loadings.

Table 6. Annual blank loadings calculated for Lakes Superior and Ontario compared to annual loadings.

		SUPERIOR (kg/Year)					SUPERIOR BLANK LOADING (kg/Year)					ONTARIO (kg/Year)					ONTARIO BLANK LOADING (kg/Year)				
		DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
α HCH	1999		45	870	-2000	-1200		0.091	2.2	0	2.2		11	54	-140	-83			0.48	0	0.48
	2000		42	750	-1900	-1200		0.070	1.9	0	1.9		11	47	-140	-110			0.25	0	0.25
γ HCH	1999		63	330	-240	81		0.21	1.1	-5.7	-4.6		24	41	-37	4.1			0.37	-1.7	-1.3
	2000		42	250	-220	30		0.092	0.94	-5.4	-4.5		24	45	-37	3.7			1.4	-1.7	-0.26
Dieldrin	1999		22	90	-690	-600		2.4	2.2	-53	-51		6	28	-190	-160			0.43	-15	-14
	2000		9.3	54	-660	-600		0.38	1.4	-50	-49		6.8	17	-190	-200			0.18	-15	-15
HCB	1999		1.3	260	-230	33		0.17	0.86	-59	-58		0.9		-69					-13	
	2000		0.99	220	-210	8.7		0.17	0.93	-54	-53		1.5		-76					-14	
cis_chlor	1999		5.4	14				0.58	2.6				0.42	3.7					0.033		
	2000		3.6	13				1.1	1.7				5.4	2.3					0.031		
trans_chlor	1999		0.87	8.4				0.17	0.36				0.11	2.8					0.029		
	2000		0.87	5.7				0.25	0.78				2.8	1.6					0.028		
p,p'-DDD	1999		0.15	16				0.42	3.0				0.35	0.9					0.15		
	2000		0	7.5				0.37	2.1				0.9	0.76					0.19		
p,p'-DDE	1999		2.9	8.4				0.16	0.27				1.7	7.6					0.046		
	2000		0.57	4.5				0.077	0.20				3.9	5.7					0.050		
p,p'-DDT	1999		1.6	30				1.8	7.9				1.0	6.2					0.35		
	2000		2.0	17				1.0	9.4				7.6	3.8					0.25		
PCB 018	1999		3.9	36	-36	-1.3		0.61	1.6	-13	-11			12	-21	-9.0			2.2	-4.6	-2.4
	2000		2.8	36	-36	0.87		0.54	1.5	-12	-11			8.3	-23	-15			1.6	-4.9	-3.3
PCB 044	1999		3.6	23	-33	-8.4		2.1	4.3	-11	-6.9			4.0	-19	-15			0.26	-4.2	-3.9
	2000		2.8	33	-30	3.9		1.3	5.3	-11	-5.2			3.1	-20	-17			0.18	-4.4	-4.3
PCB 052	1999		3.9	33	-16	17		1.9	5.8	-5.6	0.18			6.6	-11	-4.8			0.48	-2.5	-2.0
	2000		4.5	33	-15	17		2.3	4.0	-5.3	-1.2			4.5	-12	-7.6			0.33	-2.7	-2.3
PCB 101	1999		5.1	17	-3.6	14		1.4	3.8	-1.3	2.5			2.6	-6.7	-4.1			0.23	-1.5	-1.3
	2000		3.9	15	-3.3	11		1.8	4.1	-1.2	2.9			1.7	-6.9	-5.5			0.085	-1.6	-1.5
SUITE PCB	1999		100	480	-750	-260		25	57	-270	-210			57	-300	-240			9.4	-66	-57
	2000		69	570	-720	-150		20	53	-250	-200			45	-320	-270			8.3	-70	-62
B[a]pyrene	1999	36	57	0			9.1	3.6	11			56	19	0			0.60		3.8		
	2000	20	48	0			3.3	9.7	1.1			33	43	0			0.63		3.8		
B[b]fluor	1999	160	180	17			35	10	26			180	52	0.53			1.2		6.8		
	2000	100	160	0			9.1	9.8	2.8			100	170	12			1.4		5.7		
B[k]fluor.	1999	45	69	6.3			12	14				53	31	0.37			0.59		4.2		
	2000	25	30	0			3.3	11				28	100	1.7			0.61		3.2		
Phenanth.	1999	110	260	7800			57	28	230			45	260	1500			2.7		49		
	2000	90	280	5700			11	7.8	50			27	560	1500			6.2		53		
Pyrene	1999	99	170	870			49	31	39			97	150	310			1.1		12		
	2000	54	150	360			4.3	8.7	3.7			48	280	280			1.2		11		
Lead	1999											5900	22000				130				
	2000											3700	17000				92				

Acknowledgements

Special thanks to the many people whose work supported the production of the IADN loadings results.

- Site operators on Lake Superior – Donald B. Keith and Patricia Keith (Eagle Harbor), Ron Perala (Brule River), Carl Nielsen (Sibley), Larry Barnett (Turkey Lakes)
- Site operator and coordinator on Lake Michigan – Tom van Zoeren (Sleeping Bear Dunes), Nasrim Khalili (IIT- Chicago)
- Site operators on Lake Huron – Floyd Orford (Burnt Island), Terry Romphf (Grand Bend)
- Site coordinator and operators on Lake Erie – Dr. Kim Irvine (Sturgeon Point), Gary Mouland (Pt Pelee), Tony Bucsis (Rock Point)
- Site operator on Lake Ontario – Darrell Smith (Point Petre)
- Karen Arnold and Matt O'Dell at Indiana University
- Chris Green, Andrew Elford at the Centre for Atmospheric Research Experiments of Environment Canada's Meteorological Service of Canada
- Nick Alexandrou, Ky Su, Richard Park, Kulbir Banwait, Ron Noronna, Cecilia Shin at the Organics Analysis Laboratory of Environment Canada's Meteorological Service of Canada
- Ed Sverko and the staff of the Organic Analysis Laboratory at Environment Canada's National Laboratory for Environmental Testing
- Bruce Harrison and MaryLou Archer at the Ecosystem Health Division of Environment Canada's Ontario Region
- The staff at Philips Analytical
- Peter Fowlie of Cornerstone Science
- The U.S. EPA Great Lakes National Program Office, Serge L'Italien at Environment Canada's Ontario Region Ecosystem Health Division, Derek Muir and Bill Strachan at Environment Canada's National Water Research Institute, and Environment Canada's Meteorological Service of Canada for generous provision of lake water concentration data used in this report

References

Bamford, H.A; Poster, D.L.; Baker, J.E. **1999**, Temperature dependence of the HLC of thirteen PAHs between 4ºC and 31ºC, *Environmental Toxicology and Chemistry*, 18:1905-1912.

Basu, I., Hillery, B. **2000**, *Quality Assurance Project Plan, Revision 3*, Indiana University: Bloomington, Indiana 47405

Basu, I. **2003**, *Collection of Air and Precipitation Samples- Standard Operating Procedure*, Indiana University: Bloomington, IN.

Buehler, S.; Hafner, W.; Basu, I.; Audette, C.V.; Birce, K.A.; Chan, C.H.; Froude, F.; Galarneau, E.; Hulting, M.L.; Jantunen, L.; Neilson, M.; Puckett, K.; Hites, R.A. **2001** Atmospheric Deposition of Toxic Substances to the Great Lakes: IADN Results through 1998, U.S. Environmental Protection Agency and Environment Canada, ISBN:0-662-31219-8, Cabada Catalogue No. En56-156/1998E, EPA Report No. EPA 905-R-01-007.

Chan, C.H.; Williams, D.J.; Neilson, M.; Harrison, B.; Archer, M.A. **2003** Spatial and temporal trends in the concentrations of selected organochlorine pesticides (OCs) and polynuclear aromatic hydrocarbons (PAHs) in Great Lakes basin precipitation, 1986 to 1999. J. *Great Lakes Res.* 29:448-459.

Cotham, W.E.; Bidleman, T.F. **1991**, Estimating the atmospheric deposition of organochlorine contaminants to the Arctic, *Chemosphere*, 22:165-188.

Environment Canada **1994**, *Great Lakes Water Quality Agreement Annex 15, Integrated Atmospheric Deposition Network Sampling Protocol Manual (SPM)*, Report ARD 94-003, Atmospheric Environment Service: 4905 Dufferin Street, Downsview, ON M3H 5T4, Canada.

Fowlie, P. **2001**, *Quality Assurance Report for the Integrated Atmospheric Deposition Network (IADN) July 2000-July 2001*, Cornerstone Science.

Galarneau, E.; Audette, C. V.; Bandemehr, A.; Basu, I.; Bidleman, T. F.; Brice, K. A.; Burniston, D. A.; Chan, C. H.; Froude, F.; Hites, R. A.; Hulting, M. L.; Neilson, M.; Orr, D.; Simcik, M. F.; Strachan, W. M. J.; Hoff, R. M. **2000**, *Atmospheric Deposition of Toxic Substance to the Great Lakes: IADN Results to 1996*, U.S. Environmental Protection Agency and Environment Canada, ISBN: 0-662-29007-0, Canada Catalogue No. En56-156/2000E, EPA Report No. EPA 905-R-00004.

Great Lakes Water Quality Agreement of 1978, Revised. International Joint Commission (1987)

Hafner, W. D.; Hites, R.A. **2003** Potential Sources of Pesticides, PCBs, and PAHs to the atmosphere of the Great Lakes. *Environmental Science and Technology*, 37 : 3764-3773.

Harner, T.; Shoeib, M.; Diamond, M.; Stern, G.; Rosenberg, B. **2004** Using passive air samplers to assess urban-rural trends for persistent organic pollutants (POPs): 1. Polychlorinated biphenyls (PCBs) and organochlorine pesticides (OCPs). Environmental Science and Technology, In review.

Hoff, R.M. **1994**, An Error Budget for the Determination of the Atmospheric Mass Loading of Toxic Chemicals in the Great Lakes, *Journal of Great Lakes Research*, 20:229-239.

Hoff, R.M.; Strachan, W.M.J.; Sweet, C.W.; Chan, C.H.; Shackleton, M.; Bidleman, T.F.; Brice, K.A.; Burniston, D.A.; Cussion, S.; Gatz, D.F.; Harlin, K.; Schroeder, W.H. **1996**, Atmospheric Deposition of Toxic Chemicals to the Great Lakes: A Review of Data Through 1994, *Atmospheric Environment*, 30:3505-3527.

Hillery, B. R.; Simcik, M. F.; Basu, I.; Hoff, R. M.; Strachan, W. M. J.; Burniston, D.; Chan, C. H.; Brice, K. A.; Sweet, C. W.; Hites, R. A. **1998**, Atmospheric deposition of toxic pollutants to the Great Lakes as measured by the Integrated Atmospheric Deposition Network, *Environmental Science and Technology* 32:2216-2221.

Hsu, Y.-K.; Holsen, T.M.; Hopke, P.K. **2003** Locating and Quantifying PCB Sources in Chicago: Receptor Modeling and Field Sampling, *Environmental Science and Technology* 37:681-690.

Huggins D.L. **1996** http://pasture.ecn.purdue.edu/~engelb/abe526/Rain/

Jantunen, L.M.M.; Bidleman, T.F. **2000**, Temperature dependent Henry's law constant for technical toxaphene, *Chemosphere- Global Change Science*, 2:225-231.

Jantunen, L.M.M.; Bidleman T.F. **2004** *Personal communication.*

Li, N.; Wania, F.; Lei, Y.D.; Daly, G.L. **2003** A comprehensive and critical compilation, evaluation, and selection of physical-chemical property data for selected polychlorinated biphenyls. *J. Phys. Chem. Ref. Data*., 32: 1545-1590.

Ma, J.; Daggupaty, S.M.; Harner,T.; Li, Y.F. **2003**; Impacts of lindane usage in the Canadian prairies on the Great Lakes ecosystem - Part 1: Coupled atmospheric transport model and modeled concentrations in air and soil. *Environment Science and Technology*, 37:3774-3781.

Miller, S.M.; Green, M.L.; DePinto, J.V.; Hornbuckle, K.C. **2001**, Results from the Lake Michigan Mass Balance Study: Concentrations and Fluxes of Atmospheric Polychlorinated Biphenyls and trans-Nonachlor, *Environmental Science and Technology*, 35: 278-285.

Neilson, M. **2000**, Development of an IADN "PCB Congener Suite." http://www.msc-smc.ec.gc.ca/iadn/resources/iadn_pcbsuite.pdf

National Oceanic Atmospheric Administration (NOAA) **2000**, Great Lakes Environmental Research Laboratory Data Library. http://www.glerl.noaa.gov/data/data.html

Rice, C.P; Chernyak, S.M.; Hapeman, C.J.; Bilboulian, S. **1997**, Air-water distribution of the endosulfan isomers, Journal of Environmental Quality, 26:1101-1106.

Simcik, M.F.; Zhang, H.; Eisenreich, S.J.; Franz, T.P. **1997**, Urban Contamination of the Chicago/Coastal Lake Michigan Atmosphere by PCBs and PAHs during AEOLOS, *Environmental Science and Technology*, 31: 2141-2147

Sukloff, W.B.; Allan, S.; Ward, K. **1995,** *RDMQ User Manual,* Environment Canada: Toronto, ON.

Suntio, L.R.; Shiu, W.Y.; Mackay, D.; Sieber, J.N.; Glotfelty, D. **1987**, A critical review of Henry's law constants, *Reviews of Environmental Contamination and Toxicology*, 103:1-59.

Tateya, S.; Tanabe, S.; Tatsukawa, R. **1988**, PCBs on the globe: possible trend of future levels in the open ocean, in *Toxic Contamination in Large Lakes, Volume III: Sources, Fate and Controls of Toxic Contaminants*, Schmidtke, N.W., Ed., Lewis Publishers: Chelsea, Michigan.

Taylor, J.K. **1990**, *Statistical techniques for data analysis*, Lewis Publishers: Boca Raton, Florida.

Ten Hulscher, T.E.M.; Van Der Velde, L.E.; Bruggeman, W.A. **1992**, Temperature dependence of HLCs for selected chlorobenzenes, PCBs and PAHs, *Environmental Toxicology and Chemistry*, 11:1595-1603.

Waite, D. T.; Gurprasad, N. P.; Sproull, J. F.; Quiring, D. V.; Kotylak, M. W. **2001**, Atmospheric movements of Lindane (γ-hexachlorocyclohexane) from canola fields planted with treated seeds. *J. Environ. Qual*., 30 : 768-775.

Appendix A.

Annual atmospheric fluxes (ng/m^2/day) for 1992-2000

Table A. Annual Atmospheric Fluxes (ng/m^2/day) for 1992-2000.

	SUPERIOR (ng/m^2/day)					MICHIGAN (ng/m^2/day)					HURON (ng/m^2/day)					ERIE (ng/m^2/day)					ONTARIO (ng/m^2/day)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
α_HCH																									
1992	.	2.5	92	-27	65	.	3.5	85	-56	29	.	6.0	.	.	.	.	4.7	92	-52	40	.	5.6	21	-29	-8
1993	.	1.4	52	-29	23	.	1.5	61	-57	4	.	3.9	19	-52	-33	.	2.7	82	-53	29	.	5.0	21	-30	-9
1994	.	1.5	67	-44	23	.	3.6	59	-66	-7	.	4.2	19	-52	-33	.	2.8	82	-52	30	.	4.3	23	-30	-7
1995	.	1.4	46	-60	-14	.	2.5	39	-10	29	.	11	16	-22	-6	.	2.0	50	-29	21	.	8.1	18	-21	-3
1996	.	1.8	37	-50	-13	.	0.38	31	-8.5	23	.	7.9	13	-17	-4	.	1.7	35	-26	9	.	7.9	15	-18	-3
1997	.	1.3	31	-58	-27	.	1.5	33	-14	19	.	3.2	12	-17	-5	.	0.67	31	-17	14	.	4.3	12	-18	-6
1998	.	0.29	35	-77	-42	.	0.69	31	-17	14	.	1.8	10	-19	-9	.	0.36	34	-18	16	.	4.7	9.2	-19	-9.8
1999	.	1.5	29	-68	-39	.	0.68	20	-16	4	.	1.3	7.2	-19	-12	.	0.75	23	-18	5	.	1.6	7.8	-20	-12
2000	.	1.4	25	-65	-40	.	1.7	22	-17	5	.	1.2	6.4	-18	-12	.	2.2	20	-17	3	.	1.6	6.8	-20	-13
γ_HCH																									
1992	.	1.5	14	-5.4	8.6	.	4.2	65	-6.3	59	.	4.6	.	.	.	.	4.1	24	-9.3	15	.	4.5	6.1	-6.2	-0.1
1993	.	0.53	6.9	-5.8	1.1	.	4.5	19	-6.4	13	.	4.2	4.5	-7.0	-2.5	.	2.0	21	-9.5	12	.	3.3	6.4	-6.0	0.4
1994	.	0.90	9.7	-8.4	1.3	.	1.9	35	-7.3	28	.	4.2	5.9	-7.0	-1.1	.	2.2	22	-11	11	.	5.2	7.8	-4.7	3.1
1995	.	0.77	6.6	-5.6	1.0	.	1.1	15	-1.5	14	.	5.5	4.0	-2.4	1.6	.	1.5	12	-4.8	7.2	.	3.3	5.4	-3.9	1.5
1996	.	0.94	6.8	-4.8	2.0	.	0.18	9.3	-1.3	8.0	.	4.7	3.6	-2.0	1.6	.	0.36	13	-4.4	8.6	.	3.7	5.5	-3.4	2.1
1997	.	1.2	8.6	-6.7	1.9	.	1.7	18	-2.2	16	.	5.6	4.8	-1.7	3.1	.	0.71	14	-6.7	7.3	.	8.3	5.1	-4.8	0.3
1998	.	0.37	6.6	-8.7	-2.1	.	0.58	15	-2.6	12	.	6.6	3.8	-1.9	1.9	.	0.13	13	-7.0	6	.	8.6	5.5	-5.2	0.3
1999	.	2.1	11	-7.9	3.1	.	0.79	21	-2.5	19	.	2.4	4.9	-1.9	3.0	.	1.0	13	-7.1	5.9	.	3.5	5.9	-5.3	0.6
2000	.	1.4	8.5	-7.5	1.0	.	2.3	11	-2.7	8.0	.	2.7	3.4	-1.9	1.5	.	2.7	14	-6.8	7.2	.	3.5	6.5	-5.3	1.2
Dieldrin																									
1992	.	1.6	4.9	-31	-26	.	2.7	8.9	0	8.9	.	0.94	.	.	.	.	2.9	8.9	-83	-74	.	1.3	4.0	-55	-51
1993	.	1.2	3.5	-34	-30	.	2.2	9.1	0	9.1	.	0.98	4.0	-57	-53	.	2.4	12	-84	-72	.	0.92	6.3	-30	-24
1994	.	0.57	4.0	-46	-42	.	2.1	9.2	0	9.2	.	0.75	3.5	-56	-53	.	0.78	11	-82	-71	.	0.57	6.2	-38	-32
1995	.	1.2	2.7	-18	-15	.	2.1	7.1	-29	-22	.	0.85	2.0	0	2.0	.	1.6	7.0	-36	-29	.	0.71	3.7	-49	-45
1996	.	0.69	2.8	-15	-12	.	1.2	4.2	-25	-21	.	2.1	2.1	0	2.1	.	2.0	4.9	-33	-28	.	1.6	2.7	-43	-40
1997	.	0.57	2.6	-20	-17	.	1.0	5.9	0	5.9	.	1.3	2.9	0	2.9	.	1.0	8.1	-34	-26	.	0.97	3.5	-25	-22
1998	.	0.51	1.9	-25	-23	.	1.3	3.7	0	3.7	.	0.75	2.2	0	2.2	.	0.62	7.5	-34	-27	.	1.1	2.8	-26	-23
1999	.	0.73	3.0	-23	-20	.	0.94	9.7	0	9.7	.	0.54	3.4	0	3.4	.	0.59	5.2	-35	-30	.	0.86	4.0	-27	-23
2000	.	0.31	1.8	-22	-20	.	0.9	4.8	0	4.8	.	0.72	3.0	0	3.0	.	0.96	5.8	-34	-28	.	0.98	2.4	-28	-26
hexachlorobenze																									
1992	.	0.21	12	.	.	.	0.097	10	.	.	.	0	.	.	.	.	0.19	8.4	.	.	.	0	.	.	.
1993	.	0.15	8.9	-7.6	1.3	.	0.12	9.2	-11	-1.8	.	0.21	.	-5.2	.	.	0.069	11	-13	-2.6	.	0.14	.	-36	.
1994	.	0.054	7.4	-8.1	-0.7	.	0.049	6.5	-11	-4.5	.	0.046	.	-5.1	.	.	0.035	8.9	-13	-4.1	.	0.057	.	-38	.
1995	.	0.052	7.6	-5.9	1.7	.	0.054	7.0	-5.8	1.2	.	0.17	.	-8.3	.	.	0.078	8.6	-10	-1.9	.	0.17	.	-12	.
1996	.	0.045	7.1	-5.3	1.8	.	0.034	6.1	-5.5	0.6	.	0.035	.	-6.6	.	.	0.064	6.6	-10	-3.4	.	0.25	.	-11	.
1997	.	0.034	6.8	-6.8	0	.	0.030	6.3	-6.8	-0.5	.	0.21	.	-6.0	.	.	0.034	8.5	-12	-3.5	.	0.19	.	-9.6	.
1998	.	0.030	7.9	-7.3	0.6	.	0.033	7.3	-6.7	0.6	.	0.052	.	-5.9	.	.	0.060	7.7	-11	-3.3	.	0.068	.	-8.9	.
1999	.	0.045	8.8	-7.7	1.1	.	0.038	5.9	-7.2	-1.3	.	0.20	.	-6.3	.	.	0.044	8.1	-12	-3.9	.	0.13	.	-10	.
2000	.	0.033	7.3	-7.1	0.2	.	0.042	6.8	-8.4	-1.6	.	0.10	.	-6.3	.	.	0.058	7.8	-11	-3.2	.	0.22	.	-11	.
cis_chlordane																									
1992	.	0.16	.	.	.	.	0.054	.	.	.	.	0.016	.	.	.	.	0.039	.	.	.	.	0.0070	0.48	.	.
1993	.	0.22	.	.	.	.	0.13	.	.	.	.	0.0060	0.36	.	.	.	0.20	.	.	.	.	0.047	0.54	.	.
1994	.	0.12	0.78	.	.	.	0.82	1.1	.	.	.	0	0.31	.	.	.	0.39	1.9	.	.	.	0	0.65	.	.
1995	.	0.16	0.56	.	.	.	0.38	0.78	.	.	.	0.071	0.20	.	.	.	1.0	1.6	.	.	.	0.72	0.45	.	.
1996	.	0.10	0.43	.	.	.	0.10	0.57	.	.	.	0.041	0.22	.	.	.	0.33	0.84	.	.	.	1.9	0.38	.	.
1997	.	0.16	0.43	.	.	.	0.38	0.71	.	.	.	0.087	0.23	.	.	.	1.4	1.4	.	.	.	0.047	0.38	.	.
1998	.	0.13	0.32	.	.	.	0.51	0.49	.	.	.	0.019	0.21	.	.	.	0.67	1.2	.	.	.	0.13	0.29	.	.
1999	.	0.18	0.48	.	.	.	0.31	0.84	.	.	.	0.020	0.32	.	.	.	0.97	1.2	.	.	.	0.061	0.54	.	.
2000	.	0.12	0.42	.	.	.	0.34	0.68	.	.	.	0.025	0.24	.	.	.	1.9	1.2	.	.	.	0.78	0.33	.	.

	SUPERIOR (ng/m²/day)					MICHIGAN (ng/m²/day)					HURON (ng/m²/day)					ERIE (ng/m²/day)					ONTARIO (ng/m²/day)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
trans_chlordane																									
1992	.	0.050	.	.	.	.	0.14	.	.	.	.	0.071	.	.	.	.	0.035	.	.	.	.	0.072	0.41	.	.
1993	.	2.0	.	.	.	.	2.4	.	.	.	.	0	0.30	.	.	.	7.4	.	.	.	.	0.036	0.51	.	.
1994	.	0.70	0.43	.	.	.	2.5	1.0	.	.	.	0.092	0.26	.	.	.	2.7	1.7	.	.	.	0.070	0.57	.	.
1995	.	0.23	0.75	.	.	.	0.15	0.57	.	.	.	0.0070	0.15	.	.	.	1.9	1.3	.	.	.	0	0.40	.	.
1996	.	0.34	0.34	.	.	.	0.30	0.48	.	.	.	0.083	0.18	.	.	.	3.3	0.62	.	.	.	0.037	0.30	.	.
1997	.	0.02	0.46	.	.	.	0.045	0.56	.	.	.	0.18	0.18	.	.	.	0.074	1.2	.	.	.	0.14	0.35	.	.
1998	.	0.034	0.22	.	.	.	0.046	0.33	.	.	.	0.092	0.15	.	.	.	0.037	1.1	.	.	.	0.042	0.22	.	.
1999	.	0.029	0.28	.	.	.	0.042	0.70	.	.	.	0.037	0.22	.	.	.	0.075	0.97	.	.	.	0.016	0.40	.	.
2000	.	0.029	0.19	.	.	.	0.041	0.39	.	.	.	0.70	0.20	.	.	.	0.076	0.77	.	.	.	0.41	0.23	.	.
p'p'-DDD																									
1992	.	0.029	0.42	.	.	.	0.11	1.1	.	.	.	0.12	.	.	.	.	0.26	2.9	.	.	.	0.049	0.17	.	.
1993	.	0.21	0.11	.	.	.	0.049	0.85	.	.	.	0.030	0.068	.	.	.	0.036	1.7	.	.	.	0.093	0.20	.	.
1994	.	0.42	0.34	.	.	.	0.69	0.38	.	.	.	0	0.099	.	.	.	0.12	0.65	.	.	.	0	0.24	.	.
1995	.	0.076	0.23	.	.	.	0.050	0.14	.	.	.	0.0030	0.043	.	.	.	0.19	2.0	.	.	.	0.053	0.12	.	.
1996	.	0.017	0.38	.	.	.	0.052	0.57	.	.	.	0.12	0.051	.	.	.	1.0	0.86	.	.	.	0.026	0.12	.	.
1997	.	0.0010	0.31	.	.	.	0.0070	0.33	.	.	.	1.0	0.068	.	.	.	0.082	0.66	.	.	.	0.19	0.13	.	.
1998	.	0.028	0.27	.	.	.	0.088	0.43	.	.	.	0.040	0.057	.	.	.	0.22	0.93	.	.	.	0.090	0.10	.	.
1999	.	0.0050	0.53	.	.	.	0.037	1.2	.	.	.	0.018	0.042	.	.	.	0	3.0	.	.	.	0.050	0.13	.	.
2000	.	0	0.25	.	.	.	0.026	0.35	.	.	.	0.021	0.046	.	.	.	0.012	0.34	.	.	.	0.13	0.11	.	.
p'p'-DDE																									
1992	.	0.15	0.37	.	.	.	0.20	1.1	.	.	.	0.37	.	.	.	.	0.51	2.1	.	.	.	0.63	1.3	.	.
1993	.	0.16	0.41	.	.	.	0.35	1.7	.	.	.	0.28	0.40	.	.	.	0.35	3.0	.	.	.	0.93	1.5	.	.
1994	.	0.14	0.26	.	.	.	0.20	0.68	.	.	.	0.067	0.34	.	.	.	0.33	1.8	.	.	.	0.45	2.1	.	.
1995	.	0.13	0.24	.	.	.	0.30	0.79	.	.	.	0.42	0.29	.	.	.	0.86	2.0	.	.	.	1.1	1.3	.	.
1996	.	0.057	0.21	.	.	.	0.13	0.65	.	.	.	0.25	0.24	.	.	.	0.37	1.5	.	.	.	1.3	0.96	.	.
1997	.	0.062	0.38	.	.	.	0.12	0.83	.	.	.	0.92	0.18	.	.	.	0.22	1.9	.	.	.	2.3	1.0	.	.
1998	.	0.088	0.18	.	.	.	0.10	0.55	.	.	.	0.19	0.19	.	.	.	0.13	1.4	.	.	.	0.81	0.76	.	.
1999	.	0.096	0.28	.	.	.	0.25	0.94	.	.	.	0.14	0.24	.	.	.	0.25	1.7	.	.	.	0.25	1.1	.	.
2000	.	0.019	0.15	.	.	.	0.063	0.65	.	.	.	0.17	0.22	.	.	.	0.16	1.8	.	.	.	0.56	0.82	.	.
p'p'-DDT																									
1992	.	1.1	1.1	.	.	.	1.5	2.8	.	.	.	1.5	.	.	.	.	3.7	4.2	.	.	.	0.74	1.1	.	.
1993	.	11	0.67	.	.	.	2.3	3.2	.	.	.	0	0.37	.	.	.	6.7	5.4	.	.	.	0.28	1.2	.	.
1994	.	1.8	0.15	.	.	.	2.4	0.52	.	.	.	0	0.35	.	.	.	1.3	2.3	.	.	.	0.19	1.8	.	.
1995	.	0.18	0.79	.	.	.	0.32	0.86	.	.	.	0.22	0.26	.	.	.	2.6	3.4	.	.	.	0.76	1.1	.	.
1996	.	0.063	0.80	.	.	.	0.25	1.1	.	.	.	0.68	0.21	.	.	.	0.67	4.3	.	.	.	0.50	1.4	.	.
1997	.	0.073	0.45	.	.	.	0.25	1.1	.	.	.	1.7	0.22	.	.	.	0.29	2.7	.	.	.	2.5	0.84	.	.
1998	.	0.12	0.52	.	.	.	0.13	1.4	.	.	.	0.0020	0.12	.	.	.	0.13	2.6	.	.	.	0.17	0.62	.	.
1999	.	0.054	1.0	.	.	.	0.20	2.3	.	.	.	0.059	0.29	.	.	.	0.25	3.3	.	.	.	0.15	0.90	.	.
2000	.	0.066	0.57	.	.	.	0.21	0.95	.	.	.	0.22	0.19	.	.	.	0.38	2.5	.	.	.	1.1	0.55	.	.
trans_nonachlor																									
1992	.	0.058	0.29	.	.	.	0.028	0.50	.	.	.	0	.	.	.	.	0.018	1.2	.	.	.	0	0.48	.	.
1993	.	0.084	0.26	.	.	.	0.26	0.71	.	.	.	0	0.38	.	.	.	0.032	1.4	.	.	.	0	0.60	.	.
1994	.	0.11	0.33	.	.	.	0.029	0.61	.	.	.	0	0.36	.	.	.	0.14	1.1	.	.	.	0	0.69	.	.
1995	.	0.30	0.26	.	.	.	0.037	0.42	.	.	.	0	0.20	.	.	.	0.063	0.83	.	.	.	0	0.50	.	.
1996	.	0.072	0.27	.	.	.	0.025	0.33	.	.	.	0	0.20	.	.	.	0.038	0.52	.	.	.	0	0.31	.	.
1997	.	0.028	0.24	.	.	.	0.027	0.43	.	.	.	0	0.23	.	.	.	0.046	0.80	.	.	.	0	0.35	.	.
1998	.	0.026	0.29	.	.	.	0.036	0.39	.	.	.	0.014	0.19	.	.	.	0.032	0.69	.	.	.	0.039	0.24	.	.
1999	.	0.026	0.42	.	.	.	0.045	0.78	.	.	.	0.035	0.27	.	.	.	0.024	0.84	.	.	.	0.13	0.45	.	.
2000	.	0.013	0.20	.	.	.	0.034	0.53	.	.	.	0.036	0.22	.	.	.	0.065	0.78	.	.	.	0.044	0.22	.	.

	SUPERIOR (ng/m²/day)					MICHIGAN (ng/m²/day)					HURON (ng/m²/day)					ERIE (ng/m²/day)					ONTARIO (ng/m²/day)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
α_endosulfan																									
1992	.	0	.	.	.	.	0	.	.	.	.	3.2	.	.	.	.	0	.	.	.	.	12	21	.	.
1993	.	0	.	.	.	.	0	.	.	.	.	2.4	3.4	.	.	.	0	.	.	.	.	4.3	18	.	.
1994	.	0.20	.	.	.	.	2.7	.	.	.	.	2.8	6.3	.	.	.	0.35	.	.	.	.	22	54	.	.
1995	.	2.3	4.2	.	.	.	0.55	15	.	.	.	2.3	2.3	.	.	.	1.6	20	.	.	.	3.5	9.3	.	.
1996	.	0.91	4.0	.	.	.	0.34	10	.	.	.	1.5	1.3	.	.	.	1.2	11	.	.	.	2.8	7.2	.	.
1997	.	0.66	4.4	.	.	.	0.73	21	.	.	.	1.2	3.3	.	.	.	0.52	22	.	.	.	1.7	10	.	.
1998	.	0.26	4.0	.	.	.	0.43	22	.	.	.	1.4	2.8	.	.	.	0.14	19	.	.	.	5.5	12	.	.
1999	.	0.84	6.6	.	.	.	0.75	16	.	.	.	1.2	5.6	.	.	.	0.99	16	.	.	.	4.2	20	.	.
2000	.	0.52	1.8	.	.	.	1.2	7.6	.	.	.	1.1	1.6	.	.	.	2.4	15	.	.	.	3.2	17	.	.
PCB 018																									
1992	.	0.089	0.86	-5.7	-4.8	.	0.049	1.7	-9.7	-8.0	.	.	.	.	.	.	0.057	3.1	-7.1	-4.0	.	.	1.9	-4.1	-2.2
1993	.	0.059	1.4	-6.0	-4.6	.	0.034	1.7	-10	-8.3	.	0.22	1.4	-2.8	-1.4	.	0.038	3.8	-7.2	-3.4	.	0	2.1	-4.2	-2.1
1994	.	0.063	0.79	-6.7	-5.9	.	0.073	1.2	-9.9	-8.7	.	0.57	1.1	-2.8	-1.6	.	0.049	2.3	-7.1	-4.8	.	0.22	2.2	-4.3	-2.1
1995	.	0.099	0.59	-1.8	-1.2	.	0.096	0.81	-3.8	-2.9	.	0	1.8	-2.5	-0.7	.	0.14	1.9	-8.7	-6.8	.	0.17	2.0	-4.6	-2.6
1996	.	0.15	0.59	-1.6	-1.0	.	0.069	0.67	-3.5	-2.8	.	.	1.4	-2.0	-0.6	.	0.089	0.86	-8.2	-7.3	.	0.18	1.9	-4.2	-2.3
1997	.	0.090	0.49	-1.1	-0.61	.	0.044	0.78	-1.6	-0.80	.	.	1.4	-1.1	0.23	.	0.038	2.2	-6.1	-3.9	.	.	2.0	-3.0	-1.0
1998	.	0.056	0.46	-1.2	-0.74	.	0.056	1.1	-1.6	-0.5	.	.	1.0	-1.1	-0.1	.	0.029	2.0	-5.6	-3.6	.	.	1.3	-2.9	-1.6
1999	.	0.13	1.2	-1.2	0	.	0.093	1.3	-1.7	-0.4	.	.	1.2	-1.2	0	.	0.050	2.0	-6.1	-4.1	.	.	1.8	-3.1	-1.3
2000	.	0.093	1.2	-1.2	0	.	0.086	0.85	-1.9	-1.1	.	.	0.87	-1.2	-0.33	.	0.071	1.4	-5.9	-4.5	.	.	1.2	-3.3	-2.1
PCB 044																									
1992	.	0.030	0.69	-1.8	-1.1	.	0.038	2.9	-7.0	-4.1	.	.	.	.	.	.	0.080	2.4	-3.7	-1.3	.	.	0.60	-3.6	-3.0
1993	.	0.012	2.3	-1.9	0.4	.	0.028	3.0	-7.2	-4.2	.	0.51	0.29	-0.98	-0.69	.	0.046	4.3	-3.8	0.5	.	0.57	0.75	-3.7	-2.9
1994	.	0.062	2.3	-2.1	0.2	.	0.22	0.90	-7.1	-6.2	.	1.0	0.25	-0.97	-0.72	.	0.12	3.3	-3.7	-0.4	.	0.52	0.79	-3.8	-3.0
1995	.	0.11	1.3	-2.1	-0.8	.	0.068	1.1	-3.3	-2.2	.	0	0.23	-1.6	-1.4	.	0.11	3.4	-6.3	-2.9	.	0.35	0.51	-4.6	-4.1
1996	.	0.094	0.43	-1.8	-1.4	.	0.041	0.62	-3.0	-2.4	.	.	0.22	-1.3	-1.1	.	0.070	1.4	-5.9	-4.5	.	0.34	0.42	-4.2	-3.8
1997	.	0.076	0.68	-0.93	-0.25	.	0.059	0.53	-1.8	-1.3	.	.	0.25	-0.98	-0.73	.	0.041	4.2	-5.3	-1.1	.	.	0.58	-2.6	-2.0
1998	.	0.28	0.51	-1.1	-0.59	.	0.10	0.70	-1.9	-1.2	.	.	0.20	-1.0	-0.80	.	0.12	2.3	-4.9	-2.6	.	.	0.39	-2.5	-2.1
1999	.	0.12	0.76	-1.1	-0.34	.	0.16	1.0	-2.0	-1.0	.	.	0.33	-1.0	-0.67	.	0.10	2.0	-5.3	-3.3	.	.	0.58	-2.7	-2.2
2000	.	0.093	1.1	-1.0	0.1	.	0.080	0.82	-2.3	-1.5	.	.	0.25	-1.0	-0.75	.	0.17	1.9	-5.1	-3.2	.	.	0.45	-2.9	-2.4
PCB 052																									
1992	.	0.028	0.85	-1.8	-0.95	.	0.046	2.2	-9.0	-6.8	.	.	.	.	.	.	0.082	3.5	-5.0	-1.5	.	.	1.2	-4.6	-3.4
1993	.	0.010	2.2	-1.9	0.3	.	0.035	2.0	-9.2	-7.2	.	1.0	0.51	-0.98	-0.47	.	0.039	4.4	-5.0	-0.6	.	1.1	1.3	-4.7	-3.4
1994	.	0.095	2.4	-2.1	0.3	.	0.11	1.1	-9.2	-8.1	.	1.9	0.40	-0.97	-0.57	.	0.11	2.8	-5.0	-2.2	.	0.93	1.2	-4.8	-3.6
1995	.	0.16	1.3	-2.6	-1.3	.	0.11	0.95	-0.55	0.40	.	0	0.32	-1.1	-0.78	.	0.19	2.6	-5.7	-3.1	.	0.58	0.83	-3.5	-2.7
1996	.	0.14	0.69	-2.3	-1.6	.	0.091	0.72	-0.50	0.22	.	.	0.36	-0.86	-0.50	.	0.17	1.4	-5.3	-3.9	.	0.63	0.79	-3.1	-2.3
1997	.	0.057	0.59	-0.47	0.12	.	0.076	0.76	-0.46	0.30	.	.	0.46	-0.49	-0.03	.	0.065	2.5	-6.0	-3.5	.	.	1.0	-1.6	-0.6
1998	.	0.069	0.55	-0.53	0.02	.	0.082	0.97	-0.47	0.50	.	.	0.37	-0.50	-0.13	.	0.071	2.3	-5.5	-3.2	.	.	0.70	-1.5	-0.8
1999	.	0.13	1.1	-0.53	0.57	.	0.15	1.2	-0.49	0.71	.	.	0.51	-0.52	-0.01	.	0.12	2.7	-6.0	-3.3	.	.	0.96	-1.6	-0.64
2000	.	0.15	1.1	-0.50	0.6	.	0.17	0.90	-0.57	0.33	.	.	0.38	-0.52	-0.14	.	0.16	2.2	-5.8	-3.6	.	.	0.65	-1.7	-1.1
PCB 101																									
1992	.	0.064	0.54	-3.4	-2.9	.	0.042	1.6	-4.0	-2.4	.	.	.	.	.	.	0.074	3.6	-2.2	1.4	.	.	0.72	-0.91	-0.19
1993	.	0.031	1.2	-3.6	-2.4	.	0.022	1.6	-4.1	-2.5	.	0.62	0.28	0	0.28	.	0.053	3.0	-2.2	0.8	.	0.64	0.72	-0.93	-0.21
1994	.	0.066	2.4	-4.2	-1.8	.	0.069	0.66	-4.1	-3.4	.	0.98	0.27	0	0.27	.	0.10	1.5	-2.2	-0.7	.	0.53	0.99	-0.94	0.047
1995	.	0.15	1.1	-1.3	-0.2	.	0.077	0.53	-1.5	-0.97	.	0	0.18	-0.96	-0.78	.	0.14	1.4	-2.8	-1.4	.	0.34	0.43	-1.5	-1.1
1996	.	0.11	0.54	-1.2	-0.66	.	0.052	0.43	-1.3	-0.87	.	.	0.16	-0.75	-0.59	.	0.13	0.78	-2.6	-1.8	.	0.35	0.41	-1.4	-0.99
1997	.	0.096	0.40	-0.10	0.3	.	0.054	0.36	-1.2	-0.84	.	.	0.21	-0.43	-0.22	.	0.067	1.3	-1.8	-0.5	.	.	0.44	-0.92	-0.48
1998	.	0.18	0.36	-0.12	0.24	.	0.070	0.49	-1.3	-0.81	.	.	0.17	-0.45	-0.28	.	0.077	1.3	-1.7	-0.4	.	.	0.33	-0.91	-0.58
1999	.	0.17	0.58	-0.12	0.46	.	0.11	0.65	-1.3	-0.65	.	.	0.17	-0.46	-0.29	.	0.093	1.5	-1.8	-0.3	.	.	0.38	-0.97	-0.59
2000	.	0.13	0.49	-0.11	0.38	.	0.13	0.50	-1.5	-1.0	.	.	0.11	-0.46	-0.35	.	0.13	1.3	-1.7	-0.4	.	.	0.25	-1.0	-0.75

	SUPERIOR (ng/m²/day)					MICHIGAN (ng/m²/day)					HURON (ng/m²/day)					ERIE (ng/m²/day)					ONTARIO (ng/m²/day)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
SUITE PCB																									
1992	.	3.7	14	-81	-67	.	1.6	39	-180	-141	.	.	.	.	.	.	2.1	59	-110	-51	.	.	20	-93	-73
1993	.	2.8	36	-85	-49	.	2.1	39	-190	-151	.	5.9	12	-44	-32	.	1.4	75	-110	-35	.	5.4	21	-95	-74
1994	.	1.5	34	-96	-62	.	3.9	19	-180	-161	.	9.0	13	-44	-31	.	3.8	41	-110	-34	.	5.1	29	-98	-69
1995	.	3.2	18	-37	-19	.	2.1	14	-54	-40	.	0	11	-27	-16	.	3.8	35	-110	-75	.	3.6	15	-57	-42
1996	.	3.1	11	-33	-22	.	1.5	11	-49	-38	.	.	7.6	-22	-14	.	3.1	17	-99	-82	.	3.5	13	-52	-39
1997	.	2.6	9.6	-22	-12	.	1.1	13	-22	-9.0	.	.	6.3	-26	-20	.	1.7	39	-89	-50	.	.	9.8	-41	-31
1998	.	3.6	8.1	-25	-17	.	1.6	18	-22	-4	.	.	4.3	-27	-23	.	1.5	36	-82	-46	.	.	6.7	-40	-33
1999	.	3.5	16	-25	-9	.	2.8	21	-23	-2	.	.	8.1	-28	-20	.	1.7	39	-88	-49	.	.	8.3	-43	-35
2000	.	2.3	19	-24	-5	.	2.3	15	-27	-12	.	.	6.3	-28	-22	.	2.2	28	-86	-58	.	.	6.5	-46	-40
benzo[a]pyrene																									
1992	1.2	8.5	0	.	.	4.6	9.1	1.6	.	.	4.4	0	.	.	.	7.4	21	2.7	.	.	11	0	.	.	.
1993	0	2.6	0	.	.	1.5	5.3	0	.	.	4.9	4.6	.	.	.	5.8	10	0.24	.	.	12	2.1	.	.	.
1994	1.2	1.1	0	.	.	2.7	3.0	0	.	.	2.6	0	.	.	.	10	8.2	0	.	.	6.9	0.26	.	.	.
1995	0.42	2.6	1.6	.	.	1.9	5.5	0.036	.	.	2.1	1.4	.	.	.	12	17	2.7	.	.	5.9	1.6	.	.	.
1996	1.2	1.3	0.021	.	.	1.9	3.5	0.83	.	.	4.5	1.6	.	.	.	13	8.3	0.083	.	.	9.4	7.1	.	.	.
1997	1.2	2.4	0.053	.	.	2.3	5.6	0.71	.	.	3.9	6.8	0	.	.	11	13	0.27	.	.	8.6	7.2	0	.	.
1998	0.94	2.6	0.021	.	.	2.6	3.9	0.38	.	.	2.8	1.6	0	.	.	11	7.8	0.17	.	.	9.0	19	0.20	.	.
1999	1.2	1.9	0	.	.	2.6	4.9	0	.	.	2.5	2.0	0	.	.	12	8.3	3.4	.	.	8.1	2.7	0	.	.
2000	0.66	1.6	0	.	.	3.5	4.1	0.012	.	.	3.1	4.1	0	.	.	6.9	10	1.4	.	.	4.8	6.2	0	.	.
benzo[b]fluoranthene																									
1992	5.2	15	2.2	.	.	14	16	3.4	.	.	7.9	0	.	.	.	43	41	8.6	.	.	37	1.0	.	.	.
1993	1.1	3.8	0	.	.	5.8	9.5	0	.	.	8.8	6.7	.	.	.	28	20	3.0	.	.	46	28	.	.	.
1994	4.3	2.7	0	.	.	8.3	7.6	0.40	.	.	5.6	1.6	.	.	.	36	17	2.5	.	.	18	4.0	.	.	.
1995	4.0	8.2	3.2	.	.	7.3	13	0.29	.	.	4.0	1.1	.	.	.	48	39	10	.	.	16	6.6	.	.	.
1996	3.3	4.8	0.12	.	.	6.9	7.6	1.8	.	.	7.9	11	.	.	.	33	20	0.30	.	.	29	16	.	.	.
1997	4.3	5.4	0.18	.	.	6.9	11	2.1	.	.	6.8	13	0.32	.	.	32	26	1.2	.	.	24	16	0	.	.
1998	3.8	6.3	0.17	.	.	8.6	9.7	2.8	.	.	6.0	6.0	0.15	.	.	39	20	3.3	.	.	31	93	5.3	.	.
1999	5.2	6.1	0.57	.	.	8.4	10	0.22	.	.	4.0	7.7	0.040	.	.	42	18	13	.	.	26	7.5	0.077	.	.
2000	3.5	5.2	0	.	.	12	11	0.0050	.	.	5.2	11	0	.	.	25	23	5.9	.	.	15	25	1.8	.	.
benzo[k]fluoranthene																									
1992	0.60	7.4	0.42	.	.	14	6.5	2.0	.	.	3.4	0	.	.	.	6.1	16	3.3	.	.	10	0	0	.	.
1993	0.44	1.8	0	.	.	5.8	3.3	0	.	.	3.9	2.0	.	.	.	8.6	7.4	0.43	.	.	12	0	.	.	.
1994	1.7	1.2	0	.	.	8.3	2.7	0	.	.	2.2	1.1	.	.	.	11	6.8	0.71	.	.	4.8	0	.	.	.
1995	1.2	1.7	0.94	.	.	2.3	4.5	0.047	.	.	1.8	1.1	.	.	.	14	10	2.7	.	.	5.6	5.2	.	.	.
1996	1.4	1.6	0.044	.	.	2.2	2.4	0.44	.	.	3.3	8.1	.	.	.	13	6.6	0.086	.	.	9.4	11	.	.	.
1997	1.3	1.9	0.043	.	.	2.0	4.3	0.60	.	.	3.0	9.4	0	.	.	9.4	9.4	0.28	.	.	7.9	8.9	0	.	.
1998	0.83	2.1	0.014	.	.	2.0	2.9	0.38	.	.	2.5	3.7	0	.	.	8.8	5.7	0.075	.	.	9.8	43	1.2	.	.
1999	1.5	2.3	0.21	.	.	2.7	4.2	0	.	.	2.0	4.0	0	.	.	14	7.5	4.1	.	.	7.6	4.5	0.053	.	.
2000	0.85	1.0	0	.	.	3.8	3.1	0.0030	.	.	2.2	8.1	0	.	.	8.1	7.5	1.5	.	.	4.1	15	0.25	.	.
benzo[k]fluoranthene + benzo[b]fluoranthene																									
1992	5.8	23	2.6	.	.	29	22	5.4	.	.	11	0	.	.	.	49	57	12	.	.	47	1.0	.	.	.
1993	1.5	5.6	0	.	.	12	13	0	.	.	13	8.6	.	.	.	36	28	3.4	.	.	58	28	.	.	.
1994	6.0	3.9	0	.	.	17	10	0.40	.	.	7.9	2.7	.	.	.	46	24	3.2	.	.	22	4.0	.	.	.
1995	5.3	10	4.1	.	.	9.6	17	0.34	.	.	5.8	2.2	.	.	.	63	49	13	.	.	22	12	.	.	.
1996	4.7	6.4	0.16	.	.	9.1	9.9	2.2	.	.	11	19	.	.	.	46	26	0.38	.	.	39	27	.	.	.
1997	5.6	7.3	0.22	.	.	8.9	16	2.7	.	.	9.8	22	0.32	.	.	42	35	1.5	.	.	32	25	0	.	.
1998	4.6	8.3	0.18	.	.	11	13	3.2	.	.	8.6	9.7	0.15	.	.	48	26	3.4	.	.	41	140	6.5	.	.
1999	6.6	8.5	0.78	.	.	11	14	0.22	.	.	6.0	12.0	0.04	.	.	56	26	17	.	.	34	12	0.13	.	.
2000	4.3	6.3	0	.	.	16	14	0.0070	.	.	7.4	19	0	.	.	33	31	7.3	.	.	19	40	2.0	.	.

	SUPERIOR (ng/m^2/day)					MICHIGAN (ng/m^2/day)					HURON (ng/m^2/day)					ERIE (ng/m^2/day)					ONTARIO (ng/m^2/day)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
Indeno[1,2,3-cd]Pyrene																									
1992	2.5	7.4	0	.	.	8.5	11	0.56	.	.	8.5	0	.	.	.	18	25	1.9	.	.	16	0	.	.	.
1993	0	2.0	0	.	.	3.3	5.9	0	.	.	8.2	6.2	.	.	.	14	12	0.28	.	.	24	17	.	.	.
1994	2.3	1.0	0	.	.	5.3	4.2	0	.	.	5.9	0	.	.	.	20	7.7	0	.	.	17	0.45	.	.	.
1995	1.1	4.3	0	.	.	3.7	8.4	0.035	.	.	3.8	3.2	.	.	.	24	25	2.2	.	.	13	1.9	.	.	.
1996	2.5	3.4	0.0020	.	.	4.7	4.8	0.32	.	.	8.6	7.2	.	.	.	26	14	0.040	.	.	21	7.8	.	.	.
1997	2.5	4.2	0.075	.	.	4.1	8.5	0.73	.	.	6.5	10	0	.	.	19	17	0.19	.	.	17	9.0	0	.	.
1998	2.0	3.9	0.022	.	.	5.9	5.9	1.0	.	.	5.1	5.9	0	.	.	22	11	0.094	.	.	20	32	0	.	.
1999	2.6	4.0	0	.	.	4.5	7.7	0	.	.	3.4	6.3	0	.	.	22	13	2.6	.	.	14	8.1	0	.	.
2000	1.7	3.0	0	.	.	6.4	6.0	0.0060	.	.	4.1	6.4	0	.	.	13	13	1.5	.	.	12	12	0	.	.
Phenanthrene																									
1992	2.1	9.7	300	.	.	5.9	17	380	.	.	4.6	23	.	.	.	11	40	1600	.	.	6.1	54	190	.	.
1993	0.30	3.6	260	.	.	3.4	6.1	520	.	.	4.6	32	.	.	.	10	25	2100	.	.	6.1	97	.	.	.
1994	8.9	6.1	190	.	.	6.7	7.6	400	.	.	3.7	27	.	.	.	20	19	1600	.	.	8.2	54	.	.	.
1995	1.9	8.6	400	.	.	4.0	14	310	.	.	2.7	17	.	.	.	17	39	2000	.	.	4.1	40	.	.	.
1996	3.1	8.7	250	.	.	4.9	9.0	290	.	.	4.8	20	.	.	.	21	12	990	.	.	10	28	.	.	.
1997	3.1	8.0	200	.	.	4.6	12	320	.	.	6.7	34	99	.	.	17	31	1200	.	.	7.4	70	160	.	.
1998	2.5	6.1	170	.	.	4.5	7.7	230	.	.	3.0	29	76	.	.	15	18	1200	.	.	7.1	140	240	.	.
1999	3.7	8.6	260	.	.	6.4	11	290	.	.	1.5	29	83	.	.	20	25	1200	.	.	6.5	37	210	.	.
2000	3.0	9.4	190	.	.	8.8	13	330	.	.	2.5	34	98	.	.	12	38	1300	.	.	3.9	81	220	.	.
Pyrene																									
1992	4.5	7.6	68	.	.	7.5	13	45	.	.	5.7	0	.	.	.	13	32	260	.	.	11	0	33	.	.
1993	0.59	2.7	24	.	.	4.2	6.7	62	.	.	6.2	0	.	.	.	14	21	260	.	.	9.1	2.1	.	.	.
1994	6.7	4.6	16	.	.	7.2	5.4	35	.	.	3.5	3.0	.	.	.	25	14	140	.	.	7.8	0.88	.	.	.
1995	1.8	6.7	120	.	.	4.6	12	21	.	.	2.8	17	.	.	.	23	31	220	.	.	7.0	22	.	.	.
1996	2.9	4.7	22	.	.	5.1	6.0	21	.	.	5.8	18	.	.	.	28	8.2	110	.	.	13	27	.	.	.
1997	2.6	5.3	14	.	.	4.7	9.1	27	.	.	7.2	27	16	.	.	20	23	110	.	.	10	60	24	.	.
1998	2.5	4.5	16	.	.	5.4	5.9	27	.	.	4.8	16	16	.	.	19	12	110	.	.	13	75	48	.	.
1999	3.3	5.7	29	.	.	6.9	8.8	21	.	.	2.7	14	16	.	.	28	18	97	.	.	14	22	45	.	.
2000	1.8	5.1	12	.	.	8.1	8.8	25	.	.	3.8	17	17	.	.	14	23	120	.	.	6.9	41	40	.	.

	SUPERIOR (ng/m²/day)					MICHIGAN (ng/m²/day)					HURON (ng/m²/day)					ERIE (ng/m²/day)					ONTARIO (ng/m²/day)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
Arsenic																									
1992	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1993	.	.	.	.	.	.	.	.	.	.	.	250	.	.	.	.	.	.	.	.	.	240	.	.	.
1994	.	.	.	.	.	.	.	.	.	.	.	130	.	.	.	.	.	.	.	.	.	210	.	.	.
1995	.	.	.	.	.	.	.	.	.	.	49	150	.	.	.	.	.	.	.	.	49	220	.	.	.
1996	.	.	.	.	.	.	.	.	.	.	170	170	.	.	.	.	.	.	.	.	100	200	.	.	.
1997	.	.	.	.	.	.	.	.	.	.	79	.	.	.	.	.	.	.	.	.	160	.	.	.	.
1998	.	.	.	.	.	.	.	.	.	.	59	.	.	.	.	.	.	.	.	.	110	.	.	.	.
1999	.	.	.	.	.	.	.	.	.	.	73	.	.	.	.	.	.	.	.	.	120	.	.	.	.
2000	.	.	.	.	.	.	.	.	.	.	92	.	.	.	.	.	.	.	.	.	110	.	.	.	.
Cadmium																									
1992	.	.	.	.	.	.	.	.	.	.	31	.	.	.	.	.	.	.	.	.	24	.	.	.	.
1993	.	.	.	.	.	.	.	.	.	.	23	170	.	.	.	.	.	.	.	.	22	150	.	.	.
1994	.	.	.	.	.	.	.	.	.	.	30	110	.	.	.	.	.	.	.	.	36	150	.	.	.
1995	.	.	.	.	.	.	.	.	.	.	12	75	.	.	.	.	.	.	.	.	10	130	.	.	.
1996	.	.	.	.	.	.	.	.	.	.	22	290	.	.	.	.	.	.	.	.	23	110	.	.	.
1997	.	.	.	.	.	.	.	.	.	.	25	180	.	.	.	.	.	.	.	.	28	210	.	.	.
1998	.	.	.	.	.	.	.	.	.	.	14	260	.	.	.	.	.	.	.	.	23	180	.	.	.
1999	.	.	.	.	.	.	.	.	.	.	17	68	.	.	.	.	.	.	.	.	29	130	.	.	.
2000	.	.	.	.	.	.	.	.	.	.	23	140	.	.	.	.	.	.	.	.	26	78	.	.	.
Lead																									
1992	.	.	.	.	.	.	.	.	.	.	560	.	.	.	.	.	.	.	.	.	780	.	.	.	.
1993	.	.	.	.	.	.	.	.	.	.	550	1900	.	.	.	.	.	.	.	.	860	1900	.	.	.
1994	.	.	.	.	.	.	.	.	.	.	950	870	.	.	.	.	.	.	.	.	1100	1900	.	.	.
1995	.	.	.	.	.	.	.	.	.	.	460	860	.	.	.	.	.	.	.	.	570	1900	.	.	.
1996	.	.	.	.	.	.	.	.	.	.	760	2300	.	.	.	.	.	.	.	.	850	2800	.	.	.
1997	.	.	.	.	.	.	.	.	.	.	600	3500	.	.	.	.	.	.	.	.	890	3300	.	.	.
1998	.	.	.	.	.	.	.	.	.	.	330	1300	.	.	.	.	.	.	.	.	670	4000	.	.	.
1999	.	.	.	.	.	.	.	.	.	.	450	1300	.	.	.	.	.	.	.	.	850	3200	.	.	.
2000	.	.	.	.	.	.	.	.	.	.	320	1100	.	.	.	.	.	.	.	.	540	2500	.	.	.
Selenium																									
1992	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1993	.	.	.	.	.	.	.	.	.	.	.	260	.	.	.	.	.	.	.	.	.	350	.	.	.
1994	.	.	.	.	.	.	.	.	.	.	.	160	.	.	.	.	.	.	.	.	.	330	.	.	.
1995	.	.	.	.	.	.	.	.	.	.	10	170	.	.	.	.	.	.	.	.	31	310	.	.	.
1996	.	.	.	.	.	.	.	.	.	.	67	240	.	.	.	.	.	.	.	.	85	740	.	.	.
1997	.	.	.	.	.	.	.	.	.	.	38	.	.	.	.	.	.	.	.	.	120	.	.	.	.
1998	.	.	.	.	.	.	.	.	.	.	35	.	.	.	.	.	.	.	.	.	78	.	.	.	.
1999	.	.	.	.	.	.	.	.	.	.	82	.	.	.	.	.	.	.	.	.	100	.	.	.	.
2000	.	.	.	.	.	.	.	.	.	.	90	.	.	.	.	.	.	.	.	.	89	.	.	.	.

Appendix B.

Annual atmospheric flows (kg/yr) for 1992-2000

Table B. Annual Atmospheric Flows (kg/yr) for 1992-2000.

	SUPERIOR (kg/year)					MICHIGAN (kg/year)					HURON (kg/year)					ERIE (kg/year)					ONTARIO (kg/year)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
α_HCH																									
1992	.	75	2800	-810	2000	.	74	1800	-1200	600	.	130	.	.	.	.	44	860	-490	370	.	39	150	-200	-50
1993	.	42	1600	-870	730	.	32	1300	-1200	100	.	85	410	-1100	-690	.	25	770	-500	270	.	35	150	-210	-60
1994	.	45	2000	-1300	700	.	76	1200	-1400	-200	.	91	410	-1100	-690	.	26	770	-490	280	.	30	160	-210	-50
1995	.	42	1400	-1800	-400	.	53	820	-210	610	.	240	350	-480	-130	.	19	470	-270	200	.	56	120	-150	-30
1996	.	54	1100	-1500	-400	.	8.0	650	-180	470	.	170	280	-370	-90	.	16	330	-240	90	.	55	100	-120	-20
1997	.	39	930	-1700	-770	.	32	700	-300	400	.	70	260	-370	-110	.	6.3	290	-160	130	.	30	83	-120	-37
1998	.	8.7	1000	-2300	-1300	.	15	650	-360	290	.	39	220	-410	-190	.	3.4	320	-170	150	.	33	64	-130	-66
1999	.	45	870	-2000	-1100	.	14	420	-340	80	.	28	160	-410	-250	.	7.0	220	-170	50	.	11	54	-140	-86
2000	.	42	750	-1900	-1200	.	36	460	-360	100	.	26	140	-390	-250	.	21	190	-160	30	.	11	47	-140	-93
γ_HCH										0															
1992	.	45	420	-160	260	.	89	1400	-130	1300	.	100	.	.	.	.	38	230	-87	140	.	31	42	-43	-1
1993	.	16	210	-170	40	.	95	400	-140	260	.	91	98	-150	-52	.	19	200	-89	110	.	23	44	-42	2
1994	.	27	290	-250	40	.	40	740	-150	590	.	91	130	-150	-20	.	21	210	-100	110	.	36	54	-33	21
1995	.	23	200	-170	30	.	23	320	-32	290	.	120	87	-52	35	.	14	110	-45	65	.	23	37	-27	10
1996	.	28	200	-140	60	.	3.8	200	-27	170	.	100	78	-44	34	.	3.4	120	-41	79	.	26	38	-24	14
1997	.	36	260	-200	60	.	36	380	-46	330	.	120	100	-37	63	.	6.7	130	-63	67	.	57	35	-33	2
1998	.	11	200	-260	-60	.	12	320	-55	270	.	140	83	-41	42	.	1.2	120	-66	54	.	60	38	-36	2
1999	.	63	330	-240	90	.	17	440	-53	390	.	52	110	-41	69	.	9.4	120	-67	53	.	24	41	-37	4
2000	.	42	250	-220	30	.	49	230	-57	170	.	59	74	-41	33	.	25	130	-64	66	.	24	45	-37	8
Dieldrin																									
1992	.	48	150	-930	-780	.	57	190	0	190	.	20	.	.	.	.	27	83	-780	-700	.	9.0	28	-380	-350
1993	.	36	100	-1000	-900	.	46	190	0	190	.	21	87	-1200	-1100	.	23	110	-790	-680	.	6.4	44	-210	-170
1994	.	17	120	-1400	-1300	.	44	190	0	190	.	16	76	-1200	-1100	.	7.3	100	-770	-670	.	3.9	43	-260	-220
1995	.	36	81	-540	-460	.	44	150	-610	-460	.	18	44	0	44	.	15	66	-340	-270	.	4.9	26	-340	-310
1996	.	21	84	-450	-370	.	25	89	-530	-440	.	46	46	0	46	.	19	46	-310	-260	.	11	19	-300	-280
1997	.	17	78	-600	-520	.	21	120	0	120	.	28	63	0	63	.	9.4	76	-320	-240	.	6.7	24	-170	-150
1998	.	15	57	-750	-690	.	27	78	0	78	.	16	48	0	48	.	5.8	70	-320	-250	.	7.6	19	-180	-160
1999	.	22	90	-690	-600	.	20	200	0	200	.	12	74	0	74	.	5.5	49	-330	-280	.	6.0	28	-190	-160
2000	.	9.3	54	-660	-610	.	19	100	0	100	.	16	65	0	65	.	9.0	54	-320	-270	.	6.8	17	-190	-170
hexachlorobenze																									
1992	.	6.3	360	.	.	.	2.0	210	.	.	.	0	.	.	.	.	1.8	79	.	.	.	0	.	.	.
1993	.	4.5	270	-230	40	.	2.5	190	-230	-40	.	4.6	.	-110	.	.	0.65	100	-120	-20	.	0.97	.	-250	.
1994	.	1.6	220	-240	-20	.	1.0	140	-230	-90	.	1.0	.	-110	.	.	0.33	83	-120	-37	.	0.39	.	-260	.
1995	.	1.6	230	-180	50	.	1.1	150	-120	30	.	3.7	.	-180	.	.	0.73	81	-94	-13	.	1.2	.	-83	.
1996	.	1.3	210	-160	50	.	0.72	130	-120	10	.	0.76	.	-140	.	.	0.60	62	-94	-32	.	1.7	.	-76	.
1997	.	1.0	200	-200	0	.	0.63	130	-140	-10	.	4.6	.	-130	.	.	0.32	80	-110	-30	.	1.3	.	-66	.
1998	.	0.90	240	-220	20	.	0.70	150	-140	10	.	1.1	.	-130	.	.	0.56	72	-100	-28	.	0.47	.	-62	.
1999	.	1.3	260	-230	30	.	0.80	120	-150	-30	.	4.4	.	-140	.	.	0.41	76	-110	-34	.	0.90	.	-69	.
2000	.	0.99	220	-210	10	.	0.89	140	-180	-40	.	2.2	.	-140	.	.	0.54	73	-100	-27	.	1.5	.	-76	.
cis_chlordane																									
1992	.	4.8	.	.	.	.	1.1	.	.	.	.	0.35	.	.	.	.	0.37	.	.	.	.	0.048	3.3	.	.
1993	.	6.6	.	.	.	.	2.7	.	.	.	.	0.13	7.8	.	.	.	1.9	.	.	.	.	0.33	3.7	.	.
1994	.	3.6	23	.	.	.	17	23	.	.	.	0	6.7	.	.	.	3.7	18	.	.	.	0	4.5	.	.
1995	.	4.8	17	.	.	.	8.0	16	.	.	.	1.5	4.4	.	.	.	9.4	15	.	.	.	5.0	3.1	.	.
1996	.	3.0	13	.	.	.	2.1	12	.	.	.	0.89	4.8	.	.	.	3.1	7.9	.	.	.	13	2.6	.	.
1997	.	4.8	13	.	.	.	8.0	15	.	.	.	1.9	5.0	.	.	.	13	13	.	.	.	0.33	2.6	.	.
1998	.	3.9	9.6	.	.	.	11	10	.	.	.	0.41	4.6	.	.	.	6.3	11	.	.	.	0.90	2.0	.	.
1999	.	5.4	14	.	.	.	6.5	18	.	.	.	0.44	7.0	.	.	.	9.1	11	.	.	.	0.42	3.7	.	.
2000	.	3.6	13	.	.	.	7.2	14	.	.	.	0.54	5.2	.	.	.	18	11	.	.	.	5.4	2.3	.	.

	SUPERIOR (kg/year)					MICHIGAN (kg/year)					HURON (kg/year)					ERIE (kg/year)					ONTARIO (kg/year)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
trans_chlordane																									
1992	.	1.5	.	.	.	.	3.0	.	.	.	.	1.5	.	.	.	.	0.33	.	.	.	.	0.50	2.8	.	.
1993	.	60	.	.	.	.	51	.	.	.	.	0	6.5	.	.	.	69	.	.	.	.	0.25	3.5	.	.
1994	.	21	13	.	.	.	53	21	.	.	.	2.0	5.7	.	.	.	25	16	.	.	.	0.48	3.9	.	.
1995	.	6.9	22	.	.	.	3.2	12	.	.	.	0.15	3.3	.	.	.	18	12	.	.	.	0	2.8	.	.
1996	.	10	10	.	.	.	6.3	10	.	.	.	1.8	3.9	.	.	.	31	5.8	.	.	.	0.26	2.1	.	.
1997	.	0.60	14	.	.	.	0.95	12	.	.	.	3.9	3.9	.	.	.	0.69	11	.	.	.	0.97	2.4	.	.
1998	.	1.0	6.6	.	.	.	0.97	7.0	.	.	.	2.0	3.3	.	.	.	0.35	10	.	.	.	0.29	1.5	.	.
1999	.	0.87	8.4	.	.	.	0.89	15	.	.	.	0.80	4.8	.	.	.	0.70	9.1	.	.	.	0.11	2.8	.	.
2000	.	0.87	5.7	.	.	.	0.86	8.2	.	.	.	15	4.4	.	.	.	0.71	7.2	.	.	.	2.8	1.6	.	.
p'p'-DDD																									
1992	.	0.87	13	.	.	.	2.3	23	.	.	.	2.6	.	.	.	.	2.4	27	.	.	.	0.34	1.2	.	.
1993	.	6.3	3.3	.	.	.	1.0	18	.	.	.	0.65	1.5	.	.	.	0.34	16	.	.	.	0.64	1.4	.	.
1994	.	13	10	.	.	.	15	8.0	.	.	.	0	2.2	.	.	.	1.1	6.1	.	.	.	0	1.7	.	.
1995	.	2.3	6.9	.	.	.	1.1	3.0	.	.	.	0.065	0.94	.	.	.	1.8	19	.	.	.	0.37	0.83	.	.
1996	.	0.51	11	.	.	.	1.1	12	.	.	.	2.6	1.1	.	.	.	9.4	8.1	.	.	.	0.18	0.83	.	.
1997	.	0.030	9.3	.	.	.	0.15	7.0	.	.	.	22	1.5	.	.	.	0.77	6.2	.	.	.	1.3	0.90	.	.
1998	.	0.84	8.1	.	.	.	1.9	9.1	.	.	.	0.87	1.2	.	.	.	2.1	8.7	.	.	.	0.62	0.69	.	.
1999	.	0.15	16	.	.	.	0.78	25	.	.	.	0.39	0.91	.	.	.	0	28	.	.	.	0.35	0.90	.	.
2000	.	0	7.5	.	.	.	0.55	7.4	.	.	.	0.46	1.0	.	.	.	0.11	3.2	.	.	.	0.90	0.76	.	.
p'p'-DDE																									
1992	.	4.5	11	.	.	.	4.2	23	.	.	.	8.0	.	.	.	.	4.8	20	.	.	.	4.4	9.0	.	.
1993	.	4.8	12	.	.	.	7.4	36	.	.	.	6.1	8.7	.	.	.	3.3	28	.	.	.	6.4	10	.	.
1994	.	4.2	7.8	.	.	.	4.2	14	.	.	.	1.5	7.4	.	.	.	3.1	17	.	.	.	3.1	15	.	.
1995	.	3.9	7.2	.	.	.	6.3	17	.	.	.	9.1	6.3	.	.	.	8.1	19	.	.	.	7.6	9.0	.	.
1996	.	1.7	6.3	.	.	.	2.7	14	.	.	.	5.4	5.2	.	.	.	3.5	14	.	.	.	9.0	6.6	.	.
1997	.	1.9	11	.	.	.	2.5	18	.	.	.	20	3.9	.	.	.	2.1	18	.	.	.	16	6.9	.	.
1998	.	2.6	5.4	.	.	.	2.1	12	.	.	.	4.1	4.1	.	.	.	1.2	13	.	.	.	5.6	5.3	.	.
1999	.	2.9	8.4	.	.	.	5.3	20	.	.	.	3.0	5.2	.	.	.	2.3	16	.	.	.	1.7	7.6	.	.
2000	.	0.57	4.5	.	.	.	1.3	14	.	.	.	3.7	4.8	.	.	.	1.5	17	.	.	.	3.9	5.7	.	.
p'p'-DDT																									
1992	.	33	33	.	.	.	32	59	.	.	.	33	.	.	.	.	35	39	.	.	.	5.1	7.6	.	.
1993	.	330	20	.	.	.	49	68	.	.	.	0	8.0	.	.	.	63	51	.	.	.	1.9	8.3	.	.
1994	.	54	4.5	.	.	.	51	11	.	.	.	0	7.6	.	.	.	12	22	.	.	.	1.3	12	.	.
1995	.	5.4	24	.	.	.	6.8	18	.	.	.	4.8	5.7	.	.	.	24	32	.	.	.	5.3	7.6	.	.
1996	.	1.9	24	.	.	.	5.3	23	.	.	.	15	4.6	.	.	.	6.3	40	.	.	.	3.5	9.7	.	.
1997	.	2.2	13	.	.	.	5.3	23	.	.	.	37	4.8	.	.	.	2.7	25	.	.	.	17	5.8	.	.
1998	.	3.6	16	.	.	.	2.7	30	.	.	.	0.044	2.6	.	.	.	1.2	24	.	.	.	1.2	4.3	.	.
1999	.	1.6	30	.	.	.	4.2	49	.	.	.	1.3	6.3	.	.	.	2.3	31	.	.	.	1.0	6.2	.	.
2000	.	2.0	17	.	.	.	4.4	20	.	.	.	4.8	4.1	.	.	.	3.6	23	.	.	.	7.6	3.8	.	.
trans_nonachlor																									
1992	.	1.7	8.7	.	.	.	0.59	11	.	.	.	0	.	.	.	.	0.17	11	.	.	.	0	3.3	.	.
1993	.	2.5	7.8	.	.	.	5.5	15	.	.	.	0	8.3	.	.	.	0.30	13	.	.	.	0	4.2	.	.
1994	.	3.3	9.9	.	.	.	0.61	13	.	.	.	0	7.8	.	.	.	1.3	10	.	.	.	0	4.8	.	.
1995	.	9.0	7.8	.	.	.	0.78	8.9	.	.	.	0	4.4	.	.	.	0.59	7.8	.	.	.	0	3.5	.	.
1996	.	2.2	8.1	.	.	.	0.53	7.0	.	.	.	0	4.4	.	.	.	0.36	4.9	.	.	.	0	2.1	.	.
1997	.	0.84	7.2	.	.	.	0.57	9.1	.	.	.	0	5.0	.	.	.	0.43	7.5	.	.	.	0	2.4	.	.
1998	.	0.78	8.7	.	.	.	0.76	8.2	.	.	.	0.30	4.1	.	.	.	0.30	6.5	.	.	.	0.27	1.7	.	.
1999	.	0.78	13	.	.	.	0.95	16	.	.	.	0.76	5.9	.	.	.	0.23	7.9	.	.	.	0.90	3.1	.	.
2000	.	0.39	6.0	.	.	.	0.72	11	.	.	.	0.78	4.8	.	.	.	0.61	7.3	.	.	.	0.30	1.5	.	.

	SUPERIOR (kg/year)					MICHIGAN (kg/year)					HURON (kg/year)					ERIE (kg/year)					ONTARIO (kg/year)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
α_endosulfan																									
1992	.	0	.	.	.	.	0	.	.	.	.	70	.	.	.	.	0	.	.	.	.	83	150	.	.
1993	.	0	.	.	.	.	0	.	.	.	.	52	74	.	.	.	0	.	.	.	.	30	120	.	.
1994	.	6	.	.	.	.	57	.	.	.	.	61	140	.	.	.	3.3	.	.	.	.	150	370	.	.
1995	.	69	130	.	.	.	12	320	.	.	.	50	50	.	.	.	15	190	.	.	.	24	64	.	.
1996	.	27	120	.	.	.	7.2	210	.	.	.	33	28	.	.	.	11	100	.	.	.	19	50	.	.
1997	.	20	130	.	.	.	15	440	.	.	.	26	72	.	.	.	4.9	210	.	.	.	12	69	.	.
1998	.	7.8	120	.	.	.	9.1	460	.	.	.	30	61	.	.	.	1.3	180	.	.	.	38	83	.	.
1999	.	25	200	.	.	.	16	340	.	.	.	26	120	.	.	.	9.3	150	.	.	.	29	140	.	.
2000	.	16	54	.	.	.	25	160	.	.	.	24	35	.	.	.	23	140	.	.	.	22	120	.	.
PCB 018																									
1992	.	2.7	26	-170	-140	.	1.0	36	-200	-170	.	.	.	.	.	.	0.53	29	-67	-38	.	.	13	-28	-15
1993	.	1.8	42	-180	-140	.	0.72	36	-210	-170	.	4.8	30	-61	-31	.	0.36	36	-68	-32	.	0	15	-29	-14
1994	.	1.9	24	-200	-180	.	1.5	25	-210	-190	.	12	24	-61	-37	.	0.46	22	-67	-45	.	1.5	15	-30	-15
1995	.	3.0	18	-54	-36	.	2.0	17	-80	-63	.	0	39	-54	-15	.	1.3	18	-82	-64	.	1.2	14	-32	-18
1996	.	4.5	18	-48	-30	.	1.5	14	-74	-60	.	.	30	-44	-14	.	0.83	8.1	-77	-69	.	1.2	13	-29	-16
1997	.	2.7	15	-33	-18	.	0.93	16	-34	-18	.	.	30	-24	6	.	0.36	21	-57	-36	.	.	14	-21	-7
1998	.	1.7	14	-36	-22	.	1.2	23	-34	-11	.	.	22	-24	-2	.	0.27	19	-53	-34	.	.	9.0	-20	-11
1999	.	3.9	36	-36	0	.	2.0	27	-36	-9	.	.	26	-26	0	.	0.47	19	-57	-38	.	.	12	-21	-9.0
2000	.	2.8	36	-36	0	.	1.8	18	-40	-22	.	.	19	-26	-7	.	0.67	13	-55	-42	.	.	8.3	-23	-15
PCB 044																									
1992	.	0.9	21	-54	-33	.	0.80	61	-150	-89	.	.	.	.	.	.	0.75	23	-35	-12	.	.	4.2	-25	-21
1993	.	0.36	69	-57	12	.	0.59	63	-150	-87	.	11	6.3	-21	-15	.	0.43	40	-36	4	.	3.9	5.2	-26	-21
1994	.	1.9	69	-63	6	.	4.6	19	-150	-130	.	22	5.4	-21	-16	.	1.1	31	-35	-4	.	3.6	5.5	-26	-21
1995	.	3.3	39	-63	-24	.	1.4	23	-70	-47	.	0	5.0	-35	-30	.	1.0	32	-59	-27	.	2.4	3.5	-32	-29
1996	.	2.8	13	-54	-41	.	0.86	13	-63	-50	.	.	4.8	-28	-23	.	0.66	13	-55	-42	.	2.4	2.9	-29	-26
1997	.	2.3	20	-28	-8	.	1.2	11	-38	-27	.	.	5.4	-21	-16	.	0.38	39	-50	-11	.	.	4.0	-18	-14
1998	.	8.4	15	-33	-18	.	2.1	15	-40	-25	.	.	4.4	-22	-18	.	1.1	22	-46	-24	.	.	2.7	-17	-14
1999	.	3.6	23	-33	-10	.	3.4	21	-42	-21	.	.	7.2	-22	-15	.	0.94	19	-50	-31	.	.	4.0	-19	-15
2000	.	2.8	33	-30	3	.	1.7	17	-49	-32	.	.	5.4	-22	-17	.	1.6	18	-48	-30	.	.	3.1	-20	-17
PCB 052																									
1992	.	0.84	25	-54	-29	.	0.97	46	-190	-140	.	.	.	.	.	.	0.77	33	-47	-14	.	.	8.3	-32	-24
1993	.	0.30	66	-57	9	.	0.74	42	-190	-150	.	22	11	-21	-10	.	0.37	41	-47	-6	.	7.6	9.0	-33	-24
1994	.	2.8	72	-63	9	.	2.3	23	-190	-170	.	41	8.7	-21	-12	.	1.0	26	-47	-21	.	6.4	8.3	-33	-25
1995	.	4.8	39	-78	-39	.	2.3	20	-12	8	.	0	7.0	-24	-17	.	1.8	24	-53	-29	.	4.0	5.7	-24	-19
1996	.	4.2	21	-69	-48	.	1.9	15	-11	4	.	.	7.8	-19	-11	.	1.6	13	-50	-37	.	4.4	5.5	-21	-16
1997	.	1.7	18	-14	4	.	1.6	16	-9.7	6.3	.	.	10	-11	-1.0	.	0.61	23	-56	-33	.	.	6.9	-11	-4.1
1998	.	2.1	16	-16	0	.	1.7	20	-9.9	10	.	.	8.0	-11	-3	.	0.67	22	-52	-30	.	.	4.8	-10	-5.2
1999	.	3.9	33	-16	17	.	3.2	25	-10	15	.	.	11	-11	0	.	1.1	25	-56	-31	.	.	6.6	-11	-4.4
2000	.	4.5	33	-15	18	.	3.6	19	-12	7	.	.	8.3	-11	-2.7	.	1.5	21	-54	-33	.	.	4.5	-12	-7.5
PCB 101																									
1992	.	1.9	16	-100	-84	.	0.89	34	-84	-50	.	.	.	.	.	.	0.69	34	-21	13	.	.	5.0	-6.3	-1.3
1993	.	0.93	36	-110	-74	.	0.46	34	-86	-52	.	13	6.1	0	6.1	.	0.50	28	-21	7.0	.	4.4	5.0	-6.4	-1.4
1994	.	2.0	72	-130	-58	.	1.5	14	-86	-72	.	21	5.9	0	5.9	.	0.94	14	-21	-7	.	3.7	6.9	-6.5	0.4
1995	.	4.5	33	-39	-6	.	1.6	11	-32	-21	.	0	3.9	-21	-17	.	1.3	13	-26	-13	.	2.4	3.0	-10	-7
1996	.	3.3	16	-36	-20	.	1.1	9.1	-27	-18	.	.	3.5	-16	-13	.	1.2	7.3	-24	-16.7	.	2.4	2.8	-9.7	-6.9
1997	.	2.9	12	-3.0	9	.	1.1	7.6	-25	-17	.	.	4.6	-9.4	-5.0	.	0.63	12	-17	-5	.	.	3.0	-6.4	-3.4
1998	.	5.4	11	-3.6	7.4	.	1.5	10	-27	-17	.	.	3.7	-9.8	-6.1	.	0.72	12	-16	-4	.	.	2.3	-6.3	-4.0
1999	.	5.1	17	-3.6	13	.	2.3	14	-27	-13	.	.	3.7	-10	-6.3	.	0.87	14	-17	-3	.	.	2.6	-6.7	-4.1
2000	.	3.9	15	-3.3	12	.	2.7	11	-32	-21	.	.	2.4	-10	-7.6	.	1.2	12	-16	-4.0	.	.	1.7	-6.9	-5.2

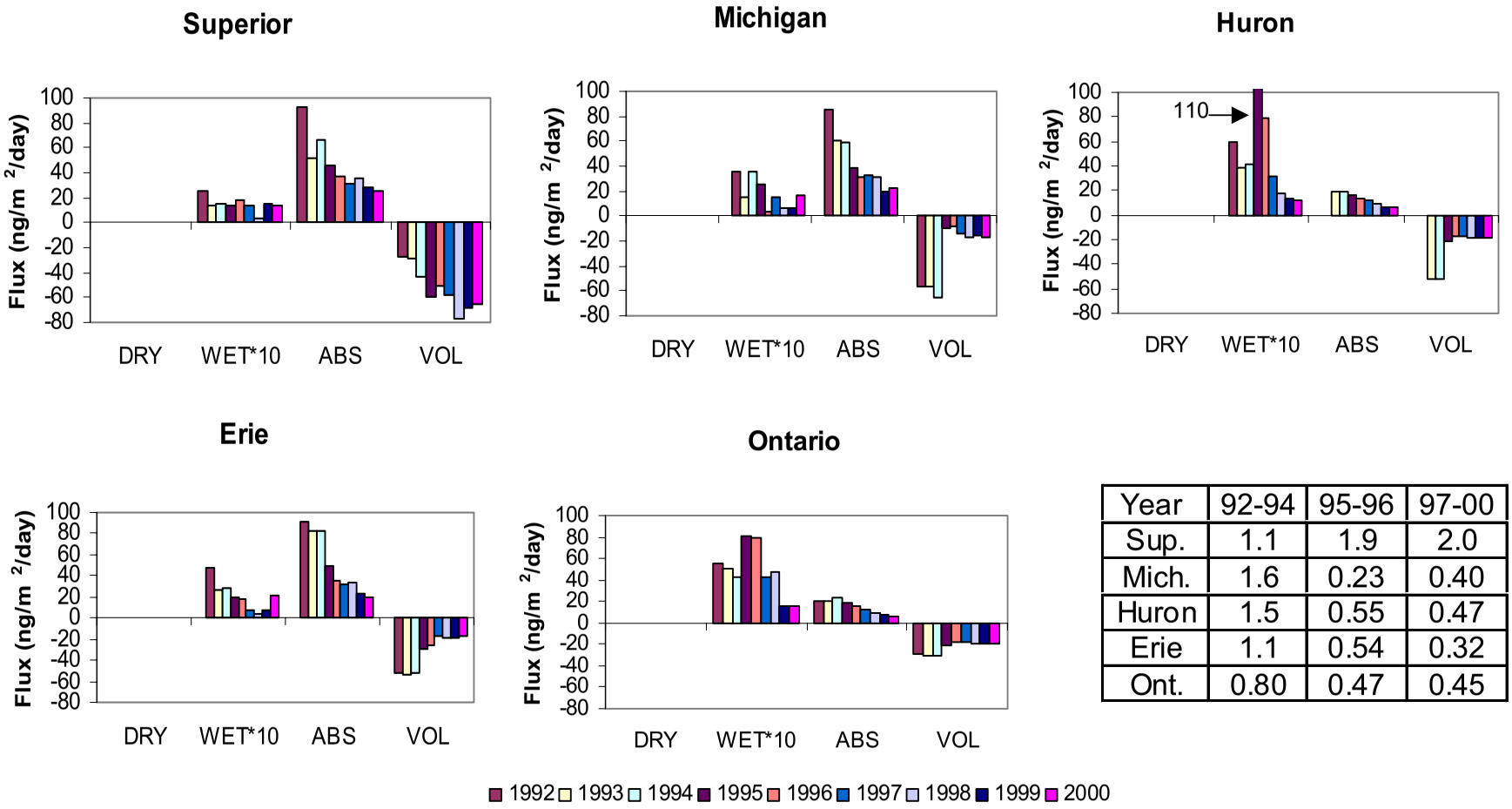
	SUPERIOR (kg/year)					MICHIGAN (kg/year)					HURON (kg/year)					ERIE (kg/year)					ONTARIO (kg/year)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
SUITE PCB																									
1992	.	110	420	-2400	-2000	.	34	820	-3800	-3000	.	.	.	.	.	.	20	550	-1000	-450	.	.	140	-640	-500
1993	.	84	1100	-2500	-1400	.	44	820	-4000	-3200	.	130	260	-960	-700	.	13	700	-1000	-300	.	37	150	-660	-510
1994	.	45	1000	-2900	-1900	.	82	400	-3800	-3400	.	200	280	-960	-680	.	36	380	-1000	-620	.	35	200	-680	-480
1995	.	96	540	-1100	-560	.	44	300	-1100	-800	.	0	240	-590	-350	.	36	330	-1000	-670	.	25	100	-390	-290
1996	.	93	330	-990	-660	.	32	230	-1000	-770	.	.	170	-480	-310	.	29	160	-930	-770	.	24	90	-360	-270
1997	.	78	290	-660	-370	.	23	270	-460	-190	.	.	140	-570	-430	.	16	370	-830	-460	.	.	68	-280	-210
1998	.	110	240	-750	-510	.	34	380	-460	-80	.	.	94	-590	-500	.	14	340	-770	-430	.	.	46	-280	-230
1999	.	100	480	-750	-270	.	59	440	-490	-50	.	.	180	-610	-430	.	16	370	-830	-460	.	.	57	-300	-240
2000	.	69	570	-720	-150	.	49	320	-570	-250	.	.	140	-610	-470	.	21	260	-810	-550	.	.	45	-320	-280
benzo[a]pyrene																									
1992	36	250	0	.	.	97	190	34	.	.	96	0	.	.	.	69	200	25	.	.	76	0	.	.	.
1993	0	78	0	.	.	32	110	0	.	.	110	100	.	.	.	54	94	2.3	.	.	83	15	.	.	.
1994	36	33	0	.	.	57	63	0	.	.	57	0	.	.	.	94	77	0	.	.	48	1.8	.	.	.
1995	13	78	48	.	.	40	120	0.76	.	.	46	30	.	.	.	110	160	25	.	.	41	11	.	.	.
1996	36	39	0.63	.	.	40	74	18	.	.	98	35	.	.	.	120	78	0.78	.	.	65	49	.	.	.
1997	36	72	1.6	.	.	49	120	15	.	.	85	150	0	.	.	100	120	2.5	.	.	60	50	0	.	.
1998	28	78	0.63	.	.	55	82	8.0	.	.	61	35	0	.	.	100	73	1.6	.	.	62	130	1.4	.	.
1999	36	57	0	.	.	55	100	0	.	.	54	44	0	.	.	110	78	32	.	.	56	19	0	.	.
2000	20	48	0	.	.	74	86	0.25	.	.	67	89	0	.	.	65	94	13	.	.	33	43	0	.	.
benzo[b]fluoranthene																									
1992	160	450	66	.	.	300	340	72	.	.	170	0	.	.	.	400	380	81	.	.	260	6.9	.	.	.
1993	33	110	0	.	.	120	200	0	.	.	190	150	.	.	.	260	190	28	.	.	320	190	.	.	.
1994	130	81	0	.	.	180	160	8.4	.	.	120	35	.	.	.	340	160	23	.	.	120	28	.	.	.
1995	120	250	96	.	.	150	270	6.1	.	.	87	24	.	.	.	450	370	94	.	.	110	46	.	.	.
1996	99	140	3.6	.	.	150	160	38	.	.	170	240	.	.	.	310	190	2.8	.	.	200	110	.	.	.
1997	130	160	5.4	.	.	150	230	44	.	.	150	280	7.0	.	.	300	240	11	.	.	170	110	0	.	.
1998	110	190	5.1	.	.	180	200	59	.	.	130	130	3.3	.	.	370	190	31	.	.	210	640	37	.	.
1999	160	180	17	.	.	180	210	4.6	.	.	87	170	0.87	.	.	390	170	120	.	.	180	52	0.53	.	.
2000	100	160	0	.	.	250	230	0.11	.	.	110	240	0	.	.	230	220	55	.	.	100	170	12	.	.
benzo[k]fluoranthene																									
1992	18	220	13	.	.	300	140	42	.	.	74	0	.	.	.	57	150	31	.	.	69	0	0	.	.
1993	13	54	0	.	.	120	70	0	.	.	85	44	.	.	.	81	69	4.0	.	.	83	0	.	.	.
1994	51	36	0	.	.	180	57	0	.	.	48	24	.	.	.	100	64	6.7	.	.	33	0	.	.	.
1995	36	51	28	.	.	49	95	0.99	.	.	39	24	.	.	.	130	94	25	.	.	39	36	.	.	.
1996	42	48	1.3	.	.	46	51	9.3	.	.	72	180	.	.	.	120	62	0.81	.	.	65	76	.	.	.
1997	39	57	1.3	.	.	42	91	13	.	.	65	200	0	.	.	88	88	2.6	.	.	55	62	0	.	.
1998	25	63	0.42	.	.	42	61	8.0	.	.	54	80	0	.	.	83	53	0.70	.	.	68	300	8.3	.	.
1999	45	69	6.3	.	.	57	89	0	.	.	44	87	0	.	.	130	70	38	.	.	53	31	0.37	.	.
2000	25	30	0	.	.	80	65	0.063	.	.	48	180	0	.	.	76	70	14	.	.	28	100	1.7	.	.
benzo[k]fluoranthene + benzo[b]fluoranthene																									
1992	170	690	78	.	.	610	460	110	.	.	240	0	.	.	.	460	530	110	.	.	330	6.9	.	.	.
1993	45	170	0	.	.	250	270	0	.	.	280	190	.	.	.	340	260	32	.	.	400	190	.	.	.
1994	180	120	0	.	.	360	210	8.4	.	.	170	59	.	.	.	430	230	30	.	.	150	28	.	.	.
1995	160	300	120	.	.	200	360	7.2	.	.	130	48	.	.	.	590	460	120	.	.	150	83	.	.	.
1996	140	190	4.8	.	.	190	210	46	.	.	240	410	.	.	.	430	240	3.6	.	.	270	190	.	.	.
1997	170	220	6.6	.	.	190	340	57	.	.	210	480	7.0	.	.	390	330	14	.	.	220	170	0	.	.
1998	140	250	5.4	.	.	230	270	68	.	.	190	210	3.3	.	.	450	240	32	.	.	280	970	45	.	.
1999	200	250	23	.	.	230	300	4.6	.	.	130	260	0.87	.	.	530	240	160	.	.	240	83	0.90	.	.
2000	130	190	0	.	.	340	300	0.15	.	.	160	410	0	.	.	310	290	68	.	.	130	280	14	.	.

	SUPERIOR (kg/year)					MICHIGAN (kg/year)					HURON (kg/year)					ERIE (kg/year)					ONTARIO (kg/year)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
Indeno[1,2,3-cd]Pyrene																									
1992	75	220	0	.	.	180	230	12	.	.	180	0	.	.	.	170	230	18	.	.	110	0	.	.	.
1993	0	60	0	.	.	70	120	0	.	.	180	130	.	.	.	130	110	2.6	.	.	170	120	.	.	.
1994	69	30	0	.	.	110	89	0	.	.	130	0	.	.	.	190	72	0	.	.	120	3.1	.	.	.
1995	33	130	0	.	.	78	180	0.74	.	.	83	70	.	.	.	230	230	21	.	.	90	13	.	.	.
1996	75	100	0.060	.	.	99	100	6.8	.	.	190	160	.	.	.	240	130	0.38	.	.	150	54	.	.	.
1997	75	130	2.2	.	.	86	180	15	.	.	140	220	0	.	.	180	160	1.8	.	.	120	62	0	.	.
1998	60	120	0.66	.	.	120	120	21	.	.	110	130	0	.	.	210	100	0.88	.	.	140	220	0	.	.
1999	78	120	0	.	.	95	160	0	.	.	74	140	0	.	.	210	120	24	.	.	97	56	0	.	.
2000	51	90	0	.	.	140	130	0.13	.	.	89	140	0	.	.	120	120	14	.	.	83	83	0	.	.
Phenanthrene																									
1992	63	290	9000	.	.	120	360	8000	.	.	100	500	.	.	.	100	380	15000	.	.	42	370	1300	.	.
1993	9.0	110	7800	.	.	72	130	11000	.	.	100	700	.	.	.	94	230	20000	.	.	42	670	.	.	.
1994	270	180	5700	.	.	140	160	8400	.	.	80	590	.	.	.	190	180	15000	.	.	57	370	.	.	.
1995	57	260	12000	.	.	84	300	6500	.	.	59	370	.	.	.	160	370	19000	.	.	28	280	.	.	.
1996	93	260	7500	.	.	100	190	6100	.	.	100	440	.	.	.	200	110	9300	.	.	69	190	.	.	.
1997	93	240	6000	.	.	97	250	6800	.	.	150	740	2200	.	.	160	290	11000	.	.	51	480	1100	.	.
1998	75	180	5100	.	.	95	160	4900	.	.	65	630	1700	.	.	140	170	11000	.	.	49	970	1700	.	.
1999	110	260	7800	.	.	140	230	6100	.	.	33	630	1800	.	.	190	230	11000	.	.	45	260	1500	.	.
2000	90	280	5700	.	.	190	270	7000	.	.	54	740	2100	.	.	110	360	12000	.	.	27	560	1500	.	.
Pyrene																									
1992	130	230	2000	.	.	160	270	950	.	.	120	0	.	.	.	120	300	2400	.	.	76	0	230	.	.
1993	18	81	720	.	.	89	140	1300	.	.	130	0	.	.	.	130	200	2400	.	.	63	15	.	.	.
1994	200	140	480	.	.	150	110	740	.	.	76	65	.	.	.	230	130	1300	.	.	54	6.1	.	.	.
1995	54	200	3600	.	.	97	250	440	.	.	61	370	.	.	.	220	290	2100	.	.	48	150	.	.	.
1996	87	140	660	.	.	110	130	440	.	.	130	390	.	.	.	260	77	1000	.	.	90	190	.	.	.
1997	78	160	420	.	.	99	190	570	.	.	160	590	350	.	.	190	220	1000	.	.	69	420	170	.	.
1998	75	130	480	.	.	110	120	570	.	.	100	350	350	.	.	180	110	1000	.	.	90	520	330	.	.
1999	99	170	870	.	.	150	190	440	.	.	59	300	350	.	.	260	170	910	.	.	97	150	310	.	.
2000	54	150	360	.	.	170	190	530	.	.	83	370	370	.	.	130	220	1100	.	.	48	280	280	.	.

	SUPERIOR (kg/year)					MICHIGAN (kg/year)					HURON (kg/year)					ERIE (kg/year)					ONTARIO (kg/year)				
	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG	DRY	WET	ABS	VOL	NETG
Arsenic																									
1992	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1993	.	.	.	.	.	.	.	.	.	.	.	5400	.	.	.	.	.	.	.	.	.	1700	.	.	.
1994	.	.	.	.	.	.	.	.	.	.	.	2800	.	.	.	.	.	.	.	.	.	1500	.	.	.
1995	.	.	.	.	.	.	.	.	.	.	1100	3300	.	.	.	.	.	.	.	.	340	1500	.	.	.
1996	.	.	.	.	.	.	.	.	.	.	3700	3700	.	.	.	.	.	.	.	.	690	1400	.	.	.
1997	.	.	.	.	.	.	.	.	.	.	1700	.	.	.	.	.	.	.	.	.	1100	.	.	.	.
1998	.	.	.	.	.	.	.	.	.	.	1300	.	.	.	.	.	.	.	.	.	760	.	.	.	.
1999	.	.	.	.	.	.	.	.	.	.	1600	.	.	.	.	.	.	.	.	.	830	.	.	.	.
2000	.	.	.	.	.	.	.	.	.	.	2000	.	.	.	.	.	.	.	.	.	760	.	.	.	.
Cadmium																									
1992	.	.	.	.	.	.	.	.	.	.	670	.	.	.	.	.	.	.	.	.	170	.	.	.	.
1993	.	.	.	.	.	.	.	.	.	.	500	3700	.	.	.	.	.	.	.	.	150	1000	.	.	.
1994	.	.	.	.	.	.	.	.	.	.	650	2400	.	.	.	.	.	.	.	.	250	1000	.	.	.
1995	.	.	.	.	.	.	.	.	.	.	260	1600	.	.	.	.	.	.	.	.	69	900	.	.	.
1996	.	.	.	.	.	.	.	.	.	.	480	6300	.	.	.	.	.	.	.	.	160	760	.	.	.
1997	.	.	.	.	.	.	.	.	.	.	540	3900	.	.	.	.	.	.	.	.	190	1500	.	.	.
1998	.	.	.	.	.	.	.	.	.	.	300	5700	.	.	.	.	.	.	.	.	160	1200	.	.	.
1999	.	.	.	.	.	.	.	.	.	.	370	1500	.	.	.	.	.	.	.	.	200	900	.	.	.
2000	.	.	.	.	.	.	.	.	.	.	500	3000	.	.	.	.	.	.	.	.	180	540	.	.	.
Lead																									
1992	.	.	.	.	.	.	.	.	.	.	12000	.	.	.	.	.	.	.	.	.	5400	.	.	.	.
1993	.	.	.	.	.	.	.	.	.	.	12000	41000	.	.	.	.	.	.	.	.	6000	13000	.	.	.
1994	.	.	.	.	.	.	.	.	.	.	21000	19000	.	.	.	.	.	.	.	.	7600	13000	.	.	.
1995	.	.	.	.	.	.	.	.	.	.	10000	19000	.	.	.	.	.	.	.	.	3900	13000	.	.	.
1996	.	.	.	.	.	.	.	.	.	.	17000	50000	.	.	.	.	.	.	.	.	5900	19000	.	.	.
1997	.	.	.	.	.	.	.	.	.	.	13000	76000	.	.	.	.	.	.	.	.	6200	23000	.	.	.
1998	.	.	.	.	.	.	.	.	.	.	7200	28000	.	.	.	.	.	.	.	.	4600	28000	.	.	.
1999	.	.	.	.	.	.	.	.	.	.	9800	28000	.	.	.	.	.	.	.	.	5900	22000	.	.	.
2000	.	.	.	.	.	.	.	.	.	.	7000	24000	.	.	.	.	.	.	.	.	3700	17000	.	.	.
Selenium																									
1992	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1993	.	.	.	.	.	.	.	.	.	.	.	5700	.	.	.	.	.	.	.	.	.	2400	.	.	.
1994	.	.	.	.	.	.	.	.	.	.	.	3500	.	.	.	.	.	.	.	.	.	2300	.	.	.
1995	.	.	.	.	.	.	.	.	.	.	220	3700	.	.	.	.	.	.	.	.	210	2100	.	.	.
1996	.	.	.	.	.	.	.	.	.	.	1500	5200	.	.	.	.	.	.	.	.	590	5100	.	.	.
1997	.	.	.	.	.	.	.	.	.	.	830	.	.	.	.	.	.	.	.	.	830	.	.	.	.
1998	.	.	.	.	.	.	.	.	.	.	760	.	.	.	.	.	.	.	.	.	540	.	.	.	.
1999	.	.	.	.	.	.	.	.	.	.	1800	.	.	.	.	.	.	.	.	.	690	.	.	.	.
2000	.	.	.	.	.	.	.	.	.	.	2000	.	.	.	.	.	.	.	.	.	620	.	.	.	.

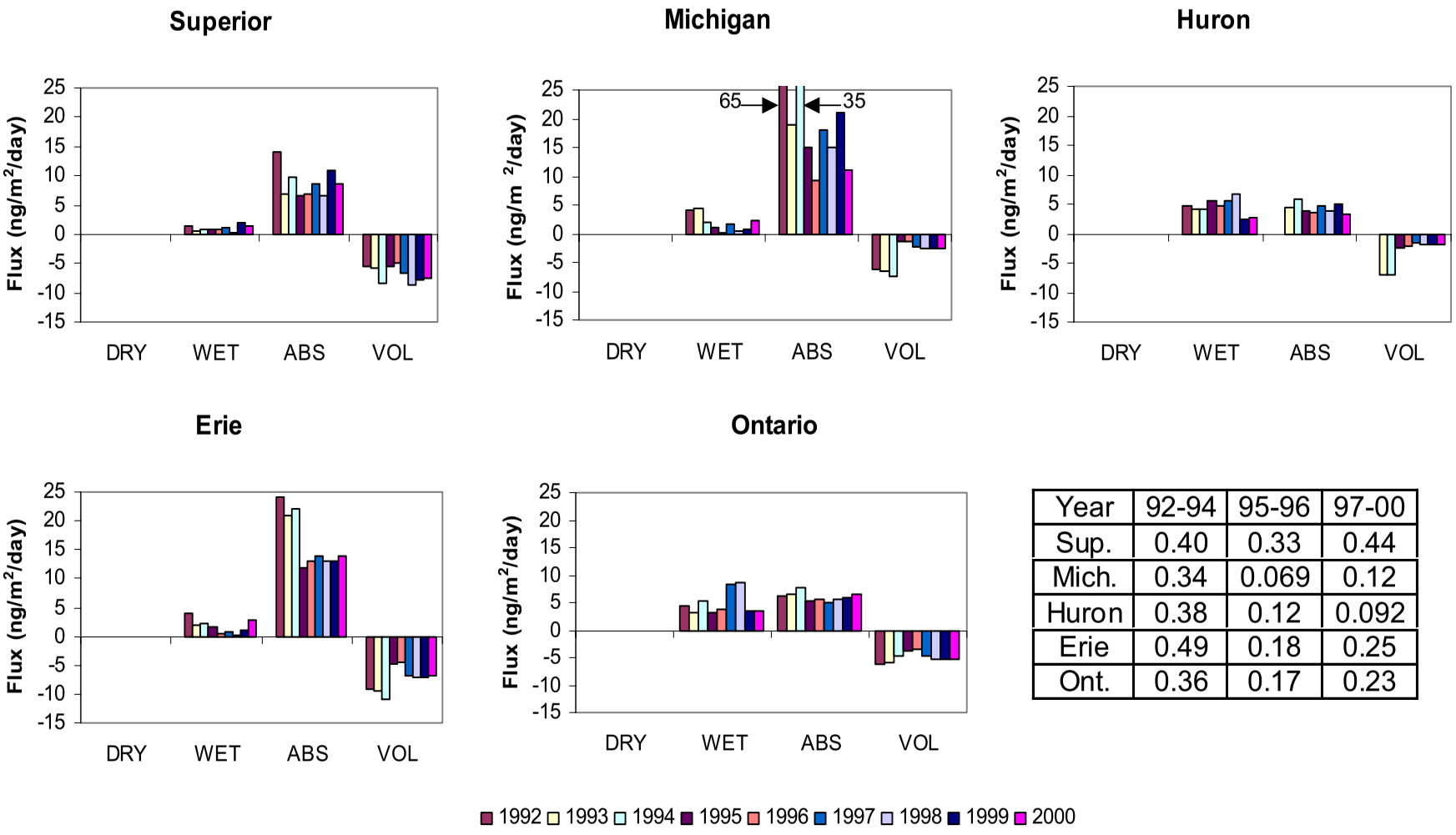
Appendix C.

Graphs of annual fluxes for 1992-2000



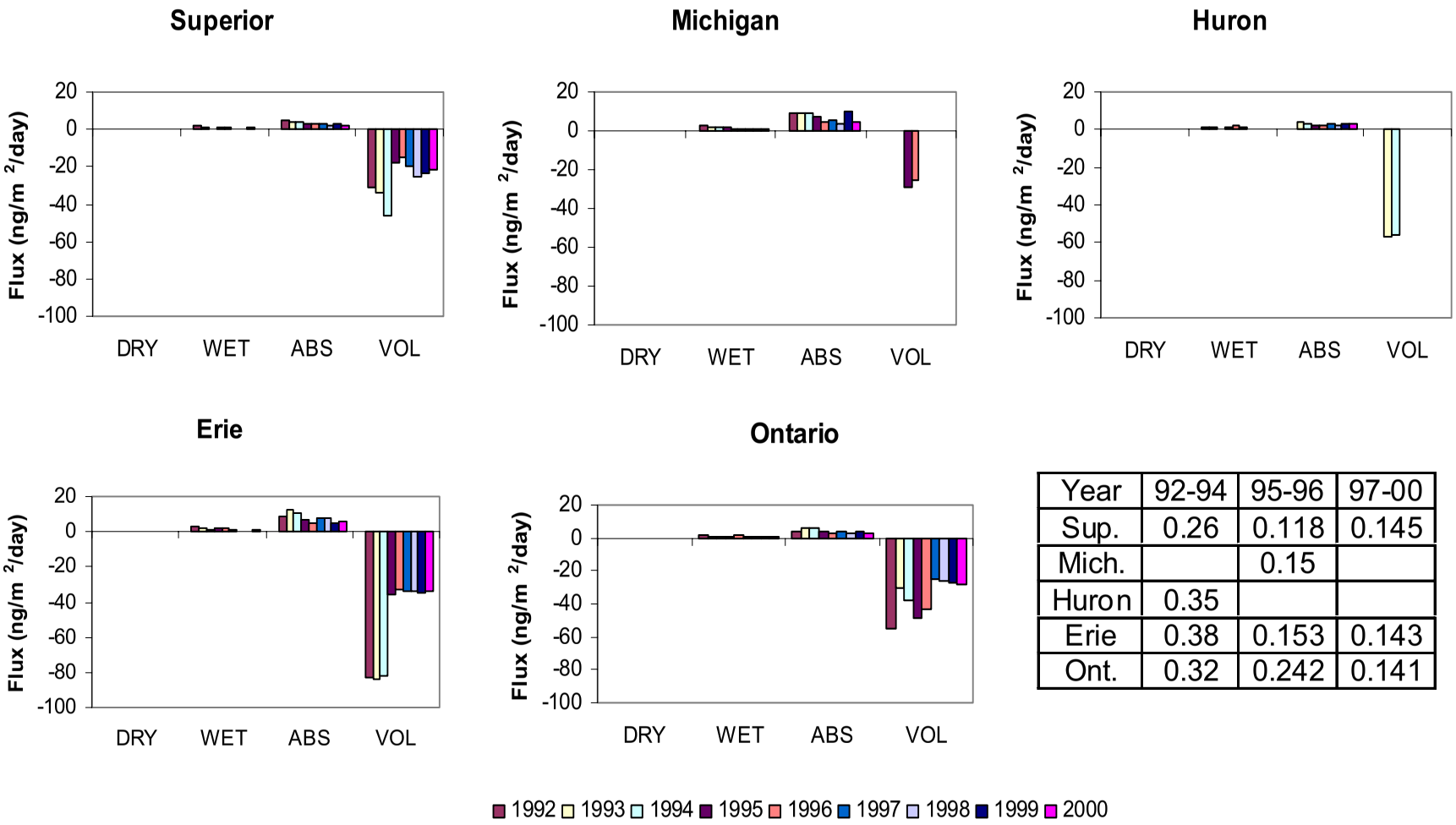
Year	92-94	95-96	97-00
Sup.	1.1	1.9	2.0
Mich.	1.6	0.23	0.40
Huron	1.5	0.55	0.47
Erie	1.1	0.54	0.32
Ont.	0.80	0.47	0.45

Figure C1. Annual Average Flux (ng/m^2/day) and Lake Water Concentration (ng/L) of α-Hexachlorocyclohexane



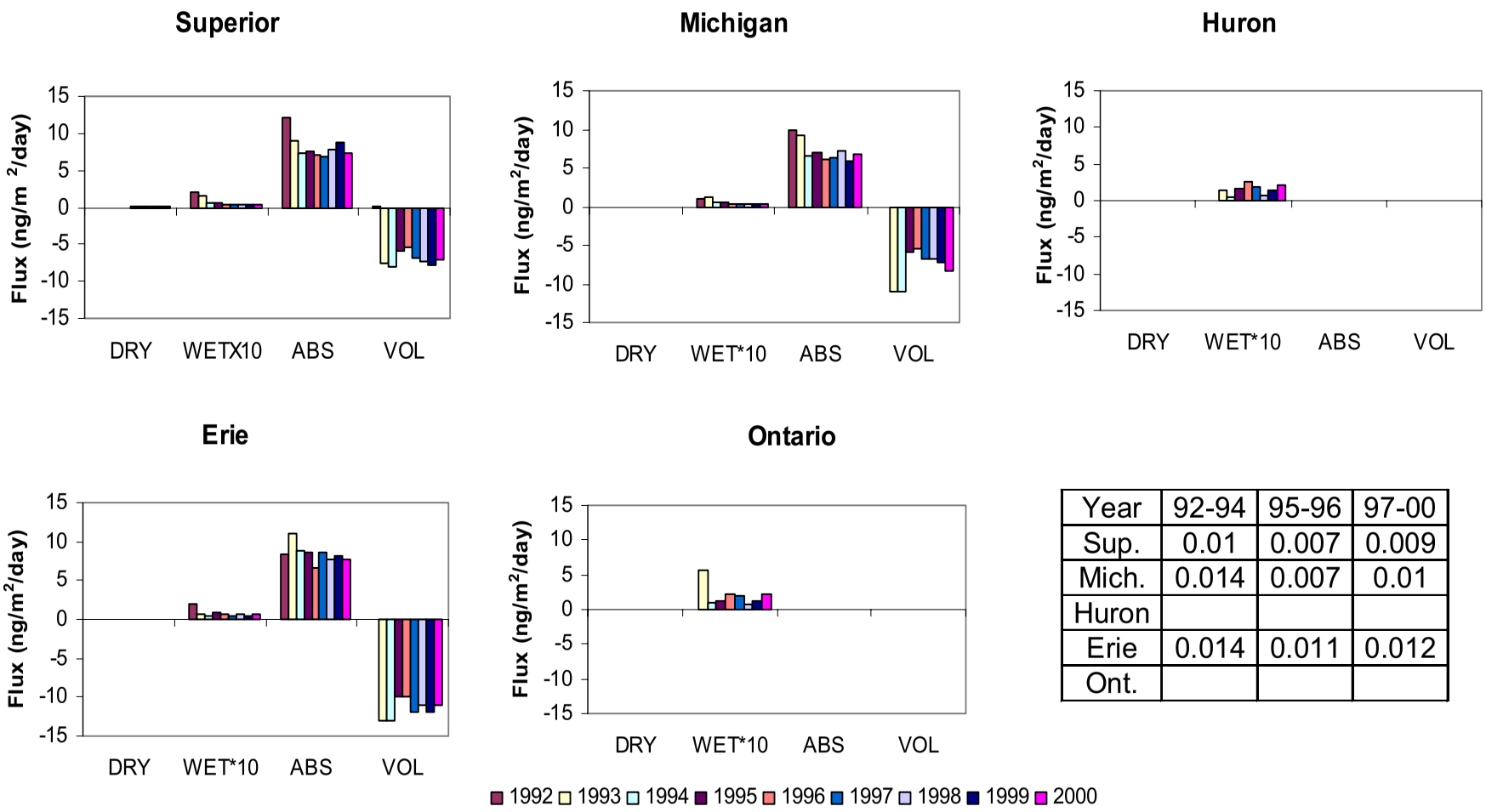
Year	92-94	95-96	97-00
Sup.	0.40	0.33	0.44
Mich.	0.34	0.069	0.12
Huron	0.38	0.12	0.092
Erie	0.49	0.18	0.25
Ont.	0.36	0.17	0.23

Figure C2. Annual Average Flux (ng/m^2/day) and Lake Water Concentration (ng/L) of γ-Hexachlorocyclohexane



Year	92-94	95-96	97-00
Sup.	0.26	0.118	0.145
Mich.		0.15	
Huron	0.35		
Erie	0.38	0.153	0.143
Ont.	0.32	0.242	0.141

Figure C3. Annual Average Flux (ng/m^2/day) and Lake Water (ng/L) Concentration of Dieldrin



Year	92-94	95-96	97-00
Sup.	0.01	0.007	0.009
Mich.	0.014	0.007	0.01
Huron			
Erie	0.014	0.011	0.012
Ont.			

Figure C4. Annual Average Flux (ng/m^2/day) and Lake Water Concentration (ng/L) of Hexachlorobenzene

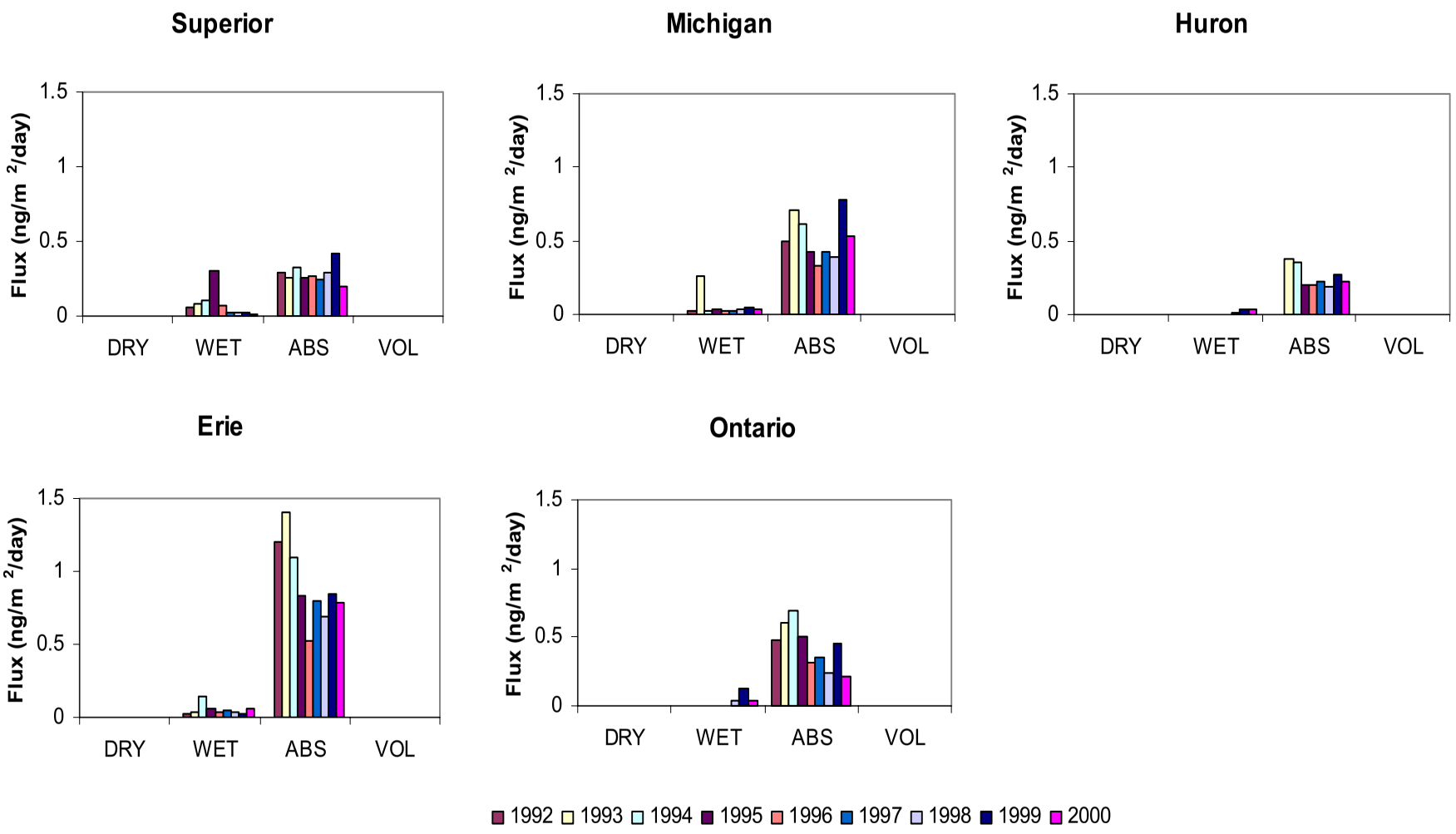


Figure C5. Annual Average Flux (ng/m^2/day) of Trans-nonachlor

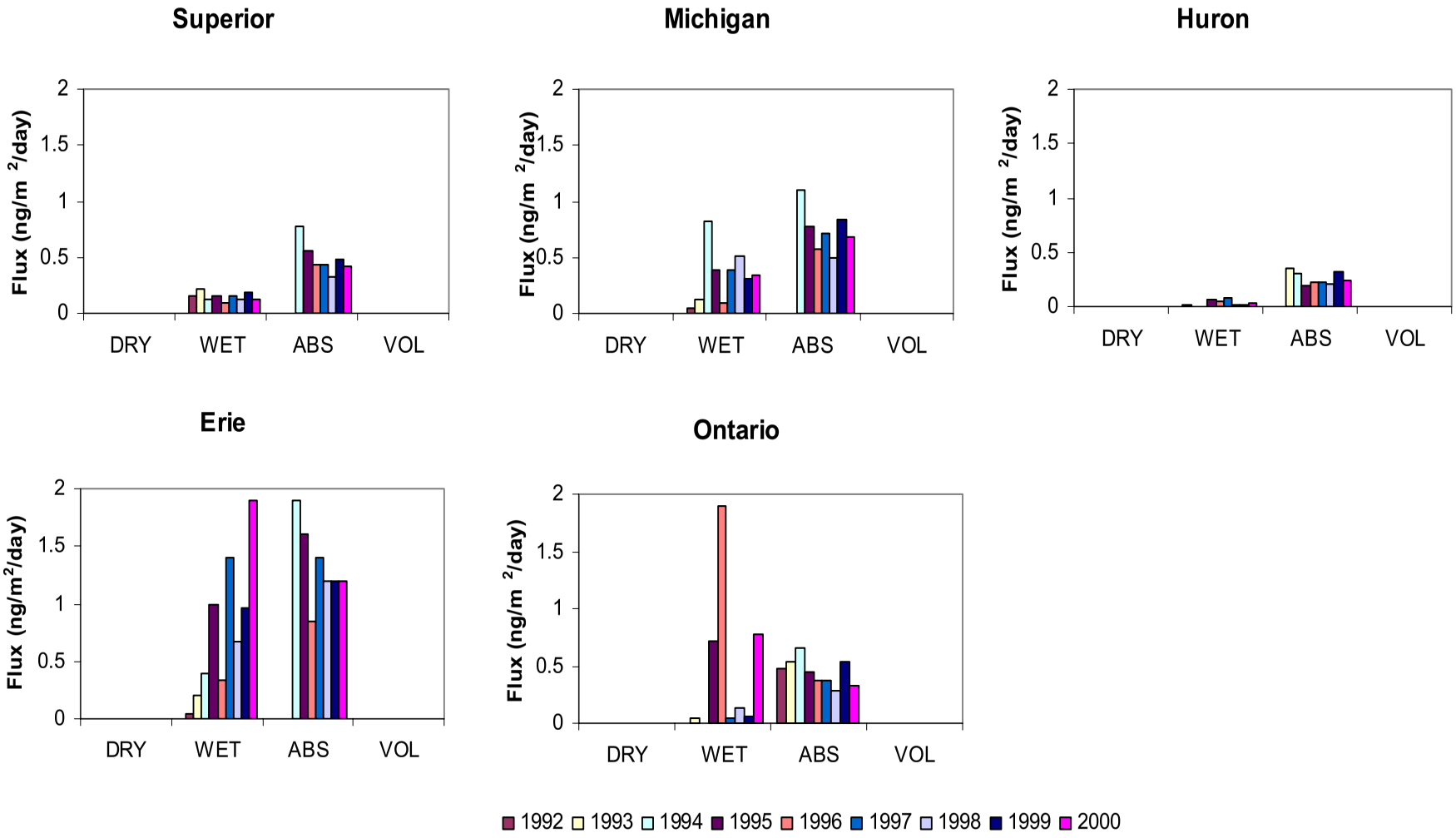


Figure C6. Annual Average Flux (ng/m^2/day) of Cis-chlordane

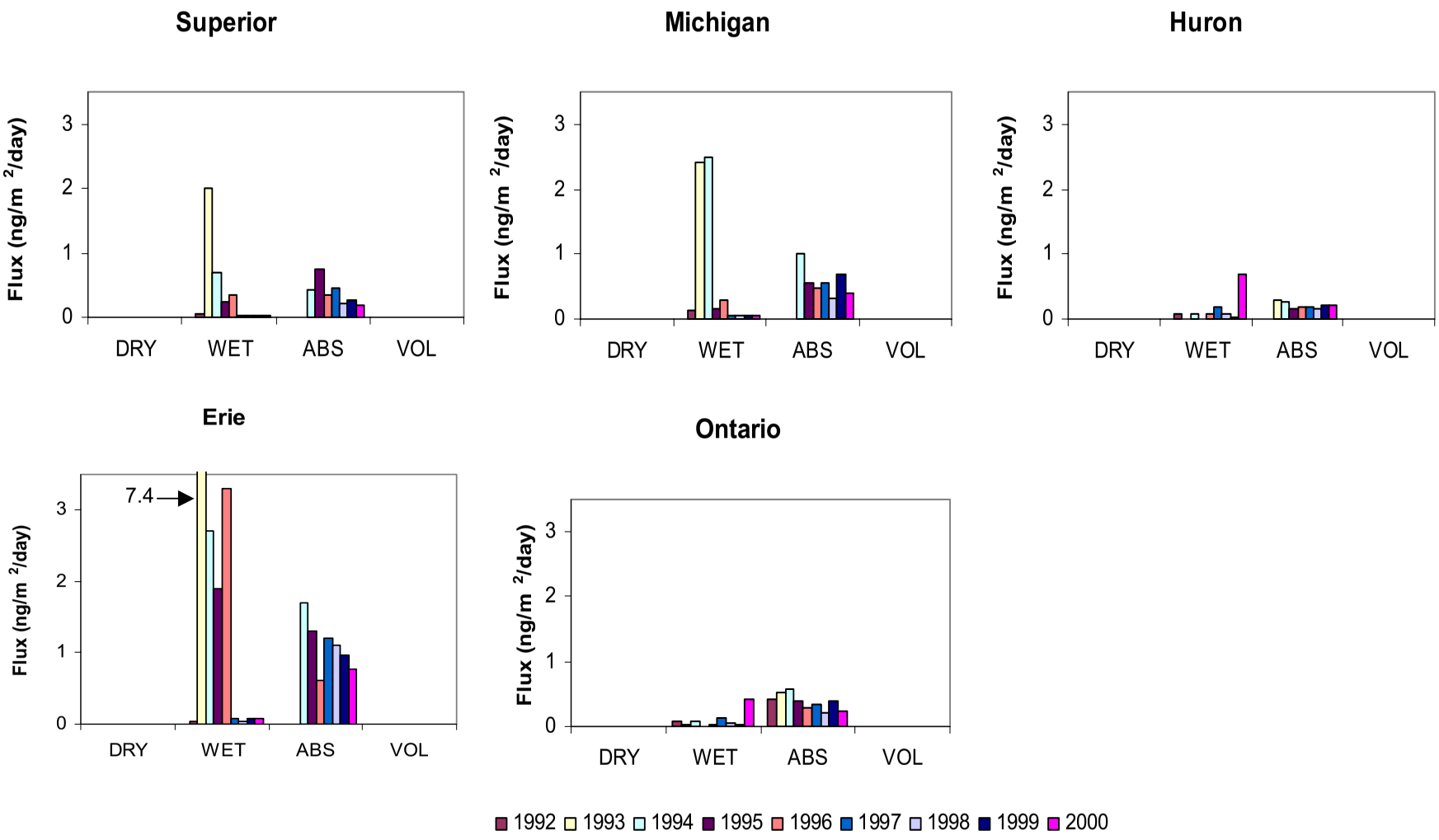


Figure C7. Annual Average Flux (ng/m^2/day) of Trans-chlordane

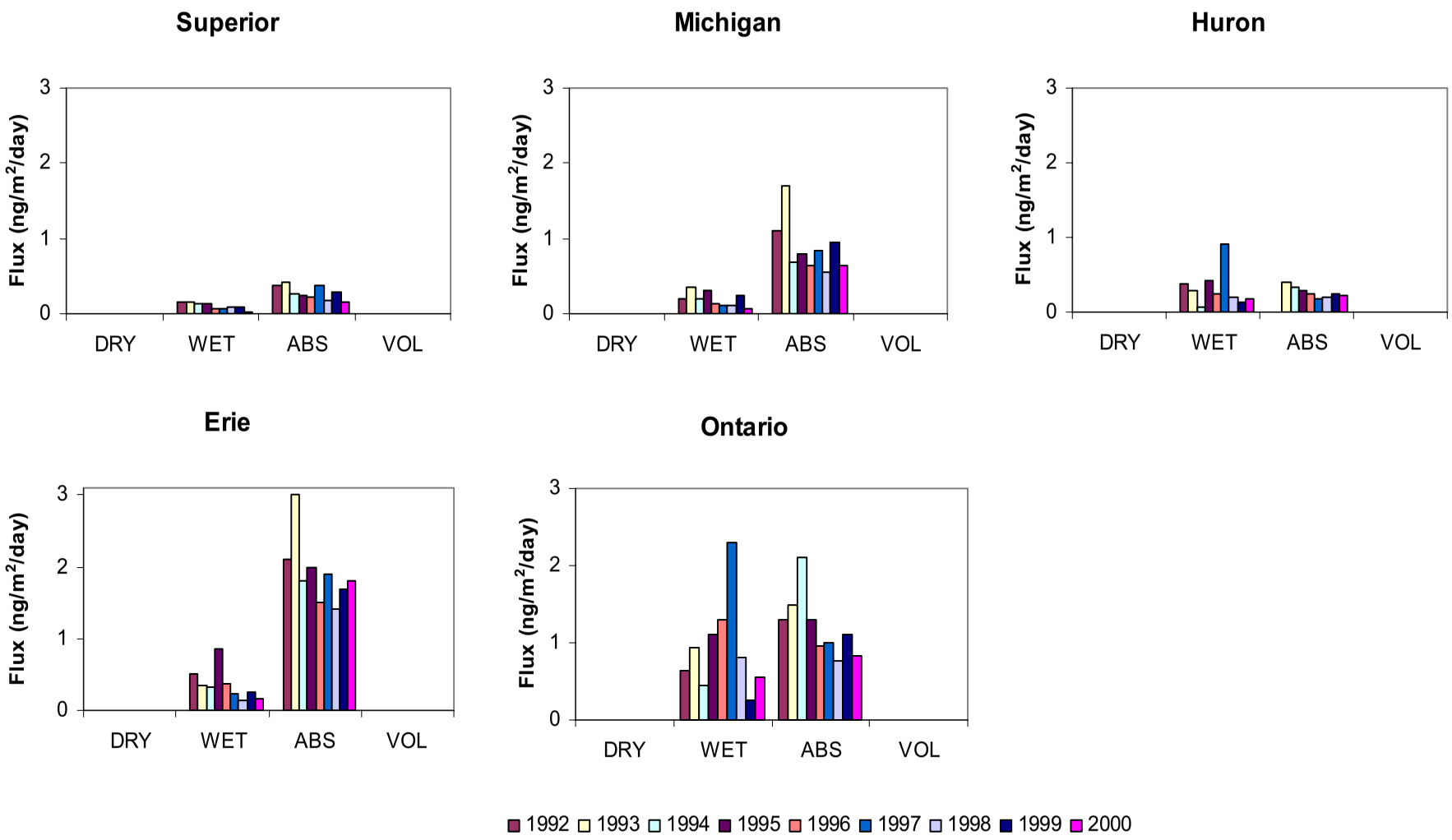


Figure C8. Annual Average Flux (ng/m^2/day) of *p'p'* -DDE

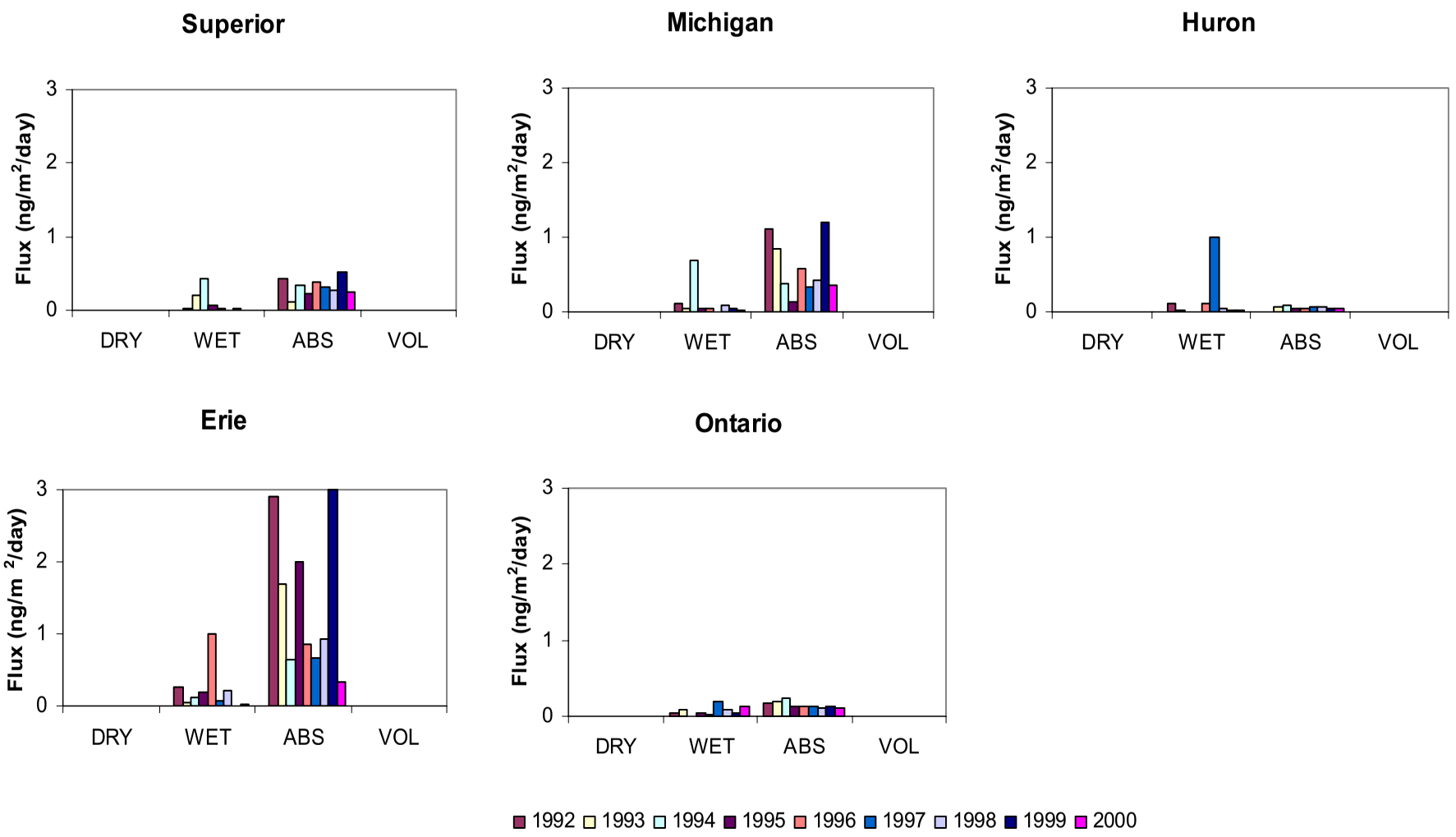


Figure C9. Annual Average Flux (ng/m^2/day) of *p'p'* -DDD

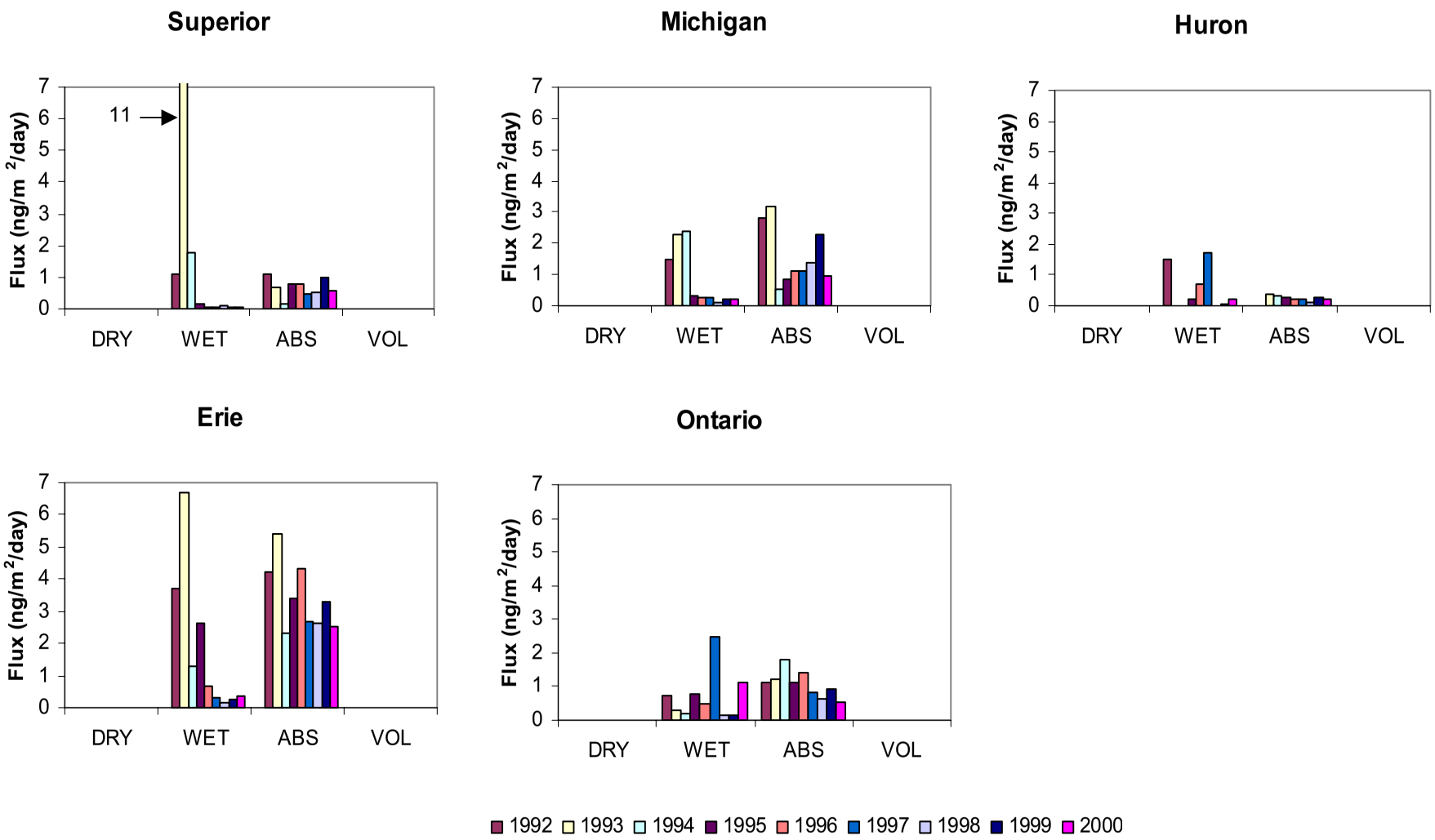


Figure C10. Annual Average Flux (ng/m^2/day) of *p'p'* -DDT

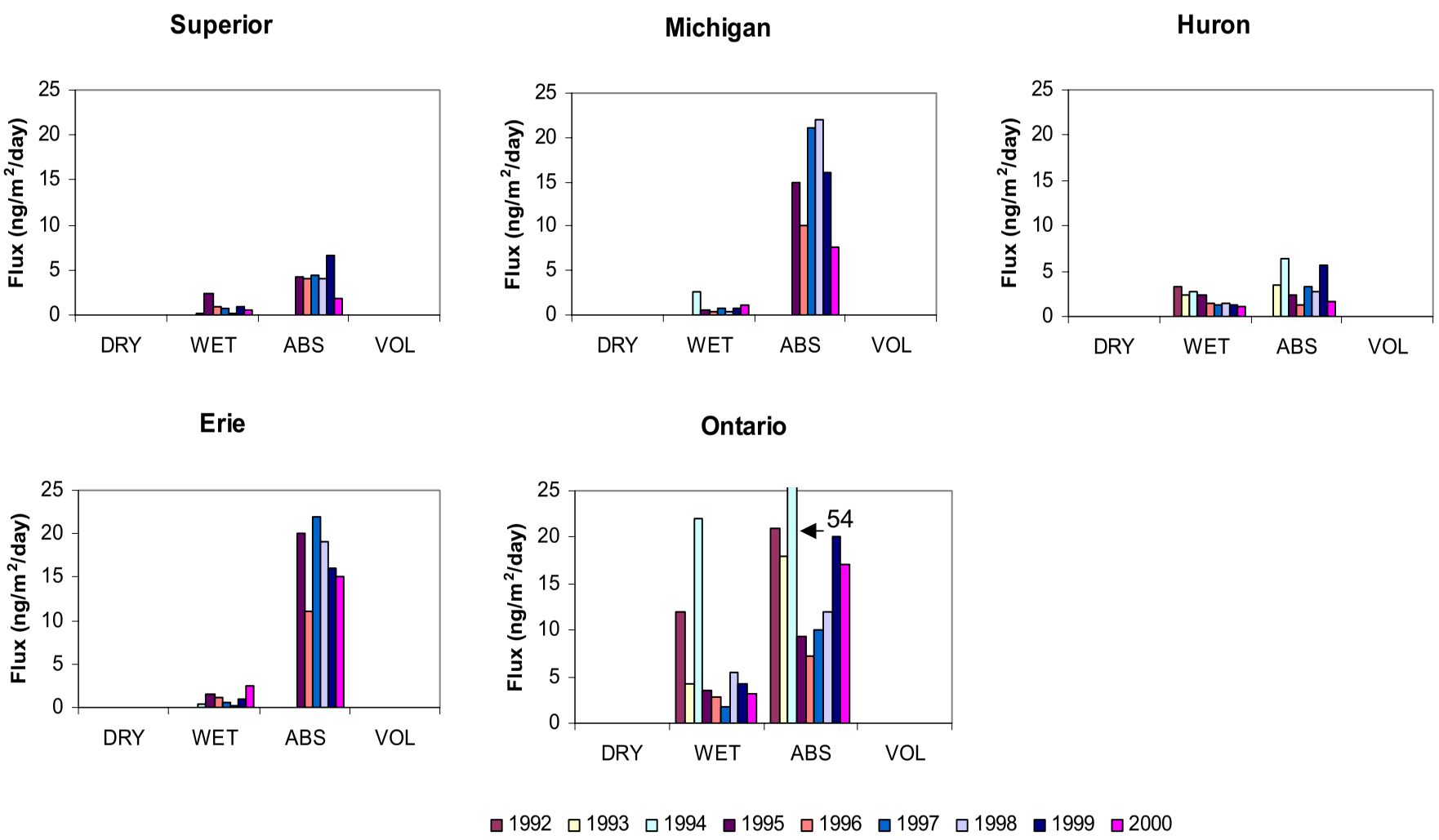
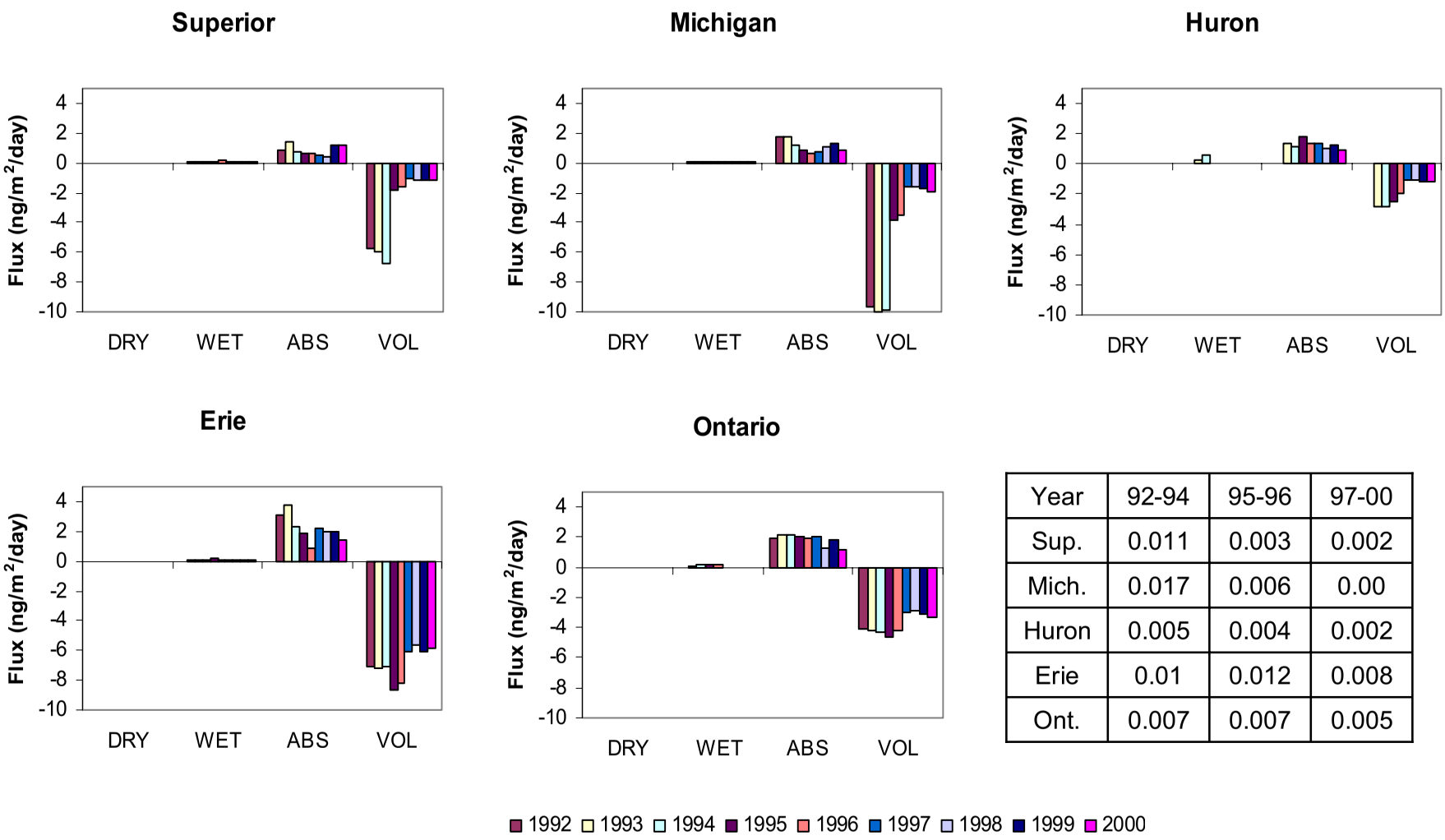
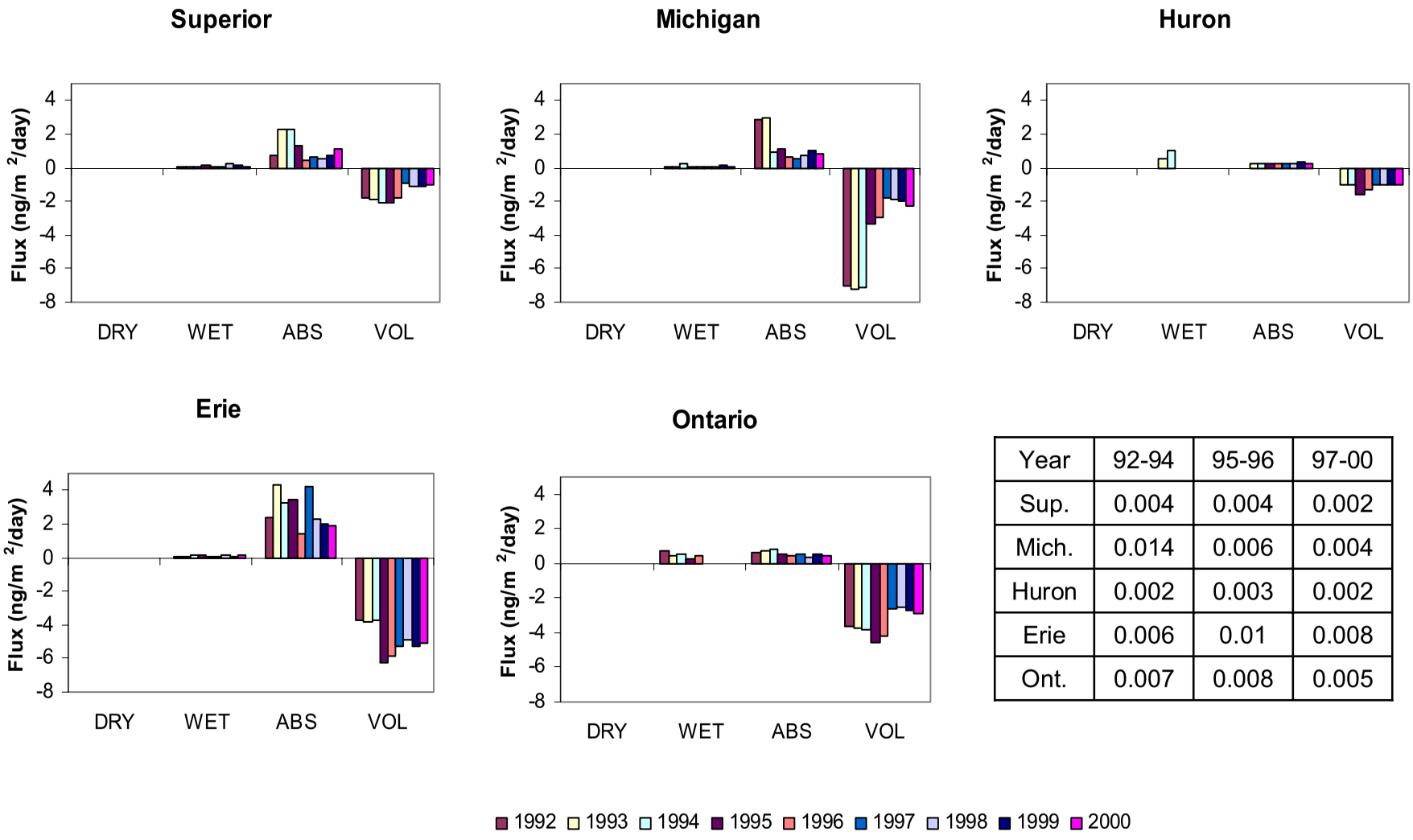


Figure C11. Annual Average Flux (ng/m^2/day) of α-endosulphan



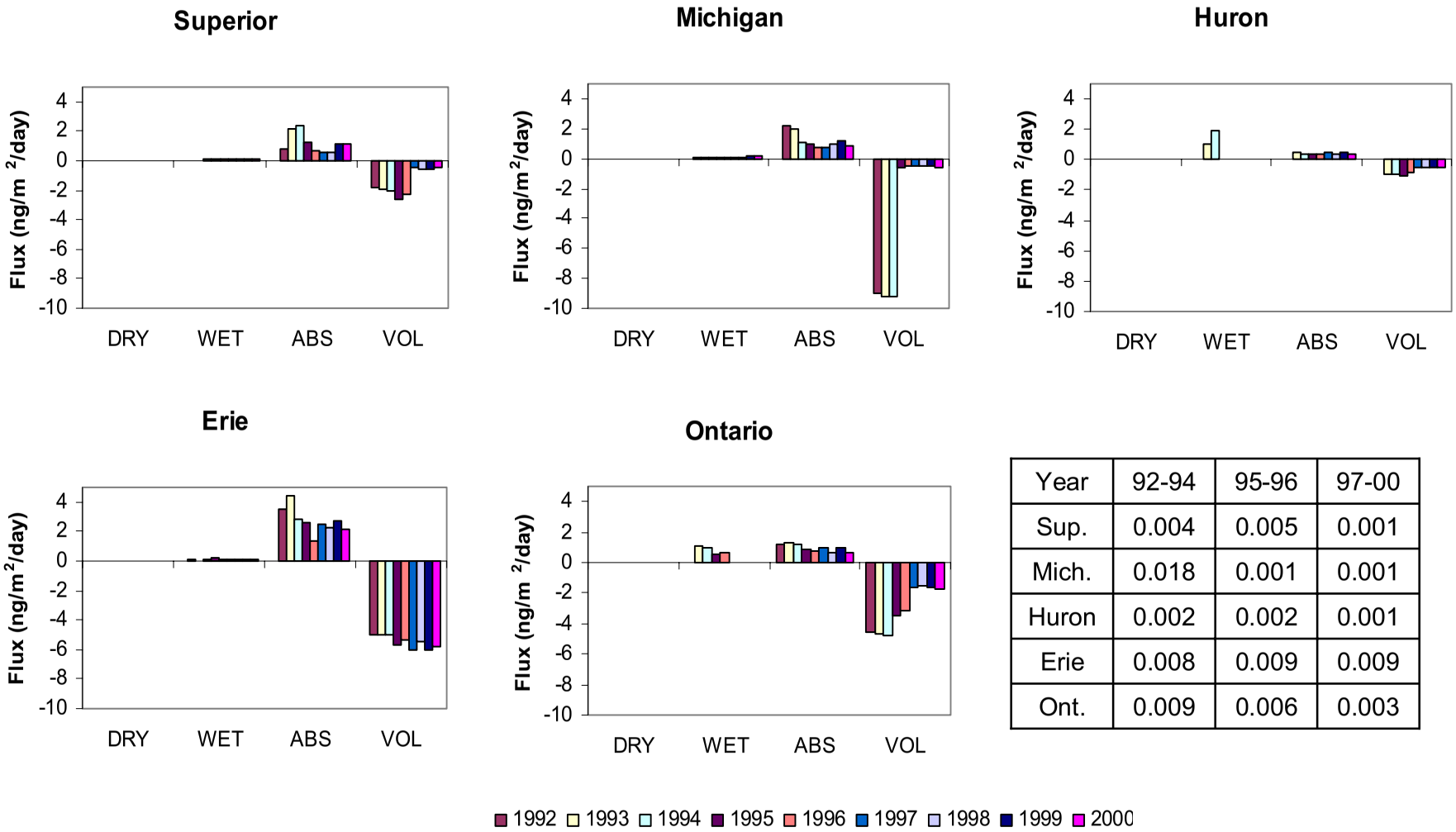
Year	92-94	95-96	97-00
Sup.	0.011	0.003	0.002
Mich.	0.017	0.006	0.00
Huron	0.005	0.004	0.002
Erie	0.01	0.012	0.008
Ont.	0.007	0.007	0.005

Figure C12. Annual Average Flux (ng/m^2/day) and Lake Water concentration (ng/L) of PCB 018



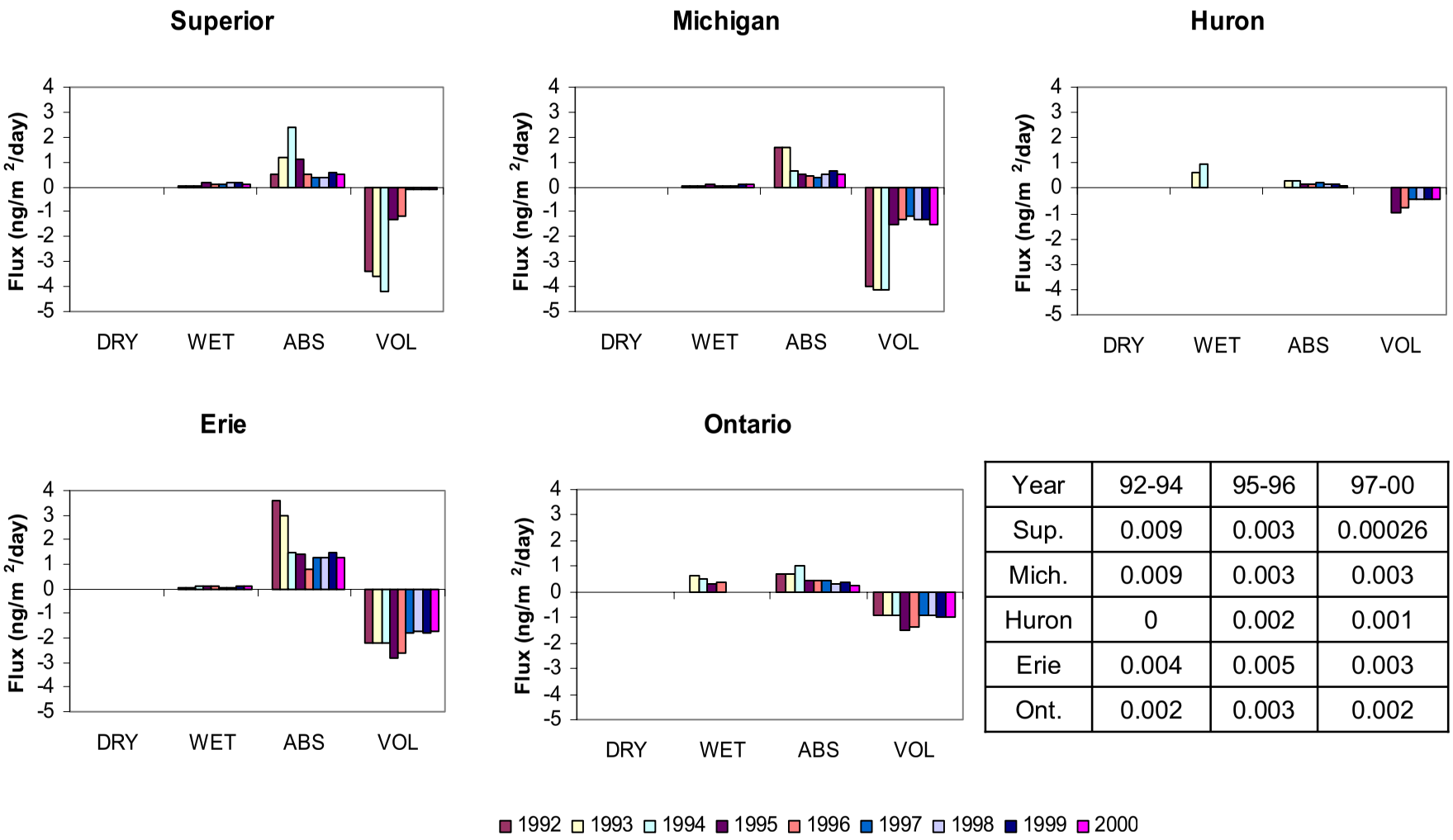
Year	92-94	95-96	97-00
Sup.	0.004	0.004	0.002
Mich.	0.014	0.006	0.004
Huron	0.002	0.003	0.002
Erie	0.006	0.01	0.008
Ont.	0.007	0.008	0.005

Figure C13. Annual Average Flux (ng/m^2/day) and Lake Water concentration (ng/L) of PCB 044



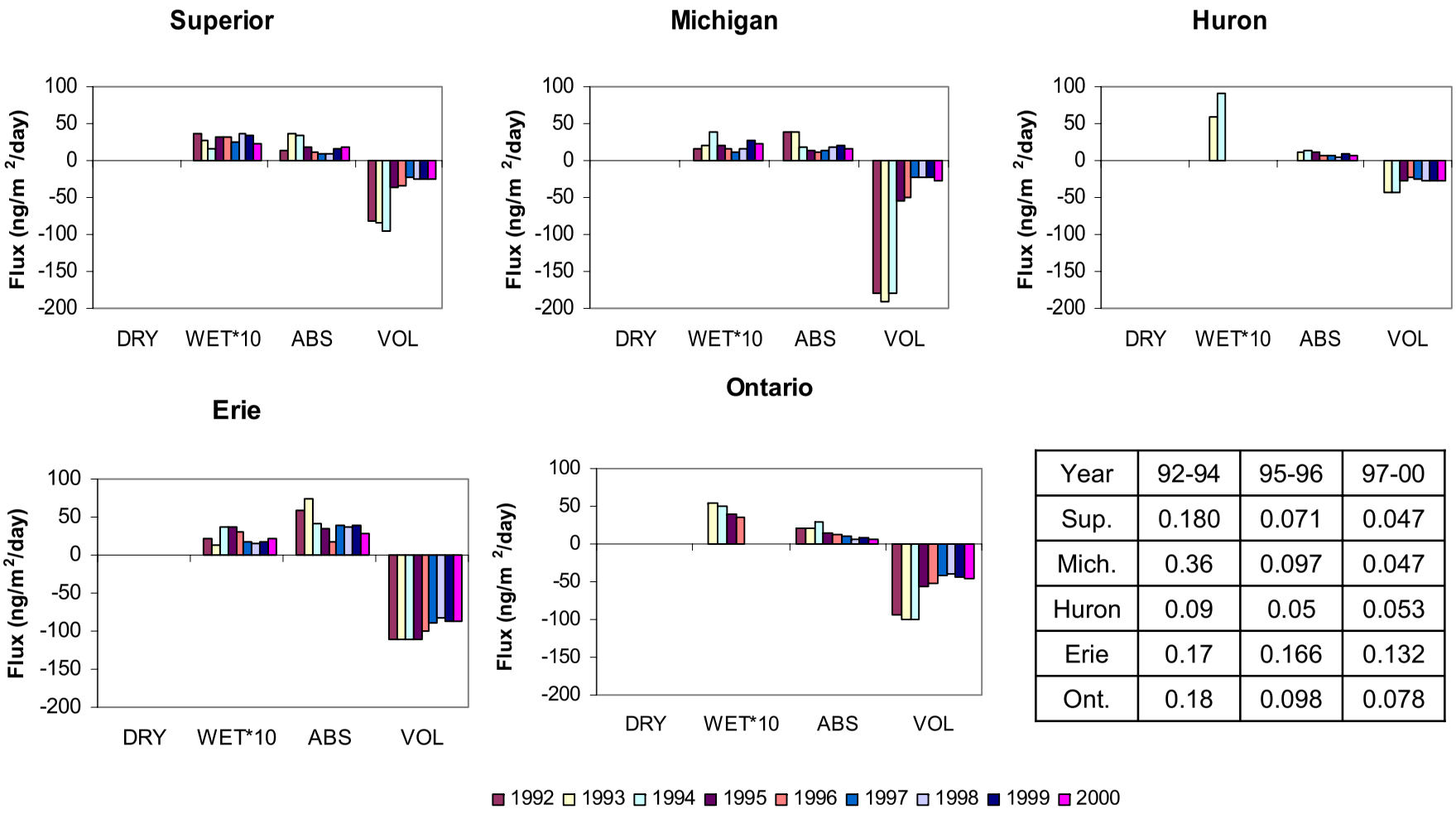
Year	92-94	95-96	97-00
Sup.	0.004	0.005	0.001
Mich.	0.018	0.001	0.001
Huron	0.002	0.002	0.001
Erie	0.008	0.009	0.009
Ont.	0.009	0.006	0.003

Figure C14. Annual Average Flux (ng/m^2/day) and Lake Water concentration (ng/L) of PCB 052



Year	92-94	95-96	97-00
Sup.	0.009	0.003	0.00026
Mich.	0.009	0.003	0.003
Huron	0	0.002	0.001
Erie	0.004	0.005	0.003
Ont.	0.002	0.003	0.002

Figure C15. Annual Average Flux (ng/m^2/day) and Lake Water concentration (ng/L) of PCB 101



Year	92-94	95-96	97-00
Sup.	0.180	0.071	0.047
Mich.	0.36	0.097	0.047
Huron	0.09	0.05	0.053
Erie	0.17	0.166	0.132
Ont.	0.18	0.098	0.078

Figure C16. Annual Average Flux (ng/m^2/day) and Lake Water concentration (ng/L) of Suite PCB

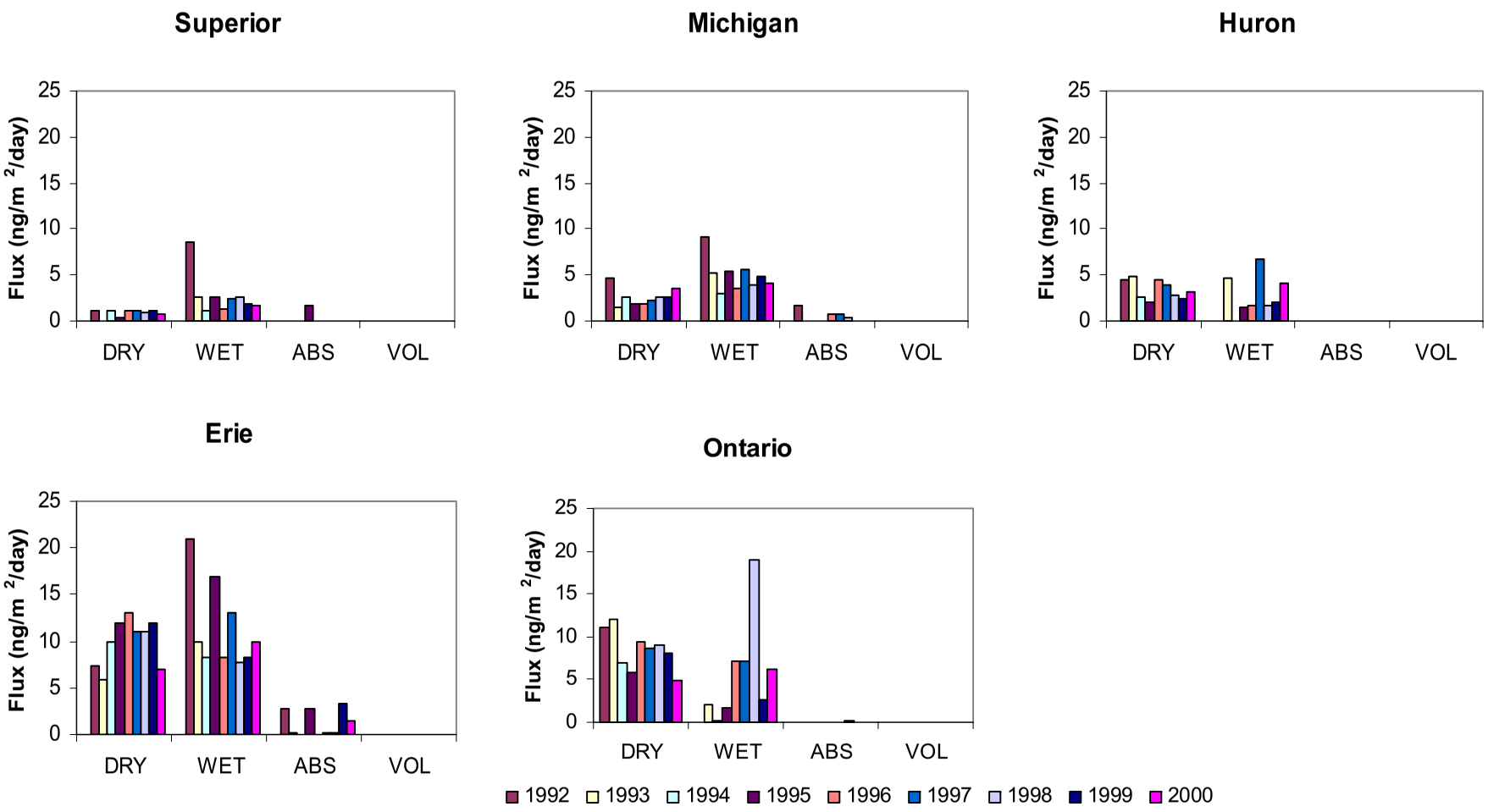


Figure C17. Annual Average Flux (ng/m^2/day) of Benzo (a) Pyrene

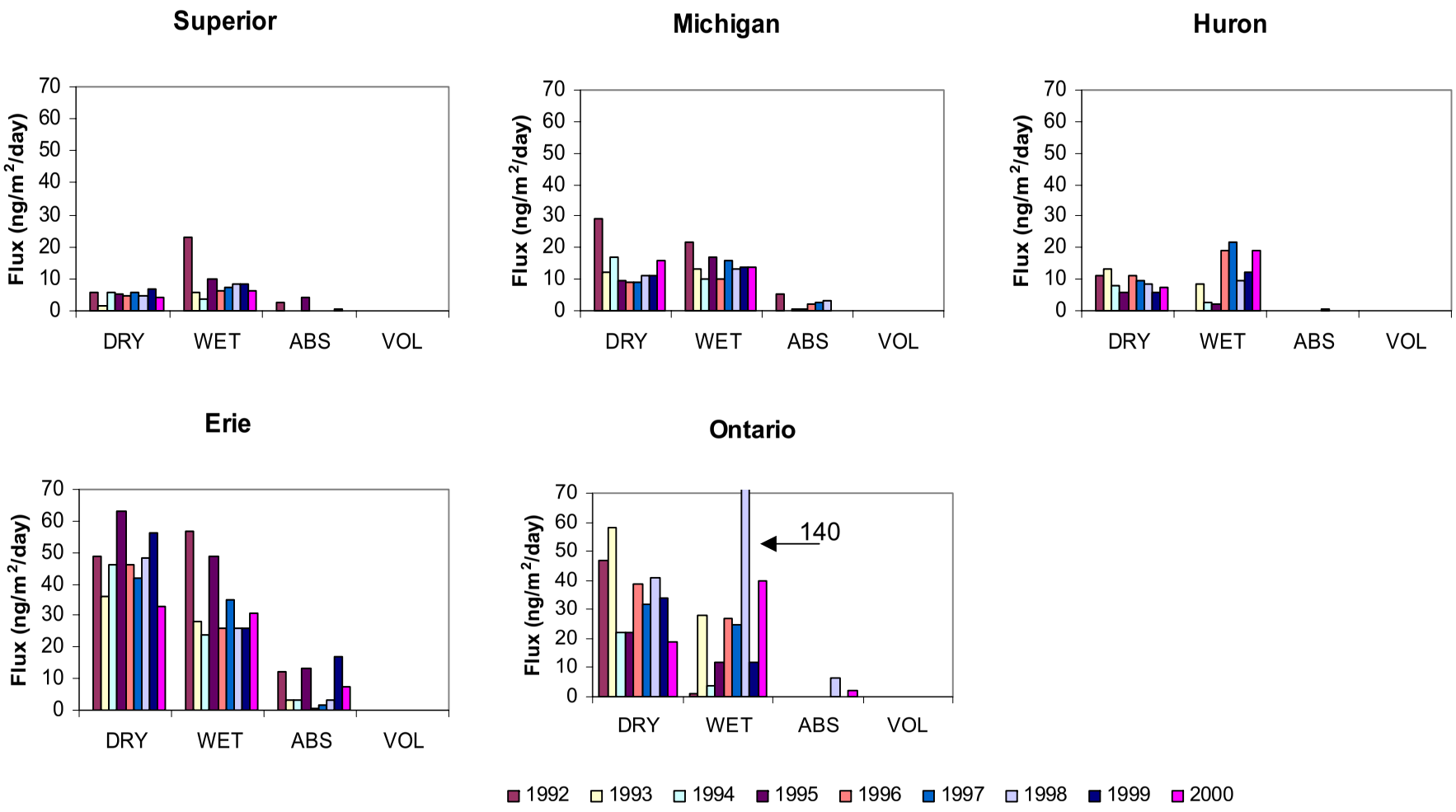


Figure C18. Annual Average Flux (ng/m^2/day) of Benzo (k) Fluoranthene + Benzo (b) Fluoranthene

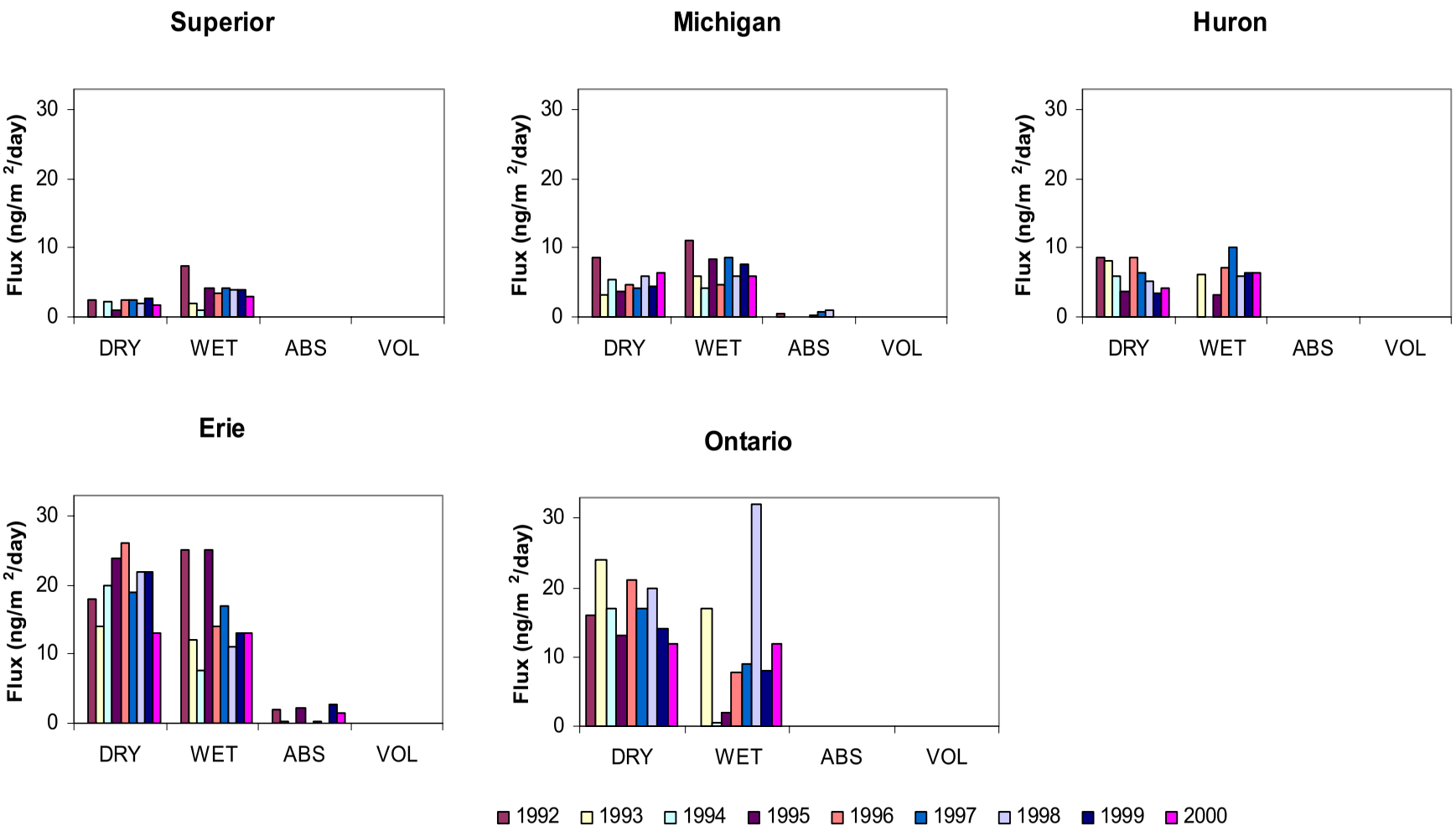


Figure C19. Annual Average Flux (ng/m^2/day) of Indeno (1,2,3) Pyrene

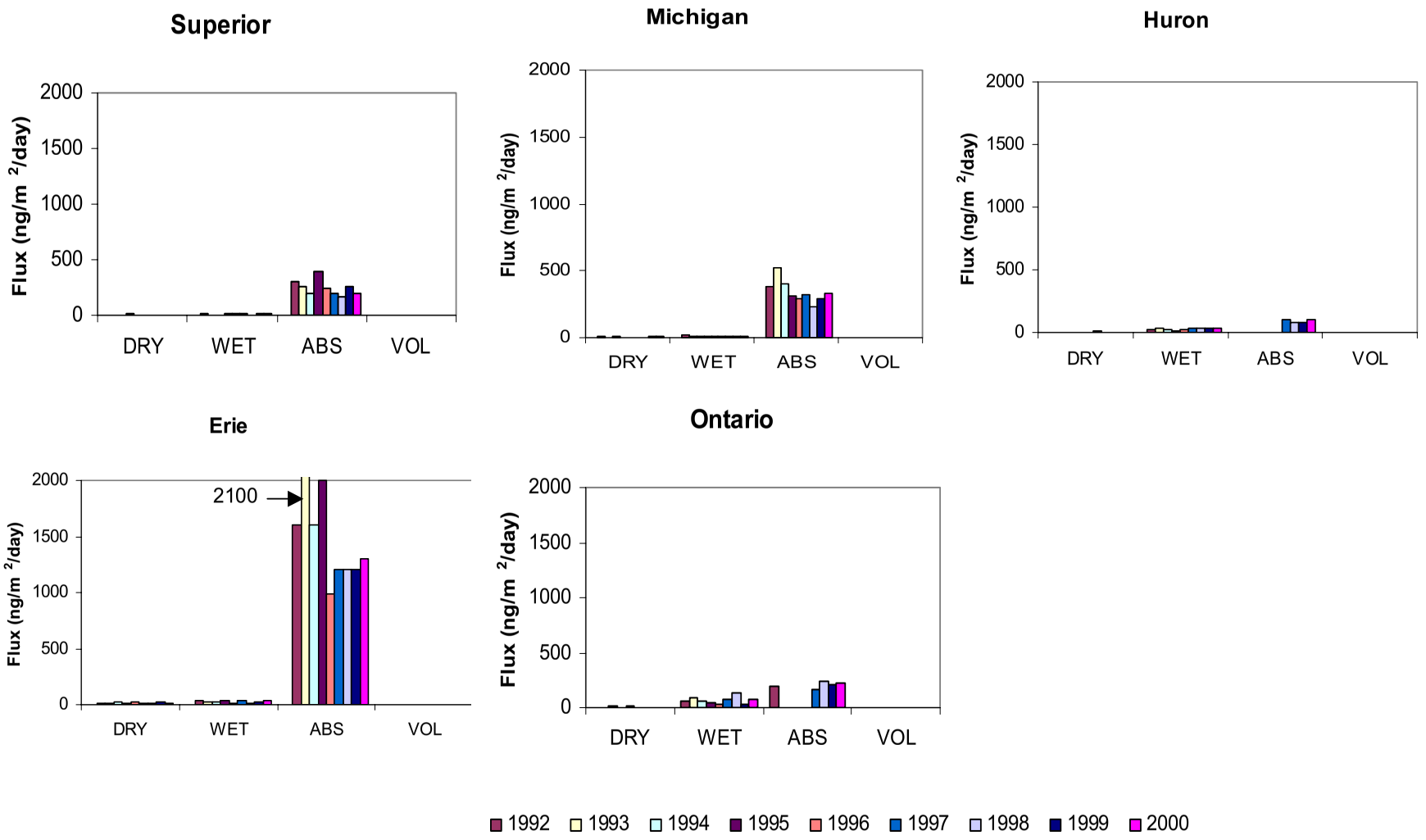


Figure C20. Annual Average Flux (ng/m^2/day) of Phenanthrene

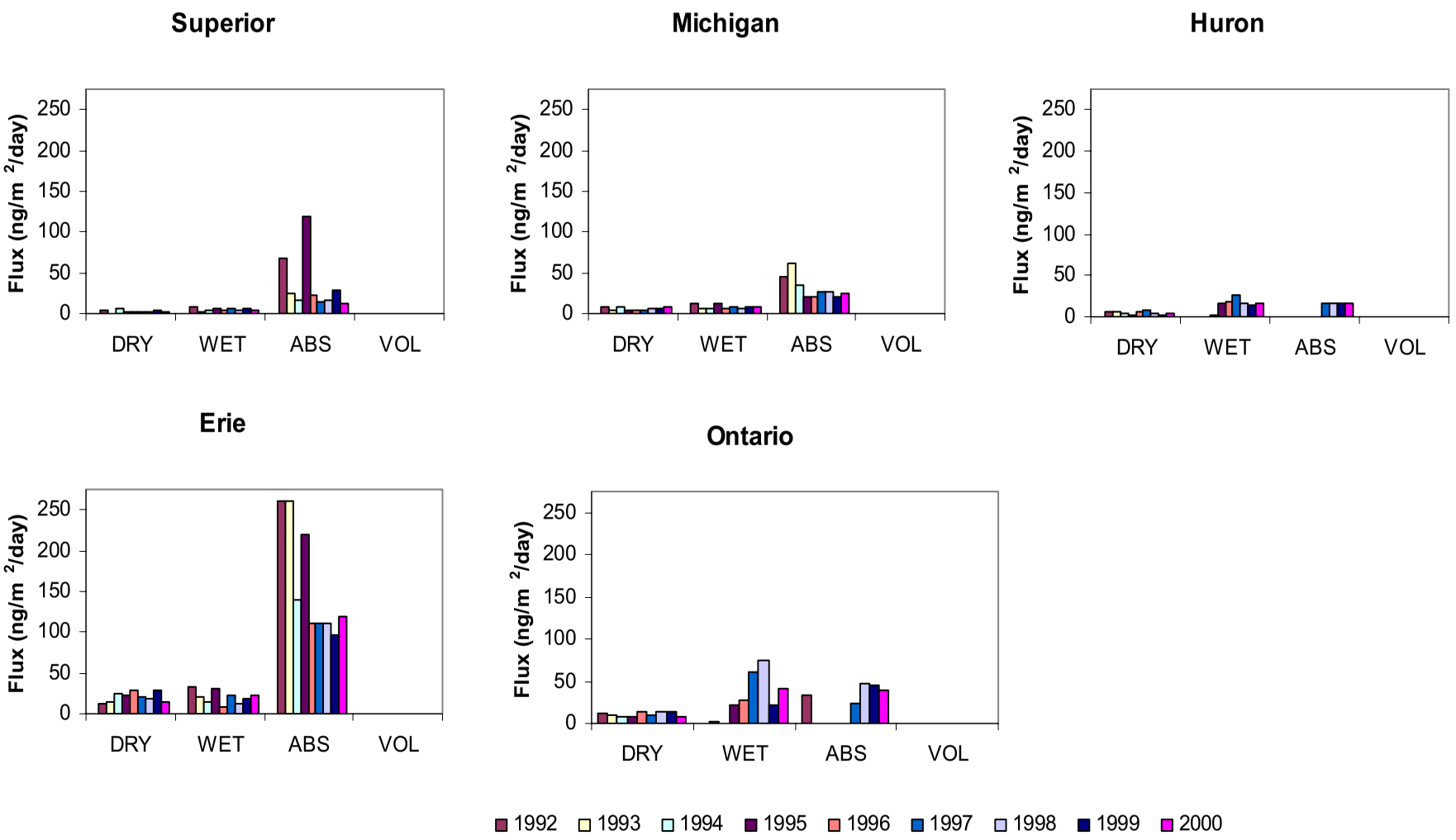


Figure C21. Annual Average Flux (ng/m^2/day) of Pyrene

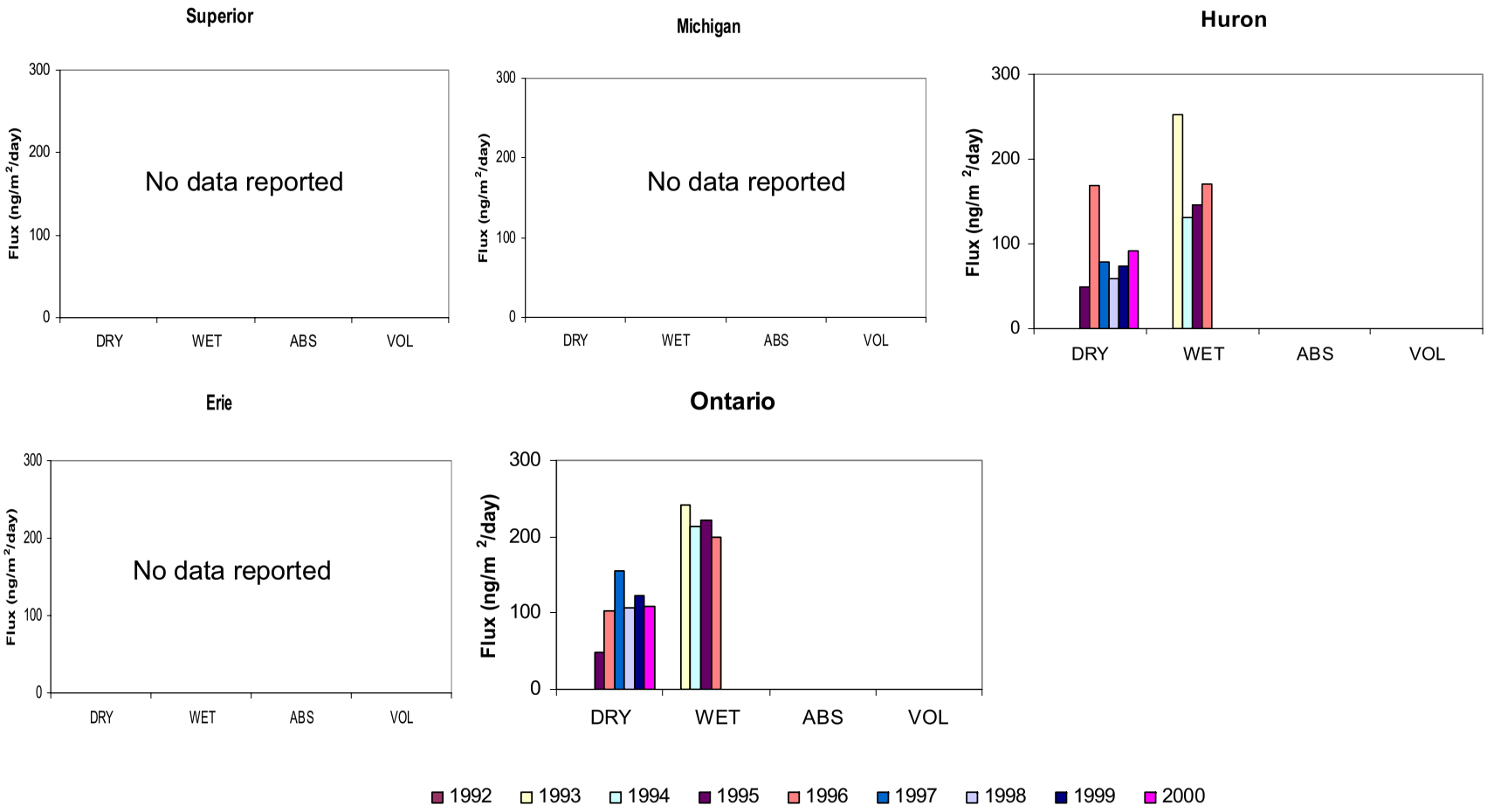


Figure C22. Annual Average Flux (ng/m^2/day) of Arsenic

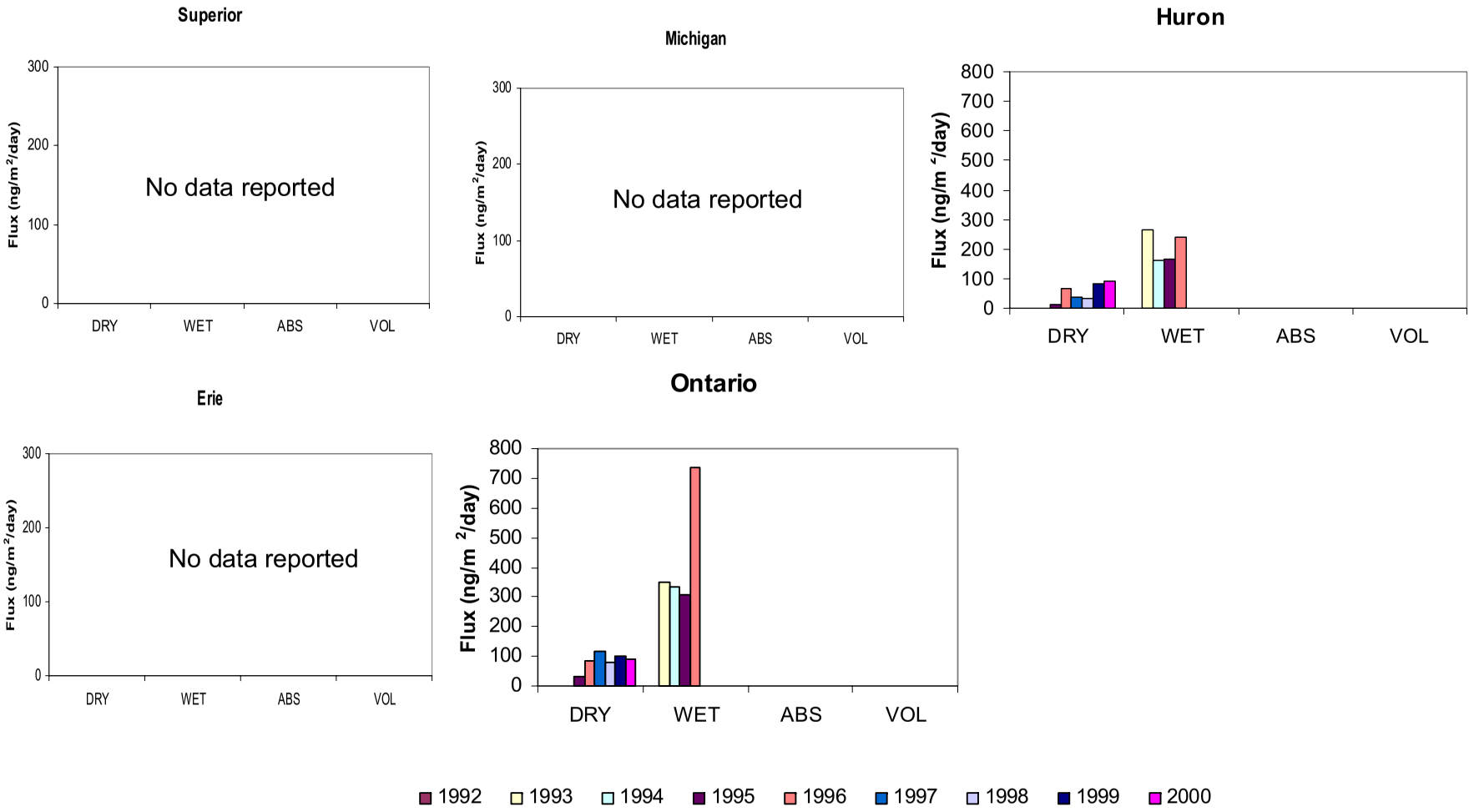


Figure C23. Annual Average Flux (ng/m^2/day) of Cadmium

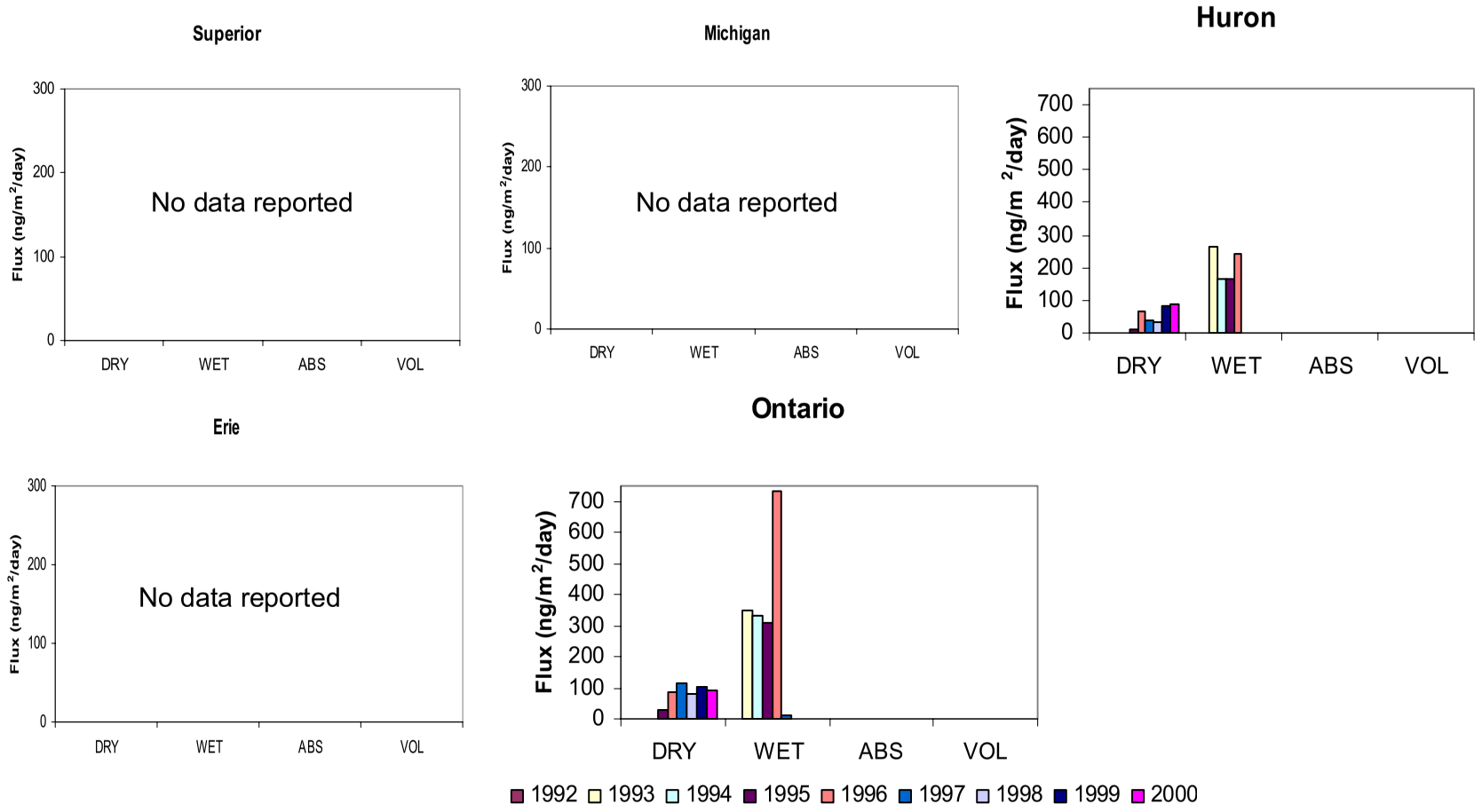


Figure C24. Annual Average Flux (ng/m^2/day) of Selenium

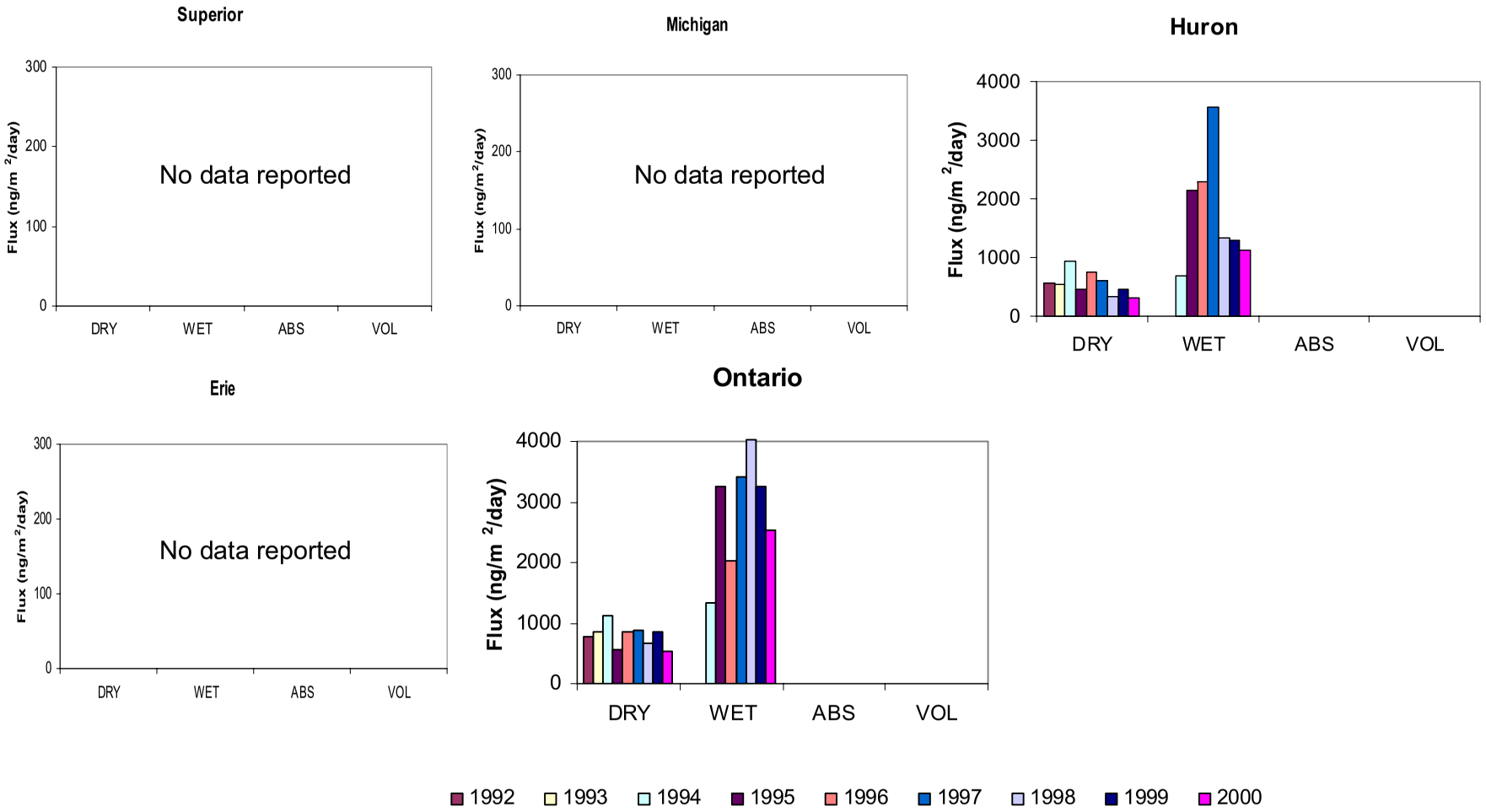


Figure C25. Annual Average Flux (ng/m^2/day) of Lead

Appendix D.

Monthly atmospheric fluxes (ng/m^2/day) for 1992-2000

α-HEXACHLOROCYCLOHEXANE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	1.7	27	55	58	.	.	5.1	27	79	58	.	.	.	.	.	.	.	.	13	27	58	58	.	.	8.6	27	16	58
1992	FEB	.	.	.	.	66	58	.	.	.	.	51	58	.	.	.	.	.	.	.	.	.	.	60	58	.	.	2.8	27	15	58
1992	MAR	.	.	1.1	27	130	58	.	.	3.0	27	63	58	.	.	.	.	.	.	.	.	4.4	27	55	58	.	.	7.2	27	22	58
1992	APR	.	.	1.3	27	140	58	.	.	2.4	27	73	58	.	.	.	.	.	.	.	.	6.6	27	170	58	.	.	9.1	27	18	58
1992	MAY	.	.	0	27	160	58	.	.	1.8	27	160	58	.	.	1.3	27	.	.	.	.	0	27	160	58	.	.	4.8	27	19	58
1992	JUN	.	.	8.5	27	26	59	.	.	2.3	27	39	58	.	.	3.1	27	.	.	.	.	0.80	27	31	59	.	.	1.8	27	18	58
1992	JUL	.	.	0.082	27	98	58	.	.	1.6	27	140	58	.	.	5.4	27	.	.	.	.	12	27	150	58	.	.	6.4	27	22	58
1992	AUG	.	.	.	27	82	58	.	.	.	27	78	58	.	.	5.8	27	.	.	.	.	2.3	27	61	58	.	.	2.8	27	20	58
1992	SEP	.	.	3.6	27	100	58	.	.	2.4	27	110	58	.	.	4.6	27	.	.	.	.	2.6	27	87	58	.	.	4.4	27	25	58
1992	OCT	.	.	.	27	79	58	.	.	1.6	27	88	58	.	.	6.9	27	.	.	.	.	.	27	100	58	.	.	5.7	27	26	58
1992	NOV	.	.	0	27	75	58	.	.	12	27	48	59	.	.	15	27	.	.	.	.	0	27	71	58	.	.	7.2	27	30	58
1992	DEC	.	.	6.2	27	.	.	.	.	3.2	27	.	.	.	.	.	.	.	.	.	.	4.7	27	.	.	.	.	5.9	27	.	.
1993	JAN	.	.	0	27	61	58	.	.	0	27	54	58	.	.	2.6	27	26	58	.	.	.	27	80	58	.	.	12	27	13	58
1993	FEB	.	.	0	27	49	58	.	.	0	27	62	58	.	.	0.50	27	14	59	.	.	3.5	27	140	58	.	.	1.6	27	13	58
1993	MAR	.	.	0.40	27	37	58	.	.	0	27	110	58	.	.	1.3	27	16	58	.	.	1.7	27	67	58	.	.	6.0	27	23	58
1993	APR	.	.	0	27	36	58	.	.	0.82	27	54	58	.	.	8.7	27	16	58	.	.	1.4	27	47	58	.	.	6.2	27	21	58
1993	MAY	.	.	0.68	27	21	58	.	.	5.1	27	48	58	.	.	4.2	27	16	58	.	.	0.65	27	79	58	.	.	2.4	27	17	58
1993	JUN	.	.	2.2	27	.	.	.	.	2.4	27	47	58	.	.	3.5	27	17	58	.	.	6.4	27	47	58	.	.	3.2	27	24	58
1993	JUL	.	.	0	27	74	58	.	.	0.97	27	47	58	.	.	1.8	27	18	58	.	.	1.0	27	88	58	.	.	1.8	27	21	58
1993	AUG	.	.	0	27	56	58	.	.	0	27	33	58	.	.	2.7	27	15	58	.	.	0.83	27	54	58	.	.	1.4	27	18	58
1993	SEP	.	.	11	27	67	58	.	.	2.5	27	65	58	.	.	4.9	27	30	58	.	.	6.4	27	99	58	.	.	6.2	27	21	58
1993	OCT	.	.	.	27	33	58	.	.	0	27	43	58	.	.	7.7	27	25	58	.	.	1.0	27	99	58	.	.	3.7	27	21	58
1993	NOV	.	.	0	27	66	58	.	.	4.3	27	86	58	.	.	5.2	27	23	58	.	.	3.3	27	81	58	.	.	12	27	31	58
1993	DEC	.	.	.	.	71	58	.	.	.	27	79	58	.	.	3.5	27	.	.	.	.	3.1	27	110	58	.	.	3.9	27	24	58
1994	JAN	.	.	0	27	26	61	.	.	.	27	40	59	.	.	4.6	27	8.4	59	.	.	4.5	27	100	59	.	.	8.1	27	20	58
1994	FEB	.	.	0	27	72	59	.	.	6.9	27	97	58	.	.	3.1	27	17	58	.	.	6.5	27	110	58	.	.	1.6	27	19	58
1994	MAR	.	.	0.87	27	34	59	.	.	0.64	27	58	59	.	.	5.1	27	26	58	.	.	1.4	27	120	58	.	.	2.7	27	27	58
1994	APR	.	.	2.4	27	62	59	.	.	6.1	27	76	59	.	.	5.0	27	24	58	.	.	8.5	27	120	58	.	.	11	27	27	58
1994	MAY	.	.	1.4	27	64	58	.	.	0.034	27	56	59	.	.	7.0	27	18	58	.	.	0	27	50	59	.	.	5.7	27	21	58
1994	JUN	.	.	1.2	27	.	.	.	.	2.4	27	41	59	.	.	3.1	27	16	58	.	.	0	27	52	59	.	.	1.6	27	21	58
1994	JUL	.	.	0.23	27	45	59	.	.	1.1	27	32	59	.	.	1.3	27	18	58	.	.	0	27	50	59	.	.	1.1	27	19	58
1994	AUG	.	.	3.0	27	130	58	.	.	1.7	27	55	59	.	.	4.0	27	26	58	.	.	3.8	27	68	58	.	.	1.8	27	21	58
1994	SEP	.	.	4.0	27	61	59	.	.	0	27	33	59	.	.	2.7	27	18	58	.	.	4.8	27	53	59	.	.	0.98	27	23	58
1994	OCT	.	.	2.7	27	130	58	.	.	15	27	80	58	.	.	2.5	27	17	58	.	.	3.8	27	72	59	.	.	1.4	27	24	58
1994	NOV	.	.	2.2	27	76	59	.	.	5.7	27	110	58	.	.	9.6	27	22	58	.	.	0	27	120	58	.	.	15	27	40	58
1994	DEC	.	.	0	27	44	58	.	.	0.22	27	39	58	.	.	1.9	27	13	58	.	.	0	27	74	58	.	.	0	27	12	58
1995	JAN	.	.	2.1	27	56	58	.	.	.	.	49	58	.	.	29	27	0	.	.	.	1.3	27	53	58	.	.	7.0	27	25	58
1995	FEB	.	.	0.023	27	60	58	.	.	.	.	50	58	.	.	0	27	21	59	.	.	7.7	27	56	58	.	.	3.5	27	22	58
1995	MAR	.	.	0.28	27	34	58	.	.	5.6	27	51	58	.	.	4.4	27	16	59	.	.	0.13	27	51	58	.	.	0	27	8.6	59
1995	APR	.	.	0	27	36	58	.	.	0.11	27	33	58	.	.	15	27	22	59	.	.	0	27	41	58	.	.	4.5	27	10	59
1995	MAY	.	.	0.10	27	43	58	.	.	0.50	27	40	58	.	.	5.3	27	14	59	.	.	6.2	27	41	58	.	.	5.8	27	16	58
1995	JUN	.	.	0.092	27	15	58	.	.	0.53	27	14	58	.	.	5.3	27	11	59	.	.	0.078	27	27	58	.	.	12	27	15	58
1995	JUL	.	.	3.3	27	47	58	.	.	0.045	27	35	58	.	.	18	27	21	58	.	.	0.63	27	55	58	.	.	2.0	27	18	58
1995	AUG	.	.	0.75	27	49	58	.	.	0.10	27	21	58	.	.	4.0	27	20	58	.	.	0.57	27	45	58	.	.	3.1	27	16	58
1995	SEP	.	.	.	.	66	58	.	.	2.7	27	29	58	.	.	3.8	27	15	59	.	.	0.12	27	42	58	.	.	2.5	27	13	58
1995	OCT	.	.	.	.	47	58	.	.	4.8	27	30	58	.	.	19	27	20	59	.	.	1.2	27	85	58	.	.	27	27	24	58
1995	NOV	.	.	1.2	27	46	58	.	.	7.7	27	55	58	.	.	17	27	8.4	61	.	.	5.7	27	70	58	.	.	27	27	29	58
1995	DEC	.	.	6.6	27	49	59	.	.	3.3	27	60	59	.	.	5.8	27	24	58	.	.	0.28	27	36	60	.	.	1.9	27	22	58
1996	JAN	.	.	0.53	27	33	58	.	.	2.8	27	34	58	.	.	11	27	11	58	.	.	1.4	27	76	58	.	.	27	27	20	58
1996	FEB	.	.	1.2	27	29	58	.	.	0	27	42	58	.	.	10	27	13	58	.	.	0	27	28	58	.	.	14	27	14	58
1996	MAR	.	.	0.35	27	48	58	.	.	0	27	40	58	.	.	3.4	27	23	58	.	.	0	27	37	58	.	.	11	27	19	58
1996	APR	.	.	3.8	27	38	58	.	.	0	27	40	58	.	.	33	27	14	58	.	.	2.2	27	40	58	.	.	3.8	27	13	58
1996	MAY	.	.	2.5	27	22	58	.	.	0	27	25	58	.	.	4.0	27	15	58	.	.	0.078	27	36	58	.	.	4.7	27	13	58
1996	JUN	.	.	2.3	27	40	58	.	.	0	27	18	58	.	.	3.0	27	9.1	58	.	.	0	27	40	58	.	.	2.6	27	13	58
1996	JUL	.	.	2.5	27	42	58	.	.	0.48	27	37	58	.	.	4.7	27	9.9	58	.	.	0	27	31	58	.	.	2.6	27	8.2	58
1996	AUG	.	.	0.085	27	32	58	.	.	0.67	27	31	58	.	.	1.6	27	12	58	.	.	0.38	27	19	58	.	.	0.83	27	13	58
1996	SEP	.	.	2.0	27	29	58	.	.	0.57	27	20	58	.	.	1.3	27	12	58	.	.	9.2	27	18	58	.	.	5.4	27	12	58
1996	OCT	.	.	0.73	27	48	58	.	.	0	27	24	58	.	.	5.0	27	12	58	.	.	0	27	26	58	.	.	6.6	27	15	58
1996	NOV	.	.	3.5	27	35	58	.	.	0	27	25	58	.	.	3.0	27	12	58	.	.	2.0	27	27	58	.	.	4.3	27	15	58
1996	DEC	.	.	2.4	27	52	58	.	.	0	27	37	58	.	.	15	27	7.8	60	.	.	5.0	27	41	58	.	.	12	27	21	58

α-HEXACHLOROCYCLOHEXANE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	4.8	27	16	58	.	.	3.3	27	16	58	.	.	1.8	27	6.3	58	.	.	0.52	27	17	58	.	.	5.1	27	10	58
1997	FEB	.	.	0.091	27	28	58	.	.	5.0	27	19	58	.	.	10	27	11	58	.	.	0.29	27	41	58	.	.	16	27	15	58
1997	MAR	.	.	1.8	27	19	58	.	.	2.1	27	18	58	.	.	1.1	27	.	.	.	.	3.0	27	27	58	.	.	4.8	27	14	58
1997	APR	.	.	0.094	27	25	58	.	.	0	27	34	58	.	.	0	27	14	58	.	.	0.23	27	30	58	.	.	2.9	27	10	58
1997	MAY	.	.	3.7	27	29	58	.	.	2.8	27	26	58	.	.	5.8	27	13	58	.	.	0	27	38	58	.	.	0.67	27	8.3	58
1997	JUN	.	.	1.8	27	36	58	.	.	0.61	27	96	58	.	.	0.68	27	14	58	.	.	0.60	27	45	58	.	.	0.29	27	12	58
1997	JUL	.	.	0.69	27	37	58	.	.	0.11	27	35	58	.	.	2.6	27	12	58	.	.	0.37	27	30	58	.	.	0.98	27	13	58
1997	AUG	.	.	0.22	27	47	58	.	.	0	27	37	58	.	.	3.8	27	15	58	.	.	0	27	39	58	.	.	3.0	27	12	58
1997	SEP	.	.	0.62	27	50	58	.	.	0.63	27	43	58	.	.	5.0	27	13	58	.	.	0.17	27	42	58	.	.	3.2	27	14	58
1997	OCT	.	.	0	27	24	58	.	.	0.36	27	21	58	.	.	4.9	27	14	58	.	.	0.19	27	19	58	.	.	2.7	27	12	58
1997	NOV	.	.	1.9	27	32	58	.	.	1.1	27	38	58	.	.	2.3	27	12	58	.	.	2.6	27	23	58	.	.	9.8	27	10	58
1997	DEC	.	.	0.43	27	23	58	.	.	2.0	27	16	58	.	.	0.79	27	7.7	59	.	.	0	27	22	58	.	.	2.0	27	9.6	58
1998	JAN	.	.	0.20	27	16	58	.	.	0.12	27	9.8	58	.	.	2.3	27	10	58	.	.	0.55	27	11	58	.	.	30	27	7.6	59
1998	FEB	.	.	0	27	15	58	.	.	0.17	27	10	58	.	.	0.57	27	8.1	58	.	.	0	27	18	58	.	.	0.67	27	6.1	59
1998	MAR	.	.	0	27	29	58	.	.	0.95	27	33	58	.	.	3.9	27	10	58	.	.	0	27	24	58	.	.	3.7	27	7.6	59
1998	APR	.	.	0.029	27	31	58	.	.	1.4	27	36	58	.	.	1.1	27	7.5	59	.	.	0.66	27	35	58	.	.	1.5	27	7.2	59
1998	MAY	.	.	0.55	27	37	58	.	.	0.27	27	41	58	.	.	3.1	27	9.7	58	.	.	0.20	27	35	58	.	.	1.3	27	13	58
1998	JUN	.	.	0.34	27	19	58	.	.	0.45	27	17	58	.	.	1.2	27	9.8	58	.	.	0.11	27	23	58	.	.	3.4	27	9.9	58
1998	JUL	.	.	0.77	27	52	58	.	.	0.80	27	53	58	.	.	1.0	27	13	58	.	.	0.38	27	68	58	.	.	2.3	27	11	58
1998	AUG	.	.	0.33	27	79	58	.	.	1.9	27	73	58	.	.	1.8	27	11	58	.	.	1.3	27	74	58	.	.	4.8	27	8.1	58
1998	SEP	.	.	0.44	27	38	58	.	.	0.22	27	30	58	.	.	1.4	27	13	58	.	.	0.11	27	35	58	.	.	1.7	27	10	58
1998	OCT	.	.	0.28	27	43	58	.	.	0.48	27	25	58	.	.	0.69	27	9.1	59	.	.	0.36	27	21	58	.	.	1.4	27	9.8	59
1998	NOV	.	.	0.51	27	41	58	.	.	0.41	27	28	58	.	.	1.4	27	9.8	59	.	.	0	27	44	58	.	.	2.2	27	10	59
1998	DEC	.	.	0	27	21	58	.	.	1.1	27	19	58	.	.	3.3	27	10	58	.	.	0.60	27	15	58	.	.	3.1	27	10	58
1999	JAN	.	.	0.41	27	21	58	.	.	0.75	27	11	58	.	.	0.98	27	6.1	58	.	.	0	27	16	58	.	.	4.6	27	8.2	58
1999	FEB	.	.	0	27	20	58	.	.	0	27	10	58	.	.	0.54	27	3.7	58	.	.	0	27	13	58	.	.	0.84	27	4.6	59
1999	MAR	.	.	0	27	20	58	.	.	0	27	11	58	.	.	0.63	27	4.4	58	.	.	0	27	17	58	.	.	0.63	27	5.9	58
1999	APR	.	.	0	27	19	58	.	.	0.14	27	11	58	.	.	1.3	27	5.1	58	.	.	0.17	27	11	58	.	.	1.4	27	7.1	58
1999	MAY	.	.	3.3	27	18	58	.	.	0	27	28	58	.	.	1.5	27	5.8	58	.	.	0.63	27	29	58	.	.	1.2	27	7.3	58
1999	JUN	.	.	1.0	27	22	58	.	.	0.82	27	29	58	.	.	1.5	27	7.2	58	.	.	0	27	35	58	.	.	1.1	27	10	58
1999	JUL	.	.	2.1	27	23	58	.	.	1.4	27	19	58	.	.	1.5	27	9.2	58	.	.	0.88	27	24	58	.	.	1.5	27	7.2	58
1999	AUG	.	.	1.5	27	35	58	.	.	0.84	27	19	58	.	.	1.3	27	7.4	58	.	.	0.54	27	26	58	.	.	0.98	27	8.2	58
1999	SEP	.	.	2.2	27	43	58	.	.	1.6	27	27	58	.	.	2.2	27	8.7	58	.	.	2.0	27	31	58	.	.	2.3	27	7.3	58
1999	OCT	.	.	5.0	27	47	58	.	.	0.70	27	25	58	.	.	1.4	27	9.3	58	.	.	1.6	27	22	58	.	.	1.4	27	9.7	58
1999	NOV	.	.	1.7	27	36	58	.	.	0.91	27	28	58	.	.	1.3	27	9.1	58	.	.	2.0	27	26	58	.	.	2.2	27	8.7	58
1999	DEC	.	.	0.74	27	46	58	.	.	1.0	27	16	58	.	.	1.7	27	9.8	59	.	.	1.1	27	29	58	.	.	1.4	27	9.7	59
2000	JAN	.	.	0	27	16	58	.	.	0	27	15	58	.	.	0.46	27	5.5	58	.	.	1.3	27	15	58	.	.	5.3	27	.	.
2000	FEB	.	.	0.66	27	18	58	.	.	1.3	27	13	58	.	.	0.56	27	4.1	58	.	.	1.8	27	12	58	.	.	0.67	27	.	.
2000	MAR	.	.	1.5	27	19	58	.	.	1.3	27	18	58	.	.	0.30	27	5.1	58	.	.	0.99	27	14	58	.	.	0.44	27	.	.
2000	APR	.	.	0.68	27	27	58	.	.	3.1	27	19	58	.	.	1.6	27	5.2	58	.	.	6.8	27	17	58	.	.	1.2	27	3.7	58
2000	MAY	.	.	1.9	27	24	58	.	.	2.3	27	22	58	.	.	2.3	27	6.8	58	.	.	2.3	27	24	58	.	.	2.0	27	7.4	58
2000	JUN	.	.	3.1	27	34	58	.	.	2.4	27	34	58	.	.	1.7	27	6.4	58	.	.	2.9	27	31	58	.	.	1.9	27	6.5	58
2000	JUL	.	.	0	27	27	58	.	.	1.2	27	16	58	.	.	0.91	27	6.2	58	.	.	1.7	27	15	58	.	.	0.61	27	6.0	58
2000	AUG	.	.	0.48	27	27	58	.	.	0.82	27	23	58	.	.	1.3	27	8.7	58	.	.	1.2	27	28	58	.	.	2.6	27	8.9	58
2000	SEP	.	.	2.5	27	50	58	.	.	3.8	27	52	58	.	.	1.7	27	11	58	.	.	1.3	27	44	58	.	.	1.6	27	8.9	58
2000	OCT	.	.	2.1	27	21	58	.	.	2.0	27	17	58	.	.	0.56	27	7.2	58	.	.	4.0	27	9.3	58	.	.	0	27	7.0	58
2000	NOV	.	.	1.6	27	14	58	.	.	1.2	27	16	58	.	.	1.5	27	6.1	58	.	.	0.73	27	19	58	.	.	2.0	27	7.2	58
2000	DEC	.	.	2.4	27	23	58	.	.	1.3	27	18	58	.	.	1.4	27	3.6	59	.	.	0.82	27	16	58	.	.	1.4	27	6.1	58

α-HEXACHLOROCYCLOHEXANE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.60	27	3.1	65	.	.	1.2	27	12	59	.	.	.	.	.	.	.	.	3.3	27	9.0	59	.	.	1.8	27	3.2	60
1992	FEB	.	.	.	.	5.8	60	.	.	.	.	7.6	59	.	.	.	.	.	.	.	.	.	.	11	59	.	.	0.67	27	2.2	62
1992	MAR	.	.	0.028	27	15	59	.	.	1.9	27	17	58	.	.	.	.	.	.	.	.	2.8	27	12	59	.	.	3.2	27	4.4	59
1992	APR	.	.	1.2	27	16	58	.	.	13	27	38	58	.	.	.	.	.	.	.	.	14	27	45	58	.	.	13	27	6.0	59
1992	MAY	.	.	0	27	65	58	.	.	7.3	27	320	58	.	.	3.4	27	.	.	.	.	0.45	27	94	58	.	.	9.8	27	13	58
1992	JUN	.	.	9.2	27	3.6	60	.	.	8.2	27	10	58	.	.	6.2	27	.	.	.	.	2	27	16	58	.	.	3.1	27	10	58
1992	JUL	.	.	0	27	14	58	.	.	5.4	27	250	58	.	.	6.5	27	.	.	.	.	14	27	38	58	.	.	6.9	27	8.9	58
1992	AUG	.	.	.	27	8.6	59	.	.	.	27	16	58	.	.	4.6	27	.	.	.	.	2.4	27	9.9	59	.	.	1.9	27	4.7	59
1992	SEP	.	.	0.52	27	9.9	59	.	.	1.6	27	34	58	.	.	4.0	27	.	.	.	.	1.4	27	10	59	.	.	3.9	27	5.9	59
1992	OCT	.	.	.	27	6.2	59	.	.	0.71	27	11	59	.	.	2.5	27	.	.	.	.	.	27	18	58	.	.	1.5	27	3.9	59
1992	NOV	.	.	0	27	5.9	60	.	.	2.7	27	4.7	60	.	.	5.2	27	.	.	.	.	0	27	6.5	59	.	.	3.7	27	4.1	60
1992	DEC	.	.	2.1	27	.	.	.	.	0.89	27	.	.	.	.	.	.	.	.	.	.	1.1	27	.	.	.	.	3.6	27	.	.
1993	JAN	.	.	0	27	4.6	62	.	.	0.57	27	4.8	61	.	.	0.58	27	3.8	58	.	.	.	27	8.2	60	.	.	0	27	2.1	59
1993	FEB	.	.	0	27	3.7	64	.	.	0	27	6.9	60	.	.	0	27	2.0	59	.	.	0	27	19	59	.	.	1.3	27	2.0	59
1993	MAR	.	.	0	27	4.9	60	.	.	0	27	10	59	.	.	2.4	27	2.1	58	.	.	0	27	7.5	60	.	.	2.1	27	3.6	58
1993	APR	.	.	0.33	27	7.4	59	.	.	1.7	27	11	59	.	.	9.9	27	2.9	58	.	.	0	27	9.0	59	.	.	6.9	27	3.9	58
1993	MAY	.	.	0	27	7.3	59	.	.	36	27	64	58	.	.	18	27	8.1	58	.	.	0	27	44	58	.	.	7.8	27	15	58
1993	JUN	.	.	2.7	27	.	.	.	.	9.8	27	58	58	.	.	9.4	27	4.7	58	.	.	12	27	45	58	.	.	12	27	18	58
1993	JUL	.	.	0	27	15	58	.	.	0	27	22	58	.	.	2.5	27	6.2	58	.	.	0.86	27	33	58	.	.	0.92	27	10	58
1993	AUG	.	.	0.14	27	6.9	59	.	.	0	27	7.9	59	.	.	2.0	27	3.9	58	.	.	2.2	27	12	59	.	.	1.1	27	5.3	58
1993	SEP	.	.	2.2	27	8.6	59	.	.	1.5	27	21	58	.	.	2.2	27	7.6	58	.	.	3.1	27	33	58	.	.	2.2	27	6.7	58
1993	OCT	.	.	.	27	6.6	60	.	.	0	27	8.6	59	.	.	1.8	27	5.2	58	.	.	1.1	27	18	59	.	.	3.1	27	3.3	58
1993	NOV	.	.	0	27	5.1	61	.	.	0	27	7.9	60	.	.	0.78	27	3.4	58	.	.	2.1	27	7.4	60	.	.	1.2	27	4.1	58
1993	DEC	.	.	.	.	5.6	60	.	.	.	27	9.7	59	.	.	0.82	27	.	.	.	.	0.72	27	9.2	59	.	.	0.83	27	3.2	58
1994	JAN	.	.	0	27	2.4	90	.	.	.	27	3.8	70	.	.	0.86	27	1.4	76	.	.	0	27	18	59	.	.	2.6	27	4.2	59
1994	FEB	.	.	0	27	7.0	62	.	.	2.6	27	14	59	.	.	1.6	27	2.5	64	.	.	0	27	13	60	.	.	0.69	27	2.9	59
1994	MAR	.	.	1.4	27	3.7	68	.	.	0	27	4.5	64	.	.	1.5	27	3.3	61	.	.	0.67	27	9.7	60	.	.	2.4	27	3.3	59
1994	APR	.	.	2.9	27	7.6	61	.	.	10	27	8.9	60	.	.	3.5	27	7.3	59	.	.	19	27	43	58	.	.	13	27	10	58
1994	MAY	.	.	1.4	27	20	59	.	.	2.6	27	220	58	.	.	13	27	9.0	59	.	.	0	27	52	58	.	.	25	27	13	58
1994	JUN	.	.	1.7	27	.	.	.	.	1.0	27	53	58	.	.	16	27	16	58	.	.	0	27	45	58	.	.	5.0	27	18	58
1994	JUL	.	.	0.24	27	13	59	.	.	0	27	28	58	.	.	3.3	27	9.6	58	.	.	0	27	29	58	.	.	1.5	27	14	58
1994	AUG	.	.	0.89	27	27	58	.	.	1.3	27	46	58	.	.	4.3	27	9.1	59	.	.	2.2	27	24	58	.	.	2.5	27	7.3	58
1994	SEP	.	.	1.8	27	9.8	59	.	.	0	27	18	59	.	.	2.2	27	3.7	60	.	.	2.3	27	8.5	60	.	.	3.7	27	6.4	58
1994	OCT	.	.	0.61	27	8.6	61	.	.	3.6	27	10	60	.	.	1.7	27	3.9	60	.	.	1.4	27	8.6	60	.	.	0.91	27	5.5	58
1994	NOV	.	.	0	27	4.3	71	.	.	0	27	7.8	62	.	.	2.8	27	3.6	62	.	.	0	27	8.6	62	.	.	4.0	27	6.7	59
1994	DEC	.	.	0	27	3.5	64	.	.	0.11	27	1.8	73	.	.	0	27	1.8	59	.	.	0	27	5.6	60	.	.	0	27	2.0	59
1995	JAN	.	.	0.42	27	4.2	60	.	.	.	.	4.1	59	.	.	3.5	27	0	.	.	.	0.29	27	6.6	59	.	.	1.9	27	3.6	61
1995	FEB	.	.	0	27	4.3	60	.	.	.	.	3.4	60	.	.	0	27	3.2	70	.	.	2.1	27	4.9	59	.	.	0.43	27	3.0	63
1995	MAR	.	.	0	27	1.9	63	.	.	2.0	27	1.6	63	.	.	1.9	27	2.1	73	.	.	0.051	27	1.2	65	.	.	0	27	1.6	66
1995	APR	.	.	0	27	5.2	59	.	.	0	27	7.2	59	.	.	7.8	27	4.0	64	.	.	0.062	27	10	58	.	.	5.3	27	4.1	60
1995	MAY	.	.	0.073	27	13	58	.	.	1.6	27	63	58	.	.	15	27	5.4	60	.	.	13	27	37	58	.	.	8.9	27	11	58
1995	JUN	.	.	0.041	27	3.6	59	.	.	1.5	27	23	58	.	.	4.9	27	4.9	60	.	.	0.16	27	12	58	.	.	0.23	27	9.3	58
1995	JUL	.	.	4.5	27	13	58	.	.	0.066	27	24	58	.	.	3.9	27	9.6	59	.	.	0.57	27	22	58	.	.	9.5	27	8.9	59
1995	AUG	.	.	0.35	27	11	58	.	.	0.12	27	26	58	.	.	2.7	27	6.2	60	.	.	0.37	27	15	58	.	.	1.1	27	5.5	59
1995	SEP	.	.	.	.	8.2	58	.	.	1.1	27	7.3	59	.	.	0.91	27	4.2	63	.	.	0.048	27	11	58	.	.	1.2	27	4.9	59
1995	OCT	.	.	.	.	6.1	59	.	.	2.2	27	5.1	59	.	.	2.3	27	3.7	67	.	.	0.23	27	14	58	.	.	6.0	27	5.8	59
1995	NOV	.	.	0.25	27	5.0	59	.	.	2.1	27	8.2	59	.	.	23	27	1.5	110	.	.	1.6	27	9.3	59	.	.	5.3	27	4.5	60
1995	DEC	.	.	2.0	27	3.7	73	.	.	0.76	27	5.3	65	.	.	0	27	3.1	63	.	.	0	27	3.3	79	.	.	0.37	27	3.5	59
1996	JAN	.	.	0.22	27	3.0	58	.	.	0.87	27	2.7	59	.	.	1.4	27	1.6	65	.	.	0.41	27	6.1	58	.	.	4.5	27	2.5	61
1996	FEB	.	.	0.38	27	1.5	59	.	.	0.22	27	4.5	58	.	.	2.1	27	1.8	63	.	.	0	27	3.0	58	.	.	0	27	1.9	62
1996	MAR	.	.	0.069	27	6.0	58	.	.	0.040	27	5.1	58	.	.	1.2	27	2.9	60	.	.	0	27	4.5	58	.	.	0.063	27	2.7	60
1996	APR	.	.	0	27	5.3	58	.	.	0	27	8.3	58	.	.	16	27	2.9	60	.	.	0.49	27	11	58	.	.	7.2	27	3.9	59
1996	MAY	.	.	3.8	27	6.0	58	.	.	0	27	13	58	.	.	13	27	7.3	58	.	.	0.18	27	21	58	.	.	5.9	27	9.8	58
1996	JUN	.	.	3.1	27	21	58	.	.	0.53	27	29	58	.	.	3.6	27	8.5	58	.	.	0.11	27	53	58	.	.	8.2	27	21	58
1996	JUL	.	.	1.8	27	10	58	.	.	0.51	27	14	58	.	.	7.2	27	4.4	59	.	.	0	27	21	58	.	.	2.9	27	5.4	59
1996	AUG	.	.	0.021	27	6.4	58	.	.	0	27	15	58	.	.	1.5	27	3.6	59	.	.	0	27	9.6	58	.	.	0.83	27	6.3	58
1996	SEP	.	.	0	27	5.2	58	.	.	0	27	6.1	58	.	.	4.3	27	2.6	60	.	.	0	27	6.2	58	.	.	2.4	27	3.3	59
1996	OCT	.	.	0.31	27	7.0	58	.	.	0.021	27	7.7	58	.	.	3.8	27	3.7	60	.	.	0	27	7.6	58	.	.	4.8	27	3.1	60
1996	NOV	.	.	0.71	27	5.4	58	.	.	0.032	27	3.6	58	.	.	1.8	27	2.5	61	.	.	0.19	27	3.7	58	.	.	5.6	27	3.1	60
1996	DEC	.	.	0.85	27	5.0	59	.	.	0	27	3.2	60	.	.	1.2	27	1.2	100	.	.	3.0	27	3.5	60	.	.	1.3	27	3.1	62

α-HEXACHLOROCYCLOHEXANE (ng/m ^{2}/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	1.3	27	1.1	59	.	.	1.0	27	2.2	58	.	.	1.1	27	0.93	78	.	.	0.22	27	2.1	59	.	.	3.9	27	1.8	59
1997	FEB	.	.	0.017	27	3.2	58	.	.	1.8	27	2.3	58	.	.	18	27	1.7	64	.	.	0.17	27	8.8	58	.	.	39	27	2.7	58
1997	MAR	.	.	2.0	27	2.3	58	.	.	1.3	27	2.5	58	.	.	1.7	27	.	.	.	.	2.3	27	5.0	58	.	.	1.2	27	3.0	58
1997	APR	.	.	0.31	27	6.6	58	.	.	0.26	27	12	58	.	.	5.6	27	5.8	59	.	.	0.55	27	9.5	58	.	.	7.5	27	3.3	58
1997	MAY	.	.	5.0	27	19	58	.	.	10	27	81	58	.	.	20	27	9.2	58	.	.	0.71	27	42	58	.	.	19	27	7.3	58
1997	JUN	.	.	3.2	27	18	58	.	.	2.7	27	39	58	.	.	4.1	27	11	58	.	.	2.2	27	40	58	.	.	11	27	15	58
1997	JUL	.	.	1.0	27	21	58	.	.	0.14	27	22	58	.	.	3.4	27	6.9	59	.	.	0.59	27	21	58	.	.	0.68	27	11	58
1997	AUG	.	.	0.12	27	7.2	58	.	.	0.25	27	15	58	.	.	3.3	27	6.1	59	.	.	0.30	27	11	58	.	.	3.7	27	4.4	58
1997	SEP	.	.	0.31	27	9.1	58	.	.	0.48	27	18	58	.	.	5.9	27	4.0	59	.	.	0.32	27	14	58	.	.	3.4	27	5.2	58
1997	OCT	.	.	0.39	27	7.0	58	.	.	0.29	27	7.8	58	.	.	2.4	27	3.8	60	.	.	0.098	27	9.1	58	.	.	1.6	27	3.7	58
1997	NOV	.	.	0.65	27	5.3	58	.	.	0.46	27	6.1	58	.	.	0.86	27	2.7	61	.	.	1.1	27	6.7	58	.	.	5.5	27	2.2	58
1997	DEC	.	.	0.082	27	3.0	58	.	.	0.85	27	2.8	58	.	.	1.4	27	1.3	68	.	.	0	27	3.5	58	.	.	2.5	27	2.1	62
1998	JAN	.	.	0.32	27	2.9	59	.	.	0.42	27	3.9	58	.	.	4.8	27	1.7	64	.	.	0.23	27	1.9	59	.	.	55	27	1.6	59
1998	FEB	.	.	0	27	2.3	59	.	.	0.39	27	1.8	59	.	.	33	27	1.7	62	.	.	0.059	27	2.6	59	.	.	2.8	27	1.3	59
1998	MAR	.	.	0.011	27	4.5	58	.	.	0.74	27	6.5	58	.	.	4.3	27	2.9	60	.	.	0	27	5.6	58	.	.	3.6	27	2.6	59
1998	APR	.	.	0.025	27	7.3	58	.	.	3.0	27	35	58	.	.	4.2	27	6.5	59	.	.	0.35	27	15	58	.	.	3.0	27	5.9	58
1998	MAY	.	.	2.5	27	11	58	.	.	0.25	27	64	58	.	.	18	27	8.2	58	.	.	0.14	27	39	58	.	.	8.5	27	22	58
1998	JUN	.	.	0.38	27	12	58	.	.	0.80	27	14	58	.	.	3.7	27	7.2	58	.	.	0.32	27	22	58	.	.	11	27	9.6	58
1998	JUL	.	.	0.024	27	9.1	58	.	.	0.043	27	20	58	.	.	1.9	27	4.5	59	.	.	0.11	27	23	58	.	.	5.1	27	6.4	58
1998	AUG	.	.	0.041	27	11	58	.	.	0.099	27	10	58	.	.	2.0	27	3.7	59	.	.	0.078	27	17	58	.	.	4.6	27	4.1	58
1998	SEP	.	.	0.58	27	6.3	58	.	.	0.21	27	10	58	.	.	1.2	27	3.3	59	.	.	0.14	27	14	58	.	.	2.7	27	4.6	58
1998	OCT	.	.	0.11	27	5.4	58	.	.	0.27	27	4.3	58	.	.	1.1	27	2.2	62	.	.	0.12	27	7.0	58	.	.	2.2	27	2.8	59
1998	NOV	.	.	0.18	27	3.9	59	.	.	0.28	27	3.2	59	.	.	1.4	27	2.2	62	.	.	0	27	7.9	58	.	.	2.3	27	3.0	59
1998	DEC	.	.	0.24	27	3.9	58	.	.	0.45	27	3.6	58	.	.	3.0	27	1.8	65	.	.	0.044	27	4.1	58	.	.	2.1	27	1.9	59
1999	JAN	.	.	0.21	27	2.3	59	.	.	0.099	27	2.0	59	.	.	0.93	27	1.4	61	.	.	0	27	4.8	58	.	.	9.7	27	2.3	59
1999	FEB	.	.	0	27	3.6	58	.	.	0.11	27	2.9	58	.	.	1.0	27	1.4	60	.	.	0.12	27	4.6	58	.	.	1.1	27	2.0	59
1999	MAR	.	.	0.005	27	2.9	58	.	.	0.022	27	7.6	58	.	.	1.8	27	1.1	62	.	.	0.13	27	3.6	58	.	.	5.1	27	1.6	59
1999	APR	.	.	0	27	3.6	58	.	.	0.021	27	5.5	58	.	.	3.3	27	2.0	59	.	.	0.049	27	5.4	58	.	.	3.3	27	4.0	58
1999	MAY	.	.	13	27	33	58	.	.	0.21	27	110	58	.	.	7.1	27	19	58	.	.	5.1	27	55	58	.	.	5.3	27	22	58
1999	JUN	.	.	2.8	27	28	58	.	.	3.4	27	57	58	.	.	3.2	27	12	58	.	.	0.22	27	23	58	.	.	3.3	27	13	58
1999	JUL	.	.	2.4	27	21	58	.	.	2.3	27	23	58	.	.	3.8	27	7.0	58	.	.	1.4	27	14	58	.	.	3.4	27	8.2	58
1999	AUG	.	.	1.1	27	7.5	58	.	.	0.83	27	9.9	58	.	.	1.8	27	3.5	58	.	.	0.96	27	8.6	58	.	.	1.9	27	3.2	58
1999	SEP	.	.	1.5	27	6.3	58	.	.	1.1	27	14	58	.	.	1.8	27	3.5	59	.	.	1.5	27	14	58	.	.	2.7	27	4.4	58
1999	OCT	.	.	2.8	27	8.0	58	.	.	0.54	27	12	58	.	.	1.9	27	4.3	59	.	.	1.4	27	9.8	58	.	.	1.7	27	5.1	58
1999	NOV	.	.	0.46	27	6.0	58	.	.	0.42	27	3.1	58	.	.	1.3	27	2.2	60	.	.	0.86	27	5.1	58	.	.	3.3	27	3.4	59
1999	DEC	.	.	0.19	27	4.8	58	.	.	0.38	27	2.3	59	.	.	1.5	27	2.3	63	.	.	0.69	27	5.3	58	.	.	1.5	27	2.4	59
2000	JAN	.	.	0	27	2.1	60	.	.	0	27	3.0	59	.	.	0.58	27	1.8	65	.	.	0.34	27	3.6	59	.	.	3.9	27	.	.
2000	FEB	.	.	0.17	27	3.1	59	.	.	0.65	27	5.3	59	.	.	0.78	27	1.5	66	.	.	0.78	27	2.9	59	.	.	2.6	27	.	.
2000	MAR	.	.	0.75	27	3.3	59	.	.	0.67	27	3.9	59	.	.	0.55	27	2.0	61	.	.	1.5	27	5.3	58	.	.	1.5	27	.	.
2000	APR	.	.	1.9	27	26	58	.	.	6.9	27	11	58	.	.	8.0	27	2.4	60	.	.	10	27	7.0	58	.	.	3.3	27	2.5	63
2000	MAY	.	.	6.2	27	22	58	.	.	11	27	57	58	.	.	8.6	27	11	58	.	.	6.3	27	63	58	.	.	11	27	22	58
2000	JUN	.	.	4.0	27	21	58	.	.	2.3	27	16	58	.	.	5.5	27	4.7	59	.	.	5.6	27	43	58	.	.	5.9	27	12	58
2000	JUL	.	.	0	27	6.5	58	.	.	0.62	27	8.1	58	.	.	1.9	27	2.5	59	.	.	1.9	27	7.6	58	.	.	2.0	27	5.7	59
2000	AUG	.	.	0.28	27	3.5	59	.	.	1.1	27	5.8	58	.	.	1.8	27	3.3	59	.	.	1.7	27	6.2	58	.	.	4.7	27	4.9	59
2000	SEP	.	.	1.1	27	4.9	59	.	.	2.3	27	5.6	58	.	.	2.5	27	4.4	59	.	.	1.5	27	9.0	58	.	.	1.7	27	4.6	59
2000	OCT	.	.	0.45	27	3.8	59	.	.	0.59	27	5.6	58	.	.	0.54	27	2.1	61	.	.	1.5	27	5.3	58	.	.	0	27	2.3	63
2000	NOV	.	.	1.0	27	2.8	59	.	.	0.74	27	3.3	59	.	.	0.78	27	3.4	59	.	.	0.59	27	6.4	58	.	.	2.3	27	3.0	62
2000	DEC	.	.	0.55	27	3.4	58	.	.	0.30	27	3.0	58	.	.	1.3	27	1.5	61	.	.	0.30	27	2.6	59	.	.	2.4	27	1.7	59

DIELDRIN (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.60	27	0.90	66	.	.	1.5	27	10	58	.	.	.	.	.	.	.	.	3.3	27	4.5	59	.	.	1.0	27	1.3	61
1992	FEB	.	.	.	.	1.8	60	.	.	.	.	5.7	58	.	.	.	.	.	.	.	.	.	.	4.2	59	.	.	0.95	27	1.5	60
1992	MAR	.	.	0.47	27	4.7	59	.	.	1.8	27	6.9	58	.	.	.	.	.	.	.	.	2.5	27	2.6	59	.	.	1.3	27	3.3	59
1992	APR	.	.	0.60	27	3.2	59	.	.	4.1	27	15	58	.	.	.	.	.	.	.	.	4.0	27	12	58	.	.	2.3	27	2.8	59
1992	MAY	.	.	0	27	8.1	58	.	.	2.8	27	8.8	58	.	.	0.24	27	.	.	.	.	1.1	27	12	58	.	.	1.4	27	2.7	59
1992	JUN	.	.	0.53	27	1.1	500	.	.	1.8	27	2.8	170	.	.	1.8	27	.	.	.	.	2.8	27	3.4	140	.	.	0.78	27	4.2	58
1992	JUL	.	.	0	27	2.4	220	.	.	2.2	27	11	71	.	.	1.0	27	.	.	.	.	3.8	27	23	63	.	.	2.9	27	8.1	58
1992	AUG	.	.	.	.	8.4	88	.	.	.	.	8.4	88	.	.	0.50	27	.	.	.	.	1.5	27	9.9	79	.	.	1.1	27	5.9	58
1992	SEP	.	.	1.9	27	15	79	.	.	2.2	27	20	68	.	.	1.1	27	.	.	.	.	2.9	27	8.3	110	.	.	0.63	27	6.1	58
1992	OCT	.	.	.	.	3.3	220	.	.	0.84	27	5.8	150	.	.	0	27	.	.	.	.	.	.	5.5	160	.	.	0.46	27	2.6	59
1992	NOV	.	.	7.7	27	4.2	230	.	.	4.1	27	3.2	280	.	.	1.9	27	.	.	.	.	6.0	27	13	91	.	.	1.2	27	5.2	58
1992	DEC	.	.	2.5	27	.	.	.	.	5.5	27	.	.	.	.	.	.	.	.	.	.	1.3	27	.	.	.	.	2.0	27	.	.
1993	JAN	.	.	0	27	2.0	83	.	.	0	27	3.7	64	.	.	0.67	27	2.4	61	.	.	.	.	9.8	60	.	.	1.2	27	3.7	59
1993	FEB	.	.	0	27	2.3	74	.	.	1.1	27	4.4	63	.	.	0.52	27	1.1	68	.	.	2.5	27	6.1	61	.	.	0.90	27	0.89	61
1993	MAR	.	.	1.7	27	2.5	68	.	.	0	27	5.4	60	.	.	0.41	27	0.89	69	.	.	0	27	3.0	67	.	.	0.43	27	1.1	60
1993	APR	.	.	0.95	27	1.4	86	.	.	4.2	27	1.9	76	.	.	1.0	27	1.1	65	.	.	2.3	27	5.3	60	.	.	1.3	27	2.4	59
1993	MAY	.	.	4.0	27	1.7	72	.	.	3.8	27	8.6	59	.	.	1.3	27	3.6	59	.	.	1.4	27	9.8	59	.	.	0.82	27	5.8	58
1993	JUN	.	.	4.8	27	.	.	.	.	8.1	27	23	58	.	.	2.2	27	9.9	58	.	.	10	27	43	58	.	.	2.7	27	30	58
1993	JUL	.	.	0	27	7.8	59	.	.	0	27	11	58	.	.	0.72	27	4.5	58	.	.	0	27	18	58	.	.	0.31	27	8.9	58
1993	AUG	.	.	0	27	4.7	59	.	.	1.2	27	4.4	59	.	.	0.73	27	2.2	59	.	.	1.4	27	8.8	58	.	.	0.24	27	4.6	58
1993	SEP	.	.	0.99	27	5.7	60	.	.	2.4	27	22	58	.	.	1.2	27	8.9	58	.	.	1.8	27	15	59	.	.	1.5	27	6.8	58
1993	OCT	.	.	.	.	2.7	68	.	.	0	27	11	59	.	.	0.86	27	5.6	59	.	.	2.9	27	12	59	.	.	0.18	27	2.4	59
1993	NOV	.	.	0	27	2.2	75	.	.	3.5	27	6.5	60	.	.	1.2	27	3.8	59	.	.	4.0	27	4.9	62	.	.	0.87	27	6.6	58
1993	DEC	.	.	.	.	6.1	170	.	.	.	.	6.3	150	.	.	0.85	27	.	.	.	.	0.6	27	9.9	130	.	.	0.65	27	2.8	59
1994	JAN	.	.	0	27	0.92	1300	.	.	.	.	1.2	940	.	.	1.5	27	0.34	85	.	.	1.2	27	9.3	160	.	.	0.54	27	1.0	59
1994	FEB	.	.	0	27	0.48	2200	.	.	8.5	27	11	110	.	.	0.93	27	1.7	60	.	.	0	27	3.3	370	.	.	0.33	27	0.52	62
1994	MAR	.	.	0	27	0	.	.	.	1.0	27	0.47	1800	.	.	0.63	27	0.91	61	.	.	1.7	27	4.8	220	.	.	1.2	27	1.9	58
1994	APR	.	.	0.86	27	0.76	1300	.	.	0.79	27	15	85	.	.	0.51	27	6.1	58	.	.	3.1	27	14	95	.	.	1.2	27	15	58
1994	MAY	.	.	0	27	2.6	280	.	.	2.2	27	7.5	120	.	.	0.42	27	1.5	59	.	.	0	27	19	76	.	.	1.3	27	5.3	58
1994	JUN	.	.	1.9	27	.	.	.	.	0.87	27	8.3	77	.	.	0.72	27	3.9	58	.	.	0	27	15	66	.	.	0.44	27	11	58
1994	JUL	.	.	1.1	27	6.0	88	.	.	0	27	16	65	.	.	1.2	27	7.9	58	.	.	0.12	27	15	66	.	.	0.35	27	11	58
1994	AUG	.	.	0.81	27	12	70	.	.	2.0	27	19	64	.	.	1.0	27	7.7	58	.	.	1.2	27	13	71	.	.	0.62	27	6.0	58
1994	SEP	.	.	0.46	27	6.4	110	.	.	0.31	27	2.6	240	.	.	0.44	27	2.1	59	.	.	1.1	27	6.7	130	.	.	0	27	4.6	58
1994	OCT	.	.	0.42	27	10	110	.	.	3.8	27	7.0	130	.	.	0.23	27	2.3	59	.	.	0.75	27	8.1	110	.	.	0.27	27	4.0	58
1994	NOV	.	.	1.3	27	0.77	1600	.	.	2.8	27	13	100	.	.	0.96	27	4.9	58	.	.	0.14	27	6.8	190	.	.	0.65	27	9.0	58
1994	DEC	.	.	0	27	2.9	68	.	.	0.41	27	9.9	59	.	.	0.45	27	2.9	59	.	.	0	27	13	59	.	.	0	27	5.8	58
1995	JAN	.	.	0.38	27	1.1	67	.	.	.	.	0.65	75	.	.	0.33	27	0	.	.	.	1.6	27	2.6	60	.	.	0.75	27	2.7	60
1995	FEB	.	.	0.19	27	0.15	260	.	.	.	.	0.55	82	.	.	0	27	1.5	100	.	.	0.78	27	2.1	61	.	.	0	27	1.8	64
1995	MAR	.	.	0.45	27	0.17	180	.	.	1.7	27	0.3	100	.	.	1.0	27	0.88	120	.	.	1.7	27	3.4	59	.	.	0	27	1.2	64
1995	APR	.	.	0.47	27	0.93	65	.	.	3.9	27	2.2	60	.	.	2.1	27	1.1	110	.	.	2.6	27	6.8	58	.	.	0.62	27	5.7	59
1995	MAY	.	.	1.1	27	4.7	58	.	.	3.6	27	42	58	.	.	1.1	27	1.3	82	.	.	2.7	27	10	58	.	.	0.29	27	3.1	59
1995	JUN	.	.	0.52	27	1.3	60	.	.	1.1	27	1.8	59	.	.	0.48	27	1.2	76	.	.	0.51	27	3.7	58	.	.	0	27	2.5	59
1995	JUL	.	.	1.2	27	8.6	58	.	.	1.9	27	17	58	.	.	0.98	27	5.1	59	.	.	1.3	27	19	58	.	.	0.14	27	8.3	58
1995	AUG	.	.	0.65	27	7.9	58	.	.	0.89	27	4.7	58	.	.	0.66	27	3.8	60	.	.	0.80	27	6.1	58	.	.	3.4	27	4.0	58
1995	SEP	.	.	.	.	3.5	59	.	.	0.67	27	6.3	58	.	.	0	27	4.2	61	.	.	0.36	27	10	58	.	.	0	27	3.8	59
1995	OCT	.	.	.	.	2.9	59	.	.	3.4	27	2.8	59	.	.	0.30	27	2.1	78	.	.	1.8	27	16	58	.	.	3.0	27	5.3	59
1995	NOV	.	.	2.2	27	0.14	250	.	.	3.3	27	0.40	99	.	.	3.2	27	0.39	320	.	.	3.5	27	0.87	70	.	.	0	27	3.4	60
1995	DEC	.	.	4.7	27	0.62	2000	.	.	0.80	27	6.0	200	.	.	0	27	2.3	59	.	.	1.7	27	3.6	370	.	.	0.22	27	3.2	58
1996	JAN	.	.	1.5	27	0.92	61	.	.	1.5	27	0.70	62	.	.	0.32	27	1.4	58	.	.	0.88	27	1.9	59	.	.	0.23	27	1.8	58
1996	FEB	.	.	0.13	27	0.048	310	.	.	1.4	27	1.0	60	.	.	1.8	27	0.44	60	.	.	0	27	0.61	63	.	.	0.94	27	0.67	59
1996	MAR	.	.	0.18	27	0.33	72	.	.	0.56	27	0.70	62	.	.	0.68	27	2.0	58	.	.	0	27	0.12	140	.	.	1.1	27	0.62	59
1996	APR	.	.	0.65	27	0.50	63	.	.	0	27	0.52	63	.	.	1.7	27	0.68	59	.	.	3.8	27	2.7	59	.	.	1.0	27	2.1	58
1996	MAY	.	.	0.71	27	0.68	60	.	.	0	27	2.7	58	.	.	0.99	27	1.6	58	.	.	0.89	27	18	58	.	.	2.7	27	5.4	58
1996	JUN	.	.	0.71	27	8.3	58	.	.	2.5	27	8.1	58	.	.	3.9	27	2.6	58	.	.	2.1	27	7.6	58	.	.	1.1	27	4.1	58
1996	JUL	.	.	0.69	27	5.7	58	.	.	1.1	27	7.3	58	.	.	5.6	27	1.4	58	.	.	0.62	27	5.9	58	.	.	1.4	27	2.8	58
1996	AUG	.	.	0.12	27	3.5	58	.	.	0.28	27	9.0	58	.	.	1.2	27	2.7	58	.	.	0.13	27	5.4	58	.	.	0.86	27	4.2	58
1996	SEP	.	.	0.94	27	4.6	58	.	.	0.12	27	4.3	58	.	.	5.2	27	1.6	58	.	.	0.16	27	3.7	58	.	.	3.0	27	1.7	58
1996	OCT	.	.	0.61	27	5.8	58	.	.	0.22	27	9.1	58	.	.	2.1	27	6.2	58	.	.	0.23	27	7.6	58	.	.	3.0	27	5.5	58
1996	NOV	.	.	0.95	27	3.4	58	.	.	0.59	27	6.4	58	.	.	1.4	27	3.9	58	.	.	3.0	27	2.8	59	.	.	2.4	27	1.7	58
1996	DEC	.	.	1.1	27	0.44	89	.	.	6.2	27	0.81	67	.	.	0.94	27	0.75	140	.	.	12	27	1.9	61	.	.	1.3	27	1.6	64

DIELDRIN (ng/m^2/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	1.4	27	0.15	170	.	.	1.2	27	2.4	59	.	.	2.2	27	0.37	81	.	.	0.38	27	2.3	59	.	.	2.6	27	2.0	61
1997	FEB	.	.	0.32	27	0.12	160	.	.	1.9	27	0.67	62	.	.	3.5	27	0.82	63	.	.	1.2	27	4.1	59	.	.	5.1	27	2.2	60
1997	MAR	.	.	0.91	27	0.030	550	.	.	0.85	27	0.64	63	.	.	0.19	27	.	.	.	.	1.6	27	8.8	58	.	.	0.32	27	3.0	59
1997	APR	.	.	0.070	27	0.84	61	.	.	0.53	27	1.3	59	.	.	0.24	27	1.1	60	.	.	1.4	27	2.5	59	.	.	0.31	27	1.3	61
1997	MAY	.	.	0.41	27	0.81	61	.	.	1.1	27	1.7	59	.	.	1.1	27	1.4	60	.	.	2.2	27	6.9	58	.	.	0.50	27	2.3	59
1997	JUN	.	.	0.48	27	3.6	58	.	.	1.6	27	14	58	.	.	0.76	27	9.6	58	.	.	1.4	27	23	58	.	.	0.43	27	7.2	58
1997	JUL	.	.	0.75	27	4.5	58	.	.	0.43	27	11	58	.	.	2.9	27	3.6	58	.	.	0.39	27	19	58	.	.	0.13	27	9.8	58
1997	AUG	.	.	0.072	27	5.9	58	.	.	1.1	27	9.7	58	.	.	2.1	27	3.4	58	.	.	0.59	27	9.7	58	.	.	0.44	27	3.2	58
1997	SEP	.	.	0.52	27	6.3	58	.	.	0.72	27	12	58	.	.	0.65	27	3.8	58	.	.	0.76	27	9.3	58	.	.	0.15	27	4.3	58
1997	OCT	.	.	0.93	27	7.9	58	.	.	1.1	27	17	58	.	.	0.34	27	5.4	58	.	.	0.52	27	8.5	58	.	.	0	27	3.8	59
1997	NOV	.	.	0.54	27	0.21	99	.	.	0.62	27	0.20	95	.	.	0.32	27	1.1	61	.	.	1.4	27	0.65	66	.	.	0.33	27	0.97	64
1997	DEC	.	.	0.36	27	0.24	83	.	.	0.90	27	0.94	60	.	.	1.3	27	1.4	58	.	.	0.19	27	1.9	59	.	.	1.3	27	2.0	58
1998	JAN	.	.	0.48	27	0.15	170	.	.	1.8	27	0.79	63	.	.	1.7	27	0.86	61	.	.	1.1	27	1.0	63	.	.	6.3	27	1.5	60
1998	FEB	.	.	0	27	2.3	59	.	.	0.42	27	3.3	59	.	.	0.47	27	1.5	59	.	.	0.24	27	2.6	59	.	.	0.16	27	0.94	62
1998	MAR	.	.	0.81	27	0.31	94	.	.	1.8	27	1.0	62	.	.	0.048	27	0.96	60	.	.	0.64	27	0.71	69	.	.	0.7	27	0.78	66
1998	APR	.	.	0.050	27	0.70	64	.	.	1.4	27	3.3	59	.	.	0.40	27	1.5	59	.	.	1.1	27	3.5	59	.	.	0.32	27	2.5	59
1998	MAY	.	.	0.52	27	1.3	60	.	.	1.7	27	4.6	58	.	.	2.9	27	2.1	58	.	.	1.1	27	4.3	58	.	.	0.58	27	1.6	59
1998	JUN	.	.	0.74	27	3.3	58	.	.	2.1	27	10	58	.	.	0.72	27	4.0	58	.	.	0.68	27	18	58	.	.	1.4	27	6.9	58
1998	JUL	.	.	0.49	27	2.1	59	.	.	0.39	27	6.5	58	.	.	0.44	27	2.0	58	.	.	0.64	27	23	58	.	.	0.67	27	3.3	58
1998	AUG	.	.	0.31	27	6.0	58	.	.	0.63	27	6.0	58	.	.	0.38	27	2.2	58	.	.	0.67	27	8.7	58	.	.	1.4	27	2.3	58
1998	SEP	.	.	0.60	27	2.2	59	.	.	0.69	27	2.0	59	.	.	0.14	27	4.0	58	.	.	0.16	27	8.1	58	.	.	0.32	27	3.5	58
1998	OCT	.	.	0.75	27	2.9	59	.	.	1.2	27	1.5	60	.	.	0.18	27	1.7	59	.	.	0.62	27	9.5	58	.	.	0.30	27	2.6	59
1998	NOV	.	.	0.62	27	0.67	68	.	.	2.1	27	0.81	64	.	.	0.32	27	3.0	58	.	.	0	27	6.8	58	.	.	0.41	27	4.6	59
1998	DEC	.	.	0.69	27	0.61	68	.	.	0.85	27	4.6	58	.	.	1.4	27	2.6	59	.	.	0.51	27	2.9	59	.	.	0.39	27	2.5	60
1999	JAN	.	.	1.1	27	0.44	83	.	.	1.6	27	0.39	78	.	.	0.67	27	1.3	58	.	.	0	27	1.9	60	.	.	3.5	27	2.6	60
1999	FEB	.	.	1.9	27	1.4	61	.	.	0.98	27	12	58	.	.	0.26	27	3.2	58	.	.	0.85	27	1.6	60	.	.	0.45	27	1.7	61
1999	MAR	.	.	0.37	27	0.57	70	.	.	0.29	27	2.8	59	.	.	0.72	27	0.39	59	.	.	0.80	27	1.1	63	.	.	0.17	27	1.5	62
1999	APR	.	.	0	27	0.15	140	.	.	2.0	27	0.68	64	.	.	0.22	27	1.1	58	.	.	1.1	27	2.0	59	.	.	0.94	27	1.6	61
1999	MAY	.	.	1.6	27	6.6	58	.	.	1.5	27	17	58	.	.	0.41	27	6.2	58	.	.	0.58	27	7.5	58	.	.	0.41	27	5.5	58
1999	JUN	.	.	0.77	27	7.2	58	.	.	0.70	27	37	58	.	.	0.87	27	5.0	58	.	.	0.50	27	4.5	58	.	.	0.92	27	5.1	58
1999	JUL	.	.	0.35	27	5.1	58	.	.	0.97	27	16	58	.	.	0.39	27	6.7	58	.	.	0.70	27	15	58	.	.	0.62	27	8.8	58
1999	AUG	.	.	0.22	27	5.4	58	.	.	0.21	27	8.5	58	.	.	0.48	27	3.1	58	.	.	0.15	27	5.9	58	.	.	0.26	27	2.5	59
1999	SEP	.	.	0.62	27	2.2	59	.	.	0.57	27	7.7	58	.	.	0.33	27	2.6	58	.	.	0.44	27	6.1	58	.	.	0.67	27	3.6	58
1999	OCT	.	.	1.1	27	2.8	59	.	.	0.48	27	12	58	.	.	0.54	27	5.2	58	.	.	0.48	27	8.6	58	.	.	0.57	27	5.9	58
1999	NOV	.	.	0.28	27	2.3	59	.	.	0.68	27	2.2	59	.	.	0.75	27	2.0	58	.	.	0.51	27	3.4	59	.	.	0.96	27	4.6	59
1999	DEC	.	.	0.50	27	1.7	61	.	.	1.2	27	0.42	81	.	.	0.84	27	4.5	58	.	.	0.98	27	5.2	59	.	.	0.85	27	4.7	59
2000	JAN	.	.	0	27	0.82	64	.	.	0	27	0.11	200	.	.	0.51	27	1.1	59	.	.	0.83	27	0	.	.	.	3.9	27	.	.
2000	FEB	.	.	0.23	27	0.20	120	.	.	1.1	27	0.92	62	.	.	0.54	27	0.9	59	.	.	0.56	27	0	.	.	.	0.49	27	.	.
2000	MAR	.	.	0.23	27	0.32	81	.	.	0.59	27	2.3	59	.	.	0.18	27	2.0	58	.	.	0.72	27	8.3	58	.	.	0.39	27	.	.
2000	APR	.	.	0.20	27	2.8	59	.	.	0.70	27	2.1	59	.	.	0.77	27	1.4	58	.	.	1.9	27	1.3	60	.	.	0.45	27	1.5	59
2000	MAY	.	.	0.55	27	4.9	58	.	.	2.4	27	17	58	.	.	1.5	27	4.4	58	.	.	1.2	27	23	58	.	.	1.3	27	3.6	58
2000	JUN	.	.	0.43	27	1.5	59	.	.	0.76	27	3.4	58	.	.	0.94	27	1.6	58	.	.	1.5	27	8.7	58	.	.	1.1	27	2.9	58
2000	JUL	.	.	0	27	1.9	59	.	.	0.33	27	2.8	58	.	.	0.22	27	1.2	58	.	.	0.6	27	2.7	58	.	.	0.36	27	2.1	58
2000	AUG	.	.	0.077	27	1.6	59	.	.	0.52	27	3.8	58	.	.	0.67	27	2.0	58	.	.	0.61	27	4.0	58	.	.	0.77	27	2.7	58
2000	SEP	.	.	0.29	27	3.3	58	.	.	1.1	27	7.5	58	.	.	0.97	27	4.1	58	.	.	0.39	27	7.9	58	.	.	0.39	27	2.7	58
2000	OCT	.	.	0.31	27	0.86	61	.	.	0.66	27	5.2	58	.	.	0.25	27	1.6	58	.	.	0.63	27	5.7	58	.	.	0	27	1.2	58
2000	NOV	.	.	0.91	27	0.37	76	.	.	1.3	27	4.6	58	.	.	0.81	27	10	58	.	.	2.0	27	5.5	58	.	.	1.3	27	2.3	58
2000	DEC	.	.	0.55	27	3.1	59	.	.	1.2	27	8.0	58	.	.	1.3	27	5.2	58	.	.	0.52	27	2.3	60	.	.	1.3	27	3.0	60

HEXACHLOROBENZENE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.24	27	14	58	.	.	0.015	27	20	58	.	.	.	.	.	.	.	.	0.068	27	0	.	.	.	0	27	.	.
1992	FEB	.	.	.	.	16	58	.	.	.	.	10	58	.	.	.	.	.	.	.	.	.	.	5.3	59	.	.	0	27	.	.
1992	MAR	.	.	0.096	27	19	58	.	.	0.019	27	10	58	.	.	.	.	.	.	.	.	0.017	27	12	58	.	.	0	27	.	.
1992	APR	.	.	0	27	11	58	.	.	0.040	27	12	58	.	.	.	.	.	.	.	.	0.097	27	7.8	58	.	.	0	27	.	.
1992	MAY	.	.	0.026	27	15	58	.	.	0.055	27	14	58	.	.	0	27	.	.	.	.	0.039	27	14	58	.	.	0	27	.	.
1992	JUN	.	.	0.11	27	4.9	58	.	.	0.032	27	4.5	58	.	.	0	27	.	.	.	.	0.036	27	.	.	.	.	0	27	.	.
1992	JUL	.	.	0.17	27	5.6	58	.	.	0.076	27	4.9	58	.	.	0	27	.	.	.	.	0.17	27	7.4	58	.	.	0	27	.	.
1992	AUG	.	.	.	.	8.6	58	.	.	.	.	6.6	58	.	.	0	27	.	.	.	.	0.017	27	5.9	58	.	.	0	27	.	.
1992	SEP	.	.	0.10	27	12	58	.	.	0.17	27	12	58	.	.	0	27	.	.	.	.	0.14	27	8.5	58	.	.	0	27	.	.
1992	OCT	.	.	.	.	11	58	.	.	0.045	27	12	58	.	.	0	27	.	.	.	.	.	.	8.8	58	.	.	0	27	.	.
1992	NOV	.	.	0.30	27	13	58	.	.	0.41	27	9.7	58	.	.	0	27	.	.	.	.	1.2	27	14	58	.	.	0	27	.	.
1992	DEC	.	.	0.84	27	.	.	.	.	0.11	27	.	.	.	.	.	.	.	.	.	.	0.095	27	.	.	.	.	0	27	.	.
1993	JAN	.	.	0.072	27	12	58	.	.	0.35	27	11	58	.	.	0	27	.	.	.	.	.	.	15	58	.	.	0	27	.	.
1993	FEB	.	.	0.069	27	13	58	.	.	0.22	27	15	58	.	.	0.36	27	.	.	.	.	0.076	27	18	58	.	.	0.14	27	.	.
1993	MAR	.	.	0.029	27	11	58	.	.	0.13	27	16	58	.	.	0.037	27	.	.	.	.	0.071	27	15	58	.	.	0.081	27	.	.
1993	APR	.	.	0.060	27	9.6	58	.	.	0.22	27	12	58	.	.	0.19	27	.	.	.	.	0.094	27	13	58	.	.	0.18	27	.	.
1993	MAY	.	.	0.041	27	6.5	58	.	.	0.033	27	11	58	.	.	0.23	27	.	.	.	.	0.017	27	9.9	58	.	.	0.090	27	.	.
1993	JUN	.	.	0.005	27	.	.	.	.	0.074	27	3.7	58	.	.	1.4	27	.	.	.	.	0.082	27	3.7	58	.	.	0.38	27	.	.
1993	JUL	.	.	0.043	27	5.2	58	.	.	0.053	27	3.6	58	.	.	0.24	27	.	.	.	.	0.047	27	5.0	58	.	.	0	27	.	.
1993	AUG	.	.	0	27	3.9	58	.	.	0.12	27	2.3	58	.	.	0	27	.	.	.	.	0.016	27	2.6	58	.	.	0	27	.	.
1993	SEP	.	.	0.069	27	6.1	58	.	.	0.077	27	6.9	58	.	.	0	27	.	.	.	.	0.10	27	8.3	58	.	.	0.77	27	.	.
1993	OCT	.	.	.	.	7.2	58	.	.	0	27	8.0	58	.	.	0.09	27	.	.	.	.	0.13	27	9.8	58	.	.	0	27	.	.
1993	NOV	.	.	1.1	27	7.6	58	.	.	0.093	27	7.1	58	.	.	0	27	.	.	.	.	0.060	27	7.5	58	.	.	0	27	.	.
1993	DEC	.	.	.	.	15	58	.	.	.	.	13	58	.	.	0	27	.	.	.	.	0.073	27	19	58	.	.	0	27	.	.
1994	JAN	.	.	0	27	8.0	61	.	.	.	.	7.7	61	.	.	0.093	27	.	.	.	.	0.097	27	19	59	.	.	0	27	.	.
1994	FEB	.	.	0	27	9.6	60	.	.	0.023	27	9.7	60	.	.	0.045	27	.	.	.	.	0.035	27	15	59	.	.	0	27	.	.
1994	MAR	.	.	0.024	27	10	59	.	.	0	27	6.5	60	.	.	0.051	27	.	.	.	.	0	27	11	59	.	.	0.059	27	.	.
1994	APR	.	.	0.044	27	6.2	61	.	.	0.067	27	9.3	59	.	.	0.10	27	.	.	.	.	0.084	27	11	60	.	.	0.058	27	.	.
1994	MAY	.	.	0.017	27	5.3	60	.	.	0.067	27	7.4	59	.	.	0.029	27	.	.	.	.	0	27	6.3	60	.	.	0	27	.	.
1994	JUN	.	.	0.38	27	.	.	.	.	0.053	27	2.2	59	.	.	0	27	.	.	.	.	0.004	27	3.0	59	.	.	0	27	.	.
1994	JUL	.	.	0.015	27	2.1	59	.	.	0.010	27	3.0	59	.	.	0.12	27	.	.	.	.	0.033	27	3.8	59	.	.	0.48	27	.	.
1994	AUG	.	.	0.045	27	4.8	59	.	.	0.036	27	3.7	59	.	.	0.11	27	.	.	.	.	0.019	27	4.2	59	.	.	0.041	27	.	.
1994	SEP	.	.	0.030	27	5.9	59	.	.	0.047	27	4.0	59	.	.	0	27	.	.	.	.	0.047	27	5.4	59	.	.	0	27	.	.
1994	OCT	.	.	0	27	11	59	.	.	0.057	27	5.9	59	.	.	0	27	.	.	.	.	0.029	27	6.1	59	.	.	0	27	.	.
1994	NOV	.	.	0.072	27	12	60	.	.	0.17	27	12	59	.	.	0	27	.	.	.	.	0.072	27	12	59	.	.	0.045	27	.	.
1994	DEC	.	.	0.015	27	6.8	58	.	.	0.013	27	6.3	58	.	.	0	27	.	.	.	.	0	27	9.4	58	.	.	0	27	.	.
1995	JAN	.	.	0.028	27	13	58	.	.	.	.	11	58	.	.	0.48	27	.	.	.	.	0.18	27	18	58	.	.	0.12	27	.	.
1995	FEB	.	.	0.059	27	14	58	.	.	.	.	11	58	.	.	0	27	.	.	.	.	0.050	27	16	58	.	.	0	27	.	.
1995	MAR	.	.	0.043	27	9.4	58	.	.	0.066	27	9.6	58	.	.	0.20	27	.	.	.	.	0.095	27	9.3	58	.	.	0.18	27	.	.
1995	APR	.	.	0.045	27	8.9	58	.	.	0.087	27	8.4	58	.	.	0.11	27	.	.	.	.	0.14	27	9.2	58	.	.	0	27	.	.
1995	MAY	.	.	0.038	27	7.9	58	.	.	0.077	27	8.2	58	.	.	0.12	27	.	.	.	.	0.080	27	7.3	58	.	.	0.14	27	.	.
1995	JUN	.	.	0.015	27	3.6	58	.	.	0.024	27	2.2	58	.	.	0	27	.	.	.	.	0.032	27	3.2	58	.	.	0	27	.	.
1995	JUL	.	.	0.060	27	3.9	58	.	.	0.026	27	3.1	58	.	.	0.23	27	.	.	.	.	0.045	27	3.4	58	.	.	0.10	27	.	.
1995	AUG	.	.	0.027	27	3.2	58	.	.	0.039	27	1.1	58	.	.	0.61	27	.	.	.	.	0.038	27	2.0	58	.	.	0.030	27	.	.
1995	SEP	.	.	.	.	3.3	58	.	.	0.028	27	2.4	58	.	.	0	27	.	.	.	.	0.011	27	3.1	58	.	.	0.020	27	.	.
1995	OCT	.	.	.	.	5.4	58	.	.	0.069	27	3.2	59	.	.	0.028	27	.	.	.	.	0.074	27	7.0	58	.	.	0.18	27	.	.
1995	NOV	.	.	0.066	27	6.4	59	.	.	0.084	27	7.3	58	.	.	0.15	27	.	.	.	.	0.12	27	8.5	58	.	.	1.2	27	.	.
1995	DEC	.	.	0.13	27	12	60	.	.	0.043	27	16	59	.	.	0.11	27	.	.	.	.	0.059	27	16	59	.	.	0.030	27	.	.
1996	JAN	.	.	0.072	27	8.6	58	.	.	0.040	27	9.4	58	.	.	0.38	27	.	.	.	.	0.039	27	14	58	.	.	0.039	27	.	.
1996	FEB	.	.	0.009	27	7.5	58	.	.	0.022	27	9.3	58	.	.	0.046	27	.	.	.	.	0	27	9.5	58	.	.	0	27	.	.
1996	MAR	.	.	0.005	27	8.6	58	.	.	0.017	27	9.1	58	.	.	0	27	.	.	.	.	0.12	27	9.5	58	.	.	0	27	.	.
1996	APR	.	.	0.037	27	7.4	58	.	.	0	27	8.7	58	.	.	0	27	.	.	.	.	0.12	27	9.2	58	.	.	0	27	.	.
1996	MAY	.	.	0.030	27	5.2	58	.	.	0	27	7.2	58	.	.	0	27	.	.	.	.	0.040	27	6.9	58	.	.	0.12	27	.	.
1996	JUN	.	.	0.032	27	4.6	58	.	.	0.11	27	2.9	58	.	.	0	27	.	.	.	.	0.056	27	3.4	58	.	.	0	27	.	.
1996	JUL	.	.	0.057	27	6.5	58	.	.	0.039	27	4.6	58	.	.	0	27	.	.	.	.	0.016	27	2.8	58	.	.	0	27	.	.
1996	AUG	.	.	0.027	27	3.7	58	.	.	0.005	27	3.4	58	.	.	0	27	.	.	.	.	0.003	27	1.5	58	.	.	0	27	.	.
1996	SEP	.	.	0.045	27	4.1	58	.	.	0.034	27	3.4	58	.	.	0	27	.	.	.	.	0.060	27	2.5	58	.	.	2.8	27	.	.
1996	OCT	.	.	0.042	27	8.4	58	.	.	0.027	27	5.1	58	.	.	0	27	.	.	.	.	0.035	27	4.1	58	.	.	0	27	.	.
1996	NOV	.	.	0.062	27	11	58	.	.	0.020	27	6.6	58	.	.	0	27	.	.	.	.	0.071	27	5.9	58	.	.	0	27	.	.
1996	DEC	.	.	0.13	27	9.1	58	.	.	0.10	27	4.1	59	.	.	0	27	.	.	.	.	0.21	27	9.7	58	.	.	0	27	.	.

HEXACHLOROBENZENE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.095	27	9.9	58	.	.	0.053	27	7.6	58	.	.	0	27	.	.	.	.	0.023	27	11	58	.	.	0	27	.	.
1997	FEB	.	.	0.012	27	8.5	58	.	.	0.067	27	5.9	58	.	.	0.24	27	.	.	.	.	0.042	27	12	58	.	.	2.1	27	.	.
1997	MAR	.	.	0.076	27	5.7	58	.	.	0.030	27	6.3	58	.	.	0	27	.	.	.	.	0.063	27	15	58	.	.	0.017	27	.	.
1997	APR	.	.	0.005	27	7.6	58	.	.	0.014	27	9.4	58	.	.	0	27	.	.	.	.	0.027	27	10	58	.	.	0.034	27	.	.
1997	MAY	.	.	0.041	27	6.6	58	.	.	0.050	27	6.1	58	.	.	0.096	27	.	.	.	.	0.042	27	11	58	.	.	0	27	.	.
1997	JUN	.	.	0.022	27	4.9	58	.	.	0.033	27	4.9	58	.	.	0.086	27	.	.	.	.	0.043	27	4.8	58	.	.	0.023	27	.	.
1997	JUL	.	.	0.031	27	4.2	58	.	.	0.019	27	3.1	58	.	.	1.1	27	.	.	.	.	0.023	27	3.2	58	.	.	0.030	27	.	.
1997	AUG	.	.	0.005	27	3.7	58	.	.	0	27	3.9	58	.	.	0.83	27	.	.	.	.	0.034	27	3.5	58	.	.	0.027	27	.	.
1997	SEP	.	.	0.026	27	5.6	58	.	.	0.027	27	5.8	58	.	.	0.15	27	.	.	.	.	0.031	27	5.8	58	.	.	0.033	27	.	.
1997	OCT	.	.	0.042	27	9.1	58	.	.	0.019	27	8.0	58	.	.	0.021	27	.	.	.	.	0.027	27	6.4	58	.	.	0	27	.	.
1997	NOV	.	.	0.033	27	8.1	58	.	.	0.022	27	9.4	58	.	.	0	27	.	.	.	.	0.042	27	10	58	.	.	0	27	.	.
1997	DEC	.	.	0.023	27	7.7	58	.	.	0.023	27	5.6	58	.	.	0	27	.	.	.	.	0.010	27	8.7	58	.	.	0	27	.	.
1998	JAN	.	.	0.029	27	9.9	58	.	.	0.040	27	9.2	58	.	.	0	27	.	.	.	.	0.076	27	8.8	58	.	.	0	27	.	.
1998	FEB	.	.	0	27	9.5	58	.	.	0.010	27	9.3	58	.	.	0	27	.	.	.	.	0.017	27	15	58	.	.	0.074	27	.	.
1998	MAR	.	.	0.025	27	13	58	.	.	0.041	27	18	58	.	.	0	27	.	.	.	.	0.047	27	14	58	.	.	0.051	27	.	.
1998	APR	.	.	0.003	27	9.3	58	.	.	0.050	27	11	58	.	.	0	27	.	.	.	.	0.053	27	10	58	.	.	0	27	.	.
1998	MAY	.	.	0.022	27	7.2	58	.	.	0.018	27	6.5	58	.	.	0	27	.	.	.	.	0.35	27	4.0	58	.	.	0.036	27	.	.
1998	JUN	.	.	0.028	27	5.0	58	.	.	0.033	27	4.4	58	.	.	0	27	.	.	.	.	0.020	27	2.5	58	.	.	0.13	27	.	.
1998	JUL	.	.	0.017	27	3.9	58	.	.	0.013	27	3.9	58	.	.	0.23	27	.	.	.	.	0.039	27	4.2	58	.	.	0.051	27	.	.
1998	AUG	.	.	0.030	27	3.8	58	.	.	0.035	27	3.1	58	.	.	0	27	.	.	.	.	0.056	27	3.0	58	.	.	0.16	27	.	.
1998	SEP	.	.	0.062	27	3.6	58	.	.	0.039	27	2.2	58	.	.	0.12	27	.	.	.	.	0.026	27	4.0	58	.	.	0.12	27	.	.
1998	OCT	.	.	0.043	27	8.3	58	.	.	0.047	27	4.4	58	.	.	0.11	27	.	.	.	.	0.011	27	5.3	58	.	.	0.089	27	.	.
1998	NOV	.	.	0.046	27	9.8	58	.	.	0.049	27	5.7	58	.	.	0.16	27	.	.	.	.	0	27	8.3	58	.	.	0.069	27	.	.
1998	DEC	.	.	0.059	27	11	58	.	.	0.016	27	10	58	.	.	0	27	.	.	.	.	0.021	27	13	58	.	.	0.036	27	.	.
1999	JAN	.	.	0.064	27	13	58	.	.	0.057	27	6.8	58	.	.	0.24	27	.	.	.	.	0	27	15	58	.	.	0.51	27	.	.
1999	FEB	.	.	0.047	27	14	58	.	.	0.031	27	7.8	58	.	.	0.200	27	.	.	.	.	0.034	27	11	58	.	.	0.047	27	.	.
1999	MAR	.	.	0.026	27	11	58	.	.	0.015	27	9.0	58	.	.	0.71	27	.	.	.	.	0.071	27	16	58	.	.	0.48	27	.	.
1999	APR	.	.	0	27	7.9	58	.	.	0.074	27	7.8	58	.	.	0.21	27	.	.	.	.	0.090	27	9.5	58	.	.	0.13	27	.	.
1999	MAY	.	.	0.056	27	7.1	58	.	.	0.034	27	6.6	58	.	.	0.14	27	.	.	.	.	0.067	27	5.4	58	.	.	0.052	27	.	.
1999	JUN	.	.	0.026	27	4.8	58	.	.	0.026	27	2.8	58	.	.	0.37	27	.	.	.	.	0.017	27	2.8	58	.	.	0.037	27	.	.
1999	JUL	.	.	0.026	27	3.1	58	.	.	0.055	27	2.9	58	.	.	0.15	27	.	.	.	.	0.031	27	3.4	58	.	.	0	27	.	.
1999	AUG	.	.	0.018	27	2.9	58	.	.	0.023	27	2.7	58	.	.	0	27	.	.	.	.	0.014	27	3.2	58	.	.	0	27	.	.
1999	SEP	.	.	0.045	27	5.3	58	.	.	0.028	27	4.1	58	.	.	0	27	.	.	.	.	0.035	27	3.5	58	.	.	0	27	.	.
1999	OCT	.	.	0.17	27	11	58	.	.	0.018	27	7.4	58	.	.	0.039	27	.	.	.	.	0.037	27	6.7	58	.	.	0.091	27	.	.
1999	NOV	.	.	0.019	27	12	58	.	.	0.014	27	8.2	58	.	.	0.18	27	.	.	.	.	0.027	27	7.0	58	.	.	0.15	27	.	.
1999	DEC	.	.	0.048	27	13	58	.	.	0.076	27	5.2	58	.	.	0.16	27	.	.	.	.	0.10	27	14	58	.	.	0.11	27	.	.
2000	JAN	.	.	0	27	12	58	.	.	0	27	13	58	.	.	0.19	27	.	.	.	.	0.084	27	18	58	.	.	1.0	27	.	.
2000	FEB	.	.	0.019	27	13	58	.	.	0.019	27	11	58	.	.	0.11	27	.	.	.	.	0.043	27	12	58	.	.	0.10	27	.	.
2000	MAR	.	.	0.023	27	9.3	58	.	.	0.036	27	8.0	58	.	.	0.025	27	.	.	.	.	0.033	27	6.8	58	.	.	0.10	27	.	.
2000	APR	.	.	0.043	27	8.4	58	.	.	0.070	27	7.6	58	.	.	0.18	27	.	.	.	.	0.15	27	12	58	.	.	0.21	27	.	.
2000	MAY	.	.	0.036	27	6.5	58	.	.	0.057	27	6.6	58	.	.	0.19	27	.	.	.	.	0.052	27	7.1	58	.	.	0.20	27	.	.
2000	JUN	.	.	0.049	27	7.3	58	.	.	0.052	27	4.4	58	.	.	0	27	.	.	.	.	0.052	27	4.5	58	.	.	0.15	27	.	.
2000	JUL	.	.	0	27	4.4	58	.	.	0.019	27	3.1	58	.	.	0	27	.	.	.	.	0.022	27	2.6	58	.	.	0.090	27	.	.
2000	AUG	.	.	0.011	27	2.4	58	.	.	0.017	27	2.5	58	.	.	0.032	27	.	.	.	.	0.046	27	2.8	58	.	.	0.13	27	.	.
2000	SEP	.	.	0.047	27	4.9	58	.	.	0.096	27	4.2	58	.	.	0.11	27	.	.	.	.	0.040	27	4.7	58	.	.	0.045	27	.	.
2000	OCT	.	.	0.024	27	4.8	58	.	.	0.020	27	5.2	58	.	.	0.048	27	.	.	.	.	0.058	27	4.5	58	.	.	0.13	27	.	.
2000	NOV	.	.	0.090	27	5.5	58	.	.	0.085	27	6.5	58	.	.	0.11	27	.	.	.	.	0.078	27	8.3	58	.	.	0.23	27	.	.
2000	DEC	.	.	0.048	27	10	58	.	.	0.036	27	9.7	58	.	.	0.24	27	.	.	.	.	0.031	27	11	58	.	.	0.23	27	.	.

CIS-CHLORDANE (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.044	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	0.20	60
1992	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	27	0.24	59
1992	MAR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0.084	27	0.50	59
1992	APR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	0.46	58
1992	MAY	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.50	58
1992	JUN	.	.	0.042	27	.	.	.	.	0.067	27	.	.	.	.	0.11	27	.	.	.	.	0.055	27	.	.	.	.	0	27	0.38	58
1992	JUL	.	.	0.53	27	.	.	.	.	0.086	27	.	.	.	.	0	27	.	.	.	.	0.16	27	.	.	.	.	0	27	0.69	58
1992	AUG	.	.	.	27	.	.	.	.	.	27	.	.	.	.	0	27	.	.	.	.	0.093	27	.	.	.	.	0	27	0.69	58
1992	SEP	.	.	0.042	27	.	.	.	.	0.21	27	.	.	.	.	0	27	.	.	.	.	0.080	27	.	.	.	.	0	27	0.87	58
1992	OCT	.	.	.	27	.	.	.	.	0.014	27	.	.	.	.	0	27	.	.	.	.	.	27	.	.	.	.	0	27	0.26	59
1992	NOV	.	.	0.61	27	.	.	.	.	0.16	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.46	59
1992	DEC	.	.	0.15	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	.	.
1993	JAN	.	.	0.54	27	.	.	.	.	0.38	27	.	.	.	.	0	27	0.40	58	.	.	.	27	.	.	.	.	0	27	0.57	58
1993	FEB	.	.	0.064	27	.	.	.	.	0.21	27	.	.	.	.	0	27	0.18	59	.	.	0.23	27	.	.	.	.	0	27	0.20	58
1993	MAR	.	.	0.40	27	.	.	.	.	0.38	27	.	.	.	.	0	27	0.15	59	.	.	0	27	.	.	.	.	0	27	0.30	58
1993	APR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.17	59	.	.	0	27	.	.	.	.	0	27	0.35	58
1993	MAY	.	.	0.16	27	.	.	.	.	0.045	27	.	.	.	.	0	27	0.43	58	.	.	0.099	27	.	.	.	.	0	27	0.70	58
1993	JUN	.	.	0.94	27	.	.	.	.	0.064	27	.	.	.	.	0	27	0.39	58	.	.	1.8	27	.	.	.	.	0	27	1.1	58
1993	JUL	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.32	58	.	.	0	27	.	.	.	.	0	27	0.72	58
1993	AUG	.	.	0	27	.	.	.	.	0.23	27	.	.	.	.	0	27	0.18	58	.	.	0	27	.	.	.	.	0	27	0.40	58
1993	SEP	.	.	0.041	27	.	.	.	.	0	27	.	.	.	.	0	27	0.89	58	.	.	0	27	.	.	.	.	0.48	27	0.77	58
1993	OCT	.	.	.	27	.	.	.	.	0	27	.	.	.	.	0	27	0.59	58	.	.	0.051	27	.	.	.	.	0	27	0.22	58
1993	NOV	.	.	0.014	27	.	.	.	.	0.090	27	.	.	.	.	0.067	27	0.31	58	.	.	0	27	.	.	.	.	0	27	0.63	58
1993	DEC	.	.	.	.	.	.	.	.	.	27	.	.	.	.	0	27	.	.	.	.	0.050	27	.	.	.	.	0.088	27	0.54	58
1994	JAN	.	.	0	27	.	.	.	.	.	27	.	.	.	.	0	27	0.074	61	.	.	0.16	27	.	.	.	.	0	27	0.28	58
1994	FEB	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.27	59	.	.	0	27	.	.	.	.	0	27	0.17	58
1994	MAR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.15	59	.	.	0	27	.	.	.	.	0	27	0.34	58
1994	APR	.	.	0	27	0.24	330	.	.	0.10	27	1.0	89	.	.	0	27	0.62	58	.	.	0.35	27	3.0	65	.	.	0	27	1.4	58
1994	MAY	.	.	0.025	27	0.35	150	.	.	0	27	1.1	76	.	.	0	27	0.21	58	.	.	0	27	1.3	77	.	.	0	27	0.62	58
1994	JUN	.	.	0	27	.	.	.	.	0	27	0.46	75	.	.	0	27	0.16	58	.	.	0	27	0.98	64	.	.	0	27	0.78	58
1994	JUL	.	.	0	27	0.36	82	.	.	0.49	27	0.98	64	.	.	0	27	0.56	58	.	.	0	27	1.9	60	.	.	0	27	0.94	58
1994	AUG	.	.	0.25	27	0.94	65	.	.	0.51	27	1.7	61	.	.	0	27	0.62	58	.	.	0.28	27	2.2	60	.	.	0	27	0.62	58
1994	SEP	.	.	0.50	27	0.68	79	.	.	1.9	27	0.45	98	.	.	0	27	0.16	58	.	.	1.8	27	1.0	74	.	.	0	27	0.56	58
1994	OCT	.	.	0.36	27	1.8	72	.	.	2.8	27	1.1	76	.	.	0	27	0.20	58	.	.	0.32	27	1.5	67	.	.	0	27	0.40	58
1994	NOV	.	.	0.30	27	1.1	110	.	.	3.2	27	2.0	71	.	.	0	27	0.42	58	.	.	1.8	27	3.2	66	.	.	0	27	1.2	58
1994	DEC	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.24	58	.	.	0	27	.	.	.	.	0	27	0.54	58
1995	JAN	.	.	0	27	1.3	64	.	.	.	.	0.67	71	.	.	0	27	0	.	.	.	2.5	27	2.3	60	.	.	0.065	27	0.56	58
1995	FEB	.	.	0.49	27	0.46	99	.	.	.	.	0.59	77	.	.	0	27	0.28	59	.	.	0.73	27	2.5	60	.	.	0	27	0.38	59
1995	MAR	.	.	0.021	27	0.32	100	.	.	1.5	27	0.55	71	.	.	0.16	27	0.15	59	.	.	1.6	27	0.93	62	.	.	0	27	0.19	59
1995	APR	.	.	0	27	0.33	91	.	.	0	27	0.44	80	.	.	0.11	27	0.14	59	.	.	2.0	27	1.7	60	.	.	0	27	0.59	58
1995	MAY	.	.	0.012	27	0.55	65	.	.	0.075	27	2.1	59	.	.	0	27	0.13	59	.	.	0.17	27	1.5	59	.	.	8.4	27	0.35	58
1995	JUN	.	.	0	27	0.21	80	.	.	0	27	0.21	70	.	.	0	27	0.10	59	.	.	0.12	27	0.59	60	.	.	0	27	0.15	58
1995	JUL	.	.	0.10	27	0.57	61	.	.	0.18	27	1.1	59	.	.	0	27	0.35	58	.	.	0.97	27	1.9	58	.	.	0.23	27	0.61	58
1995	AUG	.	.	0.053	27	1.1	59	.	.	0.070	27	0.56	60	.	.	0	27	0.30	58	.	.	0.25	27	1.5	58	.	.	0	27	0.44	58
1995	SEP	.	.	.	.	0.40	67	.	.	0.24	27	0.74	60	.	.	0	27	0.35	58	.	.	0.22	27	1.5	59	.	.	0	27	0.49	58
1995	OCT	.	.	.	.	0.51	73	.	.	0.61	27	0.56	68	.	.	0	27	0.28	59	.	.	2.1	27	2.5	59	.	.	0.019	27	0.63	58
1995	NOV	.	.	0	27	0.19	160	.	.	0.25	27	0.47	82	.	.	0.59	27	0.066	65	.	.	0	27	0.79	68	.	.	0	27	0.49	58
1995	DEC	.	.	0.91	27	0.73	150	.	.	0.84	27	1.4	90	.	.	0	27	0.24	59	.	.	1.8	27	1.3	100	.	.	0	27	0.54	58
1996	JAN	.	.	0.23	27	0.30	83	.	.	0.47	27	0.28	83	.	.	0	27	0.16	63	.	.	0.52	27	1.2	61	.	.	0	27	0.29	80
1996	FEB	.	.	0.004	27	0.067	260	.	.	0	27	0.26	87	.	.	0.10	27	0.062	80	.	.	0	27	0.28	86	.	.	0.035	27	0.15	110
1996	MAR	.	.	0	27	0.37	72	.	.	0.013	27	0.52	67	.	.	0	27	0.22	61	.	.	0.009	27	0.48	69	.	.	0.11	27	0.22	89
1996	APR	.	.	0.002	27	0.20	88	.	.	0	27	0.33	71	.	.	0.21	27	0.14	62	.	.	0.31	27	0.73	61	.	.	0.24	27	0.42	64
1996	MAY	.	.	0.012	27	0.21	70	.	.	0	27	0.59	61	.	.	0	27	0.24	59	.	.	0.11	27	1.6	59	.	.	0	27	0.69	59
1996	JUN	.	.	0	27	0.69	59	.	.	0.11	27	0.50	60	.	.	0	27	0.22	58	.	.	0	27	0.98	59	.	.	22	27	0.56	59
1996	JUL	.	.	0.11	27	0.53	60	.	.	0.055	27	0.78	59	.	.	0	27	0.13	59	.	.	0	27	0.65	59	.	.	0	27	0.21	62
1996	AUG	.	.	0	27	0.35	60	.	.	0.038	27	0.76	59	.	.	0	27	0.15	59	.	.	0.015	27	0.68	58	.	.	0	27	0.46	59
1996	SEP	.	.	0.44	27	0.58	59	.	.	0.30	27	0.57	59	.	.	0.18	27	0.16	59	.	.	0.56	27	0.81	59	.	.	0	27	0.29	61
1996	OCT	.	.	0.13	27	0.78	61	.	.	0.018	27	1.1	59	.	.	0	27	0.65	58	.	.	0.22	27	1.2	59	.	.	0	27	0.62	60
1996	NOV	.	.	0.060	27	0.68	63	.	.	0.26	27	0.74	61	.	.	0	27	0.46	59	.	.	0.43	27	0.63	62	.	.	0	27	0.40	64
1996	DEC	.	.	0.27	27	0.46	80	.	.	0	27	0.35	86	.	.	0	27	0.069	62	.	.	1.8	27	0.81	70	.	.	0	27	0.24	59

CIS-CHLORDANE (ng/m^2/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.35	27	0.22	69	.	.	0.55	27	0.36	60	.	.	0	27	0.060	70	.	.	0.35	27	0.86	59	.	.	0	27	0.40	58
1997	FEB	.	.	0	27	0.15	71	.	.	0.54	27	0.14	66	.	.	0	27	0.14	60	.	.	1.0	27	1.6	58	.	.	0.56	27	0.41	58
1997	MAR	.	.	0.15	27	0.062	100	.	.	0.43	27	0.24	62	.	.	0	27	.	.	.	.	2.0	27	1.6	58	.	.	0	27	0.49	58
1997	APR	.	.	0	27	0.19	63	.	.	0.13	27	0.49	59	.	.	0	27	0.19	59	.	.	0.95	27	0.86	59	.	.	0	27	0.20	58
1997	MAY	.	.	0.12	27	0.42	59	.	.	0.38	27	0.53	59	.	.	0	27	0.22	59	.	.	2.3	27	1.5	58	.	.	0	27	0.29	58
1997	JUN	.	.	0.037	27	0.51	58	.	.	0.25	27	1.1	58	.	.	0	27	0.55	58	.	.	1.2	27	1.9	58	.	.	0	27	0.43	58
1997	JUL	.	.	0.030	27	0.47	59	.	.	0.23	27	0.83	58	.	.	0.11	27	0.20	58	.	.	0.75	27	1.5	58	.	.	0	27	0.64	58
1997	AUG	.	.	0.0070	27	0.54	58	.	.	0.20	27	0.83	58	.	.	0.94	27	0.24	58	.	.	1.3	27	1.5	58	.	.	0	27	0.32	58
1997	SEP	.	.	0.18	27	0.68	59	.	.	0.27	27	1.3	58	.	.	0	27	0.30	58	.	.	0.85	27	1.6	58	.	.	0	27	0.43	58
1997	OCT	.	.	0.69	27	1.2	58	.	.	1.0	27	1.7	58	.	.	0	27	0.37	58	.	.	1.4	27	2.1	58	.	.	0	27	0.36	58
1997	NOV	.	.	0.27	27	0.25	62	.	.	0.29	27	0.38	59	.	.	0	27	0.11	61	.	.	5.0	27	1.1	59	.	.	0	27	0.11	59
1997	DEC	.	.	0.046	27	0.45	67	.	.	0.33	27	0.49	63	.	.	0	27	0.18	61	.	.	0.19	27	1.1	60	.	.	0	27	0.46	65
1998	JAN	.	.	0.065	27	0.32	81	.	.	1.6	27	0.54	63	.	.	0	27	0.15	60	.	.	0	27	1.1	61	.	.	1.1	27	0.28	58
1998	FEB	.	.	0	27	0.53	64	.	.	0.19	27	0.55	61	.	.	0	27	0.20	59	.	.	0.31	27	1.0	60	.	.	0	27	0.18	58
1998	MAR	.	.	0.0090	27	0.22	96	.	.	0.17	27	0.51	67	.	.	0	27	0.19	60	.	.	0.90	27	0.12	190	.	.	0	27	0.13	59
1998	APR	.	.	0.029	27	0.21	83	.	.	0.12	27	0.56	61	.	.	0	27	0.20	59	.	.	0	27	0.82	60	.	.	0	27	0.26	58
1998	MAY	.	.	0.075	27	0.32	66	.	.	0.19	27	0.57	60	.	.	0	27	0.22	59	.	.	0.82	27	0.77	59	.	.	0	27	0.17	58
1998	JUN	.	.	0.01	27	0.33	63	.	.	0.18	27	0.75	59	.	.	0.009	27	0.30	58	.	.	0.29	27	1.6	58	.	.	0.018	27	0.46	58
1998	JUL	.	.	0.082	27	0.20	65	.	.	0.34	27	0.37	59	.	.	0	27	0.14	59	.	.	1.5	27	1.9	58	.	.	0.042	27	0.24	58
1998	AUG	.	.	0.058	27	0.45	60	.	.	0.48	27	0.49	59	.	.	0	27	0.16	58	.	.	2.1	27	1.4	58	.	.	0.22	27	0.18	58
1998	SEP	.	.	0.15	27	0.22	69	.	.	0.085	27	0.19	64	.	.	0.011	27	0.34	58	.	.	0.17	27	1.5	58	.	.	0.11	27	0.50	58
1998	OCT	.	.	0.54	27	0.40	69	.	.	1.5	27	0.23	72	.	.	0.036	27	0.20	59	.	.	2.0	27	0.95	59	.	.	0	27	0.24	58
1998	NOV	.	.	0.31	27	0.32	78	.	.	0.90	27	0.42	67	.	.	0.079	27	0.28	59	.	.	0	27	1.6	59	.	.	0.069	27	0.52	58
1998	DEC	.	.	0.24	27	0.26	64	.	.	0.26	27	0.73	59	.	.	0.090	27	0.17	60	.	.	0	27	1.3	58	.	.	0.038	27	0.29	58
1999	JAN	.	.	0.36	27	0.42	140	.	.	0.52	27	0.39	110	.	.	0.039	27	0.20	59	.	.	0	27	0.44	170	.	.	0.40	27	0.51	58
1999	FEB	.	.	0.25	27	0.49	130	.	.	0.29	27	1.0	69	.	.	0.010	27	0.41	58	.	.	1.5	27	1.1	77	.	.	0.044	27	0.41	58
1999	MAR	.	.	0.025	27	0.36	140	.	.	0.14	27	0.83	76	.	.	0	27	0.11	59	.	.	1.6	27	1.0	79	.	.	0.069	27	0.38	58
1999	APR	.	.	0	27	0.23	160	.	.	0.83	27	0.44	93	.	.	0.041	27	0.15	59	.	.	1.5	27	0.66	89	.	.	0	27	0.23	58
1999	MAY	.	.	0.28	27	0.96	70	.	.	0.20	27	1.6	60	.	.	0.028	27	0.46	58	.	.	0.79	27	1.6	60	.	.	0	27	0.79	58
1999	JUN	.	.	0.019	27	0.60	69	.	.	0.099	27	1.5	59	.	.	0	27	0.41	58	.	.	0.31	27	1.3	59	.	.	0.088	27	0.55	58
1999	JUL	.	.	0.031	27	0.35	75	.	.	0.29	27	0.78	60	.	.	0	27	0.45	58	.	.	0.23	27	1.7	59	.	.	0	27	0.71	58
1999	AUG	.	.	0.078	27	0.37	73	.	.	0.062	27	0.52	64	.	.	0	27	0.27	58	.	.	0.75	27	1.1	60	.	.	0	27	0.26	58
1999	SEP	.	.	0.40	27	0.28	110	.	.	0.30	27	0.80	62	.	.	0	27	0.31	58	.	.	2.3	27	1.4	60	.	.	0.044	27	0.53	58
1999	OCT	.	.	0.41	27	0.55	97	.	.	0.071	27	1.1	64	.	.	0	27	0.44	58	.	.	0.54	27	1.7	62	.	.	0	27	0.67	58
1999	NOV	.	.	0.084	27	0.62	100	.	.	0.42	27	0.63	86	.	.	0	27	0.22	59	.	.	2.0	27	1.2	72	.	.	0	27	0.89	58
1999	DEC	.	.	0.24	27	0.57	69	.	.	0.51	27	0.41	71	.	.	0.12	27	0.41	59	.	.	0	27	1.4	61	.	.	0.088	27	0.51	58
2000	JAN	.	.	0	27	0.75	74	.	.	0	27	1.2	65	.	.	0	27	0.13	64	.	.	3.7	27	0.89	78	.	.	0	27	.	.
2000	FEB	.	.	0.061	27	0.40	100	.	.	0.46	27	0.56	79	.	.	0	27	0.13	64	.	.	1.8	27	0.70	82	.	.	0.047	27	.	.
2000	MAR	.	.	0.021	27	0.27	120	.	.	0.36	27	0.74	67	.	.	0	27	0.22	59	.	.	0.78	27	1.6	61	.	.	0	27	.	.
2000	APR	.	.	0.085	27	0.43	77	.	.	0.26	27	0.50	75	.	.	0.054	27	0.18	59	.	.	7.5	27	0.89	63	.	.	0.098	27	0.31	58
2000	MAY	.	.	0.081	27	0.46	69	.	.	0.44	27	0.95	61	.	.	0.036	27	0.30	58	.	.	1.7	27	2.5	59	.	.	9.2	27	0.52	58
2000	JUN	.	.	0.083	27	0.28	84	.	.	0	27	0.31	73	.	.	0	27	0.14	59	.	.	0.63	27	1.4	59	.	.	0	27	0.33	58
2000	JUL	.	.	0	27	0.30	68	.	.	0.44	27	0.36	64	.	.	0	27	0.11	59	.	.	0.24	27	0.53	60	.	.	0	27	0.17	58
2000	AUG	.	.	0.022	27	0.21	74	.	.	0.11	27	0.43	62	.	.	0	27	0.17	58	.	.	0	27	0.79	59	.	.	0	27	0.28	58
2000	SEP	.	.	0	27	0.66	65	.	.	0.36	27	1.1	60	.	.	0.024	27	0.35	58	.	.	0.36	27	1.5	59	.	.	0	27	0.30	58
2000	OCT	.	.	0.18	27	0.20	110	.	.	0.39	27	0.44	70	.	.	0.011	27	0.16	59	.	.	2.6	27	0.77	61	.	.	0	27	0.15	58
2000	NOV	.	.	0.72	27	0.23	120	.	.	1.2	27	0.49	76	.	.	0.093	27	0.48	58	.	.	2.6	27	1.3	61	.	.	0.032	27	0.30	58
2000	DEC	.	.	0.24	27	0.87	82	.	.	0.059	27	1.1	72	.	.	0.077	27	0.48	58	.	.	0.46	27	0.94	84	.	.	0	27	0.62	58

TRANS-CHLORDANE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.13	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	0.27	61
1992	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	27	0.30	60
1992	MAR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	0.35	59
1992	APR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	0.46	59
1992	MAY	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.39	59
1992	JUN	.	.	0.051	27	.	.	.	.	0.10	27	.	.	.	.	0	27	.	.	.	.	0.14	27	.	.	.	.	0	27	0.28	59
1992	JUL	.	.	0	27	.	.	.	.	0.75	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.57	58
1992	AUG	.	.	.	27	.	.	.	.	.	27	.	.	.	.	0	27	.	.	.	.	0.11	27	.	.	.	.	0	27	0.51	58
1992	SEP	.	.	0.059	27	.	.	.	.	0	27	.	.	.	.	0.50	27	.	.	.	.	0.096	27	.	.	.	.	0.60	27	0.68	58
1992	OCT	.	.	.	27	.	.	.	.	0.066	27	.	.	.	.	0	27	.	.	.	.	.	27	.	.	.	.	0.16	27	0.21	60
1992	NOV	.	.	0	27	.	.	.	.	0.53	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.50	59
1992	DEC	.	.	0.20	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0.10	27	.	.
1993	JAN	.	.	0	27	.	.	.	.	1.1	27	.	.	.	.	0	27	0.37	59	.	.	.	27	.	.	.	.	0	27	0.66	59
1993	FEB	.	.	0.39	27	.	.	.	.	0.89	27	.	.	.	.	0	27	0.14	59	.	.	4.7	27	.	.	.	.	0	27	0.20	61
1993	MAR	.	.	1.1	27	.	.	.	.	1.2	27	.	.	.	.	0	27	0.12	59	.	.	13	27	.	.	.	.	0	27	0.30	59
1993	APR	.	.	1.6	27	.	.	.	.	8.2	27	.	.	.	.	0	27	0.13	59	.	.	27	27	.	.	.	.	0.11	27	0.32	59
1993	MAY	.	.	4.0	27	.	.	.	.	0.23	27	.	.	.	.	0	27	0.35	58	.	.	4.2	27	.	.	.	.	0	27	0.61	58
1993	JUN	.	.	3.0	27	.	.	.	.	2.6	27	.	.	.	.	0	27	0.34	58	.	.	0	27	.	.	.	.	0	27	1.0	58
1993	JUL	.	.	9.9	27	.	.	.	.	6.7	27	.	.	.	.	0	27	0.20	58	.	.	8.8	27	.	.	.	.	0.11	27	0.54	58
1993	AUG	.	.	0.017	27	.	.	.	.	0.74	27	.	.	.	.	0	27	0.12	58	.	.	1.9	27	.	.	.	.	0	27	0.29	58
1993	SEP	.	.	0.13	27	.	.	.	.	0.32	27	.	.	.	.	0	27	0.74	58	.	.	0.26	27	.	.	.	.	0.21	27	0.65	58
1993	OCT	.	.	.	27	.	.	.	.	0	27	.	.	.	.	0	27	0.50	58	.	.	7.1	27	.	.	.	.	0	27	0.17	61
1993	NOV	.	.	0.18	27	.	.	.	.	4.2	27	.	.	.	.	0	27	0.31	58	.	.	14	27	.	.	.	.	0	27	0.73	58
1993	DEC	.	.	.	.	.	.	.	.	.	27	.	.	.	.	0	27	.	.	.	.	0.12	27	.	.	.	.	0	27	0.57	58
1994	JAN	.	.	0	27	.	.	.	.	.	27	.	.	.	.	0	27	0.050	63	.	.	8.0	27	.	.	.	.	0	27	0.25	59
1994	FEB	.	.	0	27	.	.	.	.	5.7	27	.	.	.	.	0.23	27	0.29	58	.	.	15	27	.	.	.	.	0.48	27	0.12	59
1994	MAR	.	.	2.4	27	.	.	.	.	3.2	27	.	.	.	.	0.16	27	0.13	59	.	.	7.6	27	.	.	.	.	0.35	27	0.30	58
1994	APR	.	.	0.025	27	0.33	220	.	.	0.015	27	1.4	73	.	.	0.38	27	0.58	58	.	.	0.37	27	3.4	62	.	.	0	27	1.4	58
1994	MAY	.	.	0	27	0.26	180	.	.	0.35	27	1.5	67	.	.	0	27	0.15	58	.	.	0.68	27	1.2	76	.	.	0	27	0.53	58
1994	JUN	.	.	1.3	27	.	.	.	.	0.88	27	0.48	72	.	.	0.047	27	0.16	58	.	.	0	27	0.97	63	.	.	0	27	0.67	58
1994	JUL	.	.	0.49	27	0.36	80	.	.	1.1	27	0.80	65	.	.	0.20	27	0.41	58	.	.	0.27	27	1.5	61	.	.	0	27	0.61	58
1994	AUG	.	.	1.1	27	0.63	71	.	.	0.78	27	1.3	62	.	.	0.088	27	0.47	58	.	.	0.23	27	1.6	61	.	.	0	27	0.41	58
1994	SEP	.	.	0.98	27	0.53	85	.	.	16	27	0.21	170	.	.	0	27	0.093	59	.	.	0.098	27	0.82	79	.	.	0	27	0.42	58
1994	OCT	.	.	0	27	0.35	200	.	.	0.13	27	0.59	100	.	.	0	27	0.13	59	.	.	0.10	27	1.0	74	.	.	0	27	0.29	58
1994	NOV	.	.	0.12	27	0.56	170	.	.	0	27	1.7	72	.	.	0	27	0.40	58	.	.	0.025	27	2.9	66	.	.	0	27	1.2	58
1994	DEC	.	.	1.9	27	.	.	.	.	0.058	27	.	.	.	.	0	27	0.25	59	.	.	0	27	.	.	.	.	0	27	0.62	59
1995	JAN	.	.	0.012	27	5.0	58	.	.	.	.	0.46	63	.	.	0	27	0	.	.	.	7.7	27	1.2	60	.	.	0	27	0.55	59
1995	FEB	.	.	0.23	27	0.14	130	.	.	.	.	0.23	79	.	.	0	27	0.24	87	.	.	0.16	27	1.8	59	.	.	0	27	0.36	59
1995	MAR	.	.	0.26	27	0.11	120	.	.	0.074	27	0.25	69	.	.	0.081	27	0.11	100	.	.	3.2	27	0.57	60	.	.	0	27	0.17	59
1995	APR	.	.	0.097	27	0.23	71	.	.	0.31	27	0.28	69	.	.	0	27	0.13	100	.	.	3.5	27	1.5	59	.	.	0	27	0.51	59
1995	MAY	.	.	0.14	27	0.34	62	.	.	0.39	27	1.6	58	.	.	0	27	0.098	91	.	.	0.12	27	1.3	59	.	.	0	27	0.26	59
1995	JUN	.	.	0.13	27	0.13	69	.	.	0.18	27	0.18	61	.	.	0	27	0.082	79	.	.	0.23	27	0.47	59	.	.	0	27	0.11	59
1995	JUL	.	.	0.071	27	0.36	59	.	.	0.045	27	0.8	58	.	.	0	27	0.24	61	.	.	2.3	27	1.3	58	.	.	0	27	0.49	58
1995	AUG	.	.	0.001	27	0.92	58	.	.	0.25	27	0.48	59	.	.	0	27	0.20	62	.	.	0.17	27	1.2	58	.	.	0	27	0.31	58
1995	SEP	.	.	.	.	0.18	67	.	.	0.062	27	0.57	59	.	.	0	27	0.26	63	.	.	0.028	27	1.3	58	.	.	0	27	0.40	58
1995	OCT	.	.	.	.	0.27	68	.	.	0.038	27	0.41	62	.	.	0	27	0.19	83	.	.	1.0	27	2.2	58	.	.	0	27	0.59	58
1995	NOV	.	.	0.23	27	.	.	.	.	0.14	27	0.24	75	.	.	0	27	0.040	340	.	.	0.40	27	0.48	63	.	.	0	27	0.49	59
1995	DEC	.	.	1.2	27	0.50	190	.	.	0	27	1.3	88	.	.	0	27	0.20	59	.	.	4.2	27	1.8	82	.	.	0	27	0.54	58
1996	JAN	.	.	0.14	27	0.63	58	.	.	0.084	27	0.13	61	.	.	0.074	27	0.17	61	.	.	0.060	27	0.85	58	.	.	0	27	0.30	61
1996	FEB	.	.	0	27	0	.	.	.	0.035	27	0.061	71	.	.	0.14	27	0.056	77	.	.	0	27	0.076	67	.	.	0.086	27	0.15	65
1996	MAR	.	.	0	27	0.27	59	.	.	0.67	27	0.36	59	.	.	0.077	27	0.20	60	.	.	0.030	27	0.26	59	.	.	0	27	0.16	65
1996	APR	.	.	0.095	27	0.12	60	.	.	0	27	0.20	59	.	.	0.082	27	0.099	63	.	.	5.4	27	0.52	58	.	.	0.16	27	0.32	59
1996	MAY	.	.	0.019	27	0.11	59	.	.	0	27	0.33	58	.	.	0.63	27	0.14	59	.	.	0.052	27	1.5	58	.	.	0.014	27	0.59	58
1996	JUN	.	.	0	27	0.35	58	.	.	0.63	27	0.38	58	.	.	0	27	0.16	59	.	.	2.4	27	0.78	58	.	.	0	27	0.43	58
1996	JUL	.	.	0.72	27	0.25	58	.	.	0.97	27	0.58	58	.	.	0	27	0.077	59	.	.	0.76	27	0.45	58	.	.	0	27	0.13	60
1996	AUG	.	.	0.045	27	0.17	58	.	.	0.16	27	0.54	58	.	.	0	27	0.089	59	.	.	0.57	27	0.48	58	.	.	0	27	0.31	58
1996	SEP	.	.	1.4	27	0.25	58	.	.	0	27	0.41	58	.	.	0	27	0.082	59	.	.	0.52	27	0.53	58	.	.	0.18	27	0.16	59
1996	OCT	.	.	1.4	27	0.60	58	.	.	0.40	27	1.1	58	.	.	0	27	0.61	58	.	.	0.13	27	1.0	58	.	.	0	27	0.47	59
1996	NOV	.	.	0.032	27	0.58	58	.	.	0	27	0.67	58	.	.	0	27	0.43	59	.	.	0	27	0.53	58	.	.	0	27	0.29	59
1996	DEC	.	.	0.29	27	0.77	60	.	.	0.60	27	0.95	59	.	.	0	27	0.060	170	.	.	30	27	0.51	64	.	.	0	27	0.23	59

TRANS-CHLORDANE (ng/m ^{3}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.049	27	0.062	190	.	.	0	27	0.39	61	.	.	0	27	0.059	82	.	.	0.056	27	0.71	61	.	.	0	27	0.44	58
1997	FEB	.	.	0.023	27	0.052	170	.	.	0.13	27	0.087	90	.	.	0	27	0.12	63	.	.	0.11	27	1.5	59	.	.	1.4	27	0.47	58
1997	MAR	.	.	0	27	0.042	180	.	.	0	27	0.15	72	.	.	0	27	.	.	.	.	0.15	27	1.5	59	.	.	0	27	0.62	58
1997	APR	.	.	0	27	0.12	80	.	.	0	27	0.25	63	.	.	0	27	0.12	62	.	.	0.12	27	0.65	59	.	.	0	27	0.14	59
1997	MAY	.	.	0	27	1.5	58	.	.	0.088	27	0.36	60	.	.	0	27	0.13	61	.	.	0.15	27	1.1	59	.	.	0	27	0.22	58
1997	JUN	.	.	0	27	0.29	59	.	.	0.048	27	0.80	58	.	.	0	27	0.42	58	.	.	0	27	1.3	58	.	.	0	27	0.33	58
1997	JUL	.	.	0.026	27	0.33	59	.	.	0.037	27	0.69	58	.	.	1.1	27	0.14	59	.	.	0.057	27	1.0	58	.	.	0	27	0.51	58
1997	AUG	.	.	0	27	0.42	59	.	.	0.090	27	0.73	58	.	.	0.73	27	0.13	59	.	.	0.047	27	1.6	58	.	.	0.067	27	0.24	58
1997	SEP	.	.	0.086	27	0.51	59	.	.	0.086	27	0.92	58	.	.	0.29	27	0.21	59	.	.	0.087	27	1.2	58	.	.	0	27	0.31	58
1997	OCT	.	.	0	27	1.8	58	.	.	0.031	27	1.7	58	.	.	0.015	27	0.40	59	.	.	0.048	27	1.9	58	.	.	0	27	0.31	58
1997	NOV	.	.	0.012	27	0.15	74	.	.	0	27	0.31	61	.	.	0	27	0.078	70	.	.	0.053	27	0.89	59	.	.	0.087	27	0.074	60
1997	DEC	.	.	0.047	27	0.20	59	.	.	0.034	27	0.35	59	.	.	0	27	0.18	60	.	.	0.014	27	1.0	58	.	.	0.13	27	0.49	59
1998	JAN	.	.	0.051	27	0.042	220	.	.	0	27	0.21	67	.	.	0.28	27	0.12	61	.	.	0.030	27	0.66	60	.	.	0	27	0.25	58
1998	FEB	.	.	0	27	0.58	60	.	.	0	27	0.47	59	.	.	0.61	27	0.17	59	.	.	0	27	0.89	59	.	.	0.26	27	0.16	58
1998	MAR	.	.	0.032	27	0.15	81	.	.	0.078	27	0.15	82	.	.	0.045	27	0.14	60	.	.	0	27	0.27	71	.	.	0.10	27	0.099	59
1998	APR	.	.	0.003	27	0.11	80	.	.	0.050	27	0.36	60	.	.	0	27	0.13	59	.	.	0.14	27	0.82	59	.	.	0	27	0.21	58
1998	MAY	.	.	0.021	27	0.15	67	.	.	0.039	27	0.49	59	.	.	0	27	0.14	59	.	.	0.036	27	0.52	59	.	.	0.087	27	0.11	58
1998	JUN	.	.	0.067	27	0.19	62	.	.	0.093	27	0.55	59	.	.	0.095	27	0.18	58	.	.	0.047	27	1.3	58	.	.	0.063	27	0.30	58
1998	JUL	.	.	0.024	27	0.074	71	.	.	0.014	27	0.28	59	.	.	0.031	27	0.073	59	.	.	0.044	27	1.2	58	.	.	0	27	0.16	58
1998	AUG	.	.	0	27	0.38	59	.	.	0.025	27	0.39	59	.	.	0	27	0.094	59	.	.	0.033	27	1.0	58	.	.	0	27	0.11	58
1998	SEP	.	.	0.051	27	0.15	65	.	.	0.041	27	0.13	62	.	.	0	27	0.19	58	.	.	0.010	27	1.0	58	.	.	0	27	0.36	58
1998	OCT	.	.	0.072	27	0.34	63	.	.	0.050	27	0.17	66	.	.	0.006	27	0.14	59	.	.	0.083	27	1.3	58	.	.	0	27	0.18	58
1998	NOV	.	.	0.033	27	0.18	74	.	.	0.13	27	0.13	80	.	.	0.027	27	0.23	59	.	.	0	27	1.8	58	.	.	0	27	0.47	58
1998	DEC	.	.	0.053	27	0.24	71	.	.	0.027	27	0.68	59	.	.	0	27	0.22	60	.	.	0.024	27	2.3	58	.	.	0	27	0.27	59
1999	JAN	.	.	0.046	27	0.13	67	.	.	0.069	27	0.18	61	.	.	0	27	0.17	59	.	.	0	27	0.56	59	.	.	0	27	0.49	58
1999	FEB	.	.	0.041	27	0.44	59	.	.	0.025	27	1.0	58	.	.	0.020	27	0.40	58	.	.	0.032	27	0.93	58	.	.	0	27	0.34	58
1999	MAR	.	.	0.031	27	0.14	63	.	.	0.026	27	0.70	58	.	.	0.082	27	0.063	60	.	.	0.065	27	0.87	59	.	.	0.13	27	0.25	59
1999	APR	.	.	0	27	0.10	64	.	.	0.11	27	0.16	60	.	.	0.11	27	0.088	59	.	.	0.15	27	0.40	59	.	.	0.033	27	0.15	59
1999	MAY	.	.	0.037	27	0.62	59	.	.	0.10	27	1.2	58	.	.	0.036	27	0.31	58	.	.	0.13	27	1.2	58	.	.	0	27	0.57	58
1999	JUN	.	.	0.006	27	0.39	58	.	.	0	27	1.3	58	.	.	0	27	0.23	58	.	.	0.033	27	0.98	58	.	.	0.033	27	0.37	58
1999	JUL	.	.	0.012	27	0.20	59	.	.	0.026	27	0.76	58	.	.	0.087	27	0.28	58	.	.	0.043	27	1.2	58	.	.	0	27	0.47	58
1999	AUG	.	.	0.022	27	0.18	59	.	.	0.026	27	0.45	58	.	.	0.041	27	0.16	58	.	.	0.027	27	0.87	58	.	.	0	27	0.12	58
1999	SEP	.	.	0.045	27	0.12	61	.	.	0.031	27	0.53	58	.	.	0.024	27	0.16	58	.	.	0.027	27	1.1	58	.	.	0	27	0.37	58
1999	OCT	.	.	0.066	27	0.43	59	.	.	0.044	27	1.5	58	.	.	0	27	0.30	58	.	.	0.037	27	1.2	58	.	.	0	27	0.46	58
1999	NOV	.	.	0.015	27	0.26	61	.	.	0.012	27	0.23	60	.	.	0	27	0.13	59	.	.	0.058	27	0.99	58	.	.	0	27	0.75	58
1999	DEC	.	.	0.025	27	0.36	65	.	.	0.035	27	0.47	61	.	.	0.037	27	0.33	59	.	.	0.29	27	1.4	59	.	.	0	27	0.45	58
2000	JAN	.	.	0	27	0.027	1100	.	.	0	27	0.25	130	.	.	0.36	27	0.12	62	.	.	0.059	27	0.42	110	.	.	3.5	27	.	.
2000	FEB	.	.	0	27	0.21	160	.	.	0.030	27	0.14	200	.	.	0.12	27	0.12	63	.	.	0	27	0.43	100	.	.	0	27	.	.
2000	MAR	.	.	0	27	0.16	160	.	.	0.054	27	0.31	88	.	.	0	27	0.20	59	.	.	0.098	27	1.1	63	.	.	0.12	27	.	.
2000	APR	.	.	0	27	0.31	85	.	.	0	27	0.31	89	.	.	0.098	27	0.12	60	.	.	0.22	27	0.56	67	.	.	0.34	27	0.21	58
2000	MAY	.	.	0.029	27	0.34	73	.	.	0.074	27	0.83	61	.	.	0	27	0.24	58	.	.	0.11	27	1.9	59	.	.	0.21	27	0.33	58
2000	JUN	.	.	0	27	0.11	140	.	.	0	27	0.17	91	.	.	0	27	0.066	60	.	.	0.073	27	0.89	60	.	.	0.14	27	0.19	58
2000	JUL	.	.	0	27	0.15	87	.	.	0	27	0.20	73	.	.	0.10	27	0.058	59	.	.	0	27	0.39	61	.	.	0	27	0.10	58
2000	AUG	.	.	0.023	27	0.098	100	.	.	0.024	27	0.24	67	.	.	0	27	0.10	59	.	.	0.10	27	0.43	61	.	.	0	27	0.20	58
2000	SEP	.	.	0.036	27	0.24	90	.	.	0.11	27	0.87	61	.	.	0	27	0.29	58	.	.	0.076	27	1.1	60	.	.	0	27	0.21	58
2000	OCT	.	.	0	27	0.073	250	.	.	0.052	27	0.29	79	.	.	0.008	27	0.12	59	.	.	0	27	0.63	62	.	.	0	27	0.10	58
2000	NOV	.	.	0.21	27	0.083	280	.	.	0.10	27	0.44	77	.	.	7.5	27	0.56	58	.	.	0.16	27	0.88	64	.	.	0.14	27	0.25	58
2000	DEC	.	.	0.053	27	0.41	59	.	.	0.038	27	0.65	59	.	.	0.24	27	0.40	58	.	.	0.014	27	0.59	59	.	.	0.37	27	0.44	58

TRANS-NONACHLOR (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.056	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	0.27	72
1992	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	27	0.28	69
1992	MAR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	0.55	61
1992	APR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	0.51	60
1992	MAY	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.56	59
1992	JUN	.	.	0.020	27	.	.	.	.	0.012	27	.	.	.	.	0	27	.	.	.	.	0.064	27	.	.	.	.	0	27	0.35	59
1992	JUL	.	.	0	27	.	.	.	.	0.20	27	.	.	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.60	59
1992	AUG	.	.	.	.	0.33	59	.	.	.	27	0.23	59	.	.	0	27	.	.	.	.	0.072	27	0.46	58	.	.	0	27	0.57	59
1992	SEP	.	.	0.010	27	.	.	.	.	0.024	27	0.92	58	.	.	0	27	.	.	.	.	0.043	27	1.3	58	.	.	0	27	0.79	59
1992	OCT	.	.	.	.	0.28	60	.	.	0.020	27	0.52	59	.	.	0	27	.	.	.	.	.	.	0.95	58	.	.	0	27	0.28	63
1992	NOV	.	.	0.37	27	0.26	62	.	.	0.023	27	0.32	60	.	.	0	27	.	.	.	.	0	27	2.1	58	.	.	0	27	0.55	60
1992	DEC	.	.	0.067	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0	27	.	.
1993	JAN	.	.	0.35	27	0.17	120	.	.	0	27	0.40	68	.	.	0	27	0.41	63	.	.	.	.	1.5	59	.	.	0	27	0.61	60
1993	FEB	.	.	0.030	27	0.20	100	.	.	0	27	0.51	64	.	.	0	27	0.18	76	.	.	0	27	1.3	60	.	.	0	27	0.19	69
1993	MAR	.	.	0.081	27	0.29	72	.	.	0.049	27	0.77	60	.	.	0	27	0.17	73	.	.	0	27	0.92	60	.	.	0	27	0.40	60
1993	APR	.	.	0	27	0.18	90	.	.	0	27	0.33	71	.	.	0	27	0.19	69	.	.	0	27	0.89	59	.	.	0	27	0.40	60
1993	MAY	.	.	0.27	27	0.19	76	.	.	0.024	27	0.99	59	.	.	0	27	0.54	59	.	.	0	27	2.1	59	.	.	0	27	0.86	59
1993	JUN	.	.	0	27	.	.	.	.	0	27	0.94	58	.	.	0	27	0.45	59	.	.	0.048	27	2.2	58	.	.	0	27	1.1	58
1993	JUL	.	.	0	27	0.53	60	.	.	0	27	0.79	59	.	.	0	27	0.34	59	.	.	0.15	27	1.3	58	.	.	0	27	0.77	58
1993	AUG	.	.	0.052	27	0.33	61	.	.	0.086	27	0.15	65	.	.	0	27	0.20	60	.	.	0.027	27	0.66	59	.	.	0	27	0.39	58
1993	SEP	.	.	0.064	27	0.39	63	.	.	0.12	27	1.9	58	.	.	0	27	0.89	59	.	.	0.11	27	2.3	58	.	.	0	27	0.82	58
1993	OCT	.	.	.	.	0.19	84	.	.	0	27	0.88	60	.	.	0	27	0.55	60	.	.	0	27	1.7	59	.	.	0	27	0.27	61
1993	NOV	.	.	0	27	0.15	110	.	.	2.5	27	0.51	62	.	.	0	27	0.26	65	.	.	0	27	0.50	63	.	.	0	27	0.84	59
1993	DEC	.	.	.	.	0.28	62	.	.	.	.	0.42	60	.	.	0	27	.	.	.	.	0.009	27	1.3	59	.	.	0	27	0.54	58
1994	JAN	.	.	0	27	0.096	200	.	.	.	.	0.13	130	.	.	0	27	0.080	93	.	.	0	27	1.1	62	.	.	0	27	0.37	59
1994	FEB	.	.	0	27	0.29	78	.	.	0	27	1.2	60	.	.	0	27	0.33	61	.	.	0	27	0.52	68	.	.	0	27	0.24	60
1994	MAR	.	.	0	27	0.13	120	.	.	0	27	0.10	120	.	.	0	27	0.17	63	.	.	0	27	0.82	61	.	.	0	27	0.39	59
1994	APR	.	.	0.032	27	0.16	110	.	.	0.059	27	0.88	60	.	.	0	27	0.85	59	.	.	0.31	27	1.7	59	.	.	0	27	1.7	58
1994	MAY	.	.	0	27	0.32	64	.	.	0.16	27	0.86	59	.	.	0	27	0.32	59	.	.	0	27	0.81	60	.	.	0	27	0.79	58
1994	JUN	.	.	0	27	.	.	.	.	0	27	0.37	59	.	.	0	27	0.21	59	.	.	0	27	0.74	59	.	.	0	27	0.78	58
1994	JUL	.	.	0.076	27	0.24	60	.	.	0	27	0.67	59	.	.	0	27	0.56	58	.	.	0	27	1.2	58	.	.	0	27	0.84	58
1994	AUG	.	.	0	27	0.80	59	.	.	0.011	27	0.85	59	.	.	0	27	0.63	58	.	.	1.2	27	1.3	58	.	.	0	27	0.50	58
1994	SEP	.	.	0.46	27	0.27	62	.	.	0.084	27	0.21	64	.	.	0	27	0.18	60	.	.	0.096	27	0.55	60	.	.	0	27	0.50	58
1994	OCT	.	.	0	27	0.87	60	.	.	0	27	0.46	61	.	.	0	27	0.24	60	.	.	0	27	0.78	59	.	.	0	27	0.37	58
1994	NOV	.	.	0	27	0.20	110	.	.	0	27	1.0	60	.	.	0	27	0.47	59	.	.	0.16	27	2.1	59	.	.	0	27	1.2	58
1994	DEC	.	.	0.79	27	0.22	86	.	.	0	27	0.52	62	.	.	0	27	0.25	64	.	.	0	27	1.1	59	.	.	0	27	0.64	59
1995	JAN	.	.	0	27	0.62	59	.	.	.	.	0.23	63	.	.	0	27	.	.	.	.	0	27	0.62	59	.	.	0	27	0.56	59
1995	FEB	.	.	0	27	0.049	160	.	.	.	.	0.19	65	.	.	0	27	0.20	100	.	.	0.088	27	0.73	59	.	.	0	27	0.37	59
1995	MAR	.	.	0.047	27	0.059	100	.	.	0.029	27	0.16	64	.	.	0	27	0.16	89	.	.	0.16	27	0.35	59	.	.	0	27	0.30	59
1995	APR	.	.	0	27	0.17	64	.	.	0.044	27	0.35	60	.	.	0	27	0.14	100	.	.	0.074	27	1.1	58	.	.	0	27	1.2	58
1995	MAY	.	.	0.006	27	0.29	59	.	.	0.057	27	1.3	58	.	.	0	27	0.13	80	.	.	0.054	27	0.79	58	.	.	0	27	0.37	58
1995	JUN	.	.	0	27	0.15	60	.	.	0.020	27	0.13	59	.	.	0	27	0.11	71	.	.	0.021	27	0.20	59	.	.	0	27	0.18	58
1995	JUL	.	.	0.037	27	0.41	58	.	.	0.01	27	0.65	58	.	.	0	27	0.34	59	.	.	0.14	27	0.83	58	.	.	0	27	0.61	58
1995	AUG	.	.	0.018	27	0.58	58	.	.	0.018	27	0.34	58	.	.	0	27	0.26	60	.	.	0.034	27	0.72	58	.	.	0	27	0.39	58
1995	SEP	.	.	.	.	0.12	62	.	.	0.019	27	0.36	59	.	.	0	27	0.30	61	.	.	0.020	27	0.97	58	.	.	0	27	0.39	58
1995	OCT	.	.	.	.	0.26	60	.	.	0.11	27	0.30	60	.	.	0	27	0.21	78	.	.	0.092	27	1.6	58	.	.	0	27	0.64	58
1995	NOV	.	.	0.073	27	0.11	77	.	.	0	27	0.30	61	.	.	0	27	0.11	140	.	.	0.076	27	0.44	59	.	.	0	27	0.44	59
1995	DEC	.	.	2.8	27	0.35	78	.	.	0.060	27	0.73	63	.	.	0	27	0.29	62	.	.	0	27	1.7	60	.	.	0	27	0.59	59
1996	JAN	.	.	0.22	27	0.18	66	.	.	0.015	27	0.18	65	.	.	0	27	0.092	62	.	.	0.017	27	0.70	59	.	.	0	27	0.33	59
1996	FEB	.	.	0.002	27	0	.	.	.	0.006	27	0.073	94	.	.	0	27	0.052	69	.	.	0	27	0.093	85	.	.	0	27	0.16	59
1996	MAR	.	.	0.01	27	0.26	61	.	.	0.042	27	0.37	60	.	.	0	27	0.21	59	.	.	0.061	27	0.28	62	.	.	0	27	0.15	59
1996	APR	.	.	0.035	27	0.15	65	.	.	0	27	0.25	61	.	.	0	27	0.15	59	.	.	0.18	27	0.48	59	.	.	0	27	0.31	58
1996	MAY	.	.	0.008	27	0.071	69	.	.	0	27	0.27	60	.	.	0	27	0.23	58	.	.	0.046	27	1.5	58	.	.	0	27	0.64	58
1996	JUN	.	.	0.011	27	0.63	58	.	.	0.046	27	0.47	58	.	.	0	27	0.23	58	.	.	0.064	27	0.82	58	.	.	0	27	0.48	58
1996	JUL	.	.	0.065	27	0.27	59	.	.	0.026	27	0.39	58	.	.	0	27	0.11	58	.	.	0.016	27	0.41	58	.	.	0	27	0.15	58
1996	AUG	.	.	0.011	27	0.22	59	.	.	0.11	27	0.47	58	.	.	0	27	0.14	58	.	.	0.004	27	0.31	58	.	.	0	27	0.36	58
1996	SEP	.	.	0.031	27	0.35	59	.	.	0	27	0.31	59	.	.	0	27	0.12	58	.	.	0	27	0.45	58	.	.	0	27	0.19	58
1996	OCT	.	.	0.045	27	0.40	59	.	.	0.024	27	0.65	59	.	.	0	27	0.58	58	.	.	0.042	27	0.61	59	.	.	0	27	0.45	58
1996	NOV	.	.	0.055	27	0.40	60	.	.	0.014	27	0.37	59	.	.	0	27	0.42	58	.	.	0.030	27	0.29	60	.	.	0	27	0.22	58
1996	DEC	.	.	0.37	27	0.27	61	.	.	0.018	27	0.20	62	.	.	0	27	0.093	120	.	.	0	27	0.30	62	.	.	0	27	0.23	59

TRANS-NONACHLOR (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.089	27	0.097	190	.	.	0.0050	27	0.31	68	.	.	0	27	0.035	67	.	.	0.025	27	0.45	72	.	.	0	27	0.35	58
1997	FEB	.	.	0.018	27	0.050	260	.	.	0.054	27	0.056	180	.	.	0	27	0.14	59	.	.	0.15	27	1.0	60	.	.	0	27	0.42	58
1997	MAR	.	.	0.032	27	0.023	500	.	.	0.039	27	0.24	72	.	.	0	27	.	.	.	.	0.073	27	1.3	59	.	.	0	27	0.49	58
1997	APR	.	.	0.006	27	0.16	88	.	.	0.022	27	0.29	66	.	.	0	27	0.19	58	.	.	0.040	27	0.79	60	.	.	0	27	0.21	58
1997	MAY	.	.	0.025	27	0.25	67	.	.	0.038	27	0.33	63	.	.	0	27	0.23	58	.	.	0.080	27	0.66	61	.	.	0	27	0.29	58
1997	JUN	.	.	0.012	27	0.21	62	.	.	0.051	27	0.44	59	.	.	0	27	0.49	58	.	.	0.047	27	1.1	58	.	.	0	27	0.44	58
1997	JUL	.	.	0	27	0.29	60	.	.	0.006	27	0.64	58	.	.	0	27	0.21	58	.	.	0.026	27	0.84	58	.	.	0	27	0.69	58
1997	AUG	.	.	0	27	0.30	60	.	.	0	27	0.41	59	.	.	0	27	0.22	58	.	.	0	27	0.63	59	.	.	0	27	0.23	58
1997	SEP	.	.	0.014	27	0.49	60	.	.	0.027	27	0.69	59	.	.	0	27	0.26	58	.	.	0.039	27	0.78	59	.	.	0	27	0.36	58
1997	OCT	.	.	0.047	27	0.68	60	.	.	0.026	27	1.3	59	.	.	0	27	0.47	58	.	.	0.020	27	0.85	59	.	.	0	27	0.33	58
1997	NOV	.	.	0.031	27	0.068	160	.	.	0.018	27	0.17	77	.	.	0	27	0.10	59	.	.	0.044	27	0.52	63	.	.	0	27	0.13	59
1997	DEC	.	.	0.066	27	0.26	61	.	.	0.036	27	0.32	59	.	.	0	27	0.17	59	.	.	0.012	27	0.57	59	.	.	0	27	0.32	58
1998	JAN	.	.	0.036	27	0.19	83	.	.	0.029	27	0.36	62	.	.	0	27	0.11	60	.	.	0.049	27	0.60	62	.	.	0	27	0.25	59
1998	FEB	.	.	0	27	0.46	61	.	.	0.007	27	0.47	60	.	.	0	27	0.19	59	.	.	0.013	27	0.55	61	.	.	0	27	0.16	59
1998	MAR	.	.	0.016	27	0.27	70	.	.	0.034	27	0.30	67	.	.	0.045	27	0.18	59	.	.	0.009	27	0.49	64	.	.	0	27	0.13	60
1998	APR	.	.	0.017	27	0.24	66	.	.	0.033	27	0.53	60	.	.	0	27	0.19	59	.	.	0.071	27	0.58	60	.	.	0	27	0.26	58
1998	MAY	.	.	0.026	27	0.49	60	.	.	0.059	27	0.55	59	.	.	0	27	0.23	58	.	.	0.043	27	0.41	59	.	.	0	27	0.12	58
1998	JUN	.	.	0.039	27	0.31	60	.	.	0.051	27	0.62	58	.	.	0.053	27	0.25	58	.	.	0.028	27	1.0	58	.	.	0.11	27	0.38	58
1998	JUL	.	.	0.020	27	0.12	64	.	.	0.014	27	0.35	59	.	.	0.035	27	0.11	58	.	.	0.056	27	1.0	58	.	.	0.028	27	0.19	58
1998	AUG	.	.	0.002	27	0.36	59	.	.	0.014	27	0.36	59	.	.	0	27	0.13	58	.	.	0.028	27	0.58	58	.	.	0.064	27	0.13	58
1998	SEP	.	.	0.036	27	0.16	65	.	.	0.028	27	0.14	61	.	.	0	27	0.28	58	.	.	0.044	27	0.88	58	.	.	0.12	27	0.38	58
1998	OCT	.	.	0.024	27	0.37	63	.	.	0	27	0.19	65	.	.	0.013	27	0.17	59	.	.	0.028	27	0.64	59	.	.	0.052	27	0.21	58
1998	NOV	.	.	0.030	27	0.28	68	.	.	0.15	27	0.32	64	.	.	0.030	27	0.27	58	.	.	0	27	0.96	59	.	.	0.087	27	0.35	58
1998	DEC	.	.	0.067	27	0.27	80	.	.	0.014	27	0.45	62	.	.	0	27	0.16	59	.	.	0.011	27	0.52	63	.	.	0	27	0.30	58
1999	JAN	.	.	0.057	27	0.46	65	.	.	0.058	27	0.27	67	.	.	0.13	27	0.16	59	.	.	0	27	0.42	70	.	.	0.80	27	0.38	58
1999	FEB	.	.	0	27	0.54	63	.	.	0.046	27	1.3	59	.	.	0.032	27	0.46	58	.	.	0.036	27	0.89	60	.	.	0.057	27	0.33	58
1999	MAR	.	.	0.011	27	0.25	72	.	.	0.014	27	0.71	60	.	.	0.009	27	0.046	61	.	.	0.049	27	1.2	59	.	.	0.43	27	0.40	58
1999	APR	.	.	0	27	0.19	74	.	.	0.11	27	0.42	61	.	.	0.041	27	0.14	59	.	.	0.032	27	0.50	62	.	.	0	27	0.17	59
1999	MAY	.	.	0.022	27	1.1	59	.	.	0.035	27	1.5	58	.	.	0.049	27	0.36	58	.	.	0.037	27	1.2	58	.	.	0.033	27	0.71	58
1999	JUN	.	.	0.013	27	0.61	59	.	.	0.014	27	1.5	58	.	.	0	27	0.40	58	.	.	0.026	27	0.65	58	.	.	0.056	27	0.47	58
1999	JUL	.	.	0.018	27	0.33	59	.	.	0.019	27	0.90	58	.	.	0	27	0.39	58	.	.	0.016	27	1.2	58	.	.	0.039	27	0.64	58
1999	AUG	.	.	0.021	27	0.27	60	.	.	0.01	27	0.41	59	.	.	0	27	0.12	58	.	.	0.011	27	0.55	59	.	.	0	27	0.19	58
1999	SEP	.	.	0.025	27	0.18	66	.	.	0.021	27	0.67	59	.	.	0	27	0.17	58	.	.	0.007	27	0.85	58	.	.	0.042	27	0.40	58
1999	OCT	.	.	0.094	27	0.40	63	.	.	0.028	27	1.1	59	.	.	0.034	27	0.35	58	.	.	0.012	27	0.88	59	.	.	0.016	27	0.49	58
1999	NOV	.	.	0.017	27	0.37	67	.	.	0.031	27	0.38	63	.	.	0.067	27	0.14	59	.	.	0.056	27	0.83	60	.	.	0.068	27	0.66	58
1999	DEC	.	.	0.030	27	0.40	66	.	.	0.16	27	0.33	65	.	.	0.062	27	0.46	58	.	.	0.011	27	0.90	60	.	.	0.050	27	0.53	58
2000	JAN	.	.	0	27	0.065	150	.	.	0	27	0.16	79	.	.	0	27	0.14	60	.	.	0.12	27	0.43	65	.	.	0	27	.	.
2000	FEB	.	.	0.01	27	0.17	79	.	.	0.025	27	0.20	71	.	.	0.083	27	0.13	60	.	.	0.061	27	0.28	70	.	.	0.084	27	.	.
2000	MAR	.	.	0.011	27	0.19	69	.	.	0.035	27	0.49	60	.	.	0	27	0.21	59	.	.	0.068	27	1.2	59	.	.	0	27	.	.
2000	APR	.	.	0.017	27	0.31	61	.	.	0.045	27	0.55	59	.	.	0.049	27	0.17	59	.	.	0.17	27	0.62	59	.	.	0	27	0.24	210
2000	MAY	.	.	0.030	27	0.47	59	.	.	0.050	27	1.1	58	.	.	0	27	0.33	58	.	.	0.073	27	2.4	58	.	.	0.18	27	0.33	110
2000	JUN	.	.	0	27	0.19	63	.	.	0	27	0.28	59	.	.	0	27	0.11	59	.	.	0	27	0.84	58	.	.	0	27	0.29	98
2000	JUL	.	.	0	27	0.19	60	.	.	0	27	0.26	59	.	.	0	27	0.080	58	.	.	0.028	27	0.29	59	.	.	0.040	27	0.12	130
2000	AUG	.	.	0	27	0.13	61	.	.	0.014	27	0.31	59	.	.	0.041	27	0.13	58	.	.	0.054	27	0.46	58	.	.	0.081	27	0.20	96
2000	SEP	.	.	0.014	27	0.35	60	.	.	0.048	27	0.86	58	.	.	0	27	0.43	58	.	.	0.033	27	1.0	58	.	.	0	27	0.078	300
2000	OCT	.	.	0.015	27	0.11	74	.	.	0.017	27	0.37	59	.	.	0.014	27	0.15	58	.	.	0.072	27	0.60	59	.	.	0	27	0.10	270
2000	NOV	.	.	0.025	27	0.14	74	.	.	0.096	27	0.40	60	.	.	0.024	27	0.27	58	.	.	0.075	27	0.66	59	.	.	0.029	27	0.18	240
2000	DEC	.	.	0.031	27	0.062	200	.	.	0.072	27	1.4	59	.	.	0.22	27	0.43	58	.	.	0.018	27	0.62	62	.	.	0.12	27	0.42	58

PP_DDE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.10	27	0.11	240	.	.	0.030	27	1.2	61	.	.	.	.	.	.	.	.	0.21	27	0.76	68	.	.	0.30	27	0.83	93
1992	FEB	.	.	.	.	0.22	130	.	.	.	.	0.66	66	.	.	.	.	.	.	.	.	.	.	1.3	61	.	.	0	27	0.54	110
1992	MAR	.	.	0.13	27	0.55	70	.	.	0.11	27	0.88	62	.	.	.	.	.	.	.	.	0.46	27	1.3	61	.	.	0.084	27	0.86	87
1992	APR	.	.	0	27	0.50	70	.	.	0.16	27	1.3	60	.	.	.	.	.	.	.	.	0.57	27	3.2	59	.	.	0.40	27	1.7	62
1992	MAY	.	.	0.061	27	0.62	59	.	.	0.30	27	1.3	58	.	.	0	27	.	.	.	.	0.56	27	3.9	58	.	.	3.3	27	1.5	62
1992	JUN	.	.	0.092	27	0.15	76	.	.	0.50	27	0.42	60	.	.	2.2	27	.	.	.	.	1.2	27	.	.	.	.	0.56	27	1.1	60
1992	JUL	.	.	0	27	0.21	67	.	.	0.16	27	1.4	58	.	.	0	27	.	.	.	.	0.41	27	4.1	58	.	.	0.84	27	1.7	59
1992	AUG	.	.	.	27	0.68	59	.	.	.	27	1.1	59	.	.	0.16	27	.	.	.	.	0.14	27	1.2	59	.	.	0.76	27	1.7	60
1992	SEP	.	.	0.23	27	0.70	61	.	.	0.19	27	1.6	59	.	.	0.27	27	.	.	.	.	0.43	27	1.5	59	.	.	0.36	27	1.8	61
1992	OCT	.	.	.	27	0.18	88	.	.	0.064	27	1.2	59	.	.	0	27	.	.	.	.	.	27	1.8	59	.	.	0	27	0.88	71
1992	NOV	.	.	0.54	27	0.21	98	.	.	0.26	27	1.1	60	.	.	0	27	.	.	.	.	0.81	27	1.4	59	.	.	0.36	27	1.3	68
1992	DEC	.	.	0.18	27	.	.	.	.	0.18	27	.	.	.	.	.	.	.	.	.	.	0.25	27	.	.	.	.	0.67	27	.	.
1993	JAN	.	.	0.049	27	0.52	260	.	.	0	27	1.2	110	.	.	0.12	27	0.35	78	.	.	.	27	4.2	66	.	.	0.59	27	1.7	61
1993	FEB	.	.	0	27	0.38	320	.	.	0	27	1.4	93	.	.	0	27	0.32	77	.	.	0.13	27	2.1	84	.	.	2.0	27	0.35	99
1993	MAR	.	.	0	27	0.27	330	.	.	0	27	6.1	60	.	.	0.11	27	0.25	79	.	.	0.23	27	2.6	72	.	.	0.45	27	0.70	69
1993	APR	.	.	0.050	27	0.53	180	.	.	2.4	27	1.3	94	.	.	0.30	27	0.16	96	.	.	0.72	27	2.1	69	.	.	1.0	27	1.0	62
1993	MAY	.	.	0.13	27	0.51	140	.	.	0.18	27	2.0	67	.	.	1.1	27	0.84	60	.	.	0.24	27	5.4	60	.	.	0.46	27	2.5	59
1993	JUN	.	.	0.082	27	.	.	.	.	0.70	27	1.4	63	.	.	0.46	27	0.35	60	.	.	0.99	27	4.2	59	.	.	0.80	27	3.1	58
1993	JUL	.	.	0.18	27	0.39	140	.	.	0.28	27	1.6	62	.	.	0.37	27	0.25	62	.	.	0.21	27	3.1	59	.	.	2.9	27	2.1	58
1993	AUG	.	.	0	27	0.23	180	.	.	0	27	0.31	120	.	.	0	27	0.17	64	.	.	0.10	27	1.8	60	.	.	0.51	27	0.78	59
1993	SEP	.	.	0.058	27	0.50	150	.	.	0.20	27	2.3	65	.	.	0	27	0.73	60	.	.	0.42	27	5.1	60	.	.	1.3	27	2.2	59
1993	OCT	.	.	.	27	0.43	210	.	.	0	27	1.0	97	.	.	0.45	27	0.58	63	.	.	0.40	27	2.8	65	.	.	0.77	27	0.83	63
1993	NOV	.	.	1.1	27	0.23	450	.	.	0.067	27	0.64	140	.	.	0.13	27	0.35	69	.	.	0.24	27	1.1	94	.	.	0.37	27	2.0	59
1993	DEC	.	.	.	.	0.50	71	.	.	.	27	1.7	59	.	.	0.26	27	.	.	.	.	0.11	27	2.0	59	.	.	0	27	1.2	62
1994	JAN	.	.	0	27	0.11	160	.	.	.	27	0.18	95	.	.	0	27	0.21	75	.	.	0.32	27	1.7	59	.	.	0.77	27	0.88	59
1994	FEB	.	.	0	27	0.16	99	.	.	0	27	0.72	61	.	.	0	27	0.36	64	.	.	0	27	0.64	64	.	.	0	27	0.42	62
1994	MAR	.	.	0.064	27	0.24	75	.	.	0	27	0.20	75	.	.	0	27	0.18	69	.	.	0.39	27	1.6	59	.	.	0.099	27	0.76	59
1994	APR	.	.	0.082	27	.	.	.	.	0.092	27	.	.	.	.	0	27	0.94	59	.	.	0.61	27	.	.	.	.	0.31	27	5.7	58
1994	MAY	.	.	0.045	27	.	.	.	.	0.39	27	.	.	.	.	0.23	27	0.32	61	.	.	0.55	27	.	.	.	.	2.1	27	2.5	58
1994	JUN	.	.	0.43	27	.	.	.	.	0.17	27	.	.	.	.	0	27	0.17	60	.	.	0.70	27	.	.	.	.	0.12	27	2.8	58
1994	JUL	.	.	0.012	27	.	.	.	.	0.18	27	.	.	.	.	0	27	0.29	59	.	.	0.24	27	.	.	.	.	0.31	27	2.7	58
1994	AUG	.	.	0.13	27	0.28	60	.	.	0.15	27	1.2	58	.	.	0.29	27	0.39	59	.	.	0.60	27	3.2	58	.	.	0.27	27	2.0	58
1994	SEP	.	.	0.62	27	0.26	62	.	.	0.14	27	0.27	61	.	.	0.12	27	0.17	63	.	.	0.23	27	1.5	58	.	.	0.14	27	1.7	58
1994	OCT	.	.	0	27	0.43	64	.	.	0.18	27	0.89	59	.	.	0.16	27	0.30	61	.	.	0.10	27	1.1	59	.	.	0	27	1.0	58
1994	NOV	.	.	0.21	27	0.39	70	.	.	0.87	27	1.4	59	.	.	0	27	0.43	62	.	.	0.19	27	2.8	59	.	.	0.62	27	3.1	58
1994	DEC	.	.	0.042	27	0.18	580	.	.	0.023	27	0.53	160	.	.	0	27	0.35	67	.	.	0	27	1.9	74	.	.	0.63	27	1.3	61
1995	JAN	.	.	0.038	27	0.23	80	.	.	.	.	0.28	68	.	.	0.54	27	0	.	.	.	2.7	27	1.7	59	.	.	1.6	27	1.9	60
1995	FEB	.	.	0.42	27	0.19	93	.	.	.	.	0.50	62	.	.	0.69	27	0.51	140	.	.	0.18	27	1.8	59	.	.	0.23	27	0.75	72
1995	MAR	.	.	0.059	27	0.11	110	.	.	0.13	27	0.55	60	.	.	0.75	27	0.32	140	.	.	0.54	27	1.2	59	.	.	0.086	27	0.46	71
1995	APR	.	.	0.10	27	0.11	99	.	.	0.60	27	0.51	61	.	.	0.49	27	0.35	150	.	.	3.2	27	1.6	59	.	.	0.68	27	1.8	60
1995	MAY	.	.	0.050	27	0.29	62	.	.	1.4	27	1.8	58	.	.	0.48	27	0.25	130	.	.	0.52	27	2.3	58	.	.	4.2	27	1.0	60
1995	JUN	.	.	0.026	27	0.18	63	.	.	0.058	27	0.85	58	.	.	0	27	0.16	120	.	.	0.074	27	1.3	58	.	.	3.6	27	0.50	60
1995	JUL	.	.	0.17	27	0.20	61	.	.	0.095	27	1.2	58	.	.	0.12	27	0.26	83	.	.	0.29	27	2.6	58	.	.	0.61	27	1.8	58
1995	AUG	.	.	0.046	27	0.39	59	.	.	0.063	27	0.49	58	.	.	1.2	27	0.25	82	.	.	0.44	27	1.4	58	.	.	0.69	27	0.91	59
1995	SEP	.	.	.	.	0.35	60	.	.	0.22	27	0.88	58	.	.	0	27	0.32	89	.	.	0.14	27	2.3	58	.	.	0	27	1.2	59
1995	OCT	.	.	.	.	0.42	61	.	.	0.20	27	0.79	59	.	.	0	27	0.35	140	.	.	0.48	27	3.5	58	.	.	0.70	27	2.5	59
1995	NOV	.	.	0.23	27	0.12	110	.	.	0.16	27	0.60	61	.	.	0.37	27	0.099	550	.	.	1.6	27	1.6	59	.	.	0.22	27	1.3	62
1995	DEC	.	.	0.17	27	0.27	82	.	.	0.081	27	1.1	60	.	.	0.34	27	0.62	60	.	.	0.12	27	2.3	59	.	.	0.15	27	1.8	59
1996	JAN	.	.	0.15	27	0.16	62	.	.	0.055	27	0.26	60	.	.	0.97	27	0.27	60	.	.	0.26	27	1.3	58	.	.	1.1	27	1.1	59
1996	FEB	.	.	0.044	27	0.019	180	.	.	0.074	27	0.13	63	.	.	0.37	27	0.25	60	.	.	0	27	0.23	60	.	.	0.29	27	0.51	61
1996	MAR	.	.	0.005	27	0.11	64	.	.	0.18	27	0.31	59	.	.	0.018	27	0.31	59	.	.	0.92	27	0.55	59	.	.	0.92	27	0.41	63
1996	APR	.	.	0.037	27	0.096	64	.	.	0	27	0.51	59	.	.	0.25	27	0.26	59	.	.	1.2	27	1.9	58	.	.	0.38	27	0.97	59
1996	MAY	.	.	0.054	27	0.17	59	.	.	0	27	1.1	58	.	.	0.025	27	0.23	59	.	.	0.32	27	4.6	58	.	.	0.80	27	2.3	58
1996	JUN	.	.	0.035	27	0.20	59	.	.	0.23	27	0.57	58	.	.	0.032	27	0.18	59	.	.	0.20	27	2.1	58	.	.	1.6	27	1.5	58
1996	JUL	.	.	0.044	27	0.30	58	.	.	0.10	27	0.69	58	.	.	0.035	27	0.061	60	.	.	0.11	27	1.5	58	.	.	0.50	27	0.71	58
1996	AUG	.	.	0.024	27	0.20	58	.	.	0.045	27	0.82	58	.	.	0	27	0.084	59	.	.	0.066	27	0.81	58	.	.	1.3	27	1.4	58
1996	SEP	.	.	0.071	27	0.10	59	.	.	0.28	27	1.5	58	.	.	0.81	27	0.086	59	.	.	0.31	27	1.6	58	.	.	1.0	27	0.46	59
1996	OCT	.	.	0.054	27	0.43	59	.	.	0.17	27	0.81	58	.	.	0.45	27	0.49	58	.	.	0.14	27	1.4	58	.	.	2.3	27	1.2	58
1996	NOV	.	.	0.053	27	0.50	59	.	.	0.11	27	0.85	58	.	.	0	27	0.48	58	.	.	0.18	27	1.2	58	.	.	2.1	27	0.51	60
1996	DEC	.	.	0.10	27	0.23	71	.	.	0.31	27	0.16	79	.	.	0	27	0.13	320	.	.	0.73	27	0.76	60	.	.	3.1	27	0.51	73

PP_DDE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.079	27	0.12	79	.	.	0.070	27	0.34	59	.	.	0	27	0.063	78	.	.	0.040	27	0.83	59	.	.	3.4	27	0.61	59
1997	FEB	.	.	0.094	27	0.054	110	.	.	0.20	27	0.14	64	.	.	0.79	27	0.12	63	.	.	0.14	27	2.9	58	.	.	21	27	1.3	58
1997	MAR	.	.	0.15	27	0.030	150	.	.	0.13	27	0.22	61	.	.	0.25	27	.	.	.	.	0.48	27	2.3	58	.	.	0.070	27	1.5	58
1997	APR	.	.	0.023	27	2.5	58	.	.	0.074	27	0.76	58	.	.	0	27	0.096	63	.	.	0.29	27	1.8	58	.	.	0.30	27	0.43	59
1997	MAY	.	.	0.066	27	0.16	61	.	.	0.21	27	0.58	59	.	.	0	27	0.15	61	.	.	0.50	27	2.8	58	.	.	0.28	27	0.74	58
1997	JUN	.	.	0.059	27	0.24	59	.	.	0.31	27	1.7	58	.	.	0.079	27	0.38	58	.	.	0.26	27	2.6	58	.	.	0.62	27	1.4	58
1997	JUL	.	.	0.053	27	0.27	59	.	.	0.067	27	1.0	58	.	.	3.6	27	0.15	59	.	.	0.085	27	2.2	58	.	.	0.37	27	2.6	58
1997	AUG	.	.	0	27	0.20	59	.	.	0.13	27	0.80	58	.	.	1.4	27	0.14	59	.	.	0.14	27	1.5	58	.	.	0.39	27	0.64	58
1997	SEP	.	.	0.066	27	0.17	60	.	.	0.10	27	1.9	58	.	.	4.7	27	0.12	60	.	.	0.49	27	2.7	58	.	.	0.68	27	1.1	58
1997	OCT	.	.	0.084	27	0.54	59	.	.	0.032	27	1.6	58	.	.	0.16	27	0.52	58	.	.	0.11	27	1.6	58	.	.	0.048	27	0.73	58
1997	NOV	.	.	0.044	27	0.079	77	.	.	0.033	27	0.24	60	.	.	0	27	0.097	65	.	.	0.078	27	0.79	59	.	.	0.29	27	0.24	60
1997	DEC	.	.	0.033	27	0.20	60	.	.	0.067	27	0.48	58	.	.	0	27	0.14	62	.	.	0.041	27	1.1	58	.	.	0.30	27	0.76	59
1998	JAN	.	.	0.070	27	0.079	69	.	.	0.043	27	0.27	59	.	.	0	27	0.14	62	.	.	0.12	27	0.57	59	.	.	3.3	27	0.49	59
1998	FEB	.	.	0	27	0.29	59	.	.	0.024	27	0.53	58	.	.	0	27	0.20	60	.	.	0.052	27	1.8	58	.	.	0.16	27	0.38	60
1998	MAR	.	.	0.16	27	0.12	62	.	.	0.29	27	0.40	59	.	.	0.63	27	0.23	60	.	.	0.22	27	0.32	59	.	.	0.22	27	0.25	62
1998	APR	.	.	0.017	27	0.14	60	.	.	0.12	27	0.80	58	.	.	0.24	27	0.19	59	.	.	0.22	27	1.5	58	.	.	0.33	27	0.97	58
1998	MAY	.	.	0.39	27	0.38	58	.	.	0.23	27	0.92	58	.	.	0.28	27	0.19	59	.	.	0.043	27	1.3	58	.	.	0.26	27	0.43	58
1998	JUN	.	.	0.070	27	0.16	59	.	.	0.11	27	0.95	58	.	.	0.30	27	0.23	58	.	.	0.16	27	1.7	58	.	.	2.1	27	1.3	58
1998	JUL	.	.	0.013	27	0.10	59	.	.	0.053	27	0.72	58	.	.	0.24	27	0.084	59	.	.	0.20	27	2.8	58	.	.	0.78	27	0.74	58
1998	AUG	.	.	0.038	27	0.18	59	.	.	0.057	27	0.57	58	.	.	0.041	27	0.11	59	.	.	0.33	27	1.1	58	.	.	0.89	27	0.46	58
1998	SEP	.	.	0.054	27	0.17	59	.	.	0.085	27	0.43	58	.	.	0.078	27	0.28	58	.	.	0.048	27	3.0	58	.	.	0.83	27	1.5	58
1998	OCT	.	.	0.032	27	0.28	59	.	.	0.099	27	0.27	59	.	.	0.095	27	0.19	59	.	.	0.088	27	0.90	58	.	.	0.37	27	0.58	59
1998	NOV	.	.	0.043	27	0.12	62	.	.	0.099	27	0.36	59	.	.	0.13	27	0.27	59	.	.	0	27	1.3	58	.	.	0.33	27	1.4	58
1998	DEC	.	.	0.16	27	0.16	68	.	.	0.022	27	0.40	59	.	.	0.29	27	0.18	61	.	.	0.049	27	0.81	59	.	.	0.12	27	0.63	59
1999	JAN	.	.	0.062	27	0.23	61	.	.	0.14	27	0.26	59	.	.	0.36	27	0.18	59	.	.	0	27	0.64	59	.	.	0	27	0.49	59
1999	FEB	.	.	0.12	27	0.39	59	.	.	0.067	27	1.5	58	.	.	0.029	27	0.54	58	.	.	0.052	27	1.3	58	.	.	0.022	27	0.82	58
1999	MAR	.	.	0.13	27	0.14	63	.	.	0.047	27	0.79	58	.	.	0	27	0.065	61	.	.	0.23	27	2.0	58	.	.	0	27	0.84	58
1999	APR	.	.	0	27	0.10	64	.	.	1.8	27	0.62	58	.	.	0.14	27	0.15	59	.	.	0.71	27	1.3	58	.	.	0.44	27	0.49	59
1999	MAY	.	.	0.23	27	0.58	59	.	.	0.41	27	1.4	58	.	.	0.44	27	0.25	58	.	.	0.27	27	2.3	58	.	.	0.46	27	1.9	58
1999	JUN	.	.	0.051	27	0.40	58	.	.	0.061	27	1.8	58	.	.	0	27	0.25	58	.	.	0.15	27	1.4	58	.	.	0.17	27	1.1	58
1999	JUL	.	.	0.026	27	0.28	58	.	.	0.14	27	1.3	58	.	.	0	27	0.24	58	.	.	1.3	27	1.7	58	.	.	0.64	27	2.1	58
1999	AUG	.	.	0.015	27	0.22	59	.	.	0.091	27	0.71	58	.	.	0.052	27	0.11	58	.	.	0.045	27	1.7	58	.	.	0.24	27	0.30	58
1999	SEP	.	.	0.13	27	0.15	59	.	.	0.065	27	0.78	58	.	.	0.090	27	0.13	58	.	.	0.081	27	1.7	58	.	.	0.22	27	0.75	58
1999	OCT	.	.	0.36	27	0.33	59	.	.	0.059	27	1.4	58	.	.	0.099	27	0.28	58	.	.	0.089	27	2.1	58	.	.	0.20	27	1.3	58
1999	NOV	.	.	0.017	27	0.22	61	.	.	0.038	27	0.42	59	.	.	0.21	27	0.17	59	.	.	0.052	27	1.9	58	.	.	0.31	27	1.5	58
1999	DEC	.	.	0.022	27	0.33	59	.	.	0.053	27	0.25	59	.	.	0.21	27	0.53	59	.	.	0.099	27	2.0	58	.	.	0.26	27	1.6	58
2000	JAN	.	.	0	27	0.11	71	.	.	0	27	0.31	60	.	.	0.074	27	0.14	88	.	.	0.16	27	0.69	59	.	.	1.7	27	.	.
2000	FEB	.	.	0.034	27	0.16	64	.	.	0.15	27	0.32	59	.	.	0.14	27	0.15	87	.	.	0.095	27	0.36	60	.	.	0.24	27	.	.
2000	MAR	.	.	0.052	27	0.18	61	.	.	0.18	27	0.53	59	.	.	0.13	27	0.25	64	.	.	0.49	27	1.1	58	.	.	0.43	27	.	.
2000	APR	.	.	0.042	27	0.20	60	.	.	0.057	27	0.67	58	.	.	0.33	27	0.15	69	.	.	0.41	27	2.2	58	.	.	0.50	27	0.84	58
2000	MAY	.	.	0.029	27	0.25	59	.	.	0.10	27	1.4	58	.	.	0.24	27	0.38	59	.	.	0.16	27	6.0	58	.	.	0.74	27	1.9	58
2000	JUN	.	.	0	27	0.20	59	.	.	0	27	0.52	58	.	.	0.15	27	0.086	66	.	.	0.075	27	2.4	58	.	.	0.77	27	0.79	58
2000	JUL	.	.	0	27	0.099	60	.	.	0	27	0.53	58	.	.	0.038	27	0.061	65	.	.	0.037	27	0.86	58	.	.	0.46	27	0.49	58
2000	AUG	.	.	0.009	27	0.077	60	.	.	0.028	27	0.29	58	.	.	0.19	27	0.19	59	.	.	0.073	27	1.2	58	.	.	0.40	27	0.59	58
2000	SEP	.	.	0.015	27	0.19	59	.	.	0.11	27	1.4	58	.	.	0.10	27	0.32	59	.	.	0.11	27	2.3	58	.	.	0.11	27	0.62	58
2000	OCT	.	.	0	27	0.040	82	.	.	0.028	27	0.32	59	.	.	0.036	27	0.12	64	.	.	0.11	27	1.7	58	.	.	0.24	27	0.39	58
2000	NOV	.	.	0	27	0.11	65	.	.	0.034	27	0.33	59	.	.	0.093	27	0.48	59	.	.	0.14	27	1.2	58	.	.	0.39	27	0.51	58
2000	DEC	.	.	0.044	27	0.25	60	.	.	0.072	27	1.2	58	.	.	0.53	27	0.33	58	.	.	0.065	27	1.0	58	.	.	0.78	27	1.3	58

PP_DDD (ng/m ^{2}/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0	27	0	.	.	.	0	27	0.82	59	.	.	.	.	.	.	.	.	0.23	27	1.3	59	.	.	0	27	0.007	2100
1992	FEB	.	.	.	.	0.23	66	.	.	.	.	0.23	65	.	.	.	.	.	.	.	.	.	.	0.29	63	.	.	0	27	0.14	110
1992	MAR	.	.	0	27	0.72	59	.	.	0	27	0.33	61	.	.	.	.	.	.	.	.	0.017	27	0.89	59	.	.	0	27	0.38	68
1992	APR	.	.	0	27	0.31	61	.	.	0.14	27	0.63	59	.	.	.	.	.	.	.	.	0.13	27	4.6	58	.	.	0	27	0.15	92
1992	MAY	.	.	0	27	0.24	85	.	.	0	27	1.1	59	.	.	0	27	.	.	.	.	0	27	3.4	58	.	.	0	27	0.22	72
1992	JUN	.	.	0	27	0	.	.	.	0.050	27	0.20	160	.	.	0.81	27	.	.	.	.	0.66	27	0.64	76	.	.	0.098	27	0.16	82
1992	JUL	.	.	0.26	27	0.47	86	.	.	0.71	27	2.6	59	.	.	0	27	.	.	.	.	1.2	27	7.9	58	.	.	0	27	0.26	69
1992	AUG	.	.	.	.	0.72	73	.	.	.	.	1.3	65	.	.	0	27	.	.	.	.	0.12	27	6.4	59	.	.	0.17	27	0.21	75
1992	SEP	.	.	0	27	1.3	67	.	.	0	27	2.1	61	.	.	0	27	.	.	.	.	0.01	27	1.4	66	.	.	0	27	0.32	69
1992	OCT	.	.	.	.	0.51	97	.	.	0.005	27	2.4	61	.	.	0	27	.	.	.	.	.	.	2.9	61	.	.	0	27	0.050	250
1992	NOV	.	.	0	27	0.19	260	.	.	0.15	27	0.38	140	.	.	0	27	.	.	.	.	0	27	1.8	65	.	.	0.32	27	0	.
1992	DEC	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0.22	27	.	.	.	.	0	27	.	.
1993	JAN	.	.	0	27	0.13	720	.	.	0	27	0.066	1200	.	.	0	27	0.045	340	.	.	.	.	0.63	160	.	.	0	27	0.17	100
1993	FEB	.	.	0	27	0.072	1200	.	.	0	27	0.099	790	.	.	0	27	0	.	.	.	0	27	0.35	260	.	.	0.12	27	0.053	290
1993	MAR	.	.	0	27	0	.	.	.	0	27	4.8	60	.	.	0	27	0.015	1000	.	.	0	27	1.1	92	.	.	0	27	0.045	340
1993	APR	.	.	0.036	27	0	.	.	.	0	27	0.60	130	.	.	0.18	27	0.023	640	.	.	0	27	0	.	.	.	0	27	0.094	170
1993	MAY	.	.	0.50	27	0.043	1300	.	.	0	27	0.56	120	.	.	0	27	0.054	280	.	.	0	27	1.3	75	.	.	0	27	0.13	130
1993	JUN	.	.	1.6	27	.	.	.	.	0.53	27	0.94	81	.	.	0.18	27	0.13	130	.	.	0	27	4.0	60	.	.	0	27	0.46	67
1993	JUL	.	.	0	27	0.14	400	.	.	0	27	0.97	81	.	.	0	27	0.093	170	.	.	0.39	27	4.2	60	.	.	0.76	27	0.39	70
1993	AUG	.	.	0	27	0.13	390	.	.	0	27	0.31	180	.	.	0	27	0	.	.	.	0	27	2.5	62	.	.	0.24	27	0.12	140
1993	SEP	.	.	0	27	0.20	350	.	.	0	27	1.1	85	.	.	0	27	0.14	120	.	.	0	27	4.2	61	.	.	0	27	0.45	67
1993	OCT	.	.	.	.	0.40	210	.	.	0	27	0.62	140	.	.	0	27	0.20	95	.	.	0	27	1.1	95	.	.	0	27	0.13	130
1993	NOV	.	.	0	27	0.082	1100	.	.	0	27	0.061	1300	.	.	0	27	0.047	320	.	.	0	27	0.50	190	.	.	0	27	0.23	87
1993	DEC	.	.	.	.	0	.	.	.	.	.	0.087	530	.	.	0	27	.	.	.	.	0	27	0.32	180	.	.	0	27	0.074	200
1994	JAN	.	.	0	27	0.068	740	.	.	.	.	0	.	.	.	0	27	0.051	220	.	.	0	27	0	.	.	.	0	27	0.22	200
1994	FEB	.	.	0	27	0	.	.	.	0	27	0.24	190	.	.	0	27	0.056	190	.	.	0.12	27	0	.	.	.	0	27	0.055	62
1994	MAR	.	.	1.4	27	0	.	.	.	0	27	0	.	.	.	0	27	0.033	250	.	.	0.34	27	0.36	130	.	.	0	27	0.10	95
1994	APR	.	.	0	27	.	.	.	.	0.069	27	.	.	.	.	0	27	0.20	75	.	.	0.27	27	.	.	.	.	0	27	0.44	67
1994	MAY	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.17	73	.	.	0	27	.	.	.	.	0	27	0.34	59
1994	JUN	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.050	140	.	.	0	27	.	.	.	.	0	27	0.53	59
1994	JUL	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.097	86	.	.	0	27	.	.	.	.	0	27	0.32	59
1994	AUG	.	.	2.7	27	1.5	61	.	.	5.3	27	1.1	65	.	.	0	27	0.14	80	.	.	0.63	27	1.2	64	.	.	0	27	0.35	59
1994	SEP	.	.	0.71	27	0.53	84	.	.	2.2	27	0.83	70	.	.	0	27	0.072	120	.	.	0	27	0.53	91	.	.	0	27	0.19	59
1994	OCT	.	.	0.20	27	0	.	.	.	0.036	27	0.37	120	.	.	0	27	0.14	88	.	.	0.039	27	1.3	65	.	.	0	27	0.064	61
1994	NOV	.	.	0	27	0.61	100	.	.	0	27	0.46	120	.	.	0	27	0.17	91	.	.	0	27	1.4	70	.	.	0	27	0.19	75
1994	DEC	.	.	0	27	0	.	.	.	0	27	0.092	750	.	.	0	27	0.024	630	.	.	0	27	0.41	200	.	.	0	27	0.13	63
1995	JAN	.	.	0	27	0.083	330	.	.	.	.	0.13	190	.	.	0	27	0	.	.	.	0.36	27	0.85	67	.	.	0	27	0.14	.
1995	FEB	.	.	0.11	27	0	.	.	.	.	.	0.092	270	.	.	0	27	0	.	.	.	0.16	27	0.77	68	.	.	0	27	0.025	1200
1995	MAR	.	.	0.029	27	0.14	170	.	.	0	27	0.051	400	.	.	0.039	27	0	.	.	.	0.33	27	0.18	120	.	.	0.10	27	0.034	590
1995	APR	.	.	0.049	27	0.19	120	.	.	0.068	27	0.10	220	.	.	0	27	0	.	.	.	0.30	27	0.059	390	.	.	0	27	0.13	190
1995	MAY	.	.	0	27	0.20	100	.	.	0	27	0.23	97	.	.	0	27	0.11	350	.	.	0.030	27	0.48	70	.	.	0.53	27	0	.
1995	JUN	.	.	0.028	27	0.24	86	.	.	0.20	27	0.12	140	.	.	0	27	.	.	.	.	0	27	0.29	77	.	.	0	27	0.065	250
1995	JUL	.	.	0.015	27	0.11	140	.	.	0.050	27	0.17	110	.	.	0	27	0.12	300	.	.	0.13	27	0.51	66	.	.	0	27	0.22	98
1995	AUG	.	.	0	27	0.69	63	.	.	0.0030	27	0.12	140	.	.	0	27	.	.	.	.	0.12	27	0.22	92	.	.	0	27	0.24	93
1995	SEP	.	.	.	.	0.051	380	.	.	0.024	27	0.31	86	.	.	0	27	0.058	710	.	.	0	27	0.47	71	.	.	0	27	0.22	110
1995	OCT	.	.	.	.	0.076	320	.	.	0.073	27	0.060	400	.	.	0	27	0.049	1100	.	.	0.24	27	0.26	120	.	.	0	27	0.22	130
1995	NOV	.	.	0	27	0.64	71	.	.	0.076	27	0	.	.	.	0	27	0.060	970	.	.	0.41	27	0.016	1700	.	.	0	27	0.085	340
1995	DEC	.	.	0.53	27	0.38	140	.	.	0	27	0.29	170	.	.	0	27	0.035	320	.	.	0.18	27	20	58	.	.	0	27	0.063	88
1996	JAN	.	.	0	27	0.59	530	.	.	0	27	1.0	300	.	.	0	27	0	.	.	.	0.014	27	1.5	240	.	.	0	27	0	.
1996	FEB	.	.	0	27	0	.	.	.	0.073	27	0.23	1300	.	.	0.016	27	0.018	460	.	.	0	27	3.0	120	.	.	0.057	27	0	.
1996	MAR	.	.	0	27	0	.	.	.	0	27	0	.	.	.	0	27	0.044	190	.	.	0.17	27	0	.	.	.	0	27	.	.
1996	APR	.	.	0	27	0	.	.	.	0	27	0	.	.	.	0	27	0.045	170	.	.	0	27	0	.	.	.	0	27	0.10	100
1996	MAY	.	.	0	27	0	.	.	.	0	27	0	.	.	.	0.12	27	0.039	160	.	.	0.037	27	0	.	.	.	0.26	27	0.21	67
1996	JUN	.	.	0	27	0	.	.	.	0	27	0.056	3500	.	.	0	27	0.064	97	.	.	0	27	0	.	.	.	0	27	0.21	65
1996	JUL	.	.	0.010	27	0.43	470	.	.	0.15	27	0.22	820	.	.	0	27	0.050	120	.	.	0	27	0.33	600	.	.	0	27	0.14	74
1996	AUG	.	.	0	27	0.69	270	.	.	0	27	0.72	250	.	.	0	27	0.0090	550	.	.	0	27	0.56	300	.	.	0	27	0.24	63
1996	SEP	.	.	0	27	1.7	140	.	.	0.13	27	2.6	100	.	.	0	27	0.048	130	.	.	0.31	27	1.9	140	.	.	0	27	0.096	95
1996	OCT	.	.	0.19	27	0.48	600	.	.	0.054	27	0.92	310	.	.	1.4	27	0.14	81	.	.	0	27	0.64	450	.	.	0	27	0.15	82
1996	NOV	.	.	0	27	0	.	.	.	0.037	27	0	.	.	.	0	27	0.050	160	.	.	0.016	27	0	.	.	.	0	27	0.12	92
1996	DEC	.	.	0	27	0.64	69	.	.	0.18	27	1.0	62	.	.	0	27	0.11	430	.	.	12	27	2.4	59	.	.	0	27	0	.

PP_DDD (ng/m^2/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0	27	0	.	.	.	0	27	0.23	180	.	.	0	27	0.015	450	.	.	0.013	27	0.41	160	.	.	1.4	27	0.065	120
1997	FEB	.	.	0	27	0.082	530	.	.	0.077	27	0.54	88	.	.	0	27	0.066	110	.	.	0.055	27	1.0	75	.	.	0.93	27	0.11	78
1997	MAR	.	.	0	27	0.10	400	.	.	0	27	0	.	.	.	0	27	.	.	.	.	0.17	27	0.085	590	.	.	0	27	0.13	75
1997	APR	.	.	0	27	0.23	170	.	.	0	27	0	.	.	.	0	27	0.046	130	.	.	0.095	27	0.080	520	.	.	0	27	0.083	83
1997	MAY	.	.	0	27	0.32	120	.	.	0	27	0	.	.	.	0	27	0.13	73	.	.	0.046	27	0	.	.	.	0	27	0.11	73
1997	JUN	.	.	0	27	0.71	70	.	.	0	27	0	.	.	.	0	27	0.11	69	.	.	0	27	0	.	.	.	0	27	0.23	60
1997	JUL	.	.	0.017	27	0.37	97	.	.	0	27	0.11	250	.	.	4.2	27	0.077	82	.	.	0.046	27	0.21	160	.	.	0	27	0.34	59
1997	AUG	.	.	0	27	0.72	71	.	.	0	27	0.70	73	.	.	2.1	27	0.077	86	.	.	0	27	1.4	63	.	.	0	27	0.21	61
1997	SEP	.	.	0	27	0.086	480	.	.	0	27	0.12	300	.	.	6.0	27	0.067	100	.	.	0.25	27	0.17	240	.	.	0	27	0.15	67
1997	OCT	.	.	0	27	0.48	110	.	.	0	27	1.0	72	.	.	0	27	0.098	88	.	.	0.15	27	1.8	63	.	.	0	27	0.12	72
1997	NOV	.	.	0	27	0.59	93	.	.	0	27	1.2	67	.	.	0	27	0.037	200	.	.	0.17	27	1.0	77	.	.	0	27	0	.
1997	DEC	.	.	0	27	0.058	4900	.	.	0.011	27	0	.	.	.	0	27	0.028	300	.	.	0	27	1.7	190	.	.	0	27	0.048	210
1998	JAN	.	.	0	27	0.15	420	.	.	0	27	0.13	400	.	.	0	27	0	.	.	.	1.5	27	0.51	140	.	.	0	27	0.045	160
1998	FEB	.	.	0	27	0.15	340	.	.	0	27	0.25	180	.	.	0	27	0.027	240	.	.	0.089	27	0.68	100	.	.	0	27	0.039	150
1998	MAR	.	.	0.016	27	0.78	93	.	.	0.12	27	1.4	71	.	.	0	27	0.048	160	.	.	0.091	27	3.3	62	.	.	0	27	.	.
1998	APR	.	.	0.010	27	0.51	110	.	.	0.17	27	0.42	120	.	.	0	27	0.047	140	.	.	0.26	27	1.2	72	.	.	0	27	0.068	93
1998	MAY	.	.	0	27	0	.	.	.	0.078	27	0.79	79	.	.	0.28	27	0.089	83	.	.	0.049	27	0.22	200	.	.	0.12	27	0.049	100
1998	JUN	.	.	0.057	27	0	.	.	.	0.054	27	0	.	.	.	0.20	27	0.10	76	.	.	0.063	27	0.48	110	.	.	0.45	27	0.16	64
1998	JUL	.	.	0.017	27	0.016	2500	.	.	0.009	27	0	.	.	.	0	27	0.027	200	.	.	0	27	0.059	710	.	.	0.10	27	0.068	82
1998	AUG	.	.	0	27	0	.	.	.	0.025	27	0.17	220	.	.	0	27	0.12	72	.	.	0.10	27	0.59	89	.	.	0.33	27	0.19	61
1998	SEP	.	.	0	27	0	.	.	.	0.016	27	0	.	.	.	0	27	0.059	110	.	.	0.030	27	0.040	1200	.	.	0	27	0.23	62
1998	OCT	.	.	0.21	27	0.37	180	.	.	0.086	27	0.18	310	.	.	0	27	0.10	92	.	.	0.25	27	0.21	290	.	.	0	27	0.080	93
1998	NOV	.	.	0.027	27	0.64	120	.	.	0	27	0.63	110	.	.	0	27	0.046	180	.	.	0	27	2.6	63	.	.	0.082	27	0.12	81
1998	DEC	.	.	0	27	0.66	98	.	.	0.49	27	1.2	69	.	.	0	27	0.024	300	.	.	0.12	27	1.2	73	.	.	0	27	0.047	150
1999	JAN	.	.	0	27	1.2	70	.	.	0.10	27	0.65	79	.	.	0	27	0.009	540	.	.	0	27	7.8	59	.	.	0	27	0.041	160
1999	FEB	.	.	0.054	27	0.49	110	.	.	0.015	27	0.84	71	.	.	0	27	0	.	.	.	0	27	9.0	58	.	.	0	27	0	.
1999	MAR	.	.	0	27	1.3	65	.	.	0	27	1.7	62	.	.	0	27	0	.	.	.	0	27	6.9	59	.	.	0	27	0	.
1999	APR	.	.	0	27	0.39	100	.	.	0.24	27	0.35	110	.	.	0	27	0.024	170	.	.	0	27	0.76	78	.	.	0	27	0.019	240
1999	MAY	.	.	0	27	0.58	83	.	.	0.0090	27	2.0	60	.	.	0.062	27	0.086	70	.	.	0	27	0.51	86	.	.	0.11	27	0.18	61
1999	JUN	.	.	0	27	0.043	620	.	.	0.010	27	1.5	60	.	.	0	27	0.035	97	.	.	0	27	0.79	67	.	.	0.18	27	0.27	59
1999	JUL	.	.	0.003	27	0.040	650	.	.	0.038	27	0.091	270	.	.	0	27	0.019	170	.	.	0	27	0.25	130	.	.	0.13	27	0.37	59
1999	AUG	.	.	0	27	0	.	.	.	0	27	0.50	79	.	.	0.11	27	0	.	.	.	0	27	1.6	61	.	.	0.028	27	.	.
1999	SEP	.	.	0	27	0.16	230	.	.	0	27	0.74	71	.	.	0	27	0.026	150	.	.	0	27	0.37	100	.	.	0.069	27	0.16	63
1999	OCT	.	.	0	27	1.2	69	.	.	0.015	27	2.9	60	.	.	0	27	.	.	.	.	0	27	0.15	290	.	.	0	27	0.12	71
1999	NOV	.	.	0	27	0.12	400	.	.	0.024	27	0.20	210	.	.	0.043	27	0.020	270	.	.	0	27	0	.	.	.	0.082	27	0.14	73
1999	DEC	.	.	0	27	0.94	94	.	.	0	27	2.6	63	.	.	0	27	0.24	70	.	.	0	27	7.5	59	.	.	0	27	0.10	92
2000	JAN	.	.	0	27	0.22	130	.	.	0	27	0.57	74	.	.	0.042	27	0.018	500	.	.	0	27	0.99	66	.	.	0.89	27	.	.
2000	FEB	.	.	0	27	0.57	73	.	.	0.090	27	0.89	64	.	.	0	27	0.040	220	.	.	0	27	0	.	.	.	0	27	.	.
2000	MAR	.	.	0	27	0.051	430	.	.	0.077	27	0.27	95	.	.	0	27	0.038	180	.	.	0	27	0.35	87	.	.	0	27	.	.
2000	APR	.	.	0	27	0.83	63	.	.	0	27	0.17	140	.	.	0	27	0.027	230	.	.	0	27	0.12	180	.	.	0	27	.	.
2000	MAY	.	.	0	27	0.33	77	.	.	0	27	0.31	83	.	.	0	27	0.027	200	.	.	0	27	0.13	160	.	.	0.096	27	0.11	80
2000	JUN	.	.	0	27	0	.	.	.	0	27	0.12	160	.	.	0	27	0.037	140	.	.	0	27	0.87	62	.	.	0.10	27	0.063	110
2000	JUL	.	.	0	27	0.22	91	.	.	0	27	0	.	.	.	0.056	27	0.040	120	.	.	0	27	0.64	63	.	.	0	27	0.089	83
2000	AUG	.	.	0	27	0	.	.	.	0.005	27	0.023	700	.	.	0.045	27	0.093	78	.	.	0	27	0.056	300	.	.	0.039	27	0.13	74
2000	SEP	.	.	0	27	0	.	.	.	0	27	0	.	.	.	0	27	0.080	99	.	.	0.024	27	0	.	.	.	0.072	27	0.23	65
2000	OCT	.	.	0	27	0.16	150	.	.	0	27	0.26	100	.	.	0	27	0.037	170	.	.	0	27	0.18	120	.	.	0	27	0.019	360
2000	NOV	.	.	0	27	0.025	970	.	.	0	27	0.087	290	.	.	0.11	27	0.074	110	.	.	0.067	27	0.66	71	.	.	0	27	0.062	150
2000	DEC	.	.	0	27	0.57	95	.	.	0.14	27	1.5	65	.	.	0	27	0.037	140	.	.	0.058	27	0.090	530	.	.	0.34	27	0.14	74

PP_DDT (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.18	27	0	.	.	.	1.4	27	1.6	62	.	.	.	.	.	.	.	.	3.9	27	1.9	62	.	.	0	27	0.52	100
1992	FEB	.	.	.	.	0	.	.	.	.	.	0.32	120	.	.	.	.	.	.	.	.	.	.	0.57	87	.	.	0	27	0.62	90
1992	MAR	.	.	0.39	27	0.57	81	.	.	0.054	27	0.22	150	.	.	.	.	.	.	.	.	0	27	0.53	92	.	.	0.30	27	0.80	80
1992	APR	.	.	0.027	27	0.44	89	.	.	4.3	27	1.4	63	.	.	.	.	.	.	.	.	3.6	27	8.0	58	.	.	0.57	27	1.1	66
1992	MAY	.	.	0	27	1.3	59	.	.	1.5	27	2.3	58	.	.	0.27	27	.	.	.	.	0.60	27	7.2	58	.	.	1.3	27	1.1	64
1992	JUN	.	.	0.18	27	0.77	160	.	.	0.35	27	0.65	180	.	.	4.9	27	.	.	.	.	6.0	27	1.1	120	.	.	0	27	1.1	63
1992	JUL	.	.	5.3	27	0.97	130	.	.	3.4	27	4.2	64	.	.	0	27	.	.	.	.	22	27	13	59	.	.	0.57	27	2.1	60
1992	AUG	.	.	.	27	4.2	65	.	.	.	27	3.4	70	.	.	0	27	.	.	.	.	0.56	27	6.7	62	.	.	0	27	1.9	61
1992	SEP	.	.	0.11	27	0.17	980	.	.	0	27	2.2	93	.	.	2.2	27	.	.	.	.	0.35	27	4.2	70	.	.	0	27	1.6	63
1992	OCT	.	.	.	27	3.0	77	.	.	0.29	27	13	60	.	.	3.5	27	.	.	.	.	.	27	2.4	94	.	.	2.9	27	0.32	140
1992	NOV	.	.	3.5	27	0.84	240	.	.	1.9	27	2.4	96	.	.	0	27	.	.	.	.	0	27	1.4	160	.	.	3.2	27	0.51	110
1992	DEC	.	.	0	27	.	.	.	.	1.4	27	.	.	.	.	.	.	.	.	.	.	0.53	27	.	.	.	.	0	27	.	.
1993	JAN	.	.	0	27	0.39	910	.	.	4.6	27	3.1	120	.	.	0	27	0.32	66	.	.	.	27	6.8	79	.	.	2.3	27	0.29	61
1993	FEB	.	.	1.9	27	0	.	.	.	0.57	27	0.57	540	.	.	0	27	0.035	250	.	.	0	27	3.7	110	.	.	0	27	0.25	61
1993	MAR	.	.	1.7	27	0	.	.	.	0.71	27	16	61	.	.	0	27	0.075	120	.	.	9.5	27	5.8	80	.	.	0	27	0.35	60
1993	APR	.	.	0	27	0.22	1200	.	.	7.5	27	2.6	130	.	.	0	27	0.089	100	.	.	34	27	1.9	150	.	.	0	27	0.55	59
1993	MAY	.	.	0	27	0.93	250	.	.	1.9	27	2.2	120	.	.	0	27	0.47	60	.	.	4.3	27	6.4	70	.	.	0	27	1.2	58
1993	JUN	.	.	0	27	.	.	.	.	1.3	27	3.2	84	.	.	0	27	0.65	59	.	.	0	27	8.8	63	.	.	0	27	3.9	58
1993	JUL	.	.	110	27	1.9	130	.	.	4.3	27	2.3	100	.	.	0	27	0.45	60	.	.	16	27	5.0	72	.	.	0	27	2.5	58
1993	AUG	.	.	1.5	27	0.66	300	.	.	1.4	27	0.93	210	.	.	0	27	0.33	60	.	.	0.24	27	5.3	67	.	.	0.43	27	1.0	58
1993	SEP	.	.	0.39	27	1.2	230	.	.	0	27	3.4	98	.	.	0	27	1.0	59	.	.	0.90	27	11	64	.	.	0	27	2.2	58
1993	OCT	.	.	.	27	1.8	180	.	.	0	27	1.9	180	.	.	0	27	0.42	62	.	.	3.2	27	4.9	88	.	.	0.55	27	0.37	60
1993	NOV	.	.	0	27	0.10	3300	.	.	3.2	27	1.3	250	.	.	0	27	0.21	72	.	.	3.8	27	1.8	200	.	.	0	27	0.92	59
1993	DEC	.	.	.	.	0.24	820	.	.	.	27	1.4	140	.	.	0	27	.	.	.	.	1.8	27	2.9	95	.	.	0	27	0.40	.
1994	JAN	.	.	0	27	0	.	.	.	.	27	0.041	1600	.	.	0	27	0.29	78	.	.	3.2	27	1.4	83	.	.	0	27	0.44	63
1994	FEB	.	.	0	27	0.029	2200	.	.	3.9	27	0.33	200	.	.	0	27	0.33	72	.	.	3.2	27	0.14	520	.	.	0	27	0.19	79
1994	MAR	.	.	3.0	27	0	.	.	.	0.53	27	0	.	.	.	0	27	0.20	82	.	.	2.7	27	1.0	82	.	.	0	27	0.37	63
1994	APR	.	.	0.12	27	.	.	.	.	0.40	27	.	.	.	.	0	27	0.54	63	.	.	2.1	27	.	.	.	.	0	27	3.8	58
1994	MAY	.	.	0.57	27	.	.	.	.	3.7	27	.	.	.	.	0	27	0.26	71	.	.	0	27	.	.	.	.	0.94	27	1.4	59
1994	JUN	.	.	6.1	27	.	.	.	.	2.4	27	.	.	.	.	0	27	0.25	66	.	.	0.62	27	.	.	.	.	0	27	3.8	58
1994	JUL	.	.	1.6	27	.	.	.	.	6.3	27	.	.	.	.	0	27	0.77	59	.	.	0.17	27	.	.	.	.	1.3	27	3.9	58
1994	AUG	.	.	0	27	0.63	85	.	.	1.9	27	2.4	61	.	.	0	27	0.70	60	.	.	2.8	27	7.9	59	.	.	0	27	2.7	58
1994	SEP	.	.	10	27	0.21	210	.	.	2.4	27	0.086	510	.	.	0	27	0.24	72	.	.	0.070	27	0.97	79	.	.	0	27	1.3	59
1994	OCT	.	.	0	27	0	.	.	.	0	27	0.87	85	.	.	0	27	0.28	73	.	.	0.035	27	2.7	62	.	.	0	27	0.86	59
1994	NOV	.	.	0	27	0	.	.	.	3.0	27	0	.	.	.	0	27	0.20	98	.	.	0.48	27	1.7	74	.	.	0	27	2.1	59
1994	DEC	.	.	0	27	0.35	920	.	.	1.8	27	0.43	630	.	.	0	27	0.13	81	.	.	0	27	2.7	130	.	.	0	27	0.67	59
1995	JAN	.	.	0	27	0	.	.	.	.	.	0.45	620	.	.	0	27	0	.	.	.	1.3	27	0.17	1900	.	.	0.23	27	1.4	60
1995	FEB	.	.	0	27	1.4	250	.	.	.	.	1.9	170	.	.	0	27	0.23	230	.	.	0.48	27	3.1	120	.	.	0	27	0.28	100
1995	MAR	.	.	0.15	27	2.8	110	.	.	0.10	27	1.2	210	.	.	0	27	0.15	260	.	.	0.36	27	1.5	160	.	.	0	27	0.25	89
1995	APR	.	.	0	27	0.78	320	.	.	0.10	27	0	.	.	.	0	27	0.18	230	.	.	0.40	27	0.93	290	.	.	0	27	0.96	62
1995	MAY	.	.	0.029	27	0.25	830	.	.	1.8	27	1.7	140	.	.	0	27	0.088	370	.	.	0.82	27	2.1	120	.	.	2.4	27	0.70	63
1995	JUN	.	.	0.012	27	0.11	1600	.	.	0.20	27	0.34	480	.	.	0	27	0.25	120	.	.	0.086	27	1.5	120	.	.	0	27	0.66	61
1995	JUL	.	.	0.33	27	0.45	380	.	.	0.14	27	1.9	110	.	.	0	27	0.66	72	.	.	0.82	27	4.1	71	.	.	0	27	2.6	59
1995	AUG	.	.	0.030	27	1.3	150	.	.	0.028	27	0.88	190	.	.	2.7	27	0.66	72	.	.	0.51	27	3.1	77	.	.	0.44	27	1.7	59
1995	SEP	.	.	.	.	0.12	1900	.	.	0.50	27	0.48	440	.	.	0	27	0.50	90	.	.	0.34	27	3.7	80	.	.	6.1	27	1.5	59
1995	OCT	.	.	.	.	0.49	570	.	.	0.39	27	0.60	460	.	.	0	27	0.26	190	.	.	1.1	27	4.4	89	.	.	0	27	1.4	60
1995	NOV	.	.	0	27	0.040	7500	.	.	0	27	0.44	710	.	.	0	27	0.046	1100	.	.	21	27	1.0	320	.	.	0	27	0.60	70
1995	DEC	.	.	1.3	27	1.7	72	.	.	0.022	27	0.44	170	.	.	0	27	0.15	120	.	.	3.4	27	15	59	.	.	0	27	0.80	60
1996	JAN	.	.	0	27	0	.	.	.	0.086	27	0.21	99	.	.	1.7	27	0.079	220	.	.	0.45	27	2.9	59	.	.	0	27	0.27	240
1996	FEB	.	.	0	27	0	.	.	.	0.021	27	0	.	.	.	0	27	0.052	320	.	.	0	27	0	.	.	.	0	27	0.38	160
1996	MAR	.	.	0	27	0.88	61	.	.	0.26	27	0	.	.	.	0	27	0.11	170	.	.	1.8	27	0.44	70	.	.	0	27	0.11	520
1996	APR	.	.	0	27	0	.	.	.	0	27	0.098	160	.	.	0.83	27	0.14	120	.	.	0.87	27	3.0	59	.	.	0.55	27	0.78	86
1996	MAY	.	.	0.18	27	0	.	.	.	0	27	0.49	63	.	.	0	27	0.34	67	.	.	1.4	27	4.1	58	.	.	3.7	27	3.1	60
1996	JUN	.	.	0.039	27	3.6	58	.	.	0.42	27	2.7	58	.	.	0	27	0.33	65	.	.	0.32	27	18	58	.	.	0	27	3.7	59
1996	JUL	.	.	0.34	27	2.1	59	.	.	0.75	27	2.5	58	.	.	0	27	0.14	90	.	.	0.93	27	13	58	.	.	0	27	1.0	68
1996	AUG	.	.	0.13	27	1.1	59	.	.	0.047	27	2.6	58	.	.	0	27	0.16	80	.	.	0.17	27	4.8	58	.	.	0	27	3.5	59
1996	SEP	.	.	0	27	0.54	62	.	.	0.64	27	2.7	58	.	.	0	27	0.23	73	.	.	1.4	27	1.4	59	.	.	0	27	1.3	65
1996	OCT	.	.	0.003	27	0.61	64	.	.	0.22	27	0.82	61	.	.	0	27	0.58	64	.	.	0.097	27	2.5	59	.	.	1.8	27	1.8	64
1996	NOV	.	.	0.073	27	0.79	62	.	.	0.55	27	0.81	61	.	.	0	27	0.27	81	.	.	0.087	27	0.67	63	.	.	0	27	0.72	91
1996	DEC	.	.	0	27	0	.	.	.	0	27	0.082	3100	.	.	5.6	27	0.13	300	.	.	0.52	27	0.81	400	.	.	0	27	0.30	92

PP_DDT (ng/m ^{2}/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.39	27	0.046	420	.	.	0	27	0.46	66	.	.	0	27	0.13	160	.	.	0.006	27	0.79	64	.	.	0	27	0.15	79
1997	FEB	.	.	0.11	27	0.088	180	.	.	0.26	27	0.18	92	.	.	0	27	0.14	130	.	.	0.18	27	2.0	59	.	.	22	27	0.68	59
1997	MAR	.	.	0.11	27	0.056	260	.	.	1.3	27	0	.	.	.	0	27	.	.	.	.	0.85	27	0.94	61	.	.	0	27	0.63	59
1997	APR	.	.	0.051	27	0.59	62	.	.	0.021	27	0	.	.	.	0	27	0.16	110	.	.	0.32	27	2.1	59	.	.	0	27	0.19	65
1997	MAY	.	.	0	27	0.75	60	.	.	0.53	27	0.89	60	.	.	0	27	0.14	120	.	.	0.42	27	3.5	58	.	.	2.7	27	0.39	60
1997	JUN	.	.	0	27	0.90	59	.	.	0.50	27	2.6	58	.	.	0	27	0.35	66	.	.	0.23	27	4.8	58	.	.	5.0	27	1.9	58
1997	JUL	.	.	0	27	0.25	70	.	.	0.003	27	1.8	59	.	.	4.3	27	0.23	76	.	.	0.049	27	3.8	58	.	.	0	27	2.7	58
1997	AUG	.	.	0.011	27	1.2	59	.	.	0	27	2.5	58	.	.	2.3	27	0.28	72	.	.	0.11	27	3.8	58	.	.	0	27	0.89	58
1997	SEP	.	.	0.0020	27	0.96	60	.	.	0.14	27	3.7	58	.	.	14	27	0.31	76	.	.	1.0	27	5.3	58	.	.	0	27	1.2	58
1997	OCT	.	.	0.054	27	0.14	120	.	.	0.013	27	0.72	61	.	.	0	27	0.44	70	.	.	0.14	27	3.9	58	.	.	0	27	0.61	59
1997	NOV	.	.	0.006	27	0.25	83	.	.	0.14	27	0	.	.	.	0	27	0.080	240	.	.	0.12	27	0.97	61	.	.	0	27	0.087	93
1997	DEC	.	.	0.14	27	0.23	90	.	.	0.042	27	0.62	62	.	.	0	27	0.15	120	.	.	0	27	1.1	60	.	.	0	27	0.69	100
1998	JAN	.	.	0.077	27	0.008	4200	.	.	0.048	27	0	.	.	.	0	27	0.008	700	.	.	0.079	27	0.0050	7400	.	.	1.3	27	0.21	65
1998	FEB	.	.	0	27	0.11	290	.	.	0.011	27	0.064	380	.	.	0	27	0.054	100	.	.	0.046	27	0.29	120	.	.	0.016	27	0.19	64
1998	MAR	.	.	0.083	27	0.10	330	.	.	0.35	27	0.10	330	.	.	0	27	0.030	180	.	.	0.083	27	0.26	160	.	.	0.051	27	0.085	90
1998	APR	.	.	0.040	27	0.17	170	.	.	0.44	27	0.45	82	.	.	0	27	0.097	73	.	.	0.22	27	1.2	63	.	.	0	27	0.41	59
1998	MAY	.	.	1.0	27	0.71	69	.	.	0.22	27	3.4	59	.	.	0	27	0.13	65	.	.	0.30	27	2.7	59	.	.	0	27	0.40	59
1998	JUN	.	.	0.037	27	0.48	76	.	.	0.085	27	1.4	60	.	.	0	27	0.23	60	.	.	0.17	27	4.8	59	.	.	0	27	1.4	58
1998	JUL	.	.	0.022	27	1.8	60	.	.	0.029	27	5.0	58	.	.	0	27	0.086	70	.	.	0.15	27	11	58	.	.	0.060	27	0.96	58
1998	AUG	.	.	0.011	27	1.4	61	.	.	0.092	27	5.0	58	.	.	0	27	0.19	60	.	.	0.38	27	3.2	59	.	.	0.29	27	0.87	58
1998	SEP	.	.	0	27	0.37	94	.	.	0.03	27	0.60	67	.	.	0	27	0.34	59	.	.	0.075	27	3.7	59	.	.	0	27	1.8	58
1998	OCT	.	.	0.048	27	0.77	75	.	.	0.06	27	0.38	98	.	.	0.029	27	0.13	71	.	.	0.065	27	2.3	60	.	.	0	27	0.37	60
1998	NOV	.	.	0.003	27	0.096	390	.	.	0.12	27	0	.	.	.	0	27	0.076	93	.	.	0	27	1.3	65	.	.	0.36	27	0.54	59
1998	DEC	.	.	0.14	27	0.22	100	.	.	0.054	27	0.40	69	.	.	0	27	0.091	220	.	.	0	27	0.43	71	.	.	0	27	0.23	66
1999	JAN	.	.	0.13	27	0.35	510	.	.	0.27	27	0.55	260	.	.	0	27	0.095	100	.	.	0	27	1.9	120	.	.	0	27	0.18	160
1999	FEB	.	.	0.13	27	1.6	120	.	.	0.23	27	2.2	86	.	.	0	27	0.43	61	.	.	0.11	27	2.8	83	.	.	0.015	27	0.32	89
1999	MAR	.	.	0.033	27	2.2	89	.	.	0.027	27	3.0	75	.	.	0	27	0.062	130	.	.	0.43	27	1.9	110	.	.	0	27	0.25	110
1999	APR	.	.	0	27	1.3	120	.	.	0.51	27	0.36	360	.	.	0	27	0.16	70	.	.	0.066	27	0.89	190	.	.	0	27	0.22	100
1999	MAY	.	.	0.083	27	2.5	81	.	.	0.21	27	5.5	62	.	.	0.19	27	0.54	59	.	.	0.19	27	6.8	61	.	.	0	27	1.9	59
1999	JUN	.	.	0.040	27	1.3	98	.	.	0.12	27	6.6	60	.	.	0	27	0.57	59	.	.	0.085	27	5.5	61	.	.	0	27	2.0	59
1999	JUL	.	.	0.01	27	1.4	90	.	.	0.54	27	3.7	63	.	.	0	27	0.48	59	.	.	1.6	27	6.3	60	.	.	0.72	27	2.4	58
1999	AUG	.	.	0.045	27	0.89	130	.	.	0.043	27	1.5	85	.	.	0.092	27	0.32	60	.	.	0.053	27	3.1	67	.	.	0.18	27	0.40	66
1999	SEP	.	.	0.097	27	0.44	310	.	.	0.18	27	1.7	88	.	.	0.068	27	0.26	62	.	.	0.059	27	3.7	66	.	.	0.29	27	1.1	60
1999	OCT	.	.	0	27	0.43	390	.	.	0	27	1.5	110	.	.	0.084	27	0.24	66	.	.	0.31	27	3.2	77	.	.	0.34	27	0.88	63
1999	NOV	.	.	0.020	27	0.085	2200	.	.	0.059	27	0.62	260	.	.	0.28	27	0.054	170	.	.	0.029	27	2.1	110	.	.	0.18	27	0.78	66
1999	DEC	.	.	0.063	27	0.042	960	.	.	0.17	27	0.005	7100	.	.	0	27	0.21	67	.	.	0.13	27	2.0	63	.	.	0.030	27	0.46	60
2000	JAN	.	.	0	27	0.12	1300	.	.	0	27	0.23	720	.	.	0.10	27	0.061	270	.	.	0.12	27	0.63	320	.	.	5.9	27	.	.
2000	FEB	.	.	0.12	27	1.0	170	.	.	0.10	27	0.15	990	.	.	0.11	27	0.065	250	.	.	0.097	27	2.1	110	.	.	0.29	27	.	.
2000	MAR	.	.	0.045	27	0.013	11000	.	.	0.19	27	0.35	380	.	.	0.16	27	0.13	110	.	.	0.75	27	0.72	210	.	.	0.62	27	.	.
2000	APR	.	.	0.080	27	0.36	350	.	.	0.11	27	0.32	410	.	.	0.73	27	0.10	130	.	.	1.0	27	1.5	100	.	.	0.24	27	0.25	65
2000	MAY	.	.	0.059	27	0.48	230	.	.	0.23	27	1.6	92	.	.	0.34	27	0.33	65	.	.	0.32	27	5.9	62	.	.	1.0	27	1.6	58
2000	JUN	.	.	0.29	27	0.46	250	.	.	0.21	27	0.75	160	.	.	0.20	27	0.13	88	.	.	0.27	27	3.9	65	.	.	0.85	27	0.51	59
2000	JUL	.	.	0	27	0.91	120	.	.	0	27	1.2	96	.	.	0	27	0.12	84	.	.	0.11	27	1.6	79	.	.	0.26	27	0.27	61
2000	AUG	.	.	0.082	27	0.57	170	.	.	0.25	27	1.4	88	.	.	0	27	0.31	64	.	.	0.45	27	3.2	65	.	.	0.58	27	0.68	59
2000	SEP	.	.	0.042	27	1.8	93	.	.	1.3	27	2.4	79	.	.	0.50	27	0.39	65	.	.	0.37	27	4.0	66	.	.	1.7	27	0.61	59
2000	OCT	.	.	0	27	0.95	150	.	.	0.13	27	1.7	95	.	.	0.026	27	0.16	87	.	.	0.23	27	5.7	62	.	.	0.28	27	0.26	64
2000	NOV	.	.	0	27	0.12	1300	.	.	0	27	0.52	310	.	.	0.060	27	0.44	65	.	.	0.64	27	0.92	190	.	.	0.35	27	0.30	65
2000	DEC	.	.	0.065	27	0.040	4300	.	.	0.036	27	0.77	230	.	.	0.36	27	0.094	100	.	.	0.15	27	0.19	1000	.	.	1.3	27	0.55	75

A-ENDOS (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	1.1	27	1.1	130
1992	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.41	27	0.97	130
1992	MAR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0.95	27	1.4	100
1992	APR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	2.0	27	1.8	74
1992	MAY	.	.	0	27	.	.	.	.	0	27	.	.	.	.	1.6	27	.	.	.	.	0	27	.	.	.	.	15	27	30	58
1992	JUN	.	.	0	27	.	.	.	.	0	27	.	.	.	.	2.3	27	.	.	.	.	0	27	.	.	.	.	9.8	27	18	58
1992	JUL	.	.	0	27	.	.	.	.	0	27	.	.	.	.	7.9	27	.	.	.	.	0	27	.	.	.	.	97	27	140	58
1992	AUG	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7.2	27	.	.	.	.	0	27	.	.	.	.	9.9	27	28	58
1992	SEP	.	.	0	27	.	.	.	.	0	27	.	.	.	.	1.4	27	.	.	.	.	0	27	.	.	.	.	8.2	27	8.1	59
1992	OCT	.	.	.	.	.	.	.	.	0	27	.	.	.	.	0.51	27	.	.	.	.	.	.	.	.	.	.	0.44	27	1.8	81
1992	NOV	.	.	0	27	.	.	.	.	0	27	.	.	.	.	1.3	27	.	.	.	.	0	27	.	.	.	.	1.1	27	2.6	74
1992	DEC	.	.	0	27	.	.	.	.	0	27	.	.	.	.	.	.	.	.	.	.	0	27	.	.	.	.	1.3	27	.	.
1993	JAN	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0.55	27	1.7	59	.	.	.	.	.	.	.	.	2.0	27	2.3	86
1993	FEB	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0.29	27	0.78	60	.	.	0	27	.	.	.	.	0.98	27	1.8	97
1993	MAR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0.22	27	0.75	60	.	.	0	27	.	.	.	.	0.50	27	1.4	110
1993	APR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	1.5	27	0.69	60	.	.	0	27	.	.	.	.	6.1	27	1.6	88
1993	MAY	.	.	0	27	.	.	.	.	0	27	.	.	.	.	6.4	27	2.4	58	.	.	0	27	.	.	.	.	9.8	27	54	58
1993	JUN	.	.	0	27	.	.	.	.	0	27	.	.	.	.	4.7	27	2.9	58	.	.	0	27	.	.	.	.	17	27	24	58
1993	JUL	.	.	0	27	.	.	.	.	0	27	.	.	.	.	9.0	27	8.4	58	.	.	0	27	.	.	.	.	5.6	27	76	58
1993	AUG	.	.	0	27	.	.	.	.	0	27	.	.	.	.	2.2	27	8.5	58	.	.	0	27	.	.	.	.	5.3	27	35	58
1993	SEP	.	.	0	27	.	.	.	.	0	27	.	.	.	.	1.3	27	7.9	58	.	.	0	27	.	.	.	.	3.3	27	15	59
1993	OCT	.	.	.	.	.	.	.	.	0	27	.	.	.	.	1.0	27	2.6	58	.	.	0	27	.	.	.	.	0.45	27	1.9	87
1993	NOV	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0.52	27	1.0	59	.	.	0	27	.	.	.	.	0.78	27	2.1	87
1993	DEC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.62	27	.	.	.	.	0	27	.	.	.	.	0.78	27	1.7	88
1994	JAN	.	.	0	27	.	.	.	.	.	.	.	.	.	.	2.2	27	0.47	120	.	.	0	27	.	.	.	.	1.3	27	1.5	74
1994	FEB	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0.73	27	0.88	79	.	.	0	27	.	.	.	.	0.96	27	1.5	71
1994	MAR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0.97	27	1.1	67	.	.	0	27	.	.	.	.	1.1	27	1.6	65
1994	APR	.	.	0	27	.	.	.	.	0	27	.	.	.	.	1.6	27	2.1	61	.	.	0	27	.	.	.	.	3.7	27	6.7	59
1994	MAY	.	.	0	27	.	.	.	.	0	27	.	.	.	.	3.8	27	1.8	61	.	.	0	27	.	.	.	.	190	27	57	58
1994	JUN	.	.	0	27	.	.	.	.	0	27	.	.	.	.	6.5	27	2.5	59	.	.	0	27	.	.	.	.	4.1	27	28	58
1994	JUL	.	.	0	27	.	.	.	.	0	27	.	.	.	.	8.6	27	40	58	.	.	0	27	.	.	.	.	50	27	410	58
1994	AUG	.	.	1.2	27	.	.	.	.	1.3	27	.	.	.	.	6.4	27	21	58	.	.	2.4	27	.	.	.	.	11	27	120	58
1994	SEP	.	.	0.78	27	.	.	.	.	27	27	.	.	.	.	1.1	27	1.8	60	.	.	1.1	27	.	.	.	.	0.68	27	7.1	59
1994	OCT	.	.	0.34	27	.	.	.	.	1.3	27	.	.	.	.	0.38	27	1.1	68	.	.	0.60	27	.	.	.	.	0.19	27	3.1	59
1994	NOV	.	.	0.094	27	0.93	.	.	.	0	27	.	.	.	.	1.2	27	1.5	68	.	.	0.025	27	0.29	.	.	.	1.4	27	4.6	60
1994	DEC	.	.	0	27	.	.	.	.	0	27	.	.	.	.	0	27	0.76	60	.	.	0	27	.	.	.	.	0	27	1.5	100
1995	JAN	.	.	0.50	27	0.31	590	.	.	.	.	0.22	700	.	.	0.43	27	0	.	.	.	0.33	27	2.2	100	.	.	0.52	27	2.2	59
1995	FEB	.	.	7.6	27	0.13	1500	.	.	.	.	0.34	480	.	.	0	27	1.2	58	.	.	1.1	27	0.84	230	.	.	0.12	27	1.4	61
1995	MAR	.	.	0.013	27	0.035	4100	.	.	0.70	27	0.14	870	.	.	0.44	27	0.71	58	.	.	0.25	27	2.1	78	.	.	0	27	0.88	61
1995	APR	.	.	0	27	0.48	270	.	.	0.072	27	1.2	120	.	.	0.90	27	0.86	58	.	.	6.6	27	4.4	67	.	.	0.73	27	2.2	59
1995	MAY	.	.	0.026	27	2.1	73	.	.	0.97	27	38	58	.	.	13	27	1.2	58	.	.	3.1	27	14	59	.	.	12	27	39	58
1995	JUN	.	.	0.13	27	1.3	81	.	.	1.1	27	11	59	.	.	3.7	27	1.4	58	.	.	4.5	27	83	58	.	.	4.5	27	4.1	58
1995	JUL	.	.	4.5	27	19	58	.	.	0.16	27	100	58	.	.	3.9	27	8.5	58	.	.	1.2	27	67	58	.	.	17	27	34	58
1995	AUG	.	.	0.31	27	19	58	.	.	0.22	27	14	58	.	.	3.2	27	7.3	58	.	.	0.27	27	39	58	.	.	3.4	27	15	58
1995	SEP	.	.	.	.	4.4	63	.	.	0.54	27	4.5	62	.	.	0	27	2.2	58	.	.	0.014	27	14	59	.	.	0.29	27	4.5	58
1995	OCT	.	.	.	.	2.2	89	.	.	1.1	27	2.5	81	.	.	0.18	27	1.6	58	.	.	0.14	27	8.0	61	.	.	2.4	27	3.5	59
1995	NOV	.	.	0.75	27	0.43	390	.	.	0.17	27	0.34	490	.	.	1.5	27	0.88	58	.	.	1.2	27	1.6	120	.	.	0.29	27	2.1	59
1995	DEC	.	.	9.3	27	0.63	.	.	.	0.51	27	1.4	.	.	.	0.48	27	1.5	67	.	.	0.097	27	8.5	.	.	.	0.48	27	2.1	66
1996	JAN	.	.	0.054	27	0.95	60	.	.	0.56	27	0.60	62	.	.	0.64	27	0.55	79	.	.	0.21	27	1.3	60	.	.	0.77	27	1.0	66
1996	FEB	.	.	0.12	27	0.031	400	.	.	0.026	27	1.0	59	.	.	1.0	27	0.73	69	.	.	0	27	0.56	62	.	.	0.81	27	0.68	72
1996	MAR	.	.	0.045	27	0.35	67	.	.	0.12	27	0.45	64	.	.	0.36	27	0.88	67	.	.	0	27	0.067	200	.	.	0.93	27	1.3	62
1996	APR	.	.	0.82	27	0.48	62	.	.	0	27	0.48	62	.	.	1.4	27	0.46	79	.	.	3.1	27	1.3	59	.	.	1.3	27	1.2	62
1996	MAY	.	.	0.96	27	0.32	62	.	.	0	27	2.2	58	.	.	1.2	27	1.2	60	.	.	0.11	27	18	58	.	.	4.4	27	16	58
1996	JUN	.	.	2.7	27	5.1	58	.	.	0.32	27	12	58	.	.	1.9	27	1.7	59	.	.	1.1	27	28	58	.	.	6.9	27	12	58
1996	JUL	.	.	3.9	27	22	58	.	.	1.4	27	41	58	.	.	4.8	27	1.3	59	.	.	0.064	27	40	58	.	.	5.9	27	16	58
1996	AUG	.	.	0	27	6.4	58	.	.	1.2	27	35	58	.	.	2.9	27	3.4	58	.	.	0.094	27	25	58	.	.	2.5	27	29	58
1996	SEP	.	.	0	27	8.0	58	.	.	0	27	24	58	.	.	2.7	27	2.2	59	.	.	0	27	8.8	58	.	.	6.6	27	5.7	58
1996	OCT	.	.	0.69	27	3.0	58	.	.	0	27	4.4	58	.	.	0.49	27	1.2	61	.	.	2.6	27	5.1	58	.	.	1.8	27	1.6	60
1996	NOV	.	.	0.79	27	1.5	59	.	.	0.49	27	1.6	59	.	.	0.78	27	1.1	62	.	.	5.1	27	1.1	59	.	.	1.8	27	1.2	61
1996	DEC	.	.	0.97	27	0.42	350	.	.	0.022	27	0.56	240	.	.	0	27	0.53	59	.	.	2.2	27	0.30	600	.	.	0	27	1.1	61

A-ENDOS (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	1.6	27	0.11	200	.	.	1.2	27	0.72	61	.	.	0.41	27	0.33	59	.	.	0.21	27	0.72	67	.	.	1.5	27	1.0	70
1997	FEB	.	.	0.024	27	0.042	360	.	.	1.4	27	0.66	61	.	.	2.6	27	0.78	58	.	.	0	27	7.2	58	.	.	2.3	27	1.5	61
1997	MAR	.	.	0.87	27	0.033	400	.	.	0.66	27	0.19	85	.	.	0	27	.	.	.	.	0.83	27	2.6	59	.	.	0.41	27	2.2	60
1997	APR	.	.	0.019	27	0.29	71	.	.	0.028	27	0.74	60	.	.	0.32	27	1.6	58	.	.	0.16	27	3.5	58	.	.	1.0	27	1.6	60
1997	MAY	.	.	1.8	27	1.1	59	.	.	2.3	27	13	58	.	.	1.7	27	2.3	58	.	.	0.30	27	50	58	.	.	2.0	27	6.0	58
1997	JUN	.	.	0.63	27	4.1	58	.	.	0.47	27	54	58	.	.	0.94	27	6.8	58	.	.	0.95	27	47	58	.	.	5.7	27	15	58
1997	JUL	.	.	1.6	27	18	58	.	.	0.27	27	87	58	.	.	2.0	27	4.0	58	.	.	1.7	27	54	58	.	.	2.9	27	54	58
1997	AUG	.	.	0.15	27	16	58	.	.	0.65	27	50	58	.	.	1.8	27	11	58	.	.	0.39	27	69	58	.	.	2.5	27	25	58
1997	SEP	.	.	0.25	27	7.8	58	.	.	0.78	27	34	58	.	.	1.1	27	5.0	58	.	.	0.54	27	24	58	.	.	0.97	27	13	58
1997	OCT	.	.	0.30	27	5.1	58	.	.	0.48	27	7.1	58	.	.	2.4	27	2.5	58	.	.	0.37	27	8.8	58	.	.	0.29	27	3.5	59
1997	NOV	.	.	0.66	27	0.28	77	.	.	0.28	27	0.067	190	.	.	0.33	27	1.5	58	.	.	0.85	27	0.86	62	.	.	0.86	27	1.7	61
1997	DEC	.	.	0.11	27	0.24	75	.	.	0.34	27	0.38	63	.	.	0.36	27	0.60	73	.	.	0	27	1.2	59	.	.	0.40	27	0.98	65
1998	JAN	.	.	0.63	27	0.80	64	.	.	0.54	27	1.1	60	.	.	1.0	27	1.5	64	.	.	0.62	27	1.1	62	.	.	14	27	1.4	61
1998	FEB	.	.	0	27	0.97	61	.	.	0.68	27	1.4	59	.	.	0.13	27	1.3	63	.	.	0.19	27	2.5	59	.	.	0.66	27	1.0	62
1998	MAR	.	.	0.16	27	0.28	93	.	.	0.65	27	0.84	63	.	.	0.91	27	1.9	62	.	.	0	27	0.39	87	.	.	0.94	27	1.2	62
1998	APR	.	.	0.055	27	0.59	64	.	.	1.3	27	6.9	58	.	.	1.2	27	3.1	59	.	.	0.26	27	9.8	58	.	.	7.9	27	45	58
1998	MAY	.	.	0.50	27	1.9	59	.	.	0.25	27	130	58	.	.	3.7	27	2.6	59	.	.	0.082	27	18	58	.	.	1.5	27	7.1	58
1998	JUN	.	.	0.32	27	5.7	58	.	.	0.67	27	34	58	.	.	3.3	27	5.1	58	.	.	0.25	27	25	58	.	.	21	27	55	58
1998	JUL	.	.	0.19	27	11	58	.	.	0.011	27	40	58	.	.	2.6	27	3.6	59	.	.	0	27	98	58	.	.	10	27	9.5	58
1998	AUG	.	.	0.049	27	21	58	.	.	0.15	27	42	58	.	.	1.6	27	6.5	58	.	.	0.11	27	44	58	.	.	6.8	27	9.5	58
1998	SEP	.	.	0.32	27	3.4	58	.	.	0.16	27	3.9	58	.	.	0.56	27	3.3	59	.	.	0.070	27	25	58	.	.	1.4	27	6.6	58
1998	OCT	.	.	0.083	27	1.6	60	.	.	0.17	27	1.5	59	.	.	0.31	27	1.5	63	.	.	0.027	27	4.4	58	.	.	0.71	27	2.1	59
1998	NOV	.	.	0.081	27	0.40	81	.	.	0.17	27	0.49	71	.	.	0.46	27	1.5	65	.	.	0	27	2.8	59	.	.	0.43	27	2.3	59
1998	DEC	.	.	0.74	27	0.49	69	.	.	0.44	27	1.3	59	.	.	0.79	27	1.1	58	.	.	0.068	27	1.9	59	.	.	0.59	27	1.3	63
1999	JAN	.	.	0.19	27	0.18	170	.	.	0.059	27	0.26	99	.	.	0.58	27	0.95	59	.	.	0	27	0.47	94	.	.	6.1	27	1.6	62
1999	FEB	.	.	0.049	27	0	.	.	.	0.016	27	1.9	59	.	.	0.29	27	1.1	59	.	.	0.033	27	1.7	60	.	.	0.37	27	1.2	62
1999	MAR	.	.	0.027	27	0.21	120	.	.	0.074	27	2.1	59	.	.	0.067	27	0.66	59	.	.	0.13	27	1.6	61	.	.	1.5	27	1.6	61
1999	APR	.	.	0	27	0.11	180	.	.	0.14	27	0.52	67	.	.	0.66	27	1.2	59	.	.	0.10	27	1.9	60	.	.	0.21	27	2.2	59
1999	MAY	.	.	1.6	27	12	58	.	.	0.11	27	37	58	.	.	0.88	27	22	58	.	.	1.4	27	31	58	.	.	18	27	69	58
1999	JUN	.	.	2.2	27	8.0	58	.	.	2.2	27	62	58	.	.	2.8	27	12	58	.	.	0.79	27	21	58	.	.	8.9	27	90	58
1999	JUL	.	.	2.8	27	22	58	.	.	4.1	27	32	58	.	.	2.6	27	14	58	.	.	3.8	27	53	58	.	.	5.9	27	41	58
1999	AUG	.	.	0.61	27	28	58	.	.	0.61	27	34	58	.	.	3.3	27	4.8	58	.	.	1.5	27	60	58	.	.	2.8	27	9.4	58
1999	SEP	.	.	0.68	27	2.7	59	.	.	0.68	27	17	58	.	.	0.91	27	3.9	58	.	.	1.9	27	14	58	.	.	3.0	27	9.1	58
1999	OCT	.	.	1.3	27	4.8	59	.	.	0.27	27	7.3	58	.	.	0.86	27	3.3	58	.	.	0.86	27	9.2	58	.	.	1.2	27	6.4	58
1999	NOV	.	.	0.28	27	1.4	62	.	.	0.20	27	1.1	62	.	.	0.50	27	1.2	59	.	.	0.63	27	3.1	59	.	.	1.1	27	3.7	59
1999	DEC	.	.	0.32	27	1.2	63	.	.	0.55	27	0.14	170	.	.	0.59	27	1.7	66	.	.	0.63	27	0.68	73	.	.	0.71	27	1.9	61
2000	JAN	.	.	0	27	0.47	89	.	.	0	27	1.1	64	.	.	0.37	27	0.59	58	.	.	0.34	27	1.5	64	.	.	2.3	27	.	.
2000	FEB	.	.	0.15	27	0.51	83	.	.	0.62	27	1.7	60	.	.	0.39	27	0.79	58	.	.	0.50	27	1.7	62	.	.	0.38	27	.	.
2000	MAR	.	.	0.36	27	0.48	78	.	.	0.49	27	1.6	60	.	.	0.30	27	0.97	58	.	.	0.82	27	3.3	59	.	.	0.51	27	.	.
2000	APR	.	.	0.41	27	1.8	59	.	.	1.3	27	4.0	59	.	.	1.1	27	0.96	58	.	.	5.6	27	2.4	59	.	.	1.6	27	4.3	58
2000	MAY	.	.	0.61	27	3.0	59	.	.	4.1	27	11	58	.	.	2.0	27	3.1	58	.	.	3.1	27	61	58	.	.	9.5	27	120	58
2000	JUN	.	.	1.9	27	2.5	59	.	.	2.4	27	6.8	58	.	.	1.5	27	1.3	58	.	.	7.7	27	33	58	.	.	10	27	3.6	58
2000	JUL	.	.	0	27	4.2	58	.	.	1.6	27	13	58	.	.	1.9	27	0.96	58	.	.	4.1	27	19	58	.	.	3.1	27	5.1	58
2000	AUG	.	.	0.16	27	3.1	58	.	.	1.3	27	30	58	.	.	1.9	27	3.5	58	.	.	3.4	27	24	58	.	.	7.7	27	11	58
2000	SEP	.	.	0.44	27	3.7	59	.	.	1.3	27	17	58	.	.	1.9	27	4.6	58	.	.	1.0	27	18	58	.	.	1.0	27	5.8	58
2000	OCT	.	.	0.26	27	0.66	67	.	.	0.47	27	2.8	59	.	.	0.28	27	1.1	58	.	.	1.3	27	5.2	58	.	.	0	27	1.8	58
2000	NOV	.	.	1.5	27	0.086	320	.	.	0.90	27	0.97	65	.	.	0.70	27	1.2	58	.	.	0.73	27	6.6	58	.	.	0.70	27	1.8	58
2000	DEC	.	.	0.45	27	1.0	64	.	.	0.17	27	1.8	60	.	.	0.88	27	0.66	60	.	.	0.31	27	1.4	63	.	.	1.0	27	1.1	65

PCB 018 (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.062	27	0.23	87	.	.	0.022	27	1.7	59	.	.	.	.	.	.	.	.	0.020	27	1.5	59	.	.	.	.	2.8	84
1992	FEB	.	.	.	.	0.32	71	.	.	.	.	0.70	60	.	.	.	.	.	.	.	.	.	.	1.6	59	.	.	.	.	2.2	89
1992	MAR	.	.	0.043	27	0.72	61	.	.	0.10	27	0.97	59	.	.	.	.	.	.	.	.	0.072	27	2.8	59	.	.	.	.	4.0	70
1992	APR	.	.	0	27	0.61	61	.	.	0.033	27	1.4	59	.	.	.	.	.	.	.	.	0.031	27	1.7	59	.	.	.	.	2.2	78
1992	MAY	.	.	0.13	27	2.1	290	.	.	0.028	27	3.4	.	.	.	.	.	.	.	.	.	0.020	27	7.1	.	.	.	.	.	2.0	74
1992	JUN	.	.	0.046	27	0.48	150	.	.	0.071	27	0.21	230	.	.	.	.	.	.	.	.	0.038	27	.	.	.	.	.	.	1.1	72
1992	JUL	.	.	0	27	0.69	110	.	.	0.063	27	0.81	83	.	.	.	.	.	.	.	.	0.12	27	2.8	62	.	.	.	.	0.96	80
1992	AUG	.	.	.	27	1.5	76	.	.	.	27	0.95	89	.	.	.	.	.	.	.	.	0.051	27	3.3	61	.	.	.	.	0.97	84
1992	SEP	.	.	0.11	27	1.1	130	.	.	0.048	27	1.4	88	.	.	.	.	.	.	.	.	0.084	27	5.2	61	.	.	.	.	1.5	81
1992	OCT	.	.	.	27	0.86	140	.	.	0.014	27	0.74	160	.	.	.	.	.	.	.	.	.	27	6.1	61	.	.	.	.	1.1	100
1992	NOV	.	.	0.17	27	0.38	400	.	.	0.068	27	4.4	65	.	.	.	.	.	.	.	.	0.13	27	1.0	140	.	.	.	.	1.5	97
1992	DEC	.	.	0.23	27	1.4	61	.	.	0.046	27	3.5	59	.	.	.	.	.	.	.	.	0.012	27	1.1	62	.	.	.	.	.	.
1993	JAN	.	.	0.10	27	1.1	170	.	.	0	27	1.7	100	.	.	0.45	27	2.6	64	.	.	.	27	6.0	65	.	.	0	27	4.1	61
1993	FEB	.	.	0.031	27	3.9	71	.	.	0	27	2.2	87	.	.	0	27	1.9	67	.	.	0.008	27	4.8	68	.	.	0	27	2.9	63
1993	MAR	.	.	0.050	27	0.69	180	.	.	0	27	1.7	93	.	.	0	27	1.3	71	.	.	0.056	27	12	60	.	.	0	27	3.0	62
1993	APR	.	.	0.048	27	3.5	68	.	.	0.056	27	1.5	110	.	.	0.24	27	0.99	77	.	.	0.054	27	3.5	66	.	.	0	27	1.8	66
1993	MAY	.	.	0.089	27	2.0	74	.	.	0.062	27	1.3	91	.	.	0.28	27	1.1	70	.	.	0.014	27	6.6	60	.	.	0	27	2.3	61
1993	JUN	.	.	0.082	27	.	.	.	.	0.074	27	0.93	74	.	.	0.47	27	0.87	61	.	.	0.13	27	1.2	68	.	.	0	27	1.3	60
1993	JUL	.	.	0.12	27	0.85	96	.	.	0.050	27	0.84	78	.	.	0.35	27	0.87	62	.	.	0.030	27	2.5	61	.	.	0	27	1.2	61
1993	AUG	.	.	0.067	27	0.59	110	.	.	0	27	0.32	140	.	.	0.21	27	0.41	71	.	.	0.012	27	0.70	73	.	.	0	27	0.61	64
1993	SEP	.	.	0	27	0.60	160	.	.	0.084	27	1.6	78	.	.	0.21	27	1.7	62	.	.	0.019	27	2.8	66	.	.	0	27	1.6	62
1993	OCT	.	.	.	.	0.34	340	.	.	0	27	1.2	100	.	.	0.17	27	1.9	64	.	.	0.027	27	2.0	78	.	.	0	27	1.7	64
1993	NOV	.	.	0	27	0.40	340	.	.	0.044	27	0.81	140	.	.	0	27	1.4	68	.	.	0.060	27	1.4	98	.	.	0	27	2.0	63
1993	DEC	.	.	.	.	1.1	170	.	.	.	.	6.2	64	.	.	.	.	.	.	.	.	0.017	27	3.0	90	.	.	.	.	3.1	60
1994	JAN	.	.	0	27	0.36	98	.	.	.	.	0.38	86	.	.	0	27	0.78	91	.	.	0.046	27	2.5	60	.	.	0.18	27	2.5	65
1994	FEB	.	.	0	27	0.57	71	.	.	0.057	27	1.4	61	.	.	0.15	27	1.2	71	.	.	0	27	2.1	60	.	.	0.26	27	2.4	65
1994	MAR	.	.	0.011	27	0.62	67	.	.	0	27	0.69	63	.	.	0.27	27	1.6	63	.	.	0	27	5.3	58	.	.	0.23	27	2.5	62
1994	APR	.	.	0	27	0.28	96	.	.	0.012	27	1.3	60	.	.	0.82	27	1.9	63	.	.	0.025	27	5.2	58	.	.	0.12	27	3.7	60
1994	MAY	.	.	0	27	0.36	70	.	.	0	27	1.5	59	.	.	0.19	27	1.9	61	.	.	0.082	27	2.5	59	.	.	0.38	27	3.1	60
1994	JUN	.	.	0	27	.	.	.	.	0.027	27	0.26	61	.	.	0.13	27	0.49	63	.	.	0.013	27	0.60	59	.	.	0	27	1.1	60
1994	JUL	.	.	0.049	27	0.31	60	.	.	0	27	0.59	59	.	.	0.33	27	0.77	60	.	.	0.075	27	1.2	59	.	.	0.18	27	1.4	59
1994	AUG	.	.	0.12	27	0.44	60	.	.	0.33	27	0.97	59	.	.	0.60	27	1.1	60	.	.	0.12	27	1.4	59	.	.	0.29	27	1.0	61
1994	SEP	.	.	0.20	27	0.67	60	.	.	0.055	27	0.58	60	.	.	3.0	27	0.60	68	.	.	0.085	27	1.2	59	.	.	0.26	27	1.7	61
1994	OCT	.	.	0.024	27	3.3	59	.	.	0.17	27	1.1	59	.	.	0.10	27	0.96	66	.	.	0.042	27	1.3	59	.	.	0.11	27	1.6	61
1994	NOV	.	.	0.35	27	1.3	62	.	.	0.16	27	4.5	58	.	.	1.2	27	1.2	71	.	.	0.10	27	3.4	59	.	.	0.67	27	3.7	60
1994	DEC	.	.	0	27	0.47	300	.	.	0	27	0.69	170	.	.	0.070	27	0.99	74	.	.	0	27	1.5	98	.	.	0	27	2.1	64
1995	JAN	.	.	0.038	27	0.86	76	.	.	.	.	0.69	76	.	.	0	27	1.6	380	.	.	0.12	27	2.2	61	.	.	0.25	27	2.9	140
1995	FEB	.	.	0.047	27	0.43	120	.	.	.	.	0.71	79	.	.	0	27	4.2	180	.	.	0.18	27	2.6	61	.	.	0.16	27	2.9	160
1995	MAR	.	.	0.042	27	0.49	90	.	.	0.12	27	0.66	72	.	.	0	27	2.8	180	.	.	0.14	27	1.8	60	.	.	0.37	27	1.9	150
1995	APR	.	.	0.062	27	0.64	75	.	.	0.097	27	0.52	84	.	.	0	27	2.7	200	.	.	0.200	27	1.4	63	.	.	0.13	27	1.9	180
1995	MAY	.	.	0.020	27	0.80	64	.	.	0.14	27	1.7	60	.	.	0	27	1.7	200	.	.	0.18	27	1.8	59	.	.	0.15	27	1.3	180
1995	JUN	.	.	0.036	27	0.46	66	.	.	0.066	27	0.44	62	.	.	0	27	1.3	150	.	.	0.11	27	1.2	59	.	.	0	27	0.81	130
1995	JUL	.	.	0.089	27	0.56	62	.	.	0.050	27	0.28	66	.	.	.	.	0.93	180	.	.	0.27	27	1.4	59	.	.	0.16	27	1.1	97
1995	AUG	.	.	0.052	27	0.52	61	.	.	0.15	27	0.37	61	.	.	.	.	0.65	230	.	.	0.12	27	1.5	58	.	.	0.060	27	0.900	100
1995	SEP	.	.	.	.	0.64	63	.	.	0.026	27	1.0	60	.	.	.	.	1.6	150	.	.	0.019	27	1.1	59	.	.	0.030	27	1.0	130
1995	OCT	.	.	.	.	0.53	78	.	.	0.069	27	0.71	66	.	.	.	.	1.8	250	.	.	0.070	27	2.5	59	.	.	0.12	27	2.5	110
1995	NOV	.	.	0.10	27	0.25	150	.	.	0.14	27	0.61	80	.	.	.	.	1.2	480	.	.	0.18	27	0.84	69	.	.	0.31	27	2.7	140
1995	DEC	.	.	0.50	27	0.86	67	.	.	0.10	27	2.1	60	.	.	.	.	1.6	67	.	.	0.049	27	4.5	59	.	.	0.24	27	4.5	60
1996	JAN	.	.	0.22	27	0.37	150	.	.	0.10	27	0.68	93	.	.	.	.	2.4	120	.	.	0.055	27	0.97	85	.	.	0.090	27	3.4	100
1996	FEB	.	.	0.011	27	0.32	160	.	.	0.038	27	0.53	110	.	.	.	.	2.2	130	.	.	0	27	0.74	90	.	.	0.070	27	2.8	110
1996	MAR	.	.	0.013	27	0.65	92	.	.	0.023	27	0.78	87	.	.	.	.	2.4	120	.	.	0.15	27	1.1	77	.	.	0.27	27	2.4	130
1996	APR	.	.	0.037	27	0.53	94	.	.	0	27	0.43	110	.	.	.	.	1.6	150	.	.	0.12	27	0.99	72	.	.	0.080	27	1.6	140
1996	MAY	.	.	0.012	27	0.35	92	.	.	0	27	0.64	75	.	.	.	.	0.74	190	.	.	0.052	27	1.3	62	.	.	0.080	27	2.5	80
1996	JUN	.	.	0.025	27	0.37	81	.	.	0.15	27	0.36	77	.	.	.	.	0.52	150	.	.	0.12	27	0.63	61	.	.	0.19	27	1.4	82
1996	JUL	.	.	0.12	27	0.42	78	.	.	0.044	27	0.81	60	.	.	.	.	0.35	190	.	.	0.038	27	0.34	66	.	.	0.23	27	0.41	180
1996	AUG	.	.	0.26	27	0.45	66	.	.	0.023	27	1.0	59	.	.	.	.	0.32	160	.	.	0.005	27	0.58	59	.	.	0.050	27	0.96	74
1996	SEP	.	.	0.39	27	0.31	81	.	.	0.052	27	0.800	61	.	.	.	.	0.28	210	.	.	0.11	27	0.73	62	.	.	0.090	27	1.4	79
1996	OCT	.	.	0.25	27	0.73	77	.	.	0.057	27	0.86	67	.	.	.	.	3.3	74	.	.	0.039	27	0.85	65	.	.	0.060	27	1.2	120
1996	NOV	.	.	0.069	27	1.9	63	.	.	0.029	27	0.70	78	.	.	.	.	1.2	150	.	.	0.13	27	1.2	66	.	.	0.12	27	1.4	140
1996	DEC	.	.	0.35	27	0.62	78	.	.	0.31	27	0.42	89	.	.	.	.	0.98	450	.	.	0.24	27	1.1	69	.	.	0.78	27	3.0	120

PCB 018 (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.10	27	0.37	90	.	.	0.080	27	0.52	66	.	.	.	.	2.8	83	.	.	0.046	27	1.4	62	.	.	.	.	1.6	69
1997	FEB	.	.	0.003	27	0.37	79	.	.	0.056	27	0.58	64	.	.	.	.	1.8	100	.	.	0.044	27	2.8	59	.	.	.	.	7.0	59
1997	MAR	.	.	0.15	27	0.24	92	.	.	0.021	27	0.37	72	.	.	.	.	.	.	.	.	0.043	27	2.8	59	.	.	.	.	2.3	62
1997	APR	.	.	0.029	27	0.49	67	.	.	0.012	27	0.74	61	.	.	.	.	1.1	130	.	.	0.013	27	2.5	59	.	.	.	.	1.5	63
1997	MAY	.	.	0.068	27	0.50	64	.	.	0.041	27	0.55	62	.	.	.	.	1.4	110	.	.	0.050	27	3.6	58	.	.	.	.	1.4	63
1997	JUN	.	.	0.11	27	0.93	59	.	.	0.10	27	.	.	.	.	.	.	1.3	72	.	.	0.063	27	2.1	58	.	.	.	.	1.1	59
1997	JUL	.	.	0.19	27	0.51	60	.	.	0.017	27	.	.	.	.	.	.	1.2	69	.	.	0.010	27	1.2	58	.	.	.	.	1.3	59
1997	AUG	.	.	0.033	27	0.40	60	.	.	0.066	27	.	.	.	.	.	.	0.85	81	.	.	0.071	27	1.6	58	.	.	.	.	1.0	59
1997	SEP	.	.	0.22	27	0.37	64	.	.	0.044	27	.	.	.	.	.	.	0.92	98	.	.	0.056	27	1.7	58	.	.	.	.	1.4	60
1997	OCT	.	.	0.077	27	0.85	61	.	.	0.028	27	2.3	58	.	.	.	.	1.6	87	.	.	0.023	27	2.8	58	.	.	.	.	1.5	60
1997	NOV	.	.	0.031	27	0.34	75	.	.	0.042	27	0.58	62	.	.	.	.	1.2	120	.	.	0.016	27	1.8	59	.	.	.	.	1.1	68
1997	DEC	.	.	0.056	27	0.45	110	.	.	0.016	27	0.55	83	.	.	.	.	0.97	230	.	.	0.023	27	1.9	63	.	.	.	.	2.4	110
1998	JAN	.	.	0.047	27	0.31	89	.	.	0.043	27	0.70	62	.	.	.	.	1.3	220	.	.	0.082	27	1.2	61	.	.	.	.	1.8	91
1998	FEB	.	.	0	27	0.67	64	.	.	0.018	27	1.0	59	.	.	.	.	1.0	220	.	.	0.033	27	2.4	59	.	.	.	.	1.4	93
1998	MAR	.	.	0.023	27	0.56	68	.	.	0.041	27	1.3	60	.	.	.	.	1.3	230	.	.	0.080	27	1.1	62	.	.	.	.	1.5	99
1998	APR	.	.	0.015	27	0.53	65	.	.	0.053	27	1.9	59	.	.	.	.	1.1	190	.	.	0.045	27	2.9	59	.	.	.	.	1.4	81
1998	MAY	.	.	0.015	27	0.51	63	.	.	0.033	27	2.1	58	.	.	.	.	1.5	100	.	.	0.018	27	1.8	58	.	.	.	.	1.1	67
1998	JUN	.	.	0.074	27	0.39	62	.	.	0.13	27	1.2	58	.	.	.	.	0.69	140	.	.	0.026	27	3.4	58	.	.	.	.	1.1	68
1998	JUL	.	.	0.21	27	0.30	61	.	.	0.045	27	1.3	58	.	.	.	.	0.54	140	.	.	0	27	1.8	58	.	.	.	.	0.60	71
1998	AUG	.	.	0.098	27	0.64	59	.	.	0.046	27	1.3	58	.	.	.	.	0.43	150	.	.	0.033	27	2.7	58	.	.	.	.	0.38	69
1998	SEP	.	.	0.064	27	0.27	65	.	.	0.046	27	0.37	59	.	.	.	.	0.66	150	.	.	0.029	27	1.2	59	.	.	.	.	1.2	64
1998	OCT	.	.	0.040	27	0.48	67	.	.	0.096	27	0.36	65	.	.	.	.	0.95	190	.	.	0	27	1.4	59	.	.	.	.	1.5	72
1998	NOV	.	.	0.076	27	0.40	74	.	.	0.13	27	0.60	64	.	.	.	.	1.7	150	.	.	0	27	1.9	59	.	.	.	.	2.1	74
1998	DEC	.	.	0.016	27	0.43	76	.	.	0	27	0.77	62	.	.	.	.	1.3	130	.	.	0.006	27	1.8	59	.	.	.	.	1.7	64
1999	JAN	.	.	0.10	27	0.62	63	.	.	0.11	27	0.54	61	.	.	.	.	1.6	95	.	.	0	27	2.1	59	.	.	.	.	3.7	71
1999	FEB	.	.	0.20	27	1.2	60	.	.	0.057	27	1.2	59	.	.	.	.	1.7	90	.	.	0.053	27	2.0	59	.	.	.	.	2.5	75
1999	MAR	.	.	0.028	27	0.68	61	.	.	0.032	27	0.75	60	.	.	.	.	1.1	110	.	.	0.092	27	3.5	58	.	.	.	.	1.7	93
1999	APR	.	.	0	27	0.43	62	.	.	0.14	27	1.5	59	.	.	.	.	1.4	89	.	.	0.061	27	2.2	59	.	.	.	.	1.4	88
1999	MAY	.	.	0.039	27	1.8	59	.	.	0.098	27	2.6	58	.	.	.	.	1.1	80	.	.	0.092	27	2.5	58	.	.	.	.	1.8	64
1999	JUN	.	.	0.072	27	0.75	59	.	.	0.13	27	1.6	58	.	.	.	.	0.76	67	.	.	0.031	27	2.2	58	.	.	.	.	1.3	60
1999	JUL	.	.	0.45	27	0.48	59	.	.	0.17	27	1.4	58	.	.	.	.	0.62	74	.	.	0.052	27	1.2	58	.	.	.	.	0.94	62
1999	AUG	.	.	0.070	27	0.45	59	.	.	0.12	27	1.1	58	.	.	.	.	0.56	77	.	.	0.032	27	2.0	58	.	.	.	.	0.72	67
1999	SEP	.	.	0.11	27	2.6	58	.	.	0.025	27	1.5	58	.	.	.	.	1.1	68	.	.	0.028	27	1.0	58	.	.	.	.	0.90	67
1999	OCT	.	.	0.37	27	3.3	58	.	.	0.078	27	1.8	58	.	.	.	.	1.6	76	.	.	0.042	27	1.6	59	.	.	.	.	1.7	70
1999	NOV	.	.	0.022	27	1.2	59	.	.	0.025	27	0.78	60	.	.	.	.	1.5	98	.	.	0.022	27	1.7	59	.	.	.	.	2.2	77
1999	DEC	.	.	0.074	27	0.69	68	.	.	0.13	27	0.40	75	.	.	.	.	1.9	190	.	.	0.094	27	2.4	59	.	.	.	.	3.0	74
2000	JAN	.	.	0	27	1.2	64	.	.	0	27	0.91	66	.	.	.	.	1.2	82	.	.	0.11	27	1.6	63	.	.	.	.	.	.
2000	FEB	.	.	0.050	27	1.1	64	.	.	0.058	27	0.96	64	.	.	.	.	1.1	87	.	.	0.052	27	1.5	63	.	.	.	.	.	.
2000	MAR	.	.	0.20	27	0.76	66	.	.	0.077	27	0.88	63	.	.	.	.	1.1	73	.	.	0.034	27	1.5	61	.	.	.	.	.	.
2000	APR	.	.	0.090	27	1.9	59	.	.	0.11	27	1.0	62	.	.	.	.	0.81	79	.	.	0.14	27	1.7	59	.	.	.	.	1.2	79
2000	MAY	.	.	0.14	27	0.93	61	.	.	0.086	27	1.1	60	.	.	.	.	0.90	67	.	.	0.061	27	2.3	59	.	.	.	.	2.1	61
2000	JUN	.	.	0.29	27	2.5	59	.	.	0.25	27	0.63	61	.	.	.	.	0.43	75	.	.	0.12	27	1.3	59	.	.	.	.	0.80	68
2000	JUL	.	.	0	27	1.7	59	.	.	0.084	27	0.48	60	.	.	.	.	0.39	66	.	.	0.051	27	0.73	59	.	.	.	.	0.54	67
2000	AUG	.	.	0.12	27	1.0	59	.	.	0.031	27	0.43	60	.	.	.	.	0.42	66	.	.	0.12	27	0.50	59	.	.	.	.	0.73	63
2000	SEP	.	.	0.059	27	0.88	60	.	.	0.20	27	0.86	60	.	.	.	.	0.97	63	.	.	0.028	27	1.4	59	.	.	.	.	0.87	66
2000	OCT	.	.	0.021	27	0.52	66	.	.	0.025	27	0.65	62	.	.	.	.	0.65	70	.	.	0.074	27	1.2	59	.	.	.	.	0.66	77
2000	NOV	.	.	0.069	27	0.37	80	.	.	0.061	27	0.56	67	.	.	.	.	1.1	67	.	.	0.047	27	1.3	60	.	.	.	.	1.3	72
2000	DEC	.	.	0.079	27	1.3	59	.	.	0.053	27	1.7	59	.	.	.	.	1.3	100	.	.	0.026	27	1.7	59	.	.	.	.	2.5	80

PCB 044 (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.088	27	0.099	200	.	.	0.030	27	1.4	59	.	.	.	.	.	.	.	.	0	27	2.6	59	.	.	.	.	0.72	140
1992	FEB	.	.	.	.	0.12	150	.	.	.	.	0.84	61	.	.	.	.	.	.	.	.	.	.	1.5	59	.	.	.	.	0.50	170
1992	MAR	.	.	0.062	27	0.40	70	.	.	0	27	1.1	60	.	.	.	.	.	.	.	.	0	27	2.7	59	.	.	.	.	0.82	120
1992	APR	.	.	0	27	0.38	69	.	.	0.038	27	1.0	60	.	.	.	.	.	.	.	.	0.053	27	3.4	58	.	.	.	.	0.70	100
1992	MAY	.	.	0	27	1.5	440	.	.	0.069	27	2.6	.	.	.	.	.	.	.	.	.	0.064	27	4.1	.	.	.	.	.	0.68	91
1992	JUN	.	.	0.039	27	0.58	120	.	.	0.065	27	0.16	280	.	.	.	.	.	.	.	.	0.047	27	.	.	.	.	.	.	0.39	90
1992	JUL	.	.	0	27	0.46	140	.	.	0.022	27	1.5	66	.	.	.	.	.	.	.	.	0.099	27	1.9	64	.	.	.	.	0.45	86
1992	AUG	.	.	.	.	1.5	73	.	.	.	.	1.4	71	.	.	.	.	.	.	.	.	0.10	27	2.6	61	.	.	.	.	0.48	89
1992	SEP	.	.	0.084	27	0.87	140	.	.	0.017	27	1.1	95	.	.	.	.	.	.	.	.	0.10	27	3.7	63	.	.	.	.	0.68	91
1992	OCT	.	.	.	.	0.93	120	.	.	0.025	27	3.7	64	.	.	.	.	.	.	.	.	.	.	3.6	64	.	.	.	.	0.54	110
1992	NOV	.	.	0	27	0.48	290	.	.	0.041	27	17	59	.	.	.	.	.	.	.	.	0.29	27	0	.	.	.	.	.	0.65	110
1992	DEC	.	.	0	27	0.97	64	.	.	0.073	27	2.3	59	.	.	.	.	.	.	.	.	0.045	27	0.55	73	.	.	.	.	.	.
1993	JAN	.	.	0.037	27	1.2	160	.	.	0	27	2.9	76	.	.	1.3	27	0.34	70	.	.	.	.	11	60	.	.	1.2	27	1.1	62
1993	FEB	.	.	0	27	5.6	65	.	.	0	27	1.8	98	.	.	0	27	0.32	69	.	.	0.018	27	7.7	62	.	.	1.1	27	0.60	68
1993	MAR	.	.	0.014	27	1.1	130	.	.	0	27	4.7	64	.	.	0	27	0.20	77	.	.	0.099	27	11	60	.	.	0.26	27	0.72	65
1993	APR	.	.	0.026	27	7.1	61	.	.	0.060	27	1.1	130	.	.	0.59	27	0.20	76	.	.	0.081	27	3.0	68	.	.	0.92	27	0.63	64
1993	MAY	.	.	0	27	5.0	61	.	.	0.040	27	1.7	80	.	.	0.58	27	0.33	63	.	.	0.022	27	3.7	64	.	.	0.16	27	1.1	60
1993	JUN	.	.	0.046	27	.	.	.	.	0.074	27	3.2	60	.	.	0.95	27	0.19	61	.	.	0.11	27	1.2	67	.	.	0.33	27	0.61	59
1993	JUL	.	.	0	27	1.0	88	.	.	0.072	27	0.77	83	.	.	0.75	27	0.25	60	.	.	0.055	27	2.2	61	.	.	0.35	27	0.60	59
1993	AUG	.	.	0	27	0.30	200	.	.	0	27	6.4	59	.	.	0.52	27	0.13	64	.	.	0.018	27	2.0	60	.	.	0.35	27	0.37	60
1993	SEP	.	.	0	27	1.1	110	.	.	0.053	27	1.5	82	.	.	0.38	27	0.60	59	.	.	0.023	27	3.5	63	.	.	0.92	27	0.84	60
1993	OCT	.	.	.	.	0.86	150	.	.	0	27	1.0	120	.	.	0.51	27	0.41	63	.	.	0.035	27	2.0	78	.	.	0.39	27	0.53	64
1993	NOV	.	.	0	27	0.56	240	.	.	0.008	27	0.35	310	.	.	0	27	0.27	67	.	.	0.024	27	0.80	150	.	.	0.30	27	1.0	60
1993	DEC	.	.	.	.	1.4	130	.	.	.	27	11	60	.	.	.	.	.	.	.	.	0.024	27	3.7	76	.	.	.	.	0.86	60
1994	JAN	.	.	0	27	1.0	140	.	.	.	27	1.3	100	.	.	0	27	0.11	91	.	.	0.066	27	3.2	76	.	.	0.24	27	0.74	62
1994	FEB	.	.	0	27	0.49	220	.	.	0.072	27	3.1	67	.	.	0.28	27	0.26	65	.	.	0.019	27	3.3	70	.	.	0.43	27	0.50	64
1994	MAR	.	.	0.058	27	0.52	190	.	.	1.9	27	1.2	90	.	.	0.52	27	0.23	63	.	.	0.74	27	20	59	.	.	0.38	27	0.68	60
1994	APR	.	.	0.025	27	0.13	750	.	.	0.045	27	0.62	160	.	.	1.5	27	0.44	60	.	.	0.046	27	2.8	70	.	.	0.60	27	1.4	59
1994	MAY	.	.	0	27	0.20	320	.	.	0	27	1.0	92	.	.	0.43	27	0.29	61	.	.	0	27	1.8	76	.	.	0.66	27	1.0	59
1994	JUN	.	.	0	27	.	.	.	.	0.011	27	0.19	130	.	.	0.34	27	0.12	60	.	.	0.17	27	0.42	86	.	.	0	27	0.58	59
1994	JUL	.	.	0.047	27	0.67	67	.	.	0	27	0.41	86	.	.	0.74	27	0.27	59	.	.	0.086	27	1.6	61	.	.	0.35	27	0.74	58
1994	AUG	.	.	0.074	27	0.27	120	.	.	0.053	27	0	.	.	.	1.0	27	0.32	59	.	.	0.16	27	1.1	65	.	.	0.50	27	0.56	59
1994	SEP	.	.	0.11	27	2.8	60	.	.	0.073	27	0.045	940	.	.	5.4	27	0.13	64	.	.	0.047	27	0.50	120	.	.	0.62	27	0.77	59
1994	OCT	.	.	0	27	16	59	.	.	0.078	27	0.45	150	.	.	0.20	27	0.25	61	.	.	0.024	27	0.77	95	.	.	0.20	27	0.43	60
1994	NOV	.	.	0.42	27	2.6	75	.	.	0.21	27	2.1	75	.	.	1.9	27	0.34	62	.	.	0.067	27	2.8	71	.	.	1.5	27	1.2	59
1994	DEC	.	.	0.010	27	0.48	300	.	.	0.046	27	0.39	290	.	.	0.21	27	0.22	71	.	.	0	27	0.89	150	.	.	0.76	27	0.77	63
1995	JAN	.	.	0.035	27	0.74	270	.	.	.	.	0.31	520	.	.	0	27	0.41	110	.	.	0.16	27	1.1	200	.	.	0.50	27	0.73	69
1995	FEB	.	.	0.068	27	0.71	310	.	.	.	.	1.2	150	.	.	0	27	0.35	150	.	.	0.095	27	6.5	67	.	.	0.32	27	0.53	83
1995	MAR	.	.	0.088	27	1.2	150	.	.	0.12	27	1.2	120	.	.	0	27	0.17	190	.	.	0.14	27	4.2	66	.	.	0.68	27	0.40	76
1995	APR	.	.	0.050	27	1.5	110	.	.	0.10	27	1.3	120	.	.	0	27	0.21	170	.	.	0.31	27	3.2	75	.	.	0.32	27	0.52	74
1995	MAY	.	.	0.041	27	2.9	68	.	.	0.065	27	2.1	74	.	.	0	27	0.13	180	.	.	0.21	27	1.3	88	.	.	0.32	27	0.57	65
1995	JUN	.	.	0.038	27	1.1	86	.	.	0.046	27	2.1	62	.	.	0	27	0.17	95	.	.	0.11	27	.	.	.	.	0	27	0.25	65
1995	JUL	.	.	0.067	27	2.0	66	.	.	0.045	27	0	.	.	.	.	.	0.16	91	.	.	0.087	27	4.8	59	.	.	0.28	27	0.37	61
1995	AUG	.	.	0.052	27	1.3	70	.	.	0.039	27	.	.	.	.	.	.	0.16	86	.	.	0.091	27	2.3	60	.	.	0.22	27	0.33	61
1995	SEP	.	.	.	.	1.4	80	.	.	0.024	27	2.5	63	.	.	.	.	0.30	77	.	.	0.014	27	4.1	60	.	.	0.070	27	0.34	64
1995	OCT	.	.	.	.	2.3	82	.	.	0.073	27	0.39	280	.	.	.	.	0.25	140	.	.	0.057	27	1.9	83	.	.	0.41	27	0.61	65
1995	NOV	.	.	0.11	27	0.55	310	.	.	0.087	27	0.34	470	.	.	.	.	0.11	350	.	.	0	27	5.3	65	.	.	0.69	27	0.48	78
1995	DEC	.	.	0.53	27	0.46	280	.	.	0.085	27	1.0	130	.	.	.	.	0.36	62	.	.	0.043	27	2.3	85	.	.	0.43	27	1.0	60
1996	JAN	.	.	0.23	27	0.44	98	.	.	0.038	27	0.34	110	.	.	.	.	0.20	100	.	.	0.036	27	0.87	75	.	.	0.17	27	0.58	88
1996	FEB	.	.	0	27	0.59	81	.	.	0.017	27	0.31	120	.	.	.	.	0.19	100	.	.	0	27	0.37	110	.	.	0.14	27	0.57	84
1996	MAR	.	.	0.009	27	0.43	93	.	.	0.019	27	0.41	100	.	.	.	.	0.30	82	.	.	0.15	27	0.72	76	.	.	0.66	27	0.40	110
1996	APR	.	.	0.032	27	0.52	77	.	.	0	27	0.52	79	.	.	.	.	0.16	110	.	.	0.080	27	1.0	64	.	.	0.15	27	0.42	89
1996	MAY	.	.	0.0060	27	0.38	75	.	.	0	27	0.11	190	.	.	.	.	0.19	76	.	.	0.043	27	1.4	60	.	.	0.12	27	0.67	65
1996	JUN	.	.	0.025	27	0.26	80	.	.	0.056	27	0.30	72	.	.	.	.	0.13	70	.	.	0.086	27	0.84	59	.	.	0.23	27	0.49	63
1996	JUL	.	.	0.055	27	0.30	78	.	.	0.019	27	0.58	60	.	.	.	.	0.083	78	.	.	0.020	27	0.46	61	.	.	0.28	27	0.14	90
1996	AUG	.	.	0.082	27	0.45	62	.	.	0	27	0.72	59	.	.	.	.	0.078	71	.	.	0.005	27	0.54	59	.	.	0.070	27	0.34	61
1996	SEP	.	.	0.094	27	0.21	83	.	.	0.041	27	2.5	58	.	.	.	.	0.079	77	.	.	0.12	27	2.1	59	.	.	0.19	27	0.36	65
1996	OCT	.	.	0.10	27	0.49	77	.	.	0.048	27	0.85	63	.	.	.	.	0.75	60	.	.	0.048	27	2.0	59	.	.	0.12	27	0.36	77
1996	NOV	.	.	0.14	27	0.65	75	.	.	0.037	27	0.55	74	.	.	.	.	0.31	69	.	.	0.25	27	2.3	59	.	.	0.20	27	0.33	94
1996	DEC	.	.	0.36	27	0.47	330	.	.	0.22	27	0.23	600	.	.	.	.	0.12	250	.	.	0	27	3.6	77	.	.	1.8	27	0.36	85

PCB 044 (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.10	27	0.19	160	.	.	0.075	27	0.42	72	.	.	.	.	0.28	95	.	.	0.023	27	3.3	59	.	.	.	.	0.43	62
1997	FEB	.	.	0.048	27	1.9	59	.	.	0.099	27	0.22	94	.	.	.	.	0.26	93	.	.	0.077	27	4.7	59	.	.	.	.	2.0	58
1997	MAR	.	.	0.13	27	0.14	150	.	.	0.10	27	0.23	95	.	.	.	.	.	.	.	.	0	27	3.7	59	.	.	.	.	0.59	60
1997	APR	.	.	0.046	27	0.27	87	.	.	0.022	27	0.72	62	.	.	.	.	0.23	90	.	.	0.047	27	4.3	58	.	.	.	.	0.36	61
1997	MAY	.	.	0.059	27	0.79	61	.	.	0.12	27	0.29	75	.	.	.	.	0.20	99	.	.	0.088	27	2.9	59	.	.	.	.	0.47	59
1997	JUN	.	.	0.074	27	0.77	59	.	.	0.054	27	.	.	.	.	.	.	0.52	60	.	.	0.11	27	4.5	58	.	.	.	.	0.42	58
1997	JUL	.	.	0.10	27	0.61	60	.	.	0.021	27	.	.	.	.	.	.	0.26	62	.	.	0.036	27	1.4	58	.	.	.	.	0.58	58
1997	AUG	.	.	0.026	27	0.38	61	.	.	0.083	27	.	.	.	.	.	.	0.16	70	.	.	0	27	1.4	58	.	.	.	.	0.39	58
1997	SEP	.	.	0.066	27	0.83	60	.	.	0.027	27	.	.	.	.	.	.	0.22	72	.	.	0.05	27	3.3	58	.	.	.	.	0.47	59
1997	OCT	.	.	0.10	27	0.58	65	.	.	0.026	27	1.2	59	.	.	.	.	0.33	71	.	.	0.029	27	12	58	.	.	.	.	0.48	59
1997	NOV	.	.	0.075	27	0.17	120	.	.	0.033	27	0	.	.	.	.	.	0.13	140	.	.	0	27	5.5	58	.	.	.	.	0.21	65
1997	DEC	.	.	0.084	27	1.6	61	.	.	0.047	27	1.1	62	.	.	.	.	0.17	100	.	.	0.041	27	3.5	59	.	.	.	.	0.49	87
1998	JAN	.	.	1.0	27	0.17	300	.	.	0.14	27	0.33	130	.	.	.	.	0.23	120	.	.	0.15	27	0.63	110	.	.	.	.	0.46	70
1998	FEB	.	.	0	27	0.26	170	.	.	0.042	27	0.49	84	.	.	.	.	0.26	95	.	.	0.060	27	1.6	65	.	.	.	.	0.35	72
1998	MAR	.	.	0.32	27	0.35	150	.	.	0.061	27	0.54	100	.	.	.	.	0.28	100	.	.	0.21	27	0.87	89	.	.	.	.	0.34	77
1998	APR	.	.	0.13	27	0.57	88	.	.	0	27	1.1	65	.	.	.	.	0.27	88	.	.	0.37	27	1.6	62	.	.	.	.	0.47	63
1998	MAY	.	.	0.28	27	1.6	61	.	.	0.059	27	1.0	62	.	.	.	.	0.21	79	.	.	0.14	27	5.5	58	.	.	.	.	0.37	60
1998	JUN	.	.	0.16	27	.	.	.	.	0.11	27	1.3	59	.	.	.	.	0.16	77	.	.	0.053	27	1.9	59	.	.	.	.	0.35	60
1998	JUL	.	.	0.36	27	0.53	64	.	.	0.063	27	0.69	60	.	.	.	.	0.12	78	.	.	0.15	27	7.5	58	.	.	.	.	0.22	61
1998	AUG	.	.	0.44	27	0.62	63	.	.	0.074	27	0.84	59	.	.	.	.	0.11	77	.	.	0.13	27	1.9	59	.	.	.	.	0.15	60
1998	SEP	.	.	0.082	27	0.77	64	.	.	0.16	27	1.0	59	.	.	.	.	0.17	74	.	.	0.045	27	3.2	59	.	.	.	.	0.51	59
1998	OCT	.	.	0.21	27	0.33	130	.	.	0.19	27	0.29	110	.	.	.	.	0.16	110	.	.	0.14	27	1.0	64	.	.	.	.	0.48	61
1998	NOV	.	.	0.22	27	0.21	220	.	.	0.32	27	0.26	150	.	.	.	.	0.25	99	.	.	0	27	1.4	65	.	.	.	.	0.58	63
1998	DEC	.	.	0.15	27	0.18	140	.	.	0.021	27	0.50	67	.	.	.	.	0.18	120	.	.	0.041	27	0.84	64	.	.	.	.	0.45	61
1999	JAN	.	.	0.11	27	0.35	190	.	.	0.076	27	0.32	150	.	.	.	.	0.26	79	.	.	0	27	1.6	74	.	.	.	.	0.79	62
1999	FEB	.	.	0.16	27	0.50	140	.	.	0.046	27	0.66	90	.	.	.	.	0.35	69	.	.	0.041	27	1.1	78	.	.	.	.	0.59	62
1999	MAR	.	.	0.038	27	0.34	160	.	.	0.031	27	1.9	63	.	.	.	.	0.17	97	.	.	0.12	27	2.2	65	.	.	.	.	0.23	83
1999	APR	.	.	0	27	0.28	160	.	.	0.28	27	0.78	76	.	.	.	.	0.50	62	.	.	0.11	27	1.6	66	.	.	.	.	0.46	62
1999	MAY	.	.	0	27	2.0	62	.	.	0.15	27	1.8	61	.	.	.	.	0.35	62	.	.	0.20	27	2.0	60	.	.	.	.	0.73	59
1999	JUN	.	.	0.16	27	1.1	62	.	.	0.037	27	.	.	.	.	.	.	0.30	59	.	.	0.096	27	4.6	58	.	.	.	.	0.54	58
1999	JUL	.	.	0.30	27	0.77	63	.	.	0.41	27	2.1	59	.	.	.	.	0.28	60	.	.	0.21	27	0.84	60	.	.	.	.	0.52	58
1999	AUG	.	.	0.21	27	.	.	.	.	0.25	27	.	.	.	.	.	.	0.22	60	.	.	0.24	27	2.3	59	.	.	.	.	0.32	59
1999	SEP	.	.	0	27	.	.	.	.	0.076	27	0.91	61	.	.	.	.	0.37	60	.	.	0	27	3.9	58	.	.	.	.	0.40	59
1999	OCT	.	.	0.45	27	1.2	70	.	.	0.20	27	0.96	67	.	.	.	.	0.49	61	.	.	0.043	27	0.71	77	.	.	.	.	0.70	59
1999	NOV	.	.	0	27	0.58	120	.	.	0.19	27	0.43	120	.	.	.	.	0.30	74	.	.	0.14	27	1.3	71	.	.	.	.	0.91	60
1999	DEC	.	.	0.074	27	0.41	150	.	.	0.11	27	0.41	120	.	.	.	.	0.31	110	.	.	0.069	27	1.5	72	.	.	.	.	0.78	64
2000	JAN	.	.	0	27	0.43	270	.	.	0	27	0.57	200	.	.	.	.	0.31	99	.	.	0.32	27	1.0	150	.	.	.	.	.	.
2000	FEB	.	.	0.089	27	0.53	220	.	.	0	27	0.59	180	.	.	.	.	0.33	96	.	.	0	27	0.95	150	.	.	.	.	.	.
2000	MAR	.	.	0.19	27	1.2	97	.	.	0	27	0.53	160	.	.	.	.	0.32	80	.	.	0	27	1.1	110	.	.	.	.	.	.
2000	APR	.	.	0.12	27	1.8	71	.	.	0.19	27	0.84	110	.	.	.	.	0.24	87	.	.	0	27	5.2	60	.	.	.	.	0.53	62
2000	MAY	.	.	0.091	27	2.2	65	.	.	0.12	27	.	.	.	.	.	.	0.26	71	.	.	0.25	27	.	.	.	.	.	.	0.75	59
2000	JUN	.	.	0.19	27	3.7	60	.	.	0.16	27	.	.	.	.	.	.	0.14	81	.	.	0.46	27	1.3	65	.	.	.	.	0.41	60
2000	JUL	.	.	0	27	1.3	64	.	.	0.092	27	1.8	60	.	.	.	.	0.099	74	.	.	0	27	1.9	59	.	.	.	.	0.21	60
2000	AUG	.	.	0.081	27	0.84	67	.	.	0.11	27	0.84	65	.	.	.	.	0.15	67	.	.	0.42	27	2.2	59	.	.	.	.	0.28	59
2000	SEP	.	.	0.079	27	0.58	110	.	.	0.16	27	0.87	77	.	.	.	.	0.32	65	.	.	0.045	27	2.6	60	.	.	.	.	0.39	60
2000	OCT	.	.	0.057	27	0.27	240	.	.	0.031	27	0.93	81	.	.	.	.	0.17	80	.	.	0.12	27	0.91	76	.	.	.	.	0.18	66
2000	NOV	.	.	0.22	27	0.19	420	.	.	0.11	27	0.33	230	.	.	.	.	0.29	73	.	.	0.21	27	1.1	88	.	.	.	.	0.45	62
2000	DEC	.	.	0	27	0.56	120	.	.	0	27	0.93	80	.	.	.	.	0.35	68	.	.	0.19	27	2.8	62	.	.	.	.	0.85	61

PCB 052 (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0	27	0.19	87	.	.	0.016	27	1.4	59	.	.	.	.	.	.	.	.	0.022	27	1.5	59	.	.	.	.	1.4	150
1992	FEB	.	.	.	.	0.26	72	.	.	.	.	0.56	61	.	.	.	.	.	.	.	.	.	.	1.6	59	.	.	.	.	1.3	150
1992	MAR	.	.	0.010	27	0.61	61	.	.	0.054	27	0.92	59	.	.	.	.	.	.	.	.	0.098	27	2.7	58	.	.	.	.	1.8	120
1992	APR	.	.	0.015	27	0.51	61	.	.	0.031	27	1.4	59	.	.	.	.	.	.	.	.	0.044	27	2.2	58	.	.	.	.	1.7	100
1992	MAY	.	.	0.12	27	1.5	430	.	.	0.034	27	2.4	.	.	.	.	.	.	.	.	.	0.051	27	5.6	.	.	.	.	.	1.4	100
1992	JUN	.	.	0.031	27	0.95	89	.	.	0.035	27	0.23	200	.	.	.	.	.	.	.	.	0.043	27	.	.	.	.	.	.	0.76	98
1992	JUL	.	.	0	27	0.60	120	.	.	0.035	27	0.77	83	.	.	.	.	.	.	.	.	0.11	27	2.7	62	.	.	.	.	0.90	94
1992	AUG	.	.	.	.	1.7	71	.	.	.	.	0.97	85	.	.	.	.	.	.	.	.	0.042	27	2.2	63	.	.	.	.	0.89	100
1992	SEP	.	.	0.052	27	1.0	120	.	.	0.079	27	1.4	85	.	.	.	.	.	.	.	.	0.11	27	4.9	61	.	.	.	.	1.3	100
1992	OCT	.	.	.	.	1.3	98	.	.	0.016	27	0.69	160	.	.	.	.	.	.	.	.	.	.	5.4	61	.	.	.	.	1.1	130
1992	NOV	.	.	0	27	0.52	280	.	.	0.045	27	14	59	.	.	.	.	.	.	.	.	0.26	27	9.3	60	.	.	.	.	1.3	130
1992	DEC	.	.	0.024	27	0.99	62	.	.	0.11	27	2.3	59	.	.	.	.	.	.	.	.	0.038	27	0.98	62	.	.	.	.	.	.
1993	JAN	.	.	0	27	1.1	180	.	.	0.18	27	2.5	84	.	.	2.8	27	0.62	80	.	.	.	.	9.1	62	.	.	1.4	27	2.0	65
1993	FEB	.	.	0.021	27	5.2	67	.	.	0	27	2.1	93	.	.	0	27	0.52	82	.	.	0.014	27	7.3	63	.	.	2.5	27	0.98	82
1993	MAR	.	.	0	27	1.0	140	.	.	0	27	2.1	87	.	.	0	27	1.4	61	.	.	0.058	27	11	60	.	.	0.36	27	1.5	68
1993	APR	.	.	0	27	6.4	62	.	.	0.035	27	1.3	130	.	.	1.1	27	0.29	100	.	.	0.043	27	3.0	70	.	.	2.3	27	0.76	82
1993	MAY	.	.	0	27	4.6	62	.	.	0.026	27	1.4	94	.	.	1.1	27	0.42	75	.	.	0.018	27	5.7	61	.	.	0.30	27	1.6	63
1993	JUN	.	.	0	27	.	.	.	.	0.044	27	0.95	76	.	.	1.7	27	0.22	69	.	.	0.078	27	1.4	67	.	.	0.69	27	1.1	60
1993	JUL	.	.	0.078	27	1.4	78	.	.	0.047	27	1.1	74	.	.	1.3	27	0.29	67	.	.	0.039	27	2.6	61	.	.	0.71	27	0.93	61
1993	AUG	.	.	0	27	0.60	120	.	.	0	27	0.30	160	.	.	1.1	27	0.18	75	.	.	0.019	27	0.91	70	.	.	0.74	27	0.59	63
1993	SEP	.	.	0	27	1.0	110	.	.	0.060	27	1.4	88	.	.	0.78	27	0.68	64	.	.	0.046	27	4.4	62	.	.	1.4	27	1.5	61
1993	OCT	.	.	.	.	1.1	130	.	.	0	27	1.3	100	.	.	1.2	27	0.65	69	.	.	0.043	27	2.8	70	.	.	0.92	27	1.0	69
1993	NOV	.	.	0	27	0.70	210	.	.	0	27	0.46	250	.	.	0	27	0.38	85	.	.	0.033	27	1.3	110	.	.	1.0	27	1.6	64
1993	DEC	.	.	.	.	1.3	140	.	.	.	.	8.7	61	.	.	.	.	.	.	.	.	0.032	27	3.5	79	.	.	.	.	1.8	61
1994	JAN	.	.	0	27	0.23	650	.	.	.	.	0.24	530	.	.	0	27	0.20	75	.	.	0.054	27	2.1	100	.	.	0.56	27	1.3	61
1994	FEB	.	.	0	27	0.53	230	.	.	0.047	27	0.95	140	.	.	0.49	27	0.41	62	.	.	0.014	27	1.9	97	.	.	0.73	27	0.85	63
1994	MAR	.	.	0	27	0.62	180	.	.	0	27	0.51	190	.	.	0.95	27	0.44	60	.	.	0	27	4.4	64	.	.	0.73	27	1.1	60
1994	APR	.	.	0.032	27	0.28	420	.	.	0.042	27	1.1	110	.	.	2.7	27	0.67	60	.	.	0.063	27	5.6	62	.	.	0.91	27	2.0	59
1994	MAY	.	.	0.040	27	0.38	200	.	.	0.19	27	1.8	74	.	.	0.69	27	0.46	60	.	.	0.11	27	3.8	64	.	.	1.2	27	1.6	59
1994	JUN	.	.	0	27	.	.	.	.	0.032	27	0.37	91	.	.	0.61	27	0.18	60	.	.	0.17	27	0.77	70	.	.	0	27	0.71	59
1994	JUL	.	.	0.064	27	1.1	62	.	.	0.044	27	0.75	70	.	.	1.2	27	0.56	58	.	.	0.13	27	3.4	59	.	.	0.57	27	1.2	58
1994	AUG	.	.	0.027	27	0.59	80	.	.	0.12	27	1.1	66	.	.	1.8	27	0.50	59	.	.	0.44	27	2.8	60	.	.	1.0	27	0.99	59
1994	SEP	.	.	0.24	27	4.5	59	.	.	0.097	27	0.70	89	.	.	9.4	27	0.20	61	.	.	0.14	27	1.9	67	.	.	1.1	27	1.4	59
1994	OCT	.	.	0.031	27	15	59	.	.	0.23	27	1.1	86	.	.	0.36	27	0.42	60	.	.	0.053	27	1.8	69	.	.	0.44	27	0.63	60
1994	NOV	.	.	0.70	27	2.6	80	.	.	0.32	27	3.6	66	.	.	3.8	27	0.45	61	.	.	0.12	27	4.0	66	.	.	2.1	27	1.6	59
1994	DEC	.	.	0	27	0.59	260	.	.	0.045	27	0.51	240	.	.	0.43	27	0.31	92	.	.	0	27	1.4	110	.	.	1.8	27	1.1	73
1995	JAN	.	.	0.004	27	1.2	170	.	.	.	.	0.69	240	.	.	0	27	0.27	230	.	.	0.26	27	2.2	110	.	.	0.81	27	0.96	76
1995	FEB	.	.	0.031	27	0.49	460	.	.	.	.	0.78	240	.	.	0	27	0.51	150	.	.	0.17	27	2.6	100	.	.	0.54	27	0.89	86
1995	MAR	.	.	0.075	27	1.4	130	.	.	0.15	27	0.71	200	.	.	0	27	0.30	170	.	.	0.21	27	2.1	84	.	.	1.2	27	0.54	87
1995	APR	.	.	0.068	27	1.6	110	.	.	0.14	27	0.69	230	.	.	0	27	0.36	160	.	.	0.36	27	2.0	97	.	.	0.51	27	0.91	74
1995	MAY	.	.	0.064	27	2.1	77	.	.	0.10	27	1.7	82	.	.	0	27	0.28	140	.	.	0.28	27	2.2	71	.	.	0.53	27	0.89	66
1995	JUN	.	.	0.042	27	1.5	75	.	.	0.060	27	0.45	120	.	.	0	27	0.18	120	.	.	0.17	27	2.2	61	.	.	0	27	0.45	65
1995	JUL	.	.	0.004	27	1.2	76	.	.	0.073	27	0.43	120	.	.	.	.	0.23	94	.	.	0.19	27	2.9	60	.	.	0.52	27	0.66	61
1995	AUG	.	.	0.062	27	1.5	68	.	.	0.072	27	0.50	89	.	.	.	.	0.22	91	.	.	0.18	27	3.7	59	.	.	0.32	27	0.60	61
1995	SEP	.	.	.	.	0.97	98	.	.	0.038	27	1.3	75	.	.	.	.	0.41	82	.	.	0.029	27	1.7	66	.	.	0.12	27	0.62	63
1995	OCT	.	.	.	.	2.2	85	.	.	0.11	27	0.97	130	.	.	.	.	0.31	160	.	.	0.11	27	4.0	65	.	.	0.67	27	1.1	65
1995	NOV	.	.	0.17	27	0.63	270	.	.	0.16	27	0.73	230	.	.	.	.	0.14	440	.	.	0.22	27	1.4	130	.	.	0.95	27	0.88	77
1995	DEC	.	.	1.1	27	1.1	150	.	.	0.17	27	2.4	82	.	.	.	.	0.62	60	.	.	0.093	27	4.4	69	.	.	0.71	27	1.4	60
1996	JAN	.	.	0.37	27	0.60	140	.	.	0.093	27	0.69	120	.	.	.	.	0.29	110	.	.	0.075	27	1.6	80	.	.	0.35	27	0.95	72
1996	FEB	.	.	0	27	0.38	190	.	.	0.056	27	0.59	130	.	.	.	.	0.27	120	.	.	0	27	0.76	110	.	.	0.34	27	0.54	88
1996	MAR	.	.	0.021	27	0.75	110	.	.	0.043	27	0.79	110	.	.	.	.	0.38	95	.	.	0.23	27	1.5	76	.	.	1.1	27	0.89	72
1996	APR	.	.	0.062	27	0.82	90	.	.	0	27	0.56	120	.	.	.	.	0.39	85	.	.	0.13	27	1.4	72	.	.	0.24	27	0.91	67
1996	MAY	.	.	0	27	0.56	88	.	.	0	27	0.69	86	.	.	.	.	0.39	70	.	.	0.072	27	2.0	61	.	.	0.22	27	1.4	60
1996	JUN	.	.	0.046	27	0.52	83	.	.	0.12	27	0.61	73	.	.	.	.	0.28	66	.	.	0.18	27	2.1	59	.	.	0.47	27	0.92	60
1996	JUL	.	.	0.058	27	0.55	83	.	.	0.061	27	0.78	62	.	.	.	.	0.17	73	.	.	0.042	27	0.71	62	.	.	0.57	27	0.32	67
1996	AUG	.	.	0	27	0.74	65	.	.	0.023	27	1.1	60	.	.	.	.	0.12	73	.	.	0.010	27	1.1	59	.	.	0.11	27	0.66	59
1996	SEP	.	.	0	27	0.41	86	.	.	0.059	27	0.87	64	.	.	.	.	0.19	68	.	.	0.19	27	1.3	61	.	.	0.34	27	0.63	61
1996	OCT	.	.	0.14	27	0.93	82	.	.	0.097	27	0.88	75	.	.	.	.	1.1	60	.	.	0.071	27	1.3	65	.	.	0.26	27	0.80	63
1996	NOV	.	.	0.14	27	1.3	77	.	.	0.044	27	0.71	95	.	.	.	.	0.55	68	.	.	0.31	27	1.0	78	.	.	0.30	27	0.71	68
1996	DEC	.	.	0.87	27	0.77	210	.	.	0.50	27	0.41	340	.	.	.	.	0.16	290	.	.	0.69	27	1.5	140	.	.	3.4	27	0.82	76

PCB 052 (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.013	27	0.40	120	.	.	0.15	27	0.51	80	.	.	.	.	0.43	110	.	.	0.040	27	1.4	68	.	.	.	.	0.89	62
1997	FEB	.	.	0.060	27	0.41	100	.	.	0.17	27	0.47	80	.	.	.	.	0.48	93	.	.	0.077	27	2.6	60	.	.	.	.	2.8	59
1997	MAR	.	.	0	27	0.24	140	.	.	0.094	27	0.42	87	.	.	.	.	.	.	.	.	0.083	27	2.6	60	.	.	.	.	1.1	60
1997	APR	.	.	0.015	27	0.51	80	.	.	0.025	27	0.78	67	.	.	.	.	0.46	86	.	.	0.040	27	2.7	59	.	.	.	.	0.72	60
1997	MAY	.	.	0	27	0.53	72	.	.	0.14	27	0.64	68	.	.	.	.	0.49	84	.	.	0.093	27	3.4	59	.	.	.	.	0.91	59
1997	JUN	.	.	0.082	27	1.1	59	.	.	0.076	27	.	.	.	.	.	.	0.84	61	.	.	0.13	27	2.1	59	.	.	.	.	0.75	58
1997	JUL	.	.	0.14	27	0.86	60	.	.	0.037	27	.	.	.	.	.	.	0.41	64	.	.	0.061	27	1.6	59	.	.	.	.	1.0	58
1997	AUG	.	.	0.033	27	0.59	61	.	.	0	27	.	.	.	.	.	.	0.27	73	.	.	0.056	27	2.5	58	.	.	.	.	0.72	58
1997	SEP	.	.	0.020	27	0.67	64	.	.	0.054	27	.	.	.	.	.	.	0.36	76	.	.	0.073	27	3.8	58	.	.	.	.	0.84	59
1997	OCT	.	.	0.067	27	1.1	63	.	.	0.050	27	2.0	59	.	.	.	.	0.63	70	.	.	0.029	27	4.2	58	.	.	.	.	0.82	59
1997	NOV	.	.	0.019	27	0.31	110	.	.	0.072	27	0.60	70	.	.	.	.	0.29	130	.	.	0.060	27	1.7	61	.	.	.	.	0.42	65
1997	DEC	.	.	0.23	27	0.48	140	.	.	0.033	27	0.68	92	.	.	.	.	0.33	92	.	.	0.035	27	1.9	69	.	.	.	.	1.0	67
1998	JAN	.	.	0.16	27	0.38	170	.	.	0.097	27	0.62	93	.	.	.	.	0.38	130	.	.	0.17	27	1.4	75	.	.	.	.	0.90	63
1998	FEB	.	.	0	27	0.76	88	.	.	0	27	0.90	71	.	.	.	.	0.39	110	.	.	0.040	27	2.8	62	.	.	.	.	0.73	63
1998	MAR	.	.	0.036	27	0.55	120	.	.	0.037	27	1.0	81	.	.	.	.	0.47	110	.	.	0.053	27	2.2	67	.	.	.	.	0.63	68
1998	APR	.	.	0.067	27	0.62	92	.	.	0.11	27	1.7	62	.	.	.	.	0.49	91	.	.	0.098	27	2.9	60	.	.	.	.	0.85	61
1998	MAY	.	.	0.038	27	0.58	86	.	.	0.069	27	1.8	60	.	.	.	.	0.46	75	.	.	0.059	27	2.0	59	.	.	.	.	0.72	59
1998	JUN	.	.	0.16	27	0.51	77	.	.	0.087	27	1.1	60	.	.	.	.	0.24	86	.	.	0.058	27	3.2	59	.	.	.	.	0.64	59
1998	JUL	.	.	0.15	27	0.51	68	.	.	0.053	27	1.1	59	.	.	.	.	0.29	71	.	.	0.12	27	2.4	59	.	.	.	.	0.41	59
1998	AUG	.	.	0.041	27	0.90	61	.	.	0.092	27	1.4	59	.	.	.	.	0.19	79	.	.	0.11	27	3.5	58	.	.	.	.	0.27	59
1998	SEP	.	.	0	27	0.45	79	.	.	0.057	27	0.38	68	.	.	.	.	0.33	75	.	.	0.049	27	1.9	59	.	.	.	.	0.73	59
1998	OCT	.	.	0.062	27	0.57	100	.	.	0.10	27	0.42	92	.	.	.	.	0.30	110	.	.	0.076	27	2.0	60	.	.	.	.	0.70	61
1998	NOV	.	.	0.11	27	0.42	140	.	.	0.23	27	0.49	110	.	.	.	.	0.51	95	.	.	0	27	2.1	63	.	.	.	.	0.95	61
1998	DEC	.	.	0.012	27	0.40	110	.	.	0.047	27	0.84	66	.	.	.	.	0.40	110	.	.	0.019	27	1.6	62	.	.	.	.	0.82	61
1999	JAN	.	.	0.17	27	0.70	180	.	.	0.14	27	0.60	150	.	.	.	.	0.45	75	.	.	0	27	3.3	74	.	.	.	.	1.2	63
1999	FEB	.	.	0.21	27	0.96	140	.	.	0.094	27	1.1	98	.	.	.	.	0.64	66	.	.	0.076	27	2.2	79	.	.	.	.	0.92	63
1999	MAR	.	.	0.031	27	0.67	160	.	.	0.036	27	1.1	100	.	.	.	.	0.35	81	.	.	0.16	27	3.7	67	.	.	.	.	0.92	64
1999	APR	.	.	0	27	0.53	160	.	.	0.22	27	1.3	81	.	.	.	.	0.86	61	.	.	0.11	27	2.8	68	.	.	.	.	0.74	63
1999	MAY	.	.	0.068	27	1.8	75	.	.	0.061	27	2.3	63	.	.	.	.	0.54	62	.	.	0.41	27	3.2	61	.	.	.	.	1.2	59
1999	JUN	.	.	0.11	27	0.91	80	.	.	0.078	27	1.5	60	.	.	.	.	0.43	59	.	.	0.10	27	2.4	59	.	.	.	.	0.89	58
1999	JUL	.	.	0.23	27	0.68	77	.	.	0.24	27	1.4	60	.	.	.	.	0.38	60	.	.	0.13	27	1.9	60	.	.	.	.	0.79	59
1999	AUG	.	.	0.056	27	0.66	75	.	.	0.18	27	1.0	63	.	.	.	.	0.23	63	.	.	0.054	27	3.9	59	.	.	.	.	0.44	59
1999	SEP	.	.	0.19	27	2.0	64	.	.	0.083	27	1.5	62	.	.	.	.	0.50	60	.	.	0.072	27	2.9	59	.	.	.	.	0.56	59
1999	OCT	.	.	0.38	27	2.7	67	.	.	0.41	27	1.6	70	.	.	.	.	0.68	62	.	.	0.090	27	2.0	68	.	.	.	.	1.0	60
1999	NOV	.	.	0.024	27	0.98	130	.	.	0.041	27	0.80	120	.	.	.	.	0.44	75	.	.	0.099	27	2.0	78	.	.	.	.	1.5	60
1999	DEC	.	.	0.13	27	0.79	110	.	.	0.19	27	0.52	120	.	.	.	.	0.66	100	.	.	0.12	27	2.6	65	.	.	.	.	1.4	61
2000	JAN	.	.	0	27	0.79	81	.	.	0	27	0.82	78	.	.	.	.	0.42	83	.	.	0.38	27	1.6	68	.	.	.	.	.	.
2000	FEB	.	.	0.10	27	0.78	82	.	.	0.21	27	0.94	72	.	.	.	.	0.36	92	.	.	0.11	27	1.5	68	.	.	.	.	.	.
2000	MAR	.	.	0.15	27	0.63	82	.	.	0.19	27	0.89	69	.	.	.	.	0.46	70	.	.	0.10	27	1.7	63	.	.	.	.	.	.
2000	APR	.	.	0.21	27	1.6	61	.	.	0.39	27	1.1	65	.	.	.	.	0.32	76	.	.	0.42	27	2.1	60	.	.	.	.	0.71	61
2000	MAY	.	.	0.14	27	0.86	65	.	.	0.14	27	1.2	61	.	.	.	.	0.48	62	.	.	0.13	27	3.5	59	.	.	.	.	0.96	59
2000	JUN	.	.	0.33	27	2.3	59	.	.	0.30	27	0.75	62	.	.	.	.	0.23	67	.	.	0.17	27	2.2	59	.	.	.	.	0.57	59
2000	JUL	.	.	0	27	1.7	59	.	.	0.17	27	0.65	61	.	.	.	.	0.19	63	.	.	0.058	27	2.1	58	.	.	.	.	0.36	59
2000	AUG	.	.	0.097	27	1.2	59	.	.	0.042	27	0.60	60	.	.	.	.	0.24	62	.	.	0.16	27	1.3	59	.	.	.	.	0.49	59
2000	SEP	.	.	0.12	27	1.0	62	.	.	0.26	27	0.97	61	.	.	.	.	0.54	61	.	.	0.064	27	3.3	59	.	.	.	.	0.58	59
2000	OCT	.	.	0.098	27	0.54	74	.	.	0.059	27	0.74	64	.	.	.	.	0.28	67	.	.	0.17	27	2.0	59	.	.	.	.	0.30	63
2000	NOV	.	.	0.36	27	0.37	100	.	.	0.18	27	0.60	76	.	.	.	.	0.53	63	.	.	0.11	27	2.2	60	.	.	.	.	0.76	60
2000	DEC	.	.	0.17	27	1.0	120	.	.	0.11	27	1.5	86	.	.	.	.	0.49	70	.	.	0.078	27	3.6	67	.	.	.	.	1.1	62

PCB 101 (ng/m²/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	0.10	27	0.25	78	.	.	0.013	27	0.89	60	.	.	.	.	.	.	.	.	0.036	27	0.77	61	.	.	.	.	1.3	95
1992	FEB	.	.	.	.	0.15	97	.	.	.	.	0.44	63	.	.	.	.	.	.	.	.	.	.	1.0	59	.	.	.	.	0.76	130
1992	MAR	.	.	0.014	27	0.24	74	.	.	0.019	27	0.51	61	.	.	.	.	.	.	.	.	0.064	27	1.6	59	.	.	.	.	0.86	120
1992	APR	.	.	0	27	0.29	67	.	.	0.047	27	1.2	59	.	.	.	.	.	.	.	.	0.060	27	1.8	59	.	.	.	.	0.65	120
1992	MAY	.	.	0.15	27	1.0	690	.	.	0.052	27	1.5	.	.	.	.	.	.	.	.	.	0.046	27	3.3	.	.	.	.	.	0.79	89
1992	JUN	.	.	0.031	27	0.43	110	.	.	0.039	27	0.14	210	.	.	.	.	.	.	.	.	0.045	27	.	.	.	.	.	.	0.38	96
1992	JUL	.	.	0	27	0.40	110	.	.	0.032	27	0.61	74	.	.	.	.	.	.	.	.	0.099	27	2.0	61	.	.	.	.	0.58	80
1992	AUG	.	.	.	.	1.0	72	.	.	.	.	0.64	82	.	.	.	.	.	.	.	.	0.042	27	1.4	62	.	.	.	.	0.67	79
1992	SEP	.	.	0.095	27	0.67	120	.	.	0.028	27	0.97	81	.	.	.	.	.	.	.	.	0.078	27	3.6	60	.	.	.	.	0.83	87
1992	OCT	.	.	.	.	0.82	95	.	.	0.018	27	0.44	150	.	.	.	.	.	.	.	.	.	.	3.2	61	.	.	.	.	0.60	110
1992	NOV	.	.	0.14	27	0.49	180	.	.	0.059	27	11	59	.	.	.	.	.	.	.	.	0.22	27	21	58	.	.	.	.	0.58	140
1992	DEC	.	.	0.040	27	0.64	61	.	.	0.11	27	1.4	59	.	.	.	.	.	.	.	.	0.045	27	0.46	64	.	.	.	.	.	.
1993	JAN	.	.	0.074	27	0.85	180	.	.	0	27	2.5	76	.	.	1.6	27	0.28	67	.	.	.	.	7.2	62	.	.	0.99	27	0.95	61
1993	FEB	.	.	0.015	27	1.5	110	.	.	0	27	5.1	63	.	.	0	27	0.28	65	.	.	0.043	27	4.9	65	.	.	1.2	27	0.60	63
1993	MAR	.	.	0	27	1.0	120	.	.	0	27	1.4	97	.	.	0	27	0.29	63	.	.	0.071	27	6.8	61	.	.	0.30	27	0.72	61
1993	APR	.	.	0.012	27	3.4	66	.	.	0.060	27	1.4	100	.	.	0.67	27	0.19	68	.	.	0.048	27	1.8	78	.	.	1.0	27	0.58	62
1993	MAY	.	.	0.086	27	2.3	68	.	.	0.019	27	1.1	93	.	.	0.61	27	0.29	61	.	.	0.022	27	3.8	63	.	.	0.18	27	0.96	59
1993	JUN	.	.	0	27	.	.	.	.	0.020	27	0.75	77	.	.	0.93	27	0.19	60	.	.	0.17	27	0.95	69	.	.	0.40	27	0.65	59
1993	JUL	.	.	0.092	27	1.1	79	.	.	0.031	27	0.58	89	.	.	0.79	27	0.24	59	.	.	0.036	27	1.7	62	.	.	0.45	27	0.67	59
1993	AUG	.	.	0	27	0.66	97	.	.	0	27	0.22	180	.	.	0.88	27	0.18	60	.	.	0.023	27	0.71	70	.	.	0.46	27	0.39	59
1993	SEP	.	.	0.033	27	0.66	130	.	.	0.060	27	1.0	92	.	.	0.57	27	0.49	59	.	.	0.062	27	2.9	64	.	.	1.0	27	1.1	59
1993	OCT	.	.	.	27	0.33	300	.	.	0	27	0.69	140	.	.	0.80	27	0.42	61	.	.	0.035	27	1.7	78	.	.	0.54	27	0.44	62
1993	NOV	.	.	0	27	0.56	210	.	.	0.051	27	0.23	390	.	.	0	27	0.18	69	.	.	0.042	27	0.90	120	.	.	0.52	27	0.90	60
1993	DEC	.	.	.	.	0.80	140	.	.	.	27	4.3	62	.	.	.	.	.	.	.	.	0.034	27	2.6	72	.	.	.	.	0.70	59
1994	JAN	.	.	0	27	0.064	1200	.	.	.	27	0.11	590	.	.	0	27	0.12	120	.	.	0.11	27	1.2	95	.	.	0.56	27	0.73	65
1994	FEB	.	.	0	27	0.57	120	.	.	0.043	27	0.56	120	.	.	0.25	27	0.24	75	.	.	0.031	27	1.1	88	.	.	0.35	27	0.48	70
1994	MAR	.	.	0.008	27	0.38	160	.	.	0	27	0.38	140	.	.	0.48	27	0.18	75	.	.	0	27	2.1	65	.	.	0.43	27	0.72	62
1994	APR	.	.	0.023	27	0.15	390	.	.	0.047	27	0.63	100	.	.	1.2	27	0.46	62	.	.	0.070	27	2.7	63	.	.	0.61	27	1.6	59
1994	MAY	.	.	0.012	27	0.24	170	.	.	0.063	27	1.1	70	.	.	0.40	27	0.32	63	.	.	0.18	27	1.7	65	.	.	0.69	27	1.2	59
1994	JUN	.	.	0	27	.	.	.	.	0.011	27	0.24	80	.	.	0.34	27	0.13	62	.	.	0.11	27	0.48	66	.	.	0	27	0.63	59
1994	JUL	.	.	0.049	27	0.90	60	.	.	0	27	0.45	67	.	.	0.67	27	0.54	59	.	.	0.075	27	2.1	59	.	.	0.29	27	1.0	58
1994	AUG	.	.	0.10	27	0.44	69	.	.	0.10	27	0.81	62	.	.	0.91	27	0.38	59	.	.	0.37	27	2.0	59	.	.	0.51	27	1.2	58
1994	SEP	.	.	0.16	27	4.0	59	.	.	0.084	27	0.43	82	.	.	5.1	27	0.15	67	.	.	0.14	27	1.1	65	.	.	0.55	27	1.7	59
1994	OCT	.	.	0	27	17	58	.	.	0.15	27	0.87	72	.	.	0.19	27	0.25	65	.	.	0.042	27	0.94	68	.	.	0.24	27	0.57	60
1994	NOV	.	.	0.43	27	2.6	65	.	.	0.23	27	1.9	65	.	.	2.0	27	0.28	70	.	.	0.067	27	2.0	67	.	.	0.96	27	1.2	60
1994	DEC	.	.	0.008	27	0.62	200	.	.	0.024	27	0.42	230	.	.	0.27	27	0.17	68	.	.	0	27	0.95	120	.	.	1.1	27	0.75	61
1995	JAN	.	.	0.065	27	0.66	330	.	.	.	.	0.40	450	.	.	0	27	0.13	170	.	.	0.23	27	1.2	190	.	.	0.52	27	0.58	65
1995	FEB	.	.	0.086	27	0.3	790	.	.	.	.	0.48	410	.	.	0	27	0.26	110	.	.	0.16	27	1.3	200	.	.	0.38	27	0.34	82
1995	MAR	.	.	0.17	27	1.3	150	.	.	0.11	27	0.34	450	.	.	0	27	0.13	140	.	.	0.13	27	1.1	150	.	.	0.69	27	0.25	78
1995	APR	.	.	0.063	27	1.3	140	.	.	0.12	27	0.36	460	.	.	0	27	0.14	140	.	.	0.31	27	1.1	160	.	.	0.40	27	0.42	68
1995	MAY	.	.	0.050	27	2.1	80	.	.	0.090	27	1.2	110	.	.	0	27	0.11	120	.	.	0.20	27	1.2	100	.	.	0.16	27	0.42	63
1995	JUN	.	.	0.030	27	1.7	75	.	.	0.041	27	0.32	170	.	.	0	27	0.089	97	.	.	0.10	27	1.4	66	.	.	0	27	0.19	63
1995	JUL	.	.	0.10	27	1.4	76	.	.	0.057	27	0.28	170	.	.	.	.	0.15	71	.	.	0.095	27	1.7	63	.	.	0.34	27	0.32	60
1995	AUG	.	.	0.079	27	1.0	80	.	.	0.036	27	0.30	130	.	.	.	.	0.16	67	.	.	0.11	27	2.2	60	.	.	0.23	27	0.32	59
1995	SEP	.	.	.	.	0.68	140	.	.	0.029	27	0.78	100	.	.	.	.	0.21	70	.	.	0.020	27	0.99	83	.	.	0.070	27	0.32	61
1995	OCT	.	.	.	.	1.4	120	.	.	0.073	27	0.50	250	.	.	.	.	0.13	140	.	.	0.074	27	2.3	79	.	.	0.25	27	0.49	63
1995	NOV	.	.	0.15	27	0.69	270	.	.	0.12	27	0.36	490	.	.	.	.	0.076	280	.	.	0.18	27	0.70	250	.	.	0.68	27	0.40	71
1995	DEC	.	.	0.71	27	0.55	140	.	.	0.099	27	1.0	89	.	.	.	.	0.51	63	.	.	0.073	27	2.0	71	.	.	0.37	27	1.1	60
1996	JAN	.	.	0.26	27	0.54	120	.	.	0.065	27	0.30	200	.	.	.	.	0.16	110	.	.	0.055	27	0.82	100	.	.	0.20	27	0.39	92
1996	FEB	.	.	0.028	27	0.29	210	.	.	0.051	27	0.30	200	.	.	.	.	0.084	170	.	.	0	27	0.33	190	.	.	0.17	27	0.24	120
1996	MAR	.	.	0.012	27	0.56	110	.	.	0.019	27	0.30	200	.	.	.	.	0.17	100	.	.	0.18	27	0.71	100	.	.	0.62	27	0.32	100
1996	APR	.	.	0.053	27	0.72	86	.	.	0	27	0.36	150	.	.	.	.	0.17	93	.	.	0.080	27	0.74	88	.	.	0.17	27	0.50	72
1996	MAY	.	.	0.025	27	0.52	83	.	.	0	27	0.47	97	.	.	.	.	0.21	69	.	.	0.049	27	1.3	63	.	.	0.12	27	0.85	61
1996	JUN	.	.	0.025	27	0.42	84	.	.	0.071	27	0.47	75	.	.	.	.	0.16	65	.	.	0.26	27	1.2	59	.	.	0.19	27	0.51	61
1996	JUL	.	.	0.069	27	0.43	85	.	.	0.037	27	0.51	65	.	.	.	.	0.098	70	.	.	0.020	27	0.45	65	.	.	0.21	27	0.23	67
1996	AUG	.	.	0.10	27	0.73	63	.	.	0.005	27	0.68	60	.	.	.	.	0.095	65	.	.	0.009	27	0.74	59	.	.	0.050	27	0.39	59
1996	SEP	.	.	0.13	27	0.34	86	.	.	0.041	27	0.63	65	.	.	.	.	0.078	73	.	.	0.13	27	0.84	62	.	.	0.23	27	0.29	64
1996	OCT	.	.	0.077	27	0.67	87	.	.	0.057	27	0.57	83	.	.	.	.	0.34	64	.	.	0.077	27	0.83	69	.	.	0.15	27	0.49	64
1996	NOV	.	.	0.096	27	0.77	90	.	.	0.047	27	0.42	120	.	.	.	.	0.26	69	.	.	0.24	27	0.45	110	.	.	0.22	27	0.47	70
1996	DEC	.	.	0.50	27	0.53	320	.	.	0.22	27	0.19	810	.	.	.	.	0.085	200	.	.	0.41	27	0.92	230	.	.	1.9	27	0.28	78

PCB 101 (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	0.15	27	0.21	190	.	.	0.078	27	0.26	110	.	.	.	.	0.16	120	.	.	0.031	27	0.68	86	.	.	.	.	0.37	67
1997	FEB	.	.	0.051	27	0.27	120	.	.	0.11	27	0.25	110	.	.	.	.	0.17	100	.	.	0.055	27	1.4	63	.	.	.	.	0.62	60
1997	MAR	.	.	0.12	27	0.14	200	.	.	0.063	27	0.22	130	.	.	.	.	.	.	.	.	0.060	27	1.1	67	.	.	.	.	0.57	61
1997	APR	.	.	0.037	27	0.28	110	.	.	0.021	27	0.37	85	.	.	.	.	0.20	86	.	.	0.031	27	1.1	63	.	.	.	.	0.37	62
1997	MAY	.	.	0.11	27	0.30	90	.	.	0.088	27	0.33	84	.	.	.	.	0.23	80	.	.	0.063	27	1.6	61	.	.	.	.	0.48	60
1997	JUN	.	.	0.084	27	0.70	61	.	.	0.069	27	.	.	.	.	.	.	0.38	60	.	.	0.31	27	1.1	59	.	.	.	.	0.41	59
1997	JUL	.	.	0.12	27	0.66	61	.	.	0.027	27	.	.	.	.	.	.	0.19	63	.	.	0.061	27	0.94	59	.	.	.	.	0.62	58
1997	AUG	.	.	0.019	27	0.39	63	.	.	0.073	27	.	.	.	.	.	.	0.19	64	.	.	0.031	27	1.6	59	.	.	.	.	0.37	59
1997	SEP	.	.	0.072	27	0.63	64	.	.	0.040	27	.	.	.	.	.	.	0.23	67	.	.	0.064	27	2.1	59	.	.	.	.	0.45	59
1997	OCT	.	.	0.19	27	0.58	71	.	.	0.018	27	0.81	62	.	.	.	.	0.33	66	.	.	0.029	27	2.1	59	.	.	.	.	0.40	59
1997	NOV	.	.	0.15	27	0.21	130	.	.	0.048	27	0.28	94	.	.	.	.	0.11	130	.	.	0.053	27	0.79	68	.	.	.	.	0.18	73
1997	DEC	.	.	0.055	27	0.38	140	.	.	0.020	27	0.40	110	.	.	.	.	0.17	92	.	.	0.023	27	0.92	83	.	.	.	.	0.44	78
1998	JAN	.	.	0.67	27	0.22	270	.	.	0.088	27	0.34	140	.	.	.	.	0.20	110	.	.	0.15	27	0.72	110	.	.	.	.	0.36	64
1998	FEB	.	.	0	27	0.36	150	.	.	0.036	27	0.41	110	.	.	.	.	0.18	110	.	.	0.038	27	1.3	72	.	.	.	.	0.35	63
1998	MAR	.	.	0.13	27	0.31	190	.	.	0.047	27	0.49	130	.	.	.	.	0.19	120	.	.	0.11	27	0.98	91	.	.	.	.	0.23	72
1998	APR	.	.	0.17	27	0.38	130	.	.	0.078	27	0.76	76	.	.	.	.	0.20	95	.	.	0.11	27	1.3	66	.	.	.	.	0.43	60
1998	MAY	.	.	0.085	27	0.49	94	.	.	0.059	27	0.73	68	.	.	.	.	0.24	71	.	.	0.064	27	1.1	62	.	.	.	.	0.35	59
1998	JUN	.	.	0.25	27	0.34	95	.	.	0.089	27	0.54	65	.	.	.	.	0.18	70	.	.	0.051	27	1.9	59	.	.	.	.	0.37	59
1998	JUL	.	.	0.18	27	0.30	81	.	.	0.029	27	0.50	62	.	.	.	.	0.10	76	.	.	0.11	27	1.4	59	.	.	.	.	0.22	59
1998	AUG	.	.	0.15	27	0.60	65	.	.	0.032	27	0.88	60	.	.	.	.	0.10	73	.	.	0.11	27	2.0	59	.	.	.	.	0.15	59
1998	SEP	.	.	0.11	27	0.36	87	.	.	0.055	27	0.23	80	.	.	.	.	0.16	71	.	.	0.039	27	1.3	60	.	.	.	.	0.34	59
1998	OCT	.	.	0.11	27	0.43	120	.	.	0.15	27	0.27	120	.	.	.	.	0.15	100	.	.	0.11	27	1.4	63	.	.	.	.	0.30	61
1998	NOV	.	.	0.073	27	0.32	170	.	.	0.15	27	0.37	130	.	.	.	.	0.18	110	.	.	0	27	1.1	73	.	.	.	.	0.41	61
1998	DEC	.	.	0.30	27	0.22	160	.	.	0.026	27	0.37	87	.	.	.	.	0.14	120	.	.	0.040	27	0.81	69	.	.	.	.	0.43	63
1999	JAN	.	.	0.13	27	0.38	140	.	.	0.068	27	0.31	130	.	.	.	.	0.14	110	.	.	0	27	1.5	70	.	.	.	.	0.38	80
1999	FEB	.	.	0.27	27	0.41	130	.	.	0.052	27	0.55	88	.	.	.	.	0.22	80	.	.	0.042	27	1.1	72	.	.	.	.	0.31	80
1999	MAR	.	.	0.053	27	0.32	140	.	.	0.034	27	0.53	93	.	.	.	.	0.11	130	.	.	0.13	27	2.3	62	.	.	.	.	0.37	76
1999	APR	.	.	0	27	0.29	130	.	.	0.18	27	0.60	78	.	.	.	.	0.21	76	.	.	0.087	27	1.3	66	.	.	.	.	0.25	79
1999	MAY	.	.	0.088	27	1.2	65	.	.	0.039	27	1.3	61	.	.	.	.	0.20	67	.	.	0.28	27	1.8	60	.	.	.	.	0.54	60
1999	JUN	.	.	0.10	27	0.64	67	.	.	0.046	27	0.95	59	.	.	.	.	0.20	60	.	.	0.076	27	1.4	59	.	.	.	.	0.42	59
1999	JUL	.	.	0.22	27	0.52	65	.	.	0.15	27	0.75	59	.	.	.	.	0.14	63	.	.	0.12	27	1.2	59	.	.	.	.	0.35	59
1999	AUG	.	.	0.10	27	0.48	64	.	.	0.12	27	0.50	62	.	.	.	.	0.095	67	.	.	0.055	27	2.3	58	.	.	.	.	0.19	61
1999	SEP	.	.	0.20	27	0.75	65	.	.	0.076	27	0.74	61	.	.	.	.	0.16	64	.	.	0.068	27	1.7	59	.	.	.	.	0.25	61
1999	OCT	.	.	0.72	27	1.0	68	.	.	0.36	27	0.85	66	.	.	.	.	0.21	72	.	.	0.055	27	1.3	62	.	.	.	.	0.42	63
1999	NOV	.	.	0.037	27	0.45	120	.	.	0.032	27	0.45	96	.	.	.	.	0.11	130	.	.	0.066	27	1.2	68	.	.	.	.	0.55	65
1999	DEC	.	.	0.079	27	0.55	130	.	.	0.10	27	0.31	180	.	.	.	.	0.27	110	.	.	0.13	27	1.3	80	.	.	.	.	0.56	62
2000	JAN	.	.	0	27	0.34	210	.	.	0	27	0.46	150	.	.	.	.	0.076	130	.	.	0.26	27	0.85	120	.	.	.	.	.	.
2000	FEB	.	.	0.081	27	0.37	190	.	.	0.18	27	0.48	140	.	.	.	.	0.088	120	.	.	0.12	27	0.76	120	.	.	.	.	.	.
2000	MAR	.	.	0.14	27	0.35	170	.	.	0.14	27	0.53	110	.	.	.	.	0.10	85	.	.	0.079	27	1.1	80	.	.	.	.	.	.
2000	APR	.	.	0.18	27	0.70	88	.	.	0.26	27	0.60	100	.	.	.	.	0.10	80	.	.	0.32	27	1.1	70	.	.	.	.	0.30	59
2000	MAY	.	.	0.13	27	0.46	100	.	.	0.11	27	0.63	81	.	.	.	.	0.17	63	.	.	0.11	27	2.2	60	.	.	.	.	0.33	58
2000	JUN	.	.	0.25	27	0.88	71	.	.	0.21	27	0.38	90	.	.	.	.	0.087	67	.	.	0.12	27	1.4	61	.	.	.	.	0.22	58
2000	JUL	.	.	0	27	0.86	63	.	.	0.13	27	0.47	68	.	.	.	.	0.054	66	.	.	0.042	27	1.2	59	.	.	.	.	0.13	58
2000	AUG	.	.	0.066	27	0.52	67	.	.	0.029	27	0.32	74	.	.	.	.	0.089	61	.	.	0.11	27	0.75	61	.	.	.	.	0.20	58
2000	SEP	.	.	0.19	27	0.53	86	.	.	0.25	27	0.62	72	.	.	.	.	0.22	60	.	.	0.050	27	2.0	59	.	.	.	.	0.27	58
2000	OCT	.	.	0.084	27	0.28	150	.	.	0.050	27	0.39	99	.	.	.	.	0.097	68	.	.	0.16	27	1.2	62	.	.	.	.	0.11	59
2000	NOV	.	.	0.30	27	0.19	260	.	.	0.14	27	0.29	160	.	.	.	.	0.10	73	.	.	0.11	27	1.2	70	.	.	.	.	0.32	59
2000	DEC	.	.	0.15	27	0.43	120	.	.	0.10	27	0.80	77	.	.	.	.	0.19	84	.	.	0.064	27	1.8	64	.	.	.	.	0.39	76

SUITE PCB (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	1.5	27	3.7	100	.	.	0.53	27	24	59	.	.	.	.	.	.	.	.	0.99	27	24	60	.	.	.	.	29	91
1992	FEB	.	.	.	.	4.0	90	.	.	.	.	12	62	.	.	.	.	.	.	.	.	.	.	24	59	.	.	.	.	23	97
1992	MAR	.	.	0.73	27	8.6	65	.	.	2.3	27	14	60	.	.	.	.	.	.	.	.	3.5	27	42	59	.	.	.	.	33	82
1992	APR	.	.	0.64	27	8.7	64	.	.	1.0	27	21	59	.	.	.	.	.	.	.	.	1.5	27	35	59	.	.	.	.	23	83
1992	MAY	.	.	3.2	27	29	63	.	.	1.4	27	44	.	.	.	.	.	.	.	.	.	1.1	27	94	.	.	.	.	.	21	78
1992	JUN	.	.	1.2	27	11	120	.	.	2.0	27	3.7	220	.	.	.	.	.	.	.	.	1.3	27	.	.	.	.	.	.	12	77
1992	JUL	.	.	15	27	11	120	.	.	1.2	27	15	79	.	.	.	.	.	.	.	.	2.8	27	46	62	.	.	.	.	13	76
1992	AUG	.	.	.	.	27	74	.	.	.	.	17	86	.	.	.	.	.	.	.	.	1.5	27	50	61	.	.	.	.	14	78
1992	SEP	.	.	2.8	27	18	130	.	.	2.7	27	26	85	.	.	.	.	.	.	.	.	2.2	27	82	61	.	.	.	.	19	82
1992	OCT	.	.	.	.	19	110	.	.	0.56	27	16	130	.	.	.	.	.	.	.	.	.	.	89	62	.	.	.	.	16	96
1992	NOV	.	.	3.8	27	9.3	280	.	.	1.8	27	230	59	.	.	.	.	.	.	.	.	4.3	27	150	60	.	.	.	.	20	93
1992	DEC	.	.	4.5	27	21	61	.	.	2.9	27	43	59	.	.	.	.	.	.	.	.	1.6	27	15	64	.	.	.	.	.	.
1993	JAN	.	.	2.1	27	23	150	.	.	4.4	27	51	79	.	.	13	27	23	63	.	.	.	.	180	61	.	.	7.6	27	28	66
1993	FEB	.	.	2.1	27	73	71	.	.	4.4	27	63	72	.	.	0	27	11	74	.	.	0.69	27	120	64	.	.	12	27	23	68
1993	MAR	.	.	0.87	27	23	120	.	.	4.5	27	36	88	.	.	0	27	10	72	.	.	2.3	27	200	60	.	.	4.3	27	28	64
1993	APR	.	.	0.78	27	110	62	.	.	1.8	27	26	110	.	.	6.5	27	7.7	79	.	.	1.9	27	51	71	.	.	9.3	27	20	67
1993	MAY	.	.	2.0	27	74	63	.	.	1.2	27	25	91	.	.	6.5	27	10	67	.	.	0.70	27	95	62	.	.	1.6	27	26	62
1993	JUN	.	.	1.4	27	.	.	.	.	1.6	27	19	74	.	.	9.7	27	5.8	63	.	.	4.6	27	21	69	.	.	2.9	27	15	60
1993	JUL	.	.	4.3	27	20	87	.	.	1.5	27	16	79	.	.	8.6	27	8.6	61	.	.	1.3	27	43	61	.	.	2.4	27	16	60
1993	AUG	.	.	1.9	27	12	110	.	.	0	27	12	92	.	.	7.6	27	6.3	62	.	.	0.38	27	15	71	.	.	3.2	27	8.2	63
1993	SEP	.	.	0.19	27	17	120	.	.	2.3	27	26	85	.	.	5.8	27	15	62	.	.	0.85	27	63	64	.	.	8.2	27	24	61
1993	OCT	.	.	.	.	17	140	.	.	0	27	22	110	.	.	7.0	27	20	62	.	.	0.83	27	35	81	.	.	4.2	27	18	66
1993	NOV	.	.	12	27	10	250	.	.	1.2	27	7.6	280	.	.	0	27	9.7	71	.	.	1.1	27	18	130	.	.	3.2	27	24	63
1993	DEC	.	.	.	.	23	150	.	.	.	.	160	61	.	.	.	.	.	.	.	.	0.96	27	62	80	.	.	.	.	24	63
1994	JAN	.	.	0	27	4.2	250	.	.	.	.	5.9	160	.	.	0	27	6.9	76	.	.	1.8	27	37	67	.	.	6.6	27	27	62
1994	FEB	.	.	0	27	11	97	.	.	1.3	27	21	70	.	.	2.7	27	10	66	.	.	0.66	27	32	66	.	.	4.3	27	21	63
1994	MAR	.	.	0.35	27	6.1	130	.	.	16	27	9.8	86	.	.	4.9	27	14	61	.	.	21	27	86	59	.	.	3.4	27	25	60
1994	APR	.	.	0.36	27	4.1	200	.	.	0.59	27	18	70	.	.	11	27	23	60	.	.	1.3	27	80	59	.	.	6.5	27	56	59
1994	MAY	.	.	0.27	27	5.5	110	.	.	3.0	27	26	62	.	.	3.8	27	14	60	.	.	2.8	27	42	60	.	.	7.4	27	38	59
1994	JUN	.	.	0	27	.	.	.	.	1.4	27	5.1	68	.	.	3.1	27	9.5	59	.	.	3.3	27	11	61	.	.	0	27	19	59
1994	JUL	.	.	1.2	27	11	60	.	.	3.6	27	10	62	.	.	6.4	27	10	59	.	.	3.4	27	31	59	.	.	3.7	27	27	58
1994	AUG	.	.	1.9	27	8.8	63	.	.	4.8	27	17	60	.	.	10	27	14	59	.	.	4.6	27	33	59	.	.	5.6	27	22	59
1994	SEP	.	.	3.5	27	41	59	.	.	1.9	27	11	66	.	.	41	27	7.8	61	.	.	3.0	27	21	62	.	.	5.9	27	25	59
1994	OCT	.	.	0.96	27	220	58	.	.	3.7	27	22	62	.	.	1.8	27	14	60	.	.	1.1	27	26	61	.	.	2.2	27	17	60
1994	NOV	.	.	8.9	27	48	62	.	.	6.2	27	72	59	.	.	22	27	17	61	.	.	2.4	27	67	60	.	.	11	27	43	59
1994	DEC	.	.	0.13	27	10	270	.	.	0.46	27	9.2	230	.	.	2.2	27	9.3	71	.	.	0	27	20	130	.	.	5.1	27	31	62
1995	JAN	.	.	1.2	27	17	180	.	.	.	.	12	210	.	.	0	27	11	280	.	.	5.8	27	35	100	.	.	5.6	27	20	98
1995	FEB	.	.	1.9	27	8.1	390	.	.	.	.	8.2	310	.	.	0	27	20	190	.	.	5.0	27	48	87	.	.	3.6	27	17	120
1995	MAR	.	.	2.3	27	20	130	.	.	3.0	27	11	190	.	.	0	27	12	210	.	.	4.3	27	31	82	.	.	8.6	27	10	130
1995	APR	.	.	1.1	27	21	110	.	.	2.7	27	11	200	.	.	0	27	13	210	.	.	7.0	27	28	99	.	.	3.8	27	13	120
1995	MAY	.	.	0.86	27	30	77	.	.	2.9	27	32	73	.	.	0	27	8.5	210	.	.	5.6	27	33	70	.	.	1.8	27	15	85
1995	JUN	.	.	0.64	27	21	76	.	.	1.5	27	8.6	96	.	.	0	27	7.2	150	.	.	3.0	27	27	62	.	.	0	27	7.5	80
1995	JUL	.	.	1.5	27	20	72	.	.	1.3	27	5.7	120	.	.	.	.	5.6	160	.	.	4.6	27	35	60	.	.	2.3	27	8.7	72
1995	AUG	.	.	1.3	27	18	71	.	.	2.7	27	2.9	170	.	.	.	.	4.6	170	.	.	3.0	27	37	60	.	.	2.3	27	8.9	69
1995	SEP	.	.	.	.	14	99	.	.	0.75	27	22	71	.	.	.	.	9.6	130	.	.	0.44	27	24	66	.	.	0.67	27	9.9	78
1995	OCT	.	.	.	.	24	99	.	.	1.4	27	12	140	.	.	.	.	9.1	260	.	.	1.7	27	46	68	.	.	3.7	27	18	81
1995	NOV	.	.	2.7	27	9.9	250	.	.	2.4	27	4.8	480	.	.	.	.	8.9	340	.	.	3.6	27	19	130	.	.	6.9	27	14	120
1995	DEC	.	.	19	27	16	86	.	.	2.5	27	37	64	.	.	.	.	19	61	.	.	1.8	27	63	61	.	.	3.8	27	39	60
1996	JAN	.	.	5.2	27	9.2	130	.	.	1.7	27	9.4	130	.	.	.	.	10	120	.	.	1.3	27	18	91	.	.	2.2	27	22	98
1996	FEB	.	.	0.31	27	6.4	170	.	.	0.76	27	7.6	150	.	.	.	.	8.6	130	.	.	0	27	9.9	120	.	.	1.6	27	18	100
1996	MAR	.	.	0.23	27	11	100	.	.	0.45	27	11	110	.	.	.	.	10	120	.	.	3.6	27	17	87	.	.	6.1	27	13	130
1996	APR	.	.	0.93	27	12	89	.	.	0	27	7.7	130	.	.	.	.	7.5	130	.	.	2.7	27	17	79	.	.	1.9	27	12	120
1996	MAY	.	.	0.40	27	8.8	85	.	.	0	27	12	80	.	.	.	.	6.0	110	.	.	1.4	27	26	62	.	.	1.2	27	19	73
1996	JUN	.	.	0.61	27	7.2	86	.	.	2.9	27	9.0	73	.	.	.	.	4.0	96	.	.	5.1	27	19	60	.	.	2.4	27	13	72
1996	JUL	.	.	2.3	27	7.3	88	.	.	0.96	27	13	61	.	.	.	.	2.7	110	.	.	0.66	27	7.8	65	.	.	2.8	27	4.5	120
1996	AUG	.	.	4.1	27	11	64	.	.	1.4	27	19	59	.	.	.	.	2.1	110	.	.	0.41	27	14	59	.	.	0.56	27	9.0	66
1996	SEP	.	.	6.0	27	5.5	92	.	.	1.5	27	17	62	.	.	.	.	2.3	120	.	.	2.6	27	17	61	.	.	2.1	27	12	70
1996	OCT	.	.	4.4	27	13	84	.	.	1.4	27	14	73	.	.	.	.	21	65	.	.	1.9	27	18	66	.	.	1.5	27	10	97
1996	NOV	.	.	2.5	27	27	69	.	.	0.80	27	13	86	.	.	.	.	9.0	96	.	.	9.0	27	18	73	.	.	2.0	27	10	120
1996	DEC	.	.	10	27	11	200	.	.	6.0	27	5.7	350	.	.	.	.	7.5	310	.	.	8.3	27	23	130	.	.	18	27	15	100

SUITE PCB (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	3.9	27	5.6	110	.	.	2.4	27	7.6	73	.	.	.	.	9.6	83	.	.	0.90	27	24	63	.	.	.	.	7.5	73
1997	FEB	.	.	0.61	27	8.5	75	.	.	2.4	27	8.2	69	.	.	.	.	5.7	110	.	.	1.4	27	47	59	.	.	.	.	30	59
1997	MAR	.	.	4.0	27	3.3	120	.	.	1.1	27	5.7	81	.	.	.	.	.	.	.	.	1.4	27	41	59	.	.	.	.	11	64
1997	APR	.	.	0.93	27	7.5	73	.	.	0.48	27	12	63	.	.	.	.	5.3	98	.	.	0.61	27	40	59	.	.	.	.	6.0	67
1997	MAY	.	.	1.8	27	8.3	67	.	.	1.5	27	8.9	65	.	.	.	.	6.7	87	.	.	1.7	27	55	59	.	.	.	.	7.3	64
1997	JUN	.	.	2.3	27	18	59	.	.	1.6	27	.	.	.	.	.	.	8.7	62	.	.	7.1	27	36	58	.	.	.	.	6.6	59
1997	JUL	.	.	3.4	27	13	59	.	.	0.60	27	.	.	.	.	.	.	6.1	64	.	.	1.2	27	22	58	.	.	.	.	8.7	59
1997	AUG	.	.	0.57	27	8.2	60	.	.	0.40	27	.	.	.	.	.	.	4.2	71	.	.	0.57	27	32	58	.	.	.	.	6.2	59
1997	SEP	.	.	3.3	27	10	62	.	.	0.97	27	.	.	.	.	.	.	4.7	79	.	.	2.0	27	39	58	.	.	.	.	7.9	60
1997	OCT	.	.	4.4	27	17	61	.	.	0.62	27	39	59	.	.	.	.	7.7	74	.	.	0.83	27	67	58	.	.	.	.	8.0	60
1997	NOV	.	.	3.4	27	4.8	89	.	.	1.0	27	7.7	68	.	.	.	.	4.3	120	.	.	0.83	27	33	59	.	.	.	.	4.2	77
1997	DEC	.	.	2.1	27	12	95	.	.	0.54	27	12	83	.	.	.	.	5.9	160	.	.	2.1	27	33	65	.	.	.	.	15	110
1998	JAN	.	.	9.9	27	4.9	180	.	.	1.8	27	10	84	.	.	.	.	5.0	160	.	.	3.1	27	20	74	.	.	.	.	8.5	84
1998	FEB	.	.	0	27	12	83	.	.	0.51	27	15	67	.	.	.	.	4.0	160	.	.	0.70	27	40	61	.	.	.	.	6.7	86
1998	MAR	.	.	2.8	27	8.4	110	.	.	0.98	27	18	72	.	.	.	.	5.5	150	.	.	2.2	27	20	75	.	.	.	.	6.1	100
1998	APR	.	.	2.7	27	8.5	92	.	.	1.9	27	30	61	.	.	.	.	5.4	120	.	.	2.2	27	46	60	.	.	.	.	7.3	73
1998	MAY	.	.	1.7	27	9.8	77	.	.	1.0	27	34	59	.	.	.	.	6.3	80	.	.	1.2	27	33	59	.	.	.	.	6.2	64
1998	JUN	.	.	5.2	27	6.4	80	.	.	2.5	27	20	59	.	.	.	.	3.6	90	.	.	1.3	27	59	58	.	.	.	.	5.6	65
1998	JUL	.	.	4.5	27	6.6	68	.	.	0.99	27	21	59	.	.	.	.	2.3	100	.	.	2.3	27	41	58	.	.	.	.	3.6	65
1998	AUG	.	.	2.7	27	13	61	.	.	1.2	27	25	59	.	.	.	.	2.1	98	.	.	1.9	27	52	58	.	.	.	.	2.4	64
1998	SEP	.	.	1.9	27	6.5	77	.	.	1.3	27	7.4	63	.	.	.	.	3.2	96	.	.	0.92	27	27	59	.	.	.	.	7.6	61
1998	OCT	.	.	2.9	27	8.3	96	.	.	2.6	27	6.3	87	.	.	.	.	3.6	140	.	.	1.6	27	27	60	.	.	.	.	7.7	68
1998	NOV	.	.	2.1	27	6.4	130	.	.	3.5	27	10	82	.	.	.	.	5.5	130	.	.	0	27	34	61	.	.	.	.	10	71
1998	DEC	.	.	6.3	27	6.5	89	.	.	0.59	27	14	63	.	.	.	.	5.3	110	.	.	0.53	27	30	60	.	.	.	.	8.1	67
1999	JAN	.	.	2.9	27	10	88	.	.	2.0	27	9.2	79	.	.	.	.	12	79	.	.	0	27	39	62	.	.	.	.	14	68
1999	FEB	.	.	5.4	27	16	73	.	.	1.8	27	19	64	.	.	.	.	14	74	.	.	1.5	27	32	62	.	.	.	.	9.3	71
1999	MAR	.	.	1.0	27	11	79	.	.	0.78	27	15	69	.	.	.	.	7.9	97	.	.	3.2	27	63	59	.	.	.	.	9.0	74
1999	APR	.	.	0	27	7.2	87	.	.	3.6	27	24	61	.	.	.	.	11	76	.	.	1.9	27	38	60	.	.	.	.	6.5	74
1999	MAY	.	.	1.5	27	29	61	.	.	1.7	27	44	59	.	.	.	.	8.7	70	.	.	3.7	27	46	59	.	.	.	.	8.9	61
1999	JUN	.	.	3.1	27	14	62	.	.	2.0	27	27	58	.	.	.	.	4.7	65	.	.	1.3	27	45	58	.	.	.	.	6.6	59
1999	JUL	.	.	8.5	27	9.5	62	.	.	5.3	27	25	59	.	.	.	.	4.2	69	.	.	1.8	27	25	59	.	.	.	.	5.2	60
1999	AUG	.	.	2.0	27	8.7	62	.	.	5.0	27	18	59	.	.	.	.	5.2	66	.	.	0.97	27	53	58	.	.	.	.	3.6	62
1999	SEP	.	.	3.0	27	20	60	.	.	1.4	27	26	59	.	.	.	.	7.0	66	.	.	0.94	27	30	59	.	.	.	.	4.4	63
1999	OCT	.	.	12	27	41	60	.	.	6.4	27	29	60	.	.	.	.	9.6	74	.	.	1.5	27	29	60	.	.	.	.	8.3	64
1999	NOV	.	.	0.69	27	16	71	.	.	0.88	27	12	70	.	.	.	.	7.4	100	.	.	1.2	27	30	61	.	.	.	.	11	68
1999	DEC	.	.	1.8	27	13	91	.	.	3.0	27	7.9	110	.	.	.	.	6.5	150	.	.	2.6	27	40	64	.	.	.	.	14	72
2000	JAN	.	.	0	27	15	79	.	.	0	27	14	79	.	.	.	.	6.2	140	.	.	3.6	27	24	72	.	.	.	.	.	.
2000	FEB	.	.	1.5	27	15	79	.	.	2.3	27	14	76	.	.	.	.	8.8	110	.	.	1.3	27	24	70	.	.	.	.	.	.
2000	MAR	.	.	4.1	27	12	81	.	.	2.3	27	14	71	.	.	.	.	7.0	97	.	.	1.4	27	27	64	.	.	.	.	.	.
2000	APR	.	.	3.1	27	29	61	.	.	3.7	27	18	66	.	.	.	.	8.3	82	.	.	5.8	27	31	60	.	.	.	.	6.5	83
2000	MAY	.	.	3.0	27	16	64	.	.	2.2	27	18	62	.	.	.	.	7.0	74	.	.	2.1	27	46	59	.	.	.	.	10	64
2000	JUN	.	.	5.6	27	41	59	.	.	5.0	27	11	64	.	.	.	.	2.7	110	.	.	2.9	27	28	59	.	.	.	.	5.5	67
2000	JUL	.	.	0	27	30	59	.	.	2.1	27	11	61	.	.	.	.	2.5	81	.	.	1.1	27	22	59	.	.	.	.	3.5	67
2000	AUG	.	.	1.8	27	19	59	.	.	0.76	27	9.0	61	.	.	.	.	3.4	73	.	.	2.8	27	14	59	.	.	.	.	5.5	62
2000	SEP	.	.	2.5	27	16	63	.	.	4.5	27	16	61	.	.	.	.	13	62	.	.	0.82	27	36	59	.	.	.	.	5.9	66
2000	OCT	.	.	0.80	27	8.2	79	.	.	0.52	27	12	66	.	.	.	.	4.6	84	.	.	1.9	27	24	60	.	.	.	.	3.9	81
2000	NOV	.	.	3.2	27	5.4	120	.	.	1.9	27	9.0	82	.	.	.	.	5.9	88	.	.	1.6	27	26	62	.	.	.	.	8.0	72
2000	DEC	.	.	2.2	27	19	67	.	.	1.8	27	28	62	.	.	.	.	6.7	100	.	.	1.2	27	36	61	.	.	.	.	9.0	76

BENZO (A) PYRENE (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	8.3	27	0	.	.	.	2.2	27	3.8	230	7.3	100	.	.	.	.	.	.	19	27	0	.	53	100	0	27	.	.
1992	FEB	3.2	150	.	.	0	.	4.3	130	.	.	0	.	7.0	100	.	.	.	.	22	100	.	.	0	.	18	100	0	27	.	.
1992	MAR	.	.	2.6	27	0	.	.	.	2.3	27	1.6	460	8.8	100	.	.	.	.	.	.	13	27	0.97	950	4.4	100	0	27	.	.
1992	APR	.	.	3.4	27	0	.	.	.	8.1	27	0.99	770	5.2	100	.	.	.	.	7.6	110	21	27	0.90	790	5.7	100	0	27	.	.
1992	MAY	.	.	15	27	0	.	.	.	10	27	0	.	7.3	100	0	27	.	.	5.8	120	7.4	27	6.9	.	3.9	100	0	27	.	.
1992	JUN	0	.	5.6	27	0	.	.	.	13	27	0	.	3.3	100	0	27	.	.	4.3	130	17	27	0	.	4.2	100	0	27	.	.
1992	JUL	0	.	0	27	0	.	3.2	150	8.2	27	0	.	1.6	100	0	27	.	.	2.4	180	16	27	4.3	140	3.5	100	0	27	.	.
1992	AUG	.	.	.	.	0	.	.	.	.	.	0	.	4.8	100	0	27	.	.	.	.	11	27	0	.	3.5	100	0	27	.	.
1992	SEP	1.8	220	9.4	27	0	.	5.1	120	10	27	0	.	3.5	100	0	27	.	.	4.5	130	19	27	0	.	2.3	100	0	27	.	.
1992	OCT	1.8	230	.	.	0	.	2.8	160	2.5	27	5.7	130	0.90	120	0	27	.	.	.	.	.	27	6.8	120	4.2	100	0	27	.	.
1992	NOV	0.65	570	17	27	0	.	4.6	130	25	27	0	.	1.9	100	0	27	.	.	5.3	120	71	27	0	.	4.4	100	0	27	.	.
1992	DEC	.	.	16	27	0	.	7.4	100	8.8	27	6.6	120	1.9	100	0	27	.	.	.	.	17	27	12	87	21	100	0	27	.	.
1993	JAN	.	.	20	27	0	.	.	.	10	27	0	.	6.0	100	26	27	.	.	16	100	.	27	0	.	5.4	110	22	27	.	.
1993	FEB	.	.	0	27	0	.	3.0	130	0	27	0	.	3.3	100	0	27	.	.	5.2	110	11	27	0	.	51	100	0	27	.	.
1993	MAR	.	.	0	27	0	.	5.4	110	0	27	0	.	3.3	100	0	27	.	.	8.7	100	0	27	0	.	29	100	0	27	.	.
1993	APR	.	.	0.96	27	0	.	.	.	22	27	0	.	15	100	0	27	.	.	.	.	19	27	0	.	0	.	0	27	.	.
1993	MAY	.	.	2.5	27	0	.	0	.	4.3	27	0	.	8.0	100	0	27	.	.	0.89	270	3.9	27	0	.	2.4	130	0	27	.	.
1993	JUN	.	.	2.5	27	0	.	0.83	290	6.3	27	0	.	3.3	100	0.22	27	.	.	1.2	220	11	27	0	.	1.2	180	0.66	27	.	.
1993	JUL	0	.	0	27	0	.	0	.	0	27	.	.	8.3	100	9.0	27	.	.	5.9	110	4.8	27	0	.	3.9	110	1.7	27	.	.
1993	AUG	.	.	0	27	0	.	1.1	230	0	27	0	.	0.46	110	0	27	.	.	2.3	140	4.4	27	0	.	1.3	180	0	27	.	.
1993	SEP	0	.	0	27	0	.	.	.	14	27	0	.	0.65	110	0	27	.	.	3.5	120	12	27	0	.	2.7	120	0	27	.	.
1993	OCT	.	.	.	.	.	.	.	.	0	27	0	.	3.3	100	7.5	27	.	.	9.9	100	17	27	0	.	3.3	110	0	27	.	.
1993	NOV	0	.	0	27	0	.	0	.	2.7	27	0	.	4.1	100	13	27	.	.	4.7	110	17	27	0	.	4.8	110	0	27	.	.
1993	DEC	.	.	.	.	0	.	.	.	.	.	0	.	3.0	100	0	27	.	.	.	.	11	27	2.9	280	34	100	0	27	.	.
1994	JAN	.	.	0	27	0	.	.	.	.	.	0	.	3.7	100	0	27	.	.	8.9	100	18	27	0	.	18	100	0	27	.	.
1994	FEB	1.9	150	0	27	0	.	4.2	110	3.0	27	0	.	1.9	100	0	27	.	.	13	100	19	27	0	.	7.2	100	0	27	.	.
1994	MAR	2.2	140	0	27	.	.	4.3	110	0	27	.	.	1.4	100	0	27	.	.	19	100	5.2	27	.	.	8.4	100	0	27	.	.
1994	APR	0.63	370	2.8	27	0	.	1.9	160	3.3	27	0	.	1.0	100	0	27	.	.	4.8	110	27	27	0	.	7.2	100	0	27	.	.
1994	MAY	2.1	150	0	27	0	.	3.1	120	0	27	0	.	0.68	100	0	27	.	.	5.8	110	0	27	0	.	9.0	100	0	27	.	.
1994	JUN	0.72	330	0	27	.	.	1.4	190	0	27	0	.	3.2	100	0	27	.	.	2.7	130	0	27	0	.	2.9	100	0	27	.	.
1994	JUL	0.88	270	0	27	0	.	3.8	120	0	27	0	.	1.5	100	0	27	.	.	3.8	120	0	27	0	.	4.9	100	3.1	27	.	.
1994	AUG	0.37	630	2.3	27	0	.	1.7	170	1.1	27	0	.	2.5	100	0	27	.	.	9.6	100	7.6	27	0	.	3.0	100	0	27	.	.
1994	SEP	0.66	350	0	27	0	.	0.27	830	0	27	0	.	6.4	100	0	27	.	.	.	.	8.5	27	0	.	3.6	100	0	27	.	.
1994	OCT	1.2	220	0	27	0	.	2.8	130	4.8	27	0	.	0.74	100	0	27	.	.	14	100	2.7	27	0	.	3.0	100	0	27	.	.
1994	NOV	1.2	220	5.1	27	0	.	4.1	110	16	27	0	.	2.7	100	0	27	.	.	17	100	12	27	0	.	4.0	100	0	27	.	.
1994	DEC	.	.	2.4	27	0	.	.	.	4.9	27	0	.	5.1	100	0	27	.	.	11	100	0	27	0	.	12	100	0	27	.	.
1995	JAN	0.44	380	2.7	27	9.4	190	1.8	140	.	.	0	.	0.63	100	0	27	.	.	8.8	100	37	27	2.5	670	3.5	100	0	27	.	.
1995	FEB	0	.	0.61	27	0	.	2.0	130	.	.	0	.	4.0	100	0	27	.	.	27	100	23	27	0	.	10	100	0	27	.	.
1995	MAR	0	.	2.3	27	0	.	1.7	140	7.2	27	0	.	4.7	100	0	27	.	.	12	100	16	27	6.6	190	8.2	100	0	27	.	.
1995	APR	0.46	360	1.3	27	0	.	0.91	200	6.9	27	0	.	0.64	100	0	27	.	.	11	100	14	27	0	.	1.9	100	0	27	.	.
1995	MAY	0	.	1.8	27	0	.	4.5	110	7.8	27	0	.	1.4	100	0	27	.	.	6.7	100	11	27	3.3	370	1.9	100	0	27	.	.
1995	JUN	0.60	290	0.51	27	0	.	1.3	160	1.3	27	0	.	2.0	100	0	27	.	.	18	100	2.2	27	0	.	1.4	100	0	27	.	.
1995	JUL	1.0	190	0	27	0	.	.	.	2.1	27	0	.	1.8	100	0	27	.	.	4.3	110	9.5	27	0	.	5.2	100	0	27	.	.
1995	AUG	0.82	220	1.5	27	0	.	.	.	1.5	27	0	.	1.3	100	0	27	.	.	5.4	100	13	27	0	.	1.6	100	0	27	.	.
1995	SEP	0.59	290	.	.	10	130	1.5	150	6.9	27	0	.	2.4	100	0	27	.	.	11	100	2.5	27	0	.	3.9	100	0	27	.	.
1995	OCT	0.20	810	.	.	0	.	1.6	140	7.3	27	0.43	3500	1.7	100	0	27	.	.	12	100	20	27	0	.	4.2	100	0	27	.	.
1995	NOV	0.57	300	13	27	0	.	.	.	8.8	27	0	.	1.5	100	17	27	.	.	11	100	38	27	0	.	1.2	100	19	27	.	.
1995	DEC	.	.	.	.	0	.	.	.	4.7	27	0	.	3.6	100	0	27	.	.	.	.	12	27	20	71	27	100	0	27	.	.
1996	JAN	0.48	230	0	27	0	.	5.2	100	6.5	27	3.7	100	4.4	100	0	27	.	.	12	100	11	27	0	.	19	100	2	27	.	.
1996	FEB	0.98	140	0.38	27	0	.	1.3	130	3.7	27	.	.	6.7	100	0	27	.	.	15	100	0	27	0	.	14	100	4	27	.	.
1996	MAR	2.4	110	0.24	27	0	.	4.5	100	2.1	27	3.1	120	4.1	100	0	27	.	.	63	100	0.74	27	0	.	5.7	100	25	27	.	.
1996	APR	0.64	190	1.4	27	0	.	1.2	130	0	27	0	.	2.2	100	0	27	.	.	11	100	19	27	0	.	2.8	100	0	27	.	.
1996	MAY	0.69	180	1.4	27	0	.	1.7	120	0	27	0	.	4.2	100	0	27	.	.	2.6	110	6.0	27	0	.	1.9	100	1.7	27	.	.
1996	JUN	0.50	220	0.56	27	0	.	0.72	170	5.4	27	0	.	3.3	100	0	27	.	.	5.3	100	5.1	27	0	.	2.2	100	0	27	.	.
1996	JUL	0.81	160	2.1	27	0.25	850	0.68	180	2.9	27	0.44	460	4.7	100	2	27	.	.	9.6	100	2.7	27	0.29	780	1.2	100	1.3	27	.	.
1996	AUG	0.39	280	1.5	27	0	.	0.56	200	0	27	0	.	3.8	100	0	27	.	.	3.9	100	0.61	27	0	.	7.0	100	0	27	.	.
1996	SEP	1.3	130	1.3	27	0	.	1.1	130	0	27	0	.	0.59	100	0	27	.	.	4.2	100	0.63	27	0	.	3.0	100	1.4	27	.	.
1996	OCT	2.5	110	2.2	27	0	.	2.8	110	0.23	27	0.52	570	4.3	100	0	27	.	.	6.0	100	0.36	27	0	.	32	100	6.5	27	.	.
1996	NOV	2.1	110	4.2	27	0	.	1.7	120	1.1	27	0	.	11	100	0	27	.	.	7.2	100	11	27	0.71	470	11	100	12	27	.	.
1996	DEC	.	.	0	27	0	.	1.6	140	20	27	1.4	980	.	.	17	27	.	.	15	100	43	27	0	.	13	100	31	27	.	.

BENZO (A) PYRENE (ng/m ^{2}/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	1.4	160	8.7	27	0	.	2.0	130	8.6	27	1.5	640	4.8	100	0	27	0	.	5.5	100	7.7	27	0.31	4600	3.9	100	13	27	0	.
1997	FEB	0.81	230	0.64	27	0	.	0.97	200	9.1	27	2.3	380	2.0	100	2.5	27	0	.	17	100	13	27	0	.	7.7	100	0	27	0	.
1997	MAR	0.33	530	3.0	27	0	.	1.3	170	6.6	27	0	.	4.8	100	6.8	27	0	.	7.2	100	33	27	1.1	1100	8.2	100	18	27	0	.
1997	APR	1.1	190	0.60	27	0	.	2.0	130	2.6	27	2.6	330	8.2	100	0	27	0	.	11	100	13	27	0	.	4.5	100	2.3	27	0	.
1997	MAY	1.7	140	2.6	27	0	.	2.6	120	6.7	27	0	.	1.7	100	0	27	0	.	14	100	20	27	0	.	3.1	100	0	27	0	.
1997	JUN	1.7	140	1.2	27	0	.	0.51	350	9.2	27	0	.	11	100	0	27	0	.	6.1	100	10	27	0	.	6.4	100	0	27	0	.
1997	JUL	0.55	330	1.5	27	0	.	0.35	500	1.9	27	0	.	1.2	100	37	27	0	.	2.8	120	5.8	27	0	.	8.9	100	0	27	0	.
1997	AUG	2.7	120	0.31	27	0	.	1.9	140	5.5	27	0	.	1.6	100	18	27	0	.	5.3	110	18	27	0	.	14	100	1.6	27	0	.
1997	SEP	0.68	270	2.2	27	0	.	2.8	120	3.8	27	1.6	560	1.7	100	9.5	27	0	.	14	100	13	27	0	.	4.5	100	0	27	0	.
1997	OCT	1.5	150	4.6	27	0.64	1600	4.5	110	7.0	27	0.53	1900	4.0	100	0	27	0	.	23	100	9.3	27	0	.	5.2	100	7.9	27	0	.
1997	NOV	1.6	150	1.7	27	0	.	7.2	100	2.9	27	0	.	3.2	100	2.7	27	.	.	15	100	14	27	0	.	6.3	100	35	27	0	.
1997	DEC	0.75	170	1.5	27	0	.	1.2	130	3.0	27	0	.	3.1	100	5.9	27	.	.	13	100	5.2	27	1.8	190	32	100	9.1	27	.	.
1998	JAN	0.95	200	3.3	27	0	.	1.7	140	17	27	0.40	640	9.9	100	1.7	27	0	.	13	100	29	27	0	.	7.4	100	190	27	1.1	87
1998	FEB	3.8	110	0	27	0	.	5.3	100	1.9	27	3.2	89	5.5	100	4.3	27	0	.	31	100	5.5	27	0.75	380	20	100	6.6	27	0.77	100
1998	MAR	1.3	160	1.2	27	0.26	1100	2.3	120	4.5	27	0.60	480	3.8	100	7.0	27	0	.	11	100	20	27	0	.	6.1	100	10	27	0	.
1998	APR	0.51	340	0.080	27	0	.	3.4	110	3.7	27	0	.	2.3	100	5.7	27	0	.	7.8	100	12	27	0	.	8.8	100	3.0	27	0	.
1998	MAY	0	.	1.1	27	0	.	0.34	490	2.1	27	0	.	1.1	100	0	27	0	.	15	100	4.3	27	0	.	5.2	100	1.0	27	0	.
1998	JUN	0.38	450	1.3	27	0	.	0	.	3.2	27	0	.	2.6	100	0	27	0	.	3.5	110	4.5	27	0	.	3.4	100	0	27	0	.
1998	JUL	0	.	0	27	0	.	0	.	0	27	0	.	0	.	0	27	0	.	5.2	100	0	27	0	.	2.3	100	0.52	27	0	.
1998	AUG	3.6	110	0	27	0	.	1.5	150	0	27	0	.	0.24	130	0	27	0	.	4.7	110	0	27	0	.	3.1	100	5.7	27	0	.
1998	SEP	0	.	1.4	27	0	.	0.83	220	2.4	27	.	.	1.3	100	0	27	0	.	5.3	100	1.8	27	0	.	4.9	100	3.6	27	0	.
1998	OCT	0.47	370	14	27	0	.	10	100	6.5	27	0	.	0.92	100	0	27	0	.	12	100	12	27	1.2	250	24	100	0	27	0.47	160
1998	NOV	0	.	2.1	27	0	.	2.2	120	3.2	27	0	.	2.7	100	0	27	0	.	8.4	100	0	27	0	.	6.1	100	2.5	27	0	.
1998	DEC	0.36	480	6.7	27	0	.	2.9	120	2.6	27	0	.	2.6	100	0	27	.	.	11	100	4.3	27	0	.	16	100	3.9	27	0	.
1999	JAN	1.5	210	3.5	27	0	.	1.6	200	9.8	27	0	.	1.8	100	0	27	0	.	14	100	0	27	8.1	82	17	100	0	27	0	.
1999	FEB	1.8	180	4.8	27	0	.	4.1	120	6.0	27	0	.	4.8	100	4.5	27	0	.	21	100	8.0	27	5.2	93	39	100	1.9	27	0	.
1999	MAR	1.8	180	0.99	27	0	.	7.9	110	0.97	27	0	.	4.6	100	4.3	27	0	.	34	100	24	27	6.9	82	9.4	100	5.6	27	0	.
1999	APR	2.4	150	0	27	0	.	3.7	120	8.1	27	0	.	2.4	100	2.2	27	0	.	7.6	110	11	27	4.9	95	4.0	100	3.7	27	0	.
1999	MAY	2.2	160	2.8	27	0	.	2.3	150	3.5	27	0	.	1.1	100	2.0	27	0	.	28	100	6.1	27	0	.	2.8	100	3.6	27	0	.
1999	JUN	0	.	0.46	27	0	.	3.1	130	1.4	27	0	.	1.9	100	0	27	0	.	5.7	110	2.9	27	3.6	95	2.5	100	1.5	27	0	.
1999	JUL	0	.	0	27	0	.	0	.	4.5	27	0	.	5.8	100	0	27	0	.	3.4	130	9.6	27	0	.	6.0	100	0	27	0	.
1999	AUG	0	.	0	27	0	.	0.63	450	2.9	27	0	.	0.64	100	0	27	0	.	6.0	110	3.4	27	8.0	69	2.0	100	0	27	0	.
1999	SEP	0.95	300	3.8	27	0	.	1.7	190	3.4	27	0	.	1.8	100	0	27	0	.	4.5	120	5.3	27	0	.	1.8	100	1.7	27	0	.
1999	OCT	1.3	240	0	27	0	.	3.8	120	0.46	27	0	.	1.5	100	0	27	0	.	13	100	4.9	27	0	.	3.7	100	5.4	27	0	.
1999	NOV	1.3	230	0.71	27	0	.	1.1	260	2.4	27	0	.	0.51	100	5.2	27	0	.	3.3	130	4.8	27	0	.	1.4	100	4.4	27	0	.
1999	DEC	0.87	220	5.4	27	0	.	1.7	140	15	27	0	.	3.4	100	5.7	27	0	.	10	100	20	27	3.5	130	7.8	100	4.5	27	0	.
2000	JAN	0	.	0	27	0	.	1.2	130	0	27	0	.	2.2	100	5.7	27	0	.	4.4	100	8.2	27	0	.	7.4	100	0	27	0	.
2000	FEB	2.1	110	1.1	27	0	.	7.7	100	4.9	27	0	.	3.9	100	2.5	27	0	.	5.9	100	13	27	0	.	11	100	9.9	27	0	.
2000	MAR	0.45	250	1.3	27	0	.	4.4	100	6.8	27	0	.	2.6	100	1.9	27	0	.	6.6	100	13	27	0	.	4.0	100	13	27	0	.
2000	APR	0.78	170	1.8	27	0	.	3.2	100	2.7	27	0	.	1.9	100	14	27	0	.	8.1	100	31	27	0	.	3.8	100	3.9	27	0	.
2000	MAY	0.79	160	0.83	27	0	.	1.8	120	3.1	27	0	.	1.6	100	7.6	27	0	.	7.0	100	9.6	27	0	.	3.3	100	3.3	27	0	.
2000	JUN	0	.	0	27	0	.	0.87	160	0	27	0	.	5.9	100	0	27	0	.	5.8	100	3.4	27	6.5	62	1.6	100	0	27	0	.
2000	JUL	0	.	0	27	0	.	0.57	210	6.0	27	0	.	1.4	100	0	27	0	.	4.3	100	2.8	27	3.6	66	1.2	100	0	27	0	.
2000	AUG	0.65	190	0	27	0	.	1.2	130	1.9	27	0.14	820	2.9	100	0	27	0	.	3.1	110	12	27	0	.	1.0	100	0	27	0	.
2000	SEP	0	.	0	27	0	.	4.4	100	5.9	27	0	.	2.8	100	0	27	0	.	3.2	100	4.9	27	0	.	1.1	100	0	27	0	.
2000	OCT	0	.	2.6	27	0	.	1.4	120	2.0	27	0	.	1.0	100	0	27	0	.	12	100	3.8	27	2.4	82	2.6	100	0	27	0	.
2000	NOV	0.53	220	8.5	27	0	.	1.3	130	10	27	0	.	2.4	100	10	27	0	.	8.2	100	15	27	0	.	9.3	100	29	27	0	.
2000	DEC	2.6	140	3.0	27	0	.	14	100	6.1	27	0	.	8.6	100	8.0	27	0	.	14	100	4.4	27	4.3	120	11	100	16	27	0	.

BENZO (b) FLUORANTHENE (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	12	27	0	.	.	.	6.9	27	4.4	220	21	100	.	.	.	.	.	.	45	27	0	.	230	100	0	27	.	.
1992	FEB	9.6	120	.	.	0	.	17	110	.	.	0	.	11	100	.	.	.	.	150	100	.	.	3.8	260	57	100	0	27	.	.
1992	MAR	.	.	4.3	27	3.7	240	.	.	3.9	27	3.3	250	12	100	.	.	.	.	.	.	24	27	5.1	210	12	100	0	27	.	.
1992	APR	.	.	3.1	27	3.2	260	.	.	8.2	27	0	.	9.6	100	.	.	.	.	34	100	36	27	3.7	220	21	100	0	27	.	.
1992	MAY	.	.	15	27	0	.	.	.	13	27	5.2	.	9.7	100	0	27	.	.	26	100	10	27	7.9	.	13	100	0	27	.	.
1992	JUN	2.6	280	4.8	27	7.8	65	.	.	14	27	8.0	65	4.8	100	0	27	.	.	17	110	23	27	9.4	64	8.6	100	0	27	.	.
1992	JUL	6.4	140	0	27	0	.	4.9	170	9.4	27	4.7	77	3.4	100	0	27	.	.	8.2	130	29	27	21	60	12	100	0	27	.	.
1992	AUG	.	.	.	.	5	76	.	.	.	.	4.4	86	7.4	100	0	27	.	.	.	.	16	27	6.4	74	5.6	100	0	27	.	.
1992	SEP	5.4	160	9.0	27	0	.	14	110	12	27	0	.	6.0	100	0	27	.	.	35	100	29	27	12	65	5.7	100	0	27	.	.
1992	OCT	3.5	220	.	.	0	.	6.8	140	6.7	27	4.6	94	1.4	110	0	27	.	.	.	.	.	.	5.6	87	8.8	100	13	27	.	.
1992	NOV	4.0	190	72	27	6.8	79	15	110	67	27	0	.	3.9	100	0	27	.	.	33	100	160	27	8.8	74	15	100	0	27	.	.
1992	DEC	.	.	20	27	0	.	31	100	15	27	6.2	170	3.9	100	0	27	.	.	.	.	34	27	21	81	55	100	0	27	.	.
1993	JAN	.	.	22	27	0	.	.	.	0	27	0	.	11	100	46	27	.	.	57	100	.	.	0	.	15	100	210	27	.	.
1993	FEB	.	.	0	27	0	.	11	100	0	27	0	.	9.2	100	0	27	.	.	34	100	20	27	0	.	200	100	0	27	.	.
1993	MAR	.	.	3.0	27	0	.	20	100	1.4	27	0	.	9.8	100	0	27	.	.	42	100	0	27	12	65	170	100	0	27	.	.
1993	APR	.	.	2.2	27	0	.	.	.	40	27	0	.	23	100	0	27	.	.	.	.	34	27	0	.	0	.	38	27	.	.
1993	MAY	.	.	4.6	27	0	.	1.5	150	8.6	27	0	.	8.9	100	0	27	.	.	2.2	130	7.4	27	0	.	4.1	100	0	27	.	.
1993	JUN	.	.	5.8	27	0	.	1.9	140	12	27	0	.	4.8	100	0.66	27	.	.	3.7	110	25	27	0	.	3.3	110	1.7	27	.	.
1993	JUL	0	.	0	27	0	.	0	.	5.2	27	.	.	12	100	18	27	.	.	19	100	9.1	27	0	.	6.0	100	1.7	27	.	.
1993	AUG	.	.	0	27	0	.	2.3	130	0	27	0	.	1.1	110	0	27	.	.	10	100	11	27	0	.	2.7	110	0	27	.	.
1993	SEP	1.6	150	0	27	0	.	.	.	28	27	0	.	1.5	110	0	27	.	.	21	100	25	27	0	.	5.5	100	56	27	.	.
1993	OCT	.	.	.	.	.	.	.	.	0	27	0	.	5.6	100	0	27	.	.	45	100	31	27	9.2	71	4.7	100	33	27	.	.
1993	NOV	1.7	140	0	27	0	.	4.0	110	8.9	27	0	.	7.1	100	16	27	.	.	44	100	37	27	0	.	13	100	0	27	.	.
1993	DEC	.	.	.	.	0	.	.	.	.	.	0	.	11	100	0	27	.	.	.	.	24	27	15	64	120	100	0	27	.	.
1994	JAN	.	.	0	27	0	.	.	.	.	.	0	.	7.9	100	0	27	.	.	38	100	36	27	0	.	40	100	0	27	.	.
1994	FEB	8.5	110	0	27	0	.	15	100	8.5	27	0	.	9.2	100	0	27	.	.	46	100	41	27	0	.	25	100	0	27	.	.
1994	MAR	10	110	0	27	.	.	14	100	4.9	27	.	.	3.3	100	0	27	.	.	66	100	14	27	.	.	34	100	20	27	.	.
1994	APR	1.4	260	6.1	27	0	.	5.4	120	6.7	27	0	.	3.1	100	0	27	.	.	17	100	51	27	0	.	17	100	0	27	.	.
1994	MAY	5.2	120	0	27	0	.	7.7	110	0	27	4.4	84	1.4	100	0	27	.	.	22	100	0	27	0	.	20	100	0	27	.	.
1994	JUN	1.5	250	0	27	.	.	3.3	150	0	27	0	.	5.0	100	0	27	.	.	5.4	120	0	27	0	.	4.5	100	0	27	.	.
1994	JUL	2.4	180	0	27	0	.	8.5	110	0	27	0	.	2.6	100	0	27	.	.	10	110	0	27	0	.	7.4	100	8.4	27	.	.
1994	AUG	1.6	230	3.3	27	0	.	6.5	110	2.8	27	0	.	5.8	100	0	27	.	.	30	100	17	27	0	.	6.3	100	0	27	.	.
1994	SEP	2.7	160	0	27	0	.	1.3	290	0	27	0	.	10	100	0	27	.	.	.	.	14	27	0	.	14	100	0	27	.	.
1994	OCT	3.2	150	0	27	0	.	8.1	110	17	27	0	.	2.0	100	0	27	.	.	44	100	10	27	0	.	5.7	100	3.2	27	.	.
1994	NOV	6.8	110	16	27	0	.	13	100	31	27	0	.	4.3	100	19	27	.	.	53	100	22	27	27	61	8.0	100	16	27	.	.
1994	DEC	.	.	6.7	27	0	.	.	.	12	27	0	.	13	100	0	27	.	.	61	100	0	27	0	.	29	100	0	27	.	.
1995	JAN	10	110	8.8	27	1.5	340	12	100	.	.	0	.	2.7	100	0	27	.	.	57	100	94	27	14	68	7.8	100	5.7	27	.	.
1995	FEB	2.7	160	3.4	27	0	.	13	100	.	.	1.5	300	8.2	100	0	27	.	.	140	100	59	27	0	.	50	100	0	27	.	.
1995	MAR	0	.	4.5	27	0.64	640	4.7	120	21	27	0.53	690	7.6	100	0	27	.	.	44	100	38	27	21	61	15	100	9.5	27	.	.
1995	APR	1.3	280	2.6	27	0	.	3.0	150	17	27	0	.	1.7	100	2.1	27	.	.	31	100	35	27	0	.	4.0	100	0	27	.	.
1995	MAY	0	.	5.4	27	0	.	7.5	110	17	27	0.65	510	1.0	100	3.6	27	.	.	18	100	29	27	5.3	88	6.5	100	0	27	.	.
1995	JUN	1.4	270	1.7	27	0	.	6.4	110	3.6	27	0	.	2.8	100	0	27	.	.	88	100	7.2	27	1.7	180	5.2	100	0	27	.	.
1995	JUL	4.4	130	3.0	27	0	.	.	.	5.2	27	0	.	2.9	100	0	27	.	.	12	100	18	27	0	.	6.4	100	0	27	.	.
1995	AUG	3.2	150	3.7	27	0	.	.	.	3.5	27	0	.	3.1	100	0	27	.	.	23	100	31	27	0	.	2.8	100	0	27	.	.
1995	SEP	17	100	.	.	36	59	5.3	120	5.4	27	0	.	4.5	100	0	27	.	.	31	100	5.3	27	0	.	5.1	100	1.1	27	.	.
1995	OCT	0.89	390	.	.	0	.	6.7	110	20	27	0.79	560	2.9	100	4.2	27	.	.	46	100	47	27	0	.	8.7	100	0	27	.	.
1995	NOV	3.5	140	41	27	0	.	.	.	24	27	0	.	2.1	100	3.9	27	.	.	42	100	81	27	0	.	2.6	100	63	27	.	.
1995	DEC	.	.	.	.	0	.	.	.	12	27	0	.	8.4	100	0	27	.	.	.	.	21	27	81	59	78	100	0	27	.	.
1996	JAN	3.0	110	25	27	0	.	24	100	14	27	12	70	9.0	100	4.0	27	.	.	47	100	31	27	0	.	48	100	5.1	27	.	.
1996	FEB	6.1	100	1.6	27	0	.	6.1	100	11	27	.	.	11	100	29	27	.	.	38	100	0	27	0.51	890	51	100	8.8	27	.	.
1996	MAR	5.7	100	0.45	27	0	.	12	100	3.6	27	0	.	7.4	100	9.7	27	.	.	110	100	1.0	27	0	.	13	100	77	27	.	.
1996	APR	1.6	150	2.2	27	0	.	3.4	110	0	27	0	.	5.2	100	0	27	.	.	27	100	31	27	0	.	6.2	100	0	27	.	.
1996	MAY	1.1	180	3.1	27	0	.	2.7	120	0	27	0	.	6.3	100	0	27	.	.	6.8	100	12	27	0	.	4.3	100	0	27	.	.
1996	JUN	1.4	150	1.2	27	0	.	1.8	140	14	27	0.68	430	5.2	100	0	27	.	.	17	100	11	27	0.65	460	4.0	100	0	27	.	.
1996	JUL	1.6	150	3.7	27	0.24	1300	1.3	170	5.2	27	0.50	580	6.6	100	0	27	.	.	16	100	4.2	27	1.2	270	1.8	100	0	27	.	.
1996	AUG	0.94	200	4.0	27	0.24	1200	1.6	140	0	27	0.69	420	5.6	100	0	27	.	.	6.9	100	1.6	27	0.26	1100	19	100	0	27	.	.
1996	SEP	2.5	120	3.9	27	0	.	2.2	120	0.21	27	0	.	1.1	100	0	27	.	.	7.9	100	1.3	27	0	.	13	100	0	27	.	.
1996	OCT	5.4	100	3.3	27	0.43	1000	5.4	100	0.36	27	1.1	390	7.9	100	0	27	.	.	19	100	0.53	27	0	.	140	100	0	27	.	.
1996	NOV	6.9	100	9.8	27	0.48	980	5.2	100	4.0	27	0.84	520	22	100	0	27	.	.	22	100	44	27	0.91	510	22	100	7.4	27	.	.
1996	DEC	.	.	0	27	0	.	18	100	38	27	4.5	100	.	.	88	27	.	.	81	100	99	27	0	.	32	100	89	27	.	.

BENZO (b) FLUORANTHENE (ng/m ^{2}/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	7.5	110	21	27	0.28	11000	8.9	110	21	27	3.8	600	12	100	0	27	0	.	22	100	15	27	0.48	7300	11	100	15	27	0	.
1997	FEB	3.2	150	1.6	27	0.43	5800	2.9	160	16	27	5.3	390	5.0	100	0	27	0	.	48	100	20	27	1.3	2100	28	100	0	27	0	.
1997	MAR	1.7	240	5.7	27	0	.	4.3	130	13	27	0	.	7.9	100	0	27	0	.	25	100	55	27	3.5	820	33	100	31	27	0	.
1997	APR	3.7	140	1.3	27	0	.	5.4	120	5.1	27	4.6	450	12	100	21	27	0	.	35	100	23	27	0	.	14	100	22	27	0	.
1997	MAY	5.1	120	5.3	27	0	.	6.3	120	12	27	0	.	2.5	100	48	27	0	.	32	100	33	27	0	.	11	100	0	27	0	.
1997	JUN	3.7	140	2.0	27	0	.	2.0	220	16	27	0	.	13	100	0	27	0	.	15	100	19	27	0	.	12	100	0	27	0	.
1997	JUL	1.7	240	2.7	27	0	.	0.69	560	3.7	27	0	.	1.6	100	38	27	0	.	6.2	120	12	27	0	.	14	100	0	27	0	.
1997	AUG	6.7	120	0.59	27	0.84	2100	5.0	130	12	27	1.4	1300	3.0	100	18	27	0	.	14	100	37	27	0	.	26	100	4.4	27	0	.
1997	SEP	1.6	260	4.7	27	0	.	6.8	110	7.4	27	6.7	330	3.1	100	16	27	3.2	73	32	100	25	27	2.8	840	8.9	100	0	27	0	.
1997	OCT	4.8	130	11	27	0.56	4500	9.5	110	15	27	2.8	880	8.3	100	2.2	27	0	.	52	100	21	27	2.9	870	13	100	26	27	0	.
1997	NOV	9.1	110	4.7	27	0	.	26	100	9.0	27	0	.	6.8	100	12	27	.	.	41	100	35	27	0	.	11	100	88	27	0	.
1997	DEC	2.5	120	3.9	27	0	.	4.8	110	6.6	27	0.59	650	6.7	100	0	27	.	.	68	100	11	27	3.7	140	110	100	2.9	27	.	.
1998	JAN	6.1	110	11	27	0.88	490	14	100	47	27	4.9	94	33	100	0	27	0	.	85	100	86	27	4.1	120	30	100	1000	27	4.2	65
1998	FEB	10	100	0	27	0.46	780	15	100	5.1	27	9.4	66	9.7	100	24	27	0	.	120	100	17	27	4.8	100	77	100	19	27	6.7	60
1998	MAR	4.0	130	3.4	27	0.65	620	9.3	110	11	27	5.3	96	5.9	100	15	27	0	.	27	100	48	27	0	.	17	100	44	27	0	.
1998	APR	3.8	130	0.24	27	0	.	14	100	9.0	27	2.5	140	4.1	100	5.4	27	1.1	110	29	100	26	27	0	.	18	100	0	27	0.75	140
1998	MAY	3.2	140	1.9	27	0	.	2.8	150	3.8	27	3.9	97	2.2	100	14	27	0	.	73	100	8.1	27	1.5	210	28	100	0	27	25	58
1998	JUN	3.2	140	3.8	27	0	.	1.0	320	6.8	27	0	.	3.1	100	0	27	0	.	9.3	110	8.8	27	3.0	120	8.6	100	0	27	0	.
1998	JUL	0.66	490	0	27	0	.	1.4	250	0	27	1.6	190	0.70	110	1.5	27	0.58	170	11	100	0	27	0	.	3.0	100	0	27	0	.
1998	AUG	8.4	110	0	27	0	.	3.7	130	0	27	3.0	110	0.66	110	0	27	0	.	12	100	0	27	5.1	84	5.9	100	0	27	0	.
1998	SEP	0	.	3.5	27	0	.	1.2	280	4.9	27	.	.	1.8	100	0	27	0	.	11	100	3.8	27	6.3	82	8.5	100	0	27	0	.
1998	OCT	1.6	220	24	27	0	.	21	100	13	27	0	.	2.1	100	0	27	0	.	30	100	29	27	3.3	140	130	100	14	27	26	58
1998	NOV	1.3	270	7.1	27	0	.	7.1	110	8.9	27	0	.	4.2	100	0	27	0	.	24	100	0	27	8.8	80	11	100	0	27	1.6	95
1998	DEC	2.4	190	21	27	0	.	12	100	7.2	27	0	.	5.6	100	13	27	.	.	37	100	12	27	3.0	980	34	100	15	27	0	.
1999	JAN	7.1	170	8.8	27	0	.	9.0	140	21	27	0	.	3.4	100	0	27	0	.	56	100	0	27	28	72	44	100	0	27	0	.
1999	FEB	7.3	160	10	27	0	.	11	130	12	27	0	.	11	100	24	27	0	.	94	100	18	27	16	83	200	100	0	27	0	.
1999	MAR	7.6	160	2.8	27	0	.	20	110	2.4	27	1.3	650	6.7	100	13	27	0	.	110	100	58	27	15	87	13	100	26	27	0	.
1999	APR	7.7	160	0	27	0	.	12	130	18	27	0	.	3.8	100	14	27	0	.	28	110	30	27	19	76	6.2	100	11	27	0	.
1999	MAY	4.8	220	5.9	27	0	.	5.3	200	7.0	27	0	.	1.8	100	7.6	27	0	.	65	100	11	27	1.9	400	5.1	100	8.3	27	0.36	330
1999	JUN	0.60	1600	1.5	27	0	.	7.2	160	3.3	27	0	.	3.5	100	0	27	0	.	12	130	5.0	27	7.7	100	4.2	100	3.1	27	0	.
1999	JUL	1.5	640	2.0	27	2.4	270	1.8	540	9.9	27	0	.	7.3	100	2.3	27	0.45	290	12	130	18	27	3.3	230	8.4	100	0	27	0.56	200
1999	AUG	5.1	210	2.0	27	0	.	2.6	370	6.3	27	0	.	1.4	100	0	27	0	.	16	120	6.1	27	43	61	4.0	100	0	27	0	.
1999	SEP	4.1	250	12	27	0	.	6.4	180	6.3	27	0	.	2.5	100	0	27	.	.	16	120	11	27	0	.	2.9	100	4.6	27	0	.
1999	OCT	4.2	240	13	27	0	.	12	130	1.2	27	0	.	2.4	100	13	27	0	.	38	100	11	27	0	.	8.5	100	15	27	0	.
1999	NOV	5.4	200	1.5	27	0	.	5.4	200	4.5	27	1.4	660	0.31	150	13	27	0	.	10	140	7.3	27	0	.	3.3	100	11	27	0	.
1999	DEC	6.6	110	15	27	4.4	130	9.2	110	30	27	0	.	4.8	100	5.3	27	0	.	47	100	45	27	18	66	11	100	12	27	0	.
2000	JAN	2.0	160	0	27	0	.	9.2	100	0	27	0	.	4.6	100	21	27	.	.	20	100	24	27	2.1	110	16	100	0	27	.	.
2000	FEB	11	100	3.8	27	0	.	35	100	13	27	0	.	7.4	100	7.9	27	.	.	32	100	31	27	3.0	84	53	100	45	27	.	.
2000	MAR	3.6	120	4.3	27	0	.	20	100	20	27	0	.	5.1	100	7.2	27	.	.	25	100	27	27	3.1	75	10	100	40	27	.	.
2000	APR	2.3	150	4.9	27	0	.	8.9	100	7.1	27	0	.	4.9	100	34	27	.	.	29	100	67	27	1.8	94	8.2	100	20	27	.	.
2000	MAY	3.2	130	3.4	27	0	.	4.8	110	7.9	27	0	.	2.5	100	6.5	27	.	.	20	100	23	27	0	.	5.7	100	15	27	0	.
2000	JUN	1.3	210	2.9	27	0	.	3.2	130	3.0	27	0	.	6.4	100	1.6	27	.	.	19	100	9.3	27	18	59	2.3	100	26	27	.	.
2000	JUL	2.1	160	0	27	0	.	2.3	150	12	27	0	.	2.0	100	1.4	27	.	.	16	100	7.5	27	11	59	1.8	100	0	27	.	.
2000	AUG	2.2	150	1.0	27	0	.	4.9	110	3.6	27	0.056	2000	3.2	100	0	27	.	.	13	100	26	27	1.2	120	3.0	100	0	27	0	.
2000	SEP	2.3	150	3.0	27	0	.	11	100	12	27	0	.	3.5	100	0	27	.	.	10	100	11	27	5.4	64	1.8	100	0	27	0	.
2000	OCT	1.0	260	5.7	27	0	.	4.0	120	5.1	27	0	.	0.91	100	0	27	.	.	40	100	8.9	27	8.4	61	8.2	100	0	27	4.2	61
2000	NOV	2.3	150	26	27	0	.	4.1	120	28	27	0	.	3.6	100	1.4	27	.	.	32	100	33	27	3.2	81	43	100	94	27	6.2	60
2000	DEC	8.6	150	8.2	27	0	.	40	100	17	27	0	.	19	100	54	27	0	.	44	100	14	27	13	100	24	100	66	27	0.24	830

BENZO (k) FLUORANTHENE (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	5.9	27	0	.	.	.	1.6	27	3.9	350	7.1	100	.	.	.	.	.	.	13	27	0	.	58	100	0	27	.	.
1992	FEB	1.6	430	.	.	0	.	0	.	.	.	0	.	4.3	100	.	.	.	.	0	.	.	.	3.9	370	20	100	0	27	.	.
1992	MAR	.	.	4.1	27	0	.	.	.	3.0	27	4.5	270	5.0	100	.	.	.	.	.	.	18	27	0	.	4.1	100	0	27	.	.
1992	APR	.	.	3.0	27	0	.	.	.	7.3	27	0	.	4.3	100	.	.	.	.	9.3	120	12	27	5.4	220	5.0	100	0	27	.	.
1992	MAY	.	.	12	27	0	.	.	.	6.2	27	5.5	.	5.5	100	0	27	.	.	7.8	130	4.7	27	5.3	.	3.2	100	0	27	.	.
1992	JUN	0	.	3.6	27	0	.	.	.	5.6	27	0	.	2.6	100	0	27	.	.	5.6	150	8.7	27	9.7	70	3.0	100	0	27	.	.
1992	JUL	0	.	0	27	0	.	2.4	290	7.2	27	0	.	1.4	100	0	27	.	.	2.7	260	9.7	27	5.7	96	2.2	100	0	27	.	.
1992	AUG	.	.	.	.	5.1	91	.	.	.	.	0	.	3.5	100	0	27	.	.	.	.	7.8	27	0	.	1.8	100	0	27	.	.
1992	SEP	0	.	7.2	27	0	.	4.8	170	6.8	27	0	.	2.8	100	0	27	.	.	9.3	120	12	27	0	.	1.3	100	0	27	.	.
1992	OCT	2.0	340	.	.	0	.	3.0	240	1.8	27	4.7	120	0.78	110	0	27	.	.	.	.	.	.	0	.	2.4	100	0	27	.	.
1992	NOV	0	.	15	27	0	.	4.1	190	16	27	0	.	1.7	100	0	27	.	.	8.2	130	54	27	0	.	3.7	100	0	27	.	.
1992	DEC	.	.	16	27	0	.	7.2	100	8.7	27	5.3	200	1.7	100	0	27	.	.	.	.	23	27	9	140	17	100	0	27	.	.
1993	JAN	.	.	15	27	0	.	.	.	0	27	0	.	5.3	100	24	27	.	.	20	100	.	.	0	.	3.9	100	0	27	.	.
1993	FEB	.	.	0	27	0	.	3.2	110	0	27	0	.	3.2	100	0	27	.	.	8.1	100	6.2	27	0	.	60	100	0	27	.	.
1993	MAR	.	.	0	27	0	.	5.0	110	0	27	0	.	3.1	100	0	27	.	.	12	100	0	27	0	.	35	100	0	27	.	.
1993	APR	.	.	0.69	27	0	.	.	.	15	27	0	.	12	100	0	27	.	.	.	.	14	27	0	.	0	.	0	27	.	.
1993	MAY	.	.	0	27	0	.	0.61	300	3.5	27	0	.	4.5	100	0	27	.	.	0.90	220	3.2	27	0	.	1.9	110	0	27	.	.
1993	JUN	.	.	2.4	27	0	.	0.69	270	4.9	27	0	.	2.3	100	0	27	.	.	1.4	160	9.0	27	0	.	1.0	130	0	27	.	.
1993	JUL	0	.	0	27	0	.	0	.	0	27	.	.	6.5	100	0	27	.	.	7.1	100	3.4	27	0	.	2.2	110	0	27	.	.
1993	AUG	.	.	0	27	0	.	0	.	0	27	0	.	0.45	110	0	27	.	.	3.0	120	3.8	27	0	.	0.74	150	0	27	.	.
1993	SEP	0.78	240	0	27	0	.	.	.	11	27	0	.	0.56	110	0	27	.	.	5.8	100	10	27	0	.	1.5	110	0	27	.	.
1993	OCT	.	.	.	.	.	.	.	.	0	27	0	.	2.3	100	0	27	.	.	15	100	11	27	0	.	2.1	110	0	27	.	.
1993	NOV	0.54	340	0	27	0	.	1.2	180	2.6	27	0	.	2.9	100	0	27	.	.	13	100	12	27	0	.	3.7	100	0	27	.	.
1993	DEC	.	.	.	.	0	.	.	.	.	.	0	.	3.6	100	0	27	.	.	.	.	8.4	27	5.2	130	31	100	0	27	.	.
1994	JAN	.	.	0	27	0	.	.	.	.	.	0	.	3.0	100	0	27	.	.	12	100	14	27	0	.	9.3	100	0	27	.	.
1994	FEB	3.1	110	0	27	0	.	4.7	110	0	27	0	.	1.9	100	0	27	.	.	15	100	15	27	0	.	5.0	100	0	27	.	.
1994	MAR	3.6	110	0	27	.	.	4.1	110	1.9	27	.	.	1.4	100	0	27	.	.	23	100	5.4	27	.	.	10	100	0	27	.	.
1994	APR	0	.	2.6	27	0	.	1.6	150	2.6	27	0	.	1.1	100	0	27	.	.	4.8	110	19	27	0	.	5.2	100	0	27	.	.
1994	MAY	1.8	140	0	27	0	.	2.6	120	0	27	0	.	0.75	100	0	27	.	.	6.4	100	0	27	0	.	4.5	100	0	27	.	.
1994	JUN	0.60	300	0	27	.	.	1.1	180	0	27	0	.	2.4	100	0	27	.	.	2.0	130	0	27	0	.	1.8	100	0	27	.	.
1994	JUL	0.86	220	0	27	0	.	3.2	110	0	27	0	.	1.2	100	0	27	.	.	3.5	110	0	27	0	.	3.1	100	0	27	.	.
1994	AUG	2.0	130	1.2	27	0	.	2.1	130	2.4	27	0	.	2.6	100	0	27	.	.	8.8	100	9.1	27	0	.	2.2	100	0	27	.	.
1994	SEP	0.76	250	0	27	0	.	0.32	550	0	27	0	.	4.5	100	0	27	.	.	.	.	7.0	27	0	.	3.6	100	0	27	.	.
1994	OCT	1.4	160	0	27	0	.	2.5	120	8.4	27	0	.	0.88	100	0	27	.	.	11	100	3.4	27	0	.	2.4	100	0	27	.	.
1994	NOV	2.5	120	8.5	27	0	.	4.4	110	10	27	0	.	2.1	100	13	27	.	.	13	100	8.9	27	7.8	100	3.6	100	0	27	.	.
1994	DEC	.	.	2.3	27	0	.	.	.	3.8	27	0	.	5.1	100	0	27	.	.	18	100	0	27	0	.	7.1	100	0	27	.	.
1995	JAN	2.8	110	1.9	27	0.31	1500	2.1	120	.	.	0	.	1.0	100	0	27	.	.	12	100	19	27	4.3	120	3.2	100	6.8	27	.	.
1995	FEB	0.66	220	0	27	0	.	3.2	110	.	.	0	.	3.3	100	0	27	.	.	43	100	12	27	0	.	14	100	0	27	.	.
1995	MAR	0	.	1.6	27	0	.	1.8	130	6.1	27	0.29	1200	3.3	100	0	27	.	.	19	100	11	27	6.1	79	7.1	100	14	27	.	.
1995	APR	0.65	230	1.2	27	0	.	1.3	140	7.7	27	0	.	1.0	100	1.4	27	.	.	12	100	13	27	0	.	1.6	100	0	27	.	.
1995	MAY	0	.	1.2	27	0	.	4.6	100	7.0	27	0	.	1.3	100	4.7	27	.	.	17	100	10	27	1.7	200	2.0	100	0	27	.	.
1995	JUN	0.99	170	0.26	27	0	.	2.4	110	1.2	27	0	.	1.4	100	0	27	.	.	17	100	2.5	27	0	.	1.5	100	0	27	.	.
1995	JUL	1.7	130	0	27	0	.	.	.	1.4	27	0	.	1.5	100	0	27	.	.	5.1	100	7.7	27	0	.	3.0	100	0	27	.	.
1995	AUG	2.2	120	0.85	27	0	.	.	.	0.87	27	0	.	1.3	100	0	27	.	.	6.0	100	7.9	27	0	.	1.1	100	0	27	.	.
1995	SEP	3.5	110	.	.	11	66	1.2	150	4.1	27	0	.	1.8	100	0	27	.	.	8.1	100	1.4	27	0	.	2.0	100	1.4	27	.	.
1995	OCT	0.15	900	.	.	0	.	1.7	130	5.0	27	0.27	1500	1.3	100	4.5	27	.	.	8.7	100	9.7	27	0	.	3.3	100	0	27	.	.
1995	NOV	0.80	190	8.7	27	0	.	.	.	6.4	27	0	.	1.2	100	2.1	27	.	.	9.6	100	22	27	0	.	1.0	100	40	27	.	.
1995	DEC	.	.	.	.	0	.	.	.	4.8	27	0	.	3.1	100	0	27	.	.	.	.	8.9	27	20	66	27	100	0	27	.	.
1996	JAN	0.60	160	0	27	0	.	4.2	100	3.4	27	2.6	170	3.3	100	3.0	27	.	.	10	100	7.9	27	0	.	19	100	4.2	27	.	.
1996	FEB	1.3	120	0.35	27	0	.	1.0	130	3.1	27	.	.	5.0	100	27	27	.	.	8.3	100	0	27	0.41	1000	14	100	3.7	27	.	.
1996	MAR	3.2	100	0.33	27	0	.	5.3	100	2.4	27	0	.	3.0	100	3.8	27	.	.	52	100	0.69	27	0	.	4.8	100	60	27	.	.
1996	APR	0.95	130	1.5	27	0	.	1.6	110	0	27	0	.	1.9	100	0	27	.	.	15	100	19	27	0	.	2.3	100	0	27	.	.
1996	MAY	0.99	130	2.0	27	0	.	2.0	110	0	27	0	.	2.9	100	0	27	.	.	3.5	100	9.0	27	0	.	1.7	100	0	27	.	.
1996	JUN	0.82	140	0.59	27	0	.	1.2	120	7.9	27	0.36	780	2.4	100	0	27	.	.	12	100	7.1	27	0	.	1.8	100	0	27	.	.
1996	JUL	1.0	120	2.1	27	0	.	0.84	140	3.1	27	0.40	670	3.1	100	0	27	.	.	11	100	2.2	27	0	.	0.61	100	0	27	.	.
1996	AUG	0.56	170	1.6	27	0	.	0.92	130	0	27	0	.	1.9	100	0	27	.	.	4.8	100	0.69	27	0	.	5.7	100	0	27	.	.
1996	SEP	1.9	110	2.0	27	0	.	1.5	110	0	27	0	.	0.46	110	0	27	.	.	5.7	100	0.63	27	0	.	3.9	100	0	27	.	.
1996	OCT	3.1	100	2.2	27	0.22	1900	3.2	100	0	27	0.60	660	2.9	100	0	27	.	.	10	100	0.36	27	0	.	40	100	0	27	.	.
1996	NOV	1.4	110	6.5	27	0.31	1400	1.1	120	1.1	27	0	.	9.3	100	0	27	.	.	5.0	100	12	27	0.63	690	8.4	100	7.5	27	.	.
1996	DEC	.	.	0	27	0	.	3.9	110	7.5	27	0.83	460	.	.	64	27	.	.	24	100	20	27	0	.	11	100	58	27	.	.

BENZO (k) FLUORANTHENE (ng/m ^{2}/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	1.7	120	4.9	27	0	.	2.2	110	4.0	27	1.9	750	4.7	100	0	27	0	.	5.8	100	3.8	27	0.35	6300	4.0	100	21	27	0	.
1997	FEB	0.56	240	1.0	27	0	.	0.65	210	12	27	1.5	890	1.9	100	0	27	0	.	13	100	15	27	0	.	8.3	100	0	27	0	.
1997	MAR	0.33	380	1.4	27	0	.	1.0	150	3.5	27	0	.	3.6	100	0	27	0	.	6.7	100	15	27	0.79	2300	9.5	100	32	27	0	.
1997	APR	1.2	140	0.39	27	0	.	1.7	120	1.7	27	1.1	1200	6.2	100	11	27	0	.	9.8	100	7.5	27	0	.	4.4	100	0	27	0	.
1997	MAY	1.3	130	1.9	27	0	.	1.7	120	4.5	27	0	.	1.5	100	14	27	0	.	8.2	100	10	27	0	.	3.2	100	0	27	0	.
1997	JUN	1.4	130	1.7	27	0	.	0.45	280	6.7	27	0	.	6.5	100	0	27	0	.	3.8	100	7.2	27	0	.	4.3	100	0	27	0	.
1997	JUL	0.83	170	1.3	27	0	.	0.29	420	1.4	27	0	.	0.92	100	45	27	0	.	2.3	110	5.6	27	0	.	6.1	100	0	27	0	.
1997	AUG	2.5	110	0.33	27	0	.	1.6	120	4.0	27	0	.	1.2	100	22	27	0	.	4.3	100	14	27	0	.	8.5	100	2.9	27	0	.
1997	SEP	0.67	200	2.8	27	0	.	2.2	110	3.7	27	1.7	810	1.5	100	12	27	0	.	8.9	100	11	27	0	.	3.5	100	0	27	0	.
1997	OCT	1.7	120	4.5	27	0.52	3000	3.4	110	5.6	27	0.70	2200	3.4	100	1.9	27	0	.	15	100	8.1	27	0.41	3800	4.2	100	9	27	0	.
1997	NOV	2.7	110	1.6	27	0	.	7.0	100	3.0	27	0	.	2.7	100	6.7	27	.	.	12	100	12	27	0	.	4.4	100	39	27	0	.
1997	DEC	1.1	120	0.67	27	0	.	2.4	100	1.4	27	0.38	950	2.1	100	0	27	.	.	24	100	2.9	27	1.8	250	35	100	3.8	27	.	.
1998	JAN	1.5	110	3.2	27	0	.	3.3	100	13	27	1.2	300	12	100	0	27	0	.	15	100	25	27	0	.	10	100	480	27	1.6	63
1998	FEB	2.7	100	0	27	0	.	3.5	100	1.4	27	2.3	140	4.5	100	14	27	0	.	22	100	5.0	27	0.9	410	23	100	0	27	1.6	62
1998	MAR	1.1	120	0.83	27	0.16	2300	2.5	100	3.1	27	0.71	540	3.1	100	11	27	0	.	7.7	100	12	27	0	.	5.8	100	20	27	0	.
1998	APR	0.51	180	0	27	0	.	3.6	100	2.7	27	0	.	2.2	100	1.6	27	0	.	8.3	100	7.9	27	0	.	6.6	100	0	27	0	.
1998	MAY	0	.	0	27	0	.	0.35	250	0.91	27	0	.	0.74	100	8.9	27	0	.	17	100	2.4	27	0	.	7.3	100	0	27	5	59
1998	JUN	0.58	170	0	27	0	.	0	.	2.0	27	0	.	1.7	100	0	27	0	.	2.6	100	2.7	27	0	.	3.2	100	0	27	0	.
1998	JUL	0	.	0	27	0	.	0	.	0	27	0	.	0.53	100	1.1	27	0	.	3.0	100	0	27	0	.	1.4	100	0	27	0.81	66
1998	AUG	2.7	100	0	27	0	.	1.4	110	0	27	0	.	0.52	100	0	27	0	.	3.8	100	0	27	0	.	3.1	100	0	27	0	.
1998	SEP	0	.	1.7	27	0	.	0	.	2.1	27	.	.	0.78	100	0	27	0	.	3.0	100	1.4	27	0	.	3.6	100	0	27	0	.
1998	OCT	0.42	210	9.1	27	0	.	5.5	100	4.7	27	0	.	0.74	100	0	27	0	.	6.7	100	7.6	27	0	.	37	100	7.7	27	4.2	59
1998	NOV	0	.	2.2	27	0	.	0.79	140	2.5	27	0	.	1.5	100	0	27	0	.	6.1	100	0	27	0	.	4.2	100	0	27	0.69	81
1998	DEC	0.49	260	7.6	27	0	.	3.2	110	2.3	27	0	.	2.2	100	7.7	27	.	.	10	100	3.9	27	0	.	13	100	8.7	27	0	.
1999	JAN	1.2	330	3.9	27	0	.	2.4	180	6.8	27	0	.	1.5	100	0	27	0	.	16	100	0	27	6.5	65	12	100	0	27	0	.
1999	FEB	2.1	200	2.8	27	0	.	3.5	140	3.3	27	0	.	4.8	100	12	27	0	.	27	100	4.7	27	5.0	66	52	100	0	27	0	.
1999	MAR	1.9	220	0.73	27	0	.	6.3	120	0	27	0	.	3.5	100	8.2	27	0	.	29	100	18	27	6.2	64	5.5	100	12	27	0	.
1999	APR	1.7	240	0	27	0	.	3.5	150	10	27	0	.	1.8	100	7.0	27	0	.	7.1	110	16	27	7.0	62	2.6	100	6.8	27	0	.
1999	MAY	1.5	270	2.2	27	0	.	2.2	190	2.6	27	0	.	1.0	100	4.0	27	0	.	22	100	5.1	27	0	.	2.2	100	4.4	27	0	.
1999	JUN	0	.	0.38	27	0	.	2.5	180	1.5	27	0	.	1.7	100	0	27	0	.	6.5	110	2.3	27	3.5	66	1.9	100	2.1	27	0	.
1999	JUL	0.39	940	0	27	1.1	110	0	.	6.5	27	0	.	3.8	100	1.6	27	0	.	5.5	120	11	27	1.5	97	3.4	100	0	27	0.36	180
1999	AUG	0	.	0	27	0	.	0.73	510	2.4	27	0	.	0.68	100	0	27	0	.	6.3	120	3.7	27	15	59	1.6	100	0	27	0	.
1999	SEP	1.1	330	5.0	27	0	.	1.9	220	3.7	27	0	.	1.4	100	0	27	0	.	7.0	110	4.9	27	0	.	1.4	100	2.4	27	0	.
1999	OCT	1.9	220	7.2	27	0	.	5.4	120	0	27	0	.	1.2	100	7.9	27	0	.	19	100	6.4	27	0	.	3.2	100	9.9	27	0	.
1999	NOV	4.1	130	0.87	27	0	.	2.2	190	2.3	27	0	.	0.33	110	7.5	27	0	.	5.1	120	5.2	27	0	.	1.5	100	8.0	27	0.28	400
1999	DEC	1.6	110	4.8	27	1.4	340	2.3	110	11	27	0	.	1.8	100	0	27	0	.	12	100	13	27	4.6	130	4.5	100	8.6	27	0	.
2000	JAN	0	.	0	27	0	.	2.0	110	0	27	0	.	1.7	100	11	27	0	.	5.0	100	7.7	27	0	.	4.6	100	0	27	0	.
2000	FEB	2.9	100	1.0	27	0	.	9.4	100	3.8	27	0	.	2.8	100	5.9	27	0	.	7.1	100	9.7	27	0	.	8.7	100	25	27	0	.
2000	MAR	0.37	270	0	27	0	.	6.0	100	6.1	27	0	.	1.9	100	5.7	27	0	.	7.8	100	9.0	27	0	.	4.4	100	21	27	0	.
2000	APR	0	.	1.9	27	0	.	2.7	110	2.2	27	0	.	1.6	100	29	27	0	.	8.5	100	21	27	0	.	3.3	100	10	27	0	.
2000	MAY	0	.	0	27	0	.	0	.	0	27	0	.	1.1	100	7.7	27	0	.	6.7	100	6.9	27	0	.	2.4	100	6.7	27	0	.
2000	JUN	0	.	0	27	0	.	1.0	140	0	27	0	.	3.4	100	0	27	0	.	6.2	100	4.2	27	6.7	62	1.2	100	12	27	0.37	150
2000	JUL	0.84	150	0	27	0	.	0.55	200	3.6	27	0	.	0.94	100	1.3	27	0	.	4.4	100	0	27	2.3	77	0.81	100	0	27	0.20	240
2000	AUG	0.69	170	0	27	0	.	1.2	130	1.1	27	0.034	3700	1.6	100	0	27	0	.	5.4	100	9.3	27	0	.	0.83	100	0	27	0.48	120
2000	SEP	0	.	0	27	0	.	3.9	100	4.4	27	0	.	1.9	100	0	27	0	.	4.0	100	3.6	27	0	.	0.87	100	0	27	0	.
2000	OCT	0	.	2.0	27	0	.	0.61	190	1.4	27	0	.	0.53	100	0	27	0	.	11	100	2.8	27	2.3	88	2.4	100	0	27	0.20	290
2000	NOV	0	.	7.6	27	0	.	1.4	120	10	27	0	.	1.6	100	13	27	0	.	11	100	12	27	0	.	11	100	68	27	1.5	75
2000	DEC	5.3	120	0	27	0	.	17	100	4.6	27	0	.	7.4	100	24	27	0	.	20	100	4.3	27	6.2	66	8.7	100	36	27	0.23	490

INDENO (1,2,3) PYRENE (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	10	27	0	.	.	.	2.5	27	0	.	38	100	.	.	.	.	.	.	20	27	0	.	71	100	0	27	.	.
1992	FEB	6.8	120	.	.	0	.	7.9	120	.	.	0	.	10	100	.	.	.	.	61	100	.	.	0	.	24	100	0	27	.	.
1992	MAR	.	.	4.3	27	0	.	.	.	3.4	27	0.75	550	9.2	100	.	.	.	.	.	.	19	27	0	.	8.8	100	0	27	.	.
1992	APR	.	.	3.7	27	0	.	.	.	9.2	27	0	.	7.0	110	.	.	.	.	15	100	24	27	1.4	280	12	100	0	27	.	.
1992	MAY	.	.	12	27	0	.	.	.	8.4	27	0	.	9.0	100	0	27	.	.	9.7	110	6.4	27	6.5	.	7.3	100	0	27	.	.
1992	JUN	0	.	4.9	27	0	.	.	.	14	27	0	.	4.2	120	0	27	.	.	10	110	21	27	0	.	7.4	100	0	27	.	.
1992	JUL	0	.	0	27	0	.	3.7	160	8.5	27	0	.	1.3	220	0	27	.	.	4.8	140	19	27	4.3	110	4.2	110	0	27	.	.
1992	AUG	.	.	.	.	0	.	.	.	.	.	0	.	7.0	110	0	27	.	.	.	.	12	27	0	.	4.7	110	0	27	.	.
1992	SEP	3.2	180	8.9	27	0	.	8.7	110	12	27	0	.	3.5	120	0	27	.	.	15	100	21	27	0	.	4.4	110	0	27	.	.
1992	OCT	2.8	190	.	.	0	.	4.4	140	3.1	27	0	.	2.0	160	0	27	.	.	.	.	.	.	0	.	7.2	100	0	27	.	.
1992	NOV	2.0	260	0	27	0	.	7.5	120	36	27	0	.	5.0	110	0	27	.	.	14	110	77	27	0	.	12	100	0	27	.	.
1992	DEC	.	.	23	27	0	.	19	110	15	27	5.9	100	5.0	110	0	27	.	.	.	.	26	27	11	79	24	100	0	27	.	.
1993	JAN	.	.	20	27	0	.	.	.	0	27	0	.	11	100	44	27	.	.	28	100	.	.	0	.	14	110	160	27	.	.
1993	FEB	.	.	0	27	0	.	6.8	100	0	27	0	.	9.5	100	0	27	.	.	15	100	15	27	0	.	93	100	0	27	.	.
1993	MAR	.	.	0	27	0	.	9.4	100	0	27	0	.	6.3	100	0	27	.	.	16	100	0	27	0	.	80	100	0	27	.	.
1993	APR	.	.	0	27	0	.	.	.	29	27	0	.	19	100	0	27	.	.	.	.	23	27	0	.	0	.	34	27	.	.
1993	MAY	.	.	0	27	0	.	1.5	150	5.5	27	0	.	7.9	100	0	27	.	.	2.5	120	3.3	27	0	.	3.6	210	0	27	.	.
1993	JUN	.	.	0	27	0	.	1.3	160	7.1	27	0	.	4.2	100	0	27	.	.	2.4	120	13	27	0	.	0	.	2	27	.	.
1993	JUL	0	.	0	27	0	.	0	.	0	27	.	.	13	100	6.4	27	.	.	12	100	6.3	27	0	.	7.7	130	0	27	.	.
1993	AUG	.	.	0	27	0	.	2.4	120	0	27	0	.	1.1	140	0	27	.	.	5.7	100	4.4	27	0	.	2.0	340	0	27	.	.
1993	SEP	0	.	0	27	0	.	.	.	16	27	0	.	1.5	130	0	27	.	.	9.4	100	16	27	0	.	4.9	160	0	27	.	.
1993	OCT	.	.	.	27	.	.	.	.	0	27	0	.	6.8	100	0	27	.	.	25	100	16	27	0	.	3.6	210	15	27	.	.
1993	NOV	0	.	0	27	0	.	2.2	130	6.9	27	0	.	7.5	100	0	27	.	.	21	100	22	27	0	.	13	110	0	27	.	.
1993	DEC	.	.	.	.	0	.	.	.	.	.	0	.	9.6	100	24	27	.	.	.	.	14	27	3.4	180	70	100	0	27	.	.
1994	JAN	.	.	0	27	0	.	.	.	.	.	0	.	9.1	100	0	27	.	.	19	100	20	27	0	.	35	100	0	27	.	.
1994	FEB	4.3	110	0	27	0	.	8.1	100	5.5	27	0	.	5.5	100	0	27	.	.	25	100	21	27	0	.	18	100	0	27	.	.
1994	MAR	5.3	100	0	27	.	.	9.7	100	3.4	27	.	.	4.6	100	0	27	.	.	35	100	8.6	27	.	.	24	100	0	27	.	.
1994	APR	1.1	180	3.7	27	0	.	3.6	110	4.4	27	0	.	3.3	100	0	27	.	.	9.7	100	31	27	0	.	15	100	0	27	.	.
1994	MAY	3.3	110	0	27	0	.	5.0	110	0	27	0	.	1.4	110	0	27	.	.	11	100	0	27	0	.	22	100	0	27	.	.
1994	JUN	1.2	170	0	27	.	.	2.5	120	0	27	0	.	5.1	100	0	27	.	.	4.3	110	0	27	0	.	11	100	0	27	.	.
1994	JUL	1.5	150	0	27	0	.	6.8	100	0	27	0	.	2.9	100	0	27	.	.	6.5	100	0	27	0	.	8.5	110	5.4	27	.	.
1994	AUG	0	.	1.9	27	0	.	3.3	110	1.4	27	0	.	5.2	100	0	27	.	.	19	100	0	27	0	.	7.2	110	0	27	.	.
1994	SEP	0.55	320	0	27	0	.	0.82	220	0	27	0	.	9.8	100	0	27	.	.	.	.	0	27	0	.	7.3	110	0	27	.	.
1994	OCT	1.8	140	0	27	0	.	4.3	110	8.4	27	0	.	1.6	110	0	27	.	.	26	100	3.1	27	0	.	6.4	110	0	27	.	.
1994	NOV	3.5	110	6.4	27	0	.	8.7	100	15	27	0	.	5.4	100	0	27	.	.	31	100	10	27	0	.	7.5	110	0	27	.	.
1994	DEC	.	.	0	27	0	.	.	.	8.7	27	0	.	17	100	0	27	.	.	32	100	0	27	0	.	47	100	0	27	.	.
1995	JAN	2.6	120	7.3	27	0	.	5.7	100	.	.	0	.	1.5	110	0	27	.	.	23	100	72	27	3.4	86	9.3	100	0	27	.	.
1995	FEB	0	.	0	27	0	.	7.8	100	.	.	0	.	6.7	100	0	27	.	.	76	100	45	27	0	.	28	100	0	27	.	.
1995	MAR	0	.	1.5	27	0	.	2.3	120	12	27	0	.	5.5	100	0	27	.	.	18	100	21	27	0	.	20	100	0	27	.	.
1995	APR	0.84	220	1.6	27	0	.	1.2	170	7.3	27	0	.	0	.	0	27	.	.	14	100	20	27	0	.	5.7	100	0	27	.	.
1995	MAY	0	.	3.4	27	0	.	3.8	110	12	27	0	.	0	.	0	27	.	.	7.4	100	18	27	0	.	5.8	100	0	27	.	.
1995	JUN	0.67	260	0.36	27	0	.	1.7	140	1.4	27	0	.	4.7	100	0	27	.	.	30	100	2.5	27	0	.	4.9	100	0	27	.	.
1995	JUL	2.1	130	0	27	0	.	.	.	3.6	27	0	.	2.4	110	0	27	.	.	7.3	100	12	27	0	.	7.4	100	0	27	.	.
1995	AUG	2.0	130	2.2	27	0	.	.	.	1.4	27	0	.	2.9	100	0	27	.	.	8.1	100	10	27	0	.	2.8	100	0	27	.	.
1995	SEP	3.3	110	.	.	0	.	2.9	110	9.1	27	0	.	4.6	100	0	27	.	.	22	100	2.8	27	0	.	5.5	100	0	27	.	.
1995	OCT	0.76	240	.	.	0	.	4.0	110	13	27	0.43	460	2.5	110	0	27	.	.	30	100	34	27	0	.	10	100	0	27	.	.
1995	NOV	0	.	23	27	0	.	.	.	15	27	0	.	3.4	100	39	27	.	.	25	100	53	27	0	.	4.2	100	22	27	.	.
1995	DEC	.	.	.	.	0	.	.	.	9.6	27	0	.	11	100	0	27	.	.	.	.	13	27	23	64	58	100	0	27	.	.
1996	JAN	1.7	110	15	27	0	.	12	100	13	27	0	.	10	100	0	27	.	.	25	100	12	27	0	.	37	100	3.3	27	.	.
1996	FEB	3.0	100	0.92	27	0	.	3.0	100	5.5	27	.	.	14	100	19	27	.	.	20	100	0	27	0	.	26	100	0	27	.	.
1996	MAR	5.4	100	0.31	27	0	.	13	100	3.5	27	3.2	83	7.3	100	2.8	27	.	.	120	100	0.89	27	0	.	8.8	100	35	27	.	.
1996	APR	1.1	130	2.6	27	0	.	3.3	100	0	27	0	.	4.3	100	0	27	.	.	31	100	31	27	0	.	6.5	100	0	27	.	.
1996	MAY	1.1	130	2.0	27	0	.	2.8	110	0	27	0	.	5.3	100	0	27	.	.	5.5	100	7.7	27	0	.	4.9	100	0	27	.	.
1996	JUN	0.96	140	0.55	27	0	.	1.1	130	7.9	27	0	.	5.5	100	0	27	.	.	10	100	5.8	27	0	.	2.2	110	0	27	.	.
1996	JUL	1.3	120	3.7	27	0.018	7400	1.1	130	5.5	27	0.25	500	6.8	100	3.1	27	.	.	15	100	4.8	27	0.022	6500	0.47	250	0	27	.	.
1996	AUG	0.98	140	2.7	27	0	.	1.8	110	0	27	0	.	5.0	100	0	27	.	.	6.7	100	1.3	27	0	.	9.5	100	0	27	.	.
1996	SEP	2.1	110	2.2	27	0	.	2.0	110	0	27	0	.	1.5	120	0	27	.	.	6.7	100	0.69	27	0	.	15	100	4.1	27	.	.
1996	OCT	5.0	100	3.3	27	0	.	5.0	100	0.40	27	0	.	8.4	100	0	27	.	.	15	100	0.50	27	0	.	84	100	0	27	.	.
1996	NOV	5.1	100	7.5	27	0	.	3.0	100	2.6	27	0	.	26	100	0	27	.	.	13	100	19	27	0.46	440	27	100	0	27	.	.
1996	DEC	.	.	0	27	0	.	8.1	100	20	27	0	.	.	.	62	27	.	.	46	100	79	27	0	.	29	100	51	27	.	.

INDENO (1,2,3) PYRENE (ng/m ^{2}/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	3.9	110	21	27	0	.	4.7	110	18	27	1.8	640	10	100	3.8	27	0	.	11	100	14	27	0	.	14	100	12	27	0	.
1997	FEB	1.8	150	1.2	27	0	.	1.5	160	15	27	2.1	520	5.2	100	0	27	0	.	24	100	19	27	0	.	21	100	0	27	0	.
1997	MAR	0.85	250	4.5	27	0	.	2.4	130	8.9	27	0	.	6.8	100	12	27	0	.	11	100	40	27	1.2	1300	25	100	24	27	0	.
1997	APR	1.9	140	0.75	27	0	.	2.7	120	3.6	27	2.1	510	11	100	0	27	0	.	17	100	15	27	0	.	8.8	100	9.3	27	0	.
1997	MAY	3.1	120	3.5	27	0	.	4.3	110	9.3	27	0	.	4.8	100	24	27	0	.	22	100	21	27	0	.	6.3	100	0	27	0	.
1997	JUN	3.3	120	1.5	27	0	.	1.0	220	13	27	0	.	11	100	0	27	0	.	11	100	14	27	0	.	7.3	100	14	27	0	.
1997	JUL	1.3	180	1.9	27	0	.	0.51	390	2.7	27	0	.	1.5	120	49	27	0	.	4.4	110	8.0	27	0	.	13	100	0	27	0	.
1997	AUG	3.4	110	0.31	27	0	.	2.7	120	6.5	27	0	.	2.6	110	24	27	0	.	7.3	100	19	27	0	.	22	100	2.0	27	0	.
1997	SEP	1.1	210	3.1	27	0	.	4.0	110	4.7	27	2.1	540	2.2	110	8.1	27	0	.	24	100	14	27	0	.	9.3	100	6.4	27	0	.
1997	OCT	2.6	130	6.5	27	0.91	1400	6.9	100	9.4	27	0.79	1600	7.0	100	0.93	27	0	.	35	100	12	27	0	.	12	100	4.9	27	0	.
1997	NOV	5.3	110	2.7	27	0	.	15	100	5.1	27	0	.	6.7	100	3.9	27	.	.	24	100	16	27	0	.	14	100	35	27	0	.
1997	DEC	1.2	120	4.0	27	0	.	3.7	100	6.3	27	0	.	8.2	100	0	27	.	.	40	100	7.8	27	1.1	200	49	100	0	27	.	.
1998	JAN	3.4	110	5.2	27	0	.	7.5	100	24	27	1.7	110	26	100	26	27	0	.	42	100	38	27	0	.	27	100	300	27	0	.
1998	FEB	7.1	100	0	27	0	.	11	100	2.6	27	5.9	62	9.8	100	7.3	27	0	.	62	100	7.4	27	1.1	160	47	100	13	27	0	.
1998	MAR	2.6	120	2.0	27	0.26	670	6.2	100	7.8	27	1.5	130	5.9	100	10	27	0	.	18	100	27	27	0	.	14	100	15	27	0	.
1998	APR	1.2	190	0	27	0	.	6.1	100	5.1	27	1.2	130	1.9	110	4.7	27	0	.	12	100	18	27	0	.	14	100	9.1	27	0	.
1998	MAY	1.7	150	1.6	27	0	.	1.4	170	3.3	27	0.68	210	0	.	6.5	27	0	.	37	100	6.7	27	0	.	20	100	1.3	27	0	.
1998	JUN	0.94	230	1.5	27	0	.	0.38	500	3.4	27	0	.	5.2	100	0	27	0	.	5.9	100	4.5	27	0	.	7.1	100	7.6	27	0	.
1998	JUL	0	.	0	27	0	.	0.66	300	0	27	0	.	0	.	0.62	27	0	.	8.5	100	0	27	0	.	3.5	110	4.0	27	0	.
1998	AUG	4.6	110	0	27	0	.	2.5	130	0	27	0	.	0	.	0	27	0	.	6.8	100	0	27	0	.	4.7	100	8.6	27	0	.
1998	SEP	0	.	2.7	27	0	.	0.80	260	4.4	27	.	.	1.3	130	0	27	0	.	7.8	100	3.2	27	0	.	7.8	100	6.0	27	0	.
1998	OCT	1.2	180	18	27	0	.	21	100	11	27	0	.	0	.	0.83	27	0	.	25	100	22	27	0	.	44	100	5.9	27	0	.
1998	NOV	0.72	280	5.1	27	0	.	5.2	110	5.7	27	0	.	3.7	100	8.7	27	0	.	17	100	0	27	0	.	11	100	5.1	27	0	.
1998	DEC	1.1	210	11	27	0	.	7.2	100	3.9	27	0	.	7.0	100	5.6	27	.	.	19	100	0	27	0	.	35	100	8.8	27	0	.
1999	JAN	2.8	190	5.5	27	0	.	4.7	140	15	27	0	.	3.5	100	14	27	0	.	32	100	0	27	0	.	23	100	33	27	0	.
1999	FEB	4.4	140	8.7	27	0	.	6.3	120	9.9	27	0	.	8.4	100	9.6	27	0	.	46	100	13	27	7.1	71	76	100	3.0	27	0	.
1999	MAR	4.1	150	1.7	27	0	.	11	110	1.3	27	0	.	5.8	100	8.5	27	0	.	53	100	28	27	5.4	81	10	100	15	27	0	.
1999	APR	4.2	150	0	27	0	.	6.2	120	11	27	0	.	3.0	100	5.8	27	0	.	12	110	19	27	8.3	68	5.2	100	7.5	27	0	.
1999	MAY	2.8	190	4.9	27	0	.	3.9	150	6.4	27	0	.	1.6	110	4.9	27	0	.	46	100	9.1	27	0	.	6.2	100	4.4	27	0	.
1999	JUN	0	.	1.3	27	0	.	3.5	160	2.2	27	0	.	3.1	100	1.9	27	0	.	6.1	120	4.6	27	0	.	4.8	100	3.2	27	0	.
1999	JUL	1.1	430	1.3	27	0	.	0.84	550	8.0	27	0	.	5.3	100	1.5	27	0	.	7.2	120	13	27	0	.	7.9	100	4.8	27	0	.
1999	AUG	2.2	230	0	27	0	.	1.1	430	4.8	27	0	.	0.44	200	0.70	27	0	.	8.6	110	4.9	27	8.1	65	4.8	100	0.93	27	0	.
1999	SEP	2.0	250	8.8	27	0	.	3.2	170	5.7	27	0	.	2.2	110	0.85	27	0	.	8.5	110	8.5	27	0	.	3.5	100	6.1	27	0	.
1999	OCT	2.6	200	0	27	0	.	5.7	130	0.67	27	0	.	3.2	100	6.0	27	0	.	16	100	8.3	27	0	.	7.9	100	6.9	27	0	.
1999	NOV	2.5	210	1.2	27	0	.	2.2	230	3.3	27	0	.	0.80	140	6.1	27	0	.	5.0	130	5.9	27	0	.	3.0	100	5.3	27	0	.
1999	DEC	3.2	120	14	27	0	.	5.1	110	24	27	0	.	3.9	100	16	27	0	.	24	100	40	27	2.2	130	11	100	7.2	27	0	.
2000	JAN	0	.	0	27	0	.	4.1	100	0	27	0	.	5.2	100	11	27	0	.	8.8	100	10	27	0	.	13	100	0	27	0	.
2000	FEB	4.8	100	1.9	27	0	.	15	100	6.6	27	0	.	6.7	100	3.8	27	0	.	13	100	16	27	0	.	23	100	14	27	0	.
2000	MAR	1.0	130	2.6	27	0	.	9.4	100	9.1	27	0	.	4.9	100	3.8	27	0	.	12	100	16	27	1.1	240	12	100	19	27	0	.
2000	APR	1.2	120	3.1	27	0	.	4.5	100	4.1	27	0	.	3.9	100	22	27	0	.	14	100	38	27	0	.	10	100	18	27	0	.
2000	MAY	1.2	130	1.7	27	0	.	3.4	100	4.5	27	0	.	0.83	110	4.8	27	0	.	11	100	14	27	0	.	7.2	100	12	27	0	.
2000	JUN	0.80	150	0	27	0	.	2.1	110	0	27	0	.	5.8	100	1.8	27	0	.	12	100	5.3	27	5.0	73	4.8	100	9.2	27	0	.
2000	JUL	0.73	160	0	27	0	.	1.3	120	6.4	27	0	.	1.2	110	3.7	27	0	.	9.4	100	4.4	27	4.9	69	4.2	100	0	27	0	.
2000	AUG	1.1	130	0	27	0	.	2.9	100	2.5	27	0.068	2900	2.4	100	0	27	0	.	6.3	100	16	27	0	.	2.8	100	0	27	0	.
2000	SEP	1.4	120	1.5	27	0	.	7.3	100	8.3	27	0	.	2.9	100	0	27	0	.	6.3	100	6.2	27	0	.	1.4	110	4.7	27	0	.
2000	OCT	0.58	180	3.2	27	0	.	2.7	110	2.8	27	0	.	0	.	0	27	0	.	26	100	4.5	27	2.1	130	5.5	100	0	27	0	.
2000	NOV	1.4	120	18	27	0	.	2.6	110	20	27	0	.	2.4	100	10	27	0	.	15	100	23	27	0	.	33	100	41	27	0	.
2000	DEC	6.1	120	4.1	27	0	.	22	100	7.2	27	0	.	13	100	17	27	0	.	26	100	6.1	27	5.2	89	22	100	21	27	0	.

PHENANTHRENE (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	11	27	84	61	.	.	8.0	27	1100	58	11	100	.	.	.	.	.	.	74	27	1800	58	15	100	170	27	400	58
1992	FEB	3.3	250	.	.	190	59	6.1	160	.	.	370	58	10	100	.	.	.	.	28	100	.	.	1700	58	5.4	100	70	27	350	58
1992	MAR	.	.	5.9	27	430	58	.	.	7.2	27	420	58	5.8	110	.	.	.	.	.	.	28	27	2300	58	7.0	100	69	27	160	59
1992	APR	.	.	1.9	27	110	59	.	.	8.2	27	210	59	4.8	110	.	.	.	.	13	120	40	27	1500	58	7.4	100	27	27	180	59
1992	MAY	.	.	23	27	230	.	.	.	11	27	270	.	7.9	100	0	27	.	.	12	120	17	27	1400	.	4.3	100	27	27	96	59
1992	JUN	0	.	4.7	27	130	62	.	.	8.9	27	81	66	3.6	120	8.2	27	.	.	2.9	290	17	27	350	59	4.1	100	8.3	27	85	59
1992	JUL	0	.	0	27	600	58	2.7	310	5.4	27	220	59	2.0	150	4.8	27	.	.	2.8	290	18	27	1900	58	3.0	110	34	27	120	59
1992	AUG	.	.	.	.	520	59	.	.	.	.	280	59	1.5	180	5.2	27	.	.	.	.	19	27	980	58	3.3	110	26	27	70	59
1992	SEP	6.0	160	5.1	27	490	59	6.6	150	8.2	27	170	63	1.7	170	29	27	.	.	7.0	150	27	27	1600	58	2.6	110	22	27	96	59
1992	OCT	1.2	640	.	.	140	64	2.4	350	11	27	220	62	2.0	150	21	27	.	.	.	.	.	.	1600	58	3.6	110	12	27	76	60
1992	NOV	2.3	350	15	27	220	63	9.9	130	55	27	260	61	2.2	150	59	27	.	.	10	130	75	27	2200	58	4.2	100	69	27	300	58
1992	DEC	.	.	20	27	420	58	7.8	100	45	27	930	58	2.2	150	59	27	.	.	.	.	90	27	1700	58	14	100	110	27	360	60
1993	JAN	.	.	18	27	210	85	.	.	6.3	27	450	63	4.2	100	95	27	.	.	23	100	.	.	1300	59	6.6	100	240	27	.	.
1993	FEB	.	.	0	27	380	66	5.7	120	0	27	1200	59	7.8	100	0	27	.	.	16	100	17	27	5500	58	18	100	46	27	.	.
1993	MAR	.	.	1.2	27	230	71	5.9	120	0	27	1100	59	4.8	100	0	27	.	.	9.0	110	0	27	3900	58	13	100	18	27	.	.
1993	APR	.	.	1.4	27	120	95	.	.	19	27	330	66	16	100	8.9	27	.	.	.	.	35	27	830	59	1.9	140	66	27	.	.
1993	MAY	.	.	4.5	27	170	73	3.0	170	7.8	27	360	62	2.8	100	36	27	.	.	8.7	110	6.2	27	830	59	5.2	110	9.6	27	.	.
1993	JUN	.	.	2.8	27	320	62	0	.	6.4	27	370	60	4.1	100	12	27	.	.	2.7	180	17	27	660	59	4.2	110	17	27	.	.
1993	JUL	0	.	0	27	590	59	4.2	140	1.7	27	.	.	3.2	100	21	27	.	.	9.6	110	4.9	27	1400	58	3.3	120	28	27	.	.
1993	AUG	.	.	0	27	290	62	1.3	340	0	27	110	80	1.4	100	27	27	.	.	5.2	130	6.0	27	700	59	2.2	130	26	27	.	.
1993	SEP	0	.	8.3	27	220	71	.	.	26	27	530	61	1.0	110	30	27	.	.	8.3	110	42	27	2000	59	3.8	110	380	27	.	.
1993	OCT	.	.	.	.	170	83	.	.	0	27	320	67	3.3	100	78	27	.	.	13	100	41	27	3600	58	3.9	110	170	27	.	.
1993	NOV	0.89	480	0	27	100	130	3.6	150	0	27	380	64	4.3	100	17	27	.	.	9.3	110	63	27	2300	59	4.0	110	120	27	.	.
1993	DEC	.	.	.	.	350	60	.	.	.	.	510	59	2.0	150	55	27	.	.	.	.	40	27	2000	58	6.2	100	38	27	.	.
1994	JAN	.	.	0	27	93	85	.	.	.	.	490	59	13	100	100	27	.	.	22	110	11	27	3100	58	35	100	180	27	.	.
1994	FEB	18	120	0	27	230	62	12	130	2.2	27	750	59	9.4	100	0	27	.	.	32	110	12	27	1800	58	15	100	23	27	.	.
1994	MAR	26	110	0	27	87	77	16	120	0	27	170	63	3.3	110	39	27	.	.	38	100	2.7	27	1300	58	4.5	100	64	27	.	.
1994	APR	6.1	200	7.0	27	54	100	5.7	210	13	27	410	59	1.9	120	13	27	.	.	13	130	78	27	980	59	7.5	100	46	27	.	.
1994	MAY	8.0	160	6.3	27	230	60	10	140	12	27	700	59	1.5	130	4.8	27	.	.	20	110	0	27	310	60	5.8	100	78	27	.	.
1994	JUN	3.6	300	17	27	.	.	4.2	270	0	27	140	60	2.4	110	21	27	.	.	6.2	200	0	27	760	58	2.7	110	16	27	.	.
1994	JUL	19	110	2.8	27	300	59	5.8	200	0	27	310	59	1.4	130	14	27	.	.	18	120	0	27	1100	58	4.5	100	22	27	.	.
1994	AUG	1.7	610	7.1	27	210	60	3.0	360	3.0	27	330	59	1.3	130	11	27	.	.	9.5	150	31	27	1700	58	3.8	100	28	27	.	.
1994	SEP	2.0	540	11	27	220	60	1.1	990	0	27	110	65	2.1	110	15	27	.	.	.	.	39	27	1500	58	3.2	110	21	27	.	.
1994	OCT	2.0	520	2.0	27	350	60	3.6	300	12	27	210	61	1.4	130	13	27	.	.	14	120	11	27	1300	58	3.9	100	12	27	.	.
1994	NOV	3.7	300	20	27	150	70	4.4	250	30	27	600	59	2.5	110	34	27	.	.	36	100	51	27	2600	58	3.5	110	42	27	.	.
1994	DEC	.	.	0	27	180	85	.	.	12	27	580	60	4.4	100	60	27	.	.	15	100	0	27	2500	58	9.4	100	120	27	.	.
1995	JAN	3.6	260	8.8	27	190	59	4.3	220	.	.	600	58	1.6	110	11	27	.	.	26	110	120	27	2400	58	5.2	100	32	27	.	.
1995	FEB	3.0	300	1.4	27	210	59	6.9	160	.	.	370	58	5.9	100	0	27	.	.	46	100	76	27	2100	58	9.8	100	15	27	.	.
1995	MAR	1.3	670	3.2	27	41	61	2.9	310	20	27	390	58	7.6	100	12	27	.	.	22	110	13	27	1600	58	6.0	100	25	27	.	.
1995	APR	1.1	810	3.9	27	120	59	1.3	650	14	27	92	59	2.0	110	10	27	.	.	9.3	140	1.3	27	870	58	2.4	110	12	27	.	.
1995	MAY	1.8	480	3.6	27	240	58	4.6	210	13	27	170	58	1.6	110	8.6	27	.	.	6.0	170	30	27	640	58	2.2	110	11	27	.	.
1995	JUN	1.4	620	1.1	27	240	58	4.5	210	3.0	27	120	58	2.2	110	1.8	27	.	.	18	110	10	27	2600	58	1.9	120	35	27	.	.
1995	JUL	1.8	500	9.1	27	250	58	.	.	5.2	27	210	58	1.4	120	2.3	27	.	.	3.9	240	11	27	2300	58	2.2	110	25	27	.	.
1995	AUG	2.0	430	7.0	27	200	58	.	.	5.4	27	140	58	1.4	120	2.9	27	.	.	6.9	160	24	27	1200	58	1.7	120	9.3	27	.	.
1995	SEP	1.4	640	.	.	2800	58	3.1	300	9.2	27	200	58	2.1	110	8.2	27	.	.	12	120	4.7	27	870	58	3.3	110	5.3	27	.	.
1995	OCT	0.83	1000	.	.	110	59	4.2	230	18	27	130	59	2.3	110	9.7	27	.	.	16	110	30	27	2300	58	4.0	100	17	27	.	.
1995	NOV	3.0	310	39	27	160	59	.	.	34	27	450	58	1.7	110	84	27	.	.	21	110	130	27	1100	58	1.6	120	240	27	.	.
1995	DEC	.	.	.	.	290	62	.	.	17	27	870	59	2.1	110	54	27	.	.	.	.	23	27	6000	58	9.0	100	51	27	.	.
1996	JAN	2.5	190	26	27	330	59	16	100	24	27	610	59	6.1	100	7.9	27	.	.	33	100	43	27	3000	58	36	100	6.9	27	.	.
1996	FEB	12	110	1.9	27	200	61	7.7	110	15	27	400	59	10	100	35	27	.	.	54	100	0	27	850	58	19	100	38	27	.	.
1996	MAR	5.3	130	1.1	27	72	76	8.5	110	2.3	27	270	60	4.9	100	16	27	.	.	67	100	0	27	740	59	11	100	67	27	.	.
1996	APR	1.5	280	2.5	27	120	64	2.9	170	0	27	100	66	1.7	120	15	27	.	.	15	100	20	27	980	58	3.2	100	11	27	.	.
1996	MAY	1.7	260	3.3	27	100	62	3.5	150	0	27	99	64	2.7	110	13	27	.	.	4.3	140	5.0	27	680	58	2.1	110	19	27	.	.
1996	JUN	1.4	310	2.4	27	210	59	2.5	190	4.9	27	680	58	3.5	100	18	27	.	.	7.0	120	12	27	1000	58	2.8	100	22	27	.	.
1996	JUL	1.3	320	3.5	27	220	59	1.3	330	3.1	27	160	59	4.0	100	21	27	.	.	9.0	110	1.6	27	770	58	1.4	110	9.5	27	.	.
1996	AUG	0.76	540	4.0	27	300	59	1.4	310	0	27	200	59	1.3	130	9.1	27	.	.	5.4	120	0.53	27	740	58	5.6	100	7.5	27	.	.
1996	SEP	2.0	220	2.8	27	370	59	1.3	330	0.45	27	270	59	1.3	130	14	27	.	.	6.4	120	2.9	27	740	58	2.2	100	24	27	.	.
1996	OCT	3.7	150	4.2	27	210	61	4.2	140	0.86	27	120	64	5.9	100	9.4	27	.	.	8.1	110	0.98	27	470	59	12	100	25	27	.	.
1996	NOV	2.1	220	15	27	350	59	2.5	190	0.88	27	260	60	11	100	25	27	.	.	5.1	130	7.8	27	670	59	12	100	27	27	.	.
1996	DEC	.	.	38	27	500	58	7.4	150	56	27	350	58	.	.	55	27	.	.	36	100	45	27	1200	58	14	100	78	27	.	.

PHENANTHRENE (ng/m ^{2}/day)																													
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO			
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	8.2	120	34	27	95	98	8.1	120	29	27	380	60	29	100	54	27	120	64	16	100	21	27	980	59	11	100	79	27	210	59
1997	FEB	3.3	170	3.5	27	110	78	2.7	200	28	27	130	68	7.1	100	30	27	89	66	37	100	43	27	1200	59	10	100	310	27	290	59
1997	MAR	2.8	190	8.4	27	40	150	4.3	150	12	27	70	91	4.4	100	44	27	98	65	17	100	62	27	1000	59	9.0	100	57	27	290	59
1997	APR	3.1	180	1.6	27	220	63	5.9	130	5.7	27	270	61	13	100	25	27	100	63	21	100	37	27	1200	58	7.6	100	28	27	90	60
1997	MAY	2.4	220	8.0	27	140	67	3.6	170	12	27	110	70	2.5	100	45	27	57	73	15	100	49	27	880	59	3.9	110	39	27	97	60
1997	JUN	2.0	260	5.1	27	270	59	1.8	280	13	27	400	59	6.9	100	19	27	54	65	8.2	120	30	27	1000	58	4.0	110	30	27	110	59
1997	JUL	1.3	390	5.8	27	300	59	1.6	320	4.2	27	320	59	1.5	100	53	27	97	60	5.7	130	17	27	600	59	4.7	110	23	27	130	59
1997	AUG	2.9	190	1.3	27	240	60	3.3	170	12	27	260	59	2.4	100	35	27	140	60	8.7	110	30	27	1100	58	7.6	100	45	27	65	60
1997	SEP	1.5	330	5.3	27	260	61	3.4	170	4.7	27	380	59	2.2	100	62	27	82	64	10	110	26	27	1300	58	4.1	110	47	27	230	59
1997	OCT	2.4	220	11	27	230	63	5.7	130	10	27	440	59	5.5	100	20	27	150	61	30	100	17	27	1800	58	4.0	110	21	27	99	59
1997	NOV	4.3	150	5.4	27	400	60	12	110	3.8	27	630	59	3.6	100	24	27	.	.	22	100	24	27	1100	59	4.2	110	130	27	150	59
1997	DEC	3.0	170	7.5	27	70	76	2.8	180	13	27	480	59	2.5	110	0	27	.	.	20	100	11	27	2200	58	18	100	29	27	.	.
1998	JAN	3.0	160	10	27	180	100	5.3	120	29	27	390	67	11	100	81	27	180	61	29	100	68	27	2500	59	5.2	100	1300	27	740	58
1998	FEB	6.4	120	0	27	140	110	9.9	110	4.3	27	280	68	6.7	100	72	27	91	64	38	100	17	27	2800	59	30	100	110	27	420	58
1998	MAR	4.0	140	3.4	27	110	140	7.4	110	7.8	27	160	110	3.1	100	19	27	85	68	20	100	46	27	320	80	9.3	100	55	27	100	59
1998	APR	2.1	200	0.74	27	120	120	7.1	110	8.7	27	170	86	3.6	100	13	27	42	82	14	100	23	27	560	62	8.1	100	18	27	90	59
1998	MAY	1.8	230	2.4	27	180	82	1.5	260	3.7	27	140	87	0.88	120	17	27	66	65	11	100	11	27	1200	59	3.2	110	16	27	150	58
1998	JUN	1.7	230	6.2	27	220	72	1.5	270	5.9	27	160	73	0.89	120	5.2	27	51	66	4.3	130	10	27	1100	59	1.8	120	20	27	120	58
1998	JUL	1.3	290	0	27	150	79	1.5	270	0	27	160	70	0.54	150	8.6	27	45	67	6.8	110	0	27	690	59	1.4	130	14	27	100	58
1998	AUG	3.1	150	0	27	470	61	3.0	160	0	27	200	67	0.44	170	6.0	27	37	70	7.1	110	0	27	1300	59	3.3	110	25	27	66	58
1998	SEP	0.87	430	5.0	27	95	120	0.62	600	5.3	27	.	.	1.2	110	7.1	27	38	76	4.1	130	4.4	27	1200	59	2.3	110	15	27	190	58
1998	OCT	1.5	260	19	27	150	120	6.5	110	14	27	190	85	2.1	100	5.4	27	56	75	8.7	110	16	27	670	61	5.6	100	18	27	170	58
1998	NOV	2.0	210	8.0	27	150	120	5.1	120	9.4	27	220	86	1.8	100	25	27	140	62	13	100	0	27	1300	60	3.6	110	25	27	360	58
1998	DEC	2.6	200	18	27	110	86	4.7	140	4.8	27	410	60	3.2	100	92	27	.	.	19	100	26	27	1300	59	12	100	47	27	340	59
1999	JAN	3.9	240	12	27	160	61	9.7	130	28	27	350	59	1.1	110	47	27	150	61	24	110	0	27	1900	58	7.9	100	130	27	570	58
1999	FEB	4.9	200	7.6	27	230	60	8.2	150	12	27	690	58	5.0	100	31	27	110	62	51	100	17	27	1500	58	41	100	12	27	500	58
1999	MAR	5.5	180	3.0	27	220	59	15	120	3.2	27	390	59	2.3	100	46	27	70	66	56	100	52	27	1100	58	9.0	100	120	27	210	59
1999	APR	4.8	200	0	27	200	59	6.2	170	25	27	120	61	1.5	100	57	27	64	66	11	130	56	27	740	58	2.5	100	50	27	96	61
1999	MAY	8.2	150	6.1	27	320	59	3.9	240	4.7	27	260	59	0.93	110	19	27	53	65	33	100	12	27	1100	58	1.9	110	12	27	87	60
1999	JUN	1.4	610	2.7	27	160	59	5.5	190	3.7	27	190	59	0.82	110	6.9	27	38	64	9.0	140	8.4	27	990	58	1.2	110	9.4	27	45	61
1999	JUL	1.6	560	11	27	310	58	2.8	320	13	27	260	58	1.5	100	14	27	77	60	5.1	200	23	27	960	58	1.6	110	15	27	88	59
1999	AUG	1.5	570	4.5	27	400	58	2.7	340	6.0	27	190	59	0.97	110	8.6	27	48	63	7.4	150	10	27	1200	58	1.3	110	9.8	27	56	60
1999	SEP	3.3	280	12	27	390	59	4.9	200	5.8	27	230	59	0.66	110	10	27	61	63	8.4	140	14	27	1100	58	1.4	110	17	27	130	59
1999	OCT	2.4	370	24	27	240	59	8.0	150	0.63	27	470	58	0.56	120	17	27	110	61	13	120	15	27	1500	58	2.5	100	17	27	130	60
1999	NOV	2.6	340	2.5	27	260	59	4.6	210	5.8	27	190	60	0.34	150	45	27	100	64	6.2	170	22	27	820	58	0.93	120	21	27	330	59
1999	DEC	3.9	140	18	27	240	94	5.2	120	26	27	210	93	2.4	100	45	27	120	66	19	100	68	27	1400	60	7.2	100	29	27	280	58
2000	JAN	3.9	110	0	27	83	60	12	100	0	27	430	58	4.1	100	34	27	87	61	15	100	27	27	1300	58	7.0	100	240	27	300	58
2000	FEB	6.4	100	4.7	27	270	58	22	100	9.5	27	580	58	4.6	100	15	27	110	60	14	100	31	27	2200	58	15	100	50	27	520	58
2000	MAR	3.4	120	4.9	27	97	59	11	100	13	27	240	58	2.1	120	17	27	95	59	13	100	26	27	480	58	3.4	100	58	27	170	58
2000	APR	2.8	120	8.9	27	160	59	8.0	100	16	27	160	59	2.2	120	110	27	59	61	15	100	130	27	870	58	3.6	100	140	27	95	59
2000	MAY	1.7	160	7.9	27	120	59	3.3	120	13	27	190	58	1.4	130	65	27	66	60	11	100	44	27	1500	58	2.1	110	120	27	130	58
2000	JUN	2.0	140	13	27	200	58	1.3	190	11	27	190	58	3.1	110	0	27	65	59	6.1	110	26	27	1400	58	1.4	110	100	27	130	58
2000	JUL	0	.	0	27	230	58	0	.	5.8	27	220	58	1.1	150	30	27	44	60	7.7	100	12	27	1100	58	1.8	110	37	27	110	58
2000	AUG	2.3	130	4.5	27	230	58	2.9	120	5.4	27	170	58	1.3	140	55	27	57	59	7.5	100	40	27	980	58	1.1	120	31	27	90	58
2000	SEP	2.1	140	7.6	27	200	58	4.0	110	20	27	340	58	2.0	120	19	27	90	59	5.7	110	24	27	1600	58	2.0	110	19	27	140	58
2000	OCT	2.2	140	7.7	27	95	59	4.1	110	10	27	170	59	0.99	160	6.6	27	57	60	13	100	14	27	1600	58	1.4	110	0	27	100	58
2000	NOV	3.3	120	41	27	180	59	3.7	110	34	27	260	58	3.2	110	17	27	110	59	16	100	59	27	1300	58	2.6	100	140	27	360	58
2000	DEC	5.9	180	12	27	370	59	34	100	18	27	990	58	3.5	100	44	27	340	59	21	110	24	27	1400	58	5.5	100	44	27	450	59

PYRENE (ng/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	11	27	8.0	210	.	.	4.1	27	110	60	11	100	.	.	.	.	.	.	53	27	210	59	55	100	0	27	66	59
1992	FEB	4.2	190	.	.	15	120	7.0	140	.	.	38	69	9.5	100	.	.	.	.	33	100	.	.	190	59	10	100	0	27	72	58
1992	MAR	.	.	6.1	27	230	59	.	.	5.3	27	50	64	11	100	.	.	.	.	.	.	23	27	280	59	7.4	100	0	27	24	60
1992	APR	.	.	1.7	27	20	86	.	.	6.1	27	23	82	6.0	100	.	.	.	.	16	110	38	27	130	59	10	100	0	27	17	60
1992	MAY	.	.	9.3	27	38	.	.	.	12	27	31	.	10	100	0	27	.	.	14	110	11	27	140	.	5.2	100	0	27	20	59
1992	JUN	2.2	330	4.4	27	31	67	.	.	10	27	15	90	3.7	100	0	27	.	.	3.6	220	20	27	81	60	5.6	100	0	27	22	59
1992	JUL	6.7	140	0	27	100	59	3.8	210	5.8	27	36	65	2.3	110	0	27	.	.	4.8	180	11	27	460	58	3.9	100	0	27	19	59
1992	AUG	.	.	.	.	180	59	.	.	.	27	45	65	3.5	100	0	27	.	.	.	.	13	27	150	59	3.7	100	0	27	10	62
1992	SEP	9.8	120	6.1	27	100	60	10	120	9.0	27	21	90	3.3	100	0	27	.	.	8.7	130	23	27	210	59	2.2	110	0	27	12	62
1992	OCT	1.7	420	.	.	17	99	2.8	270	8.3	27	28	81	1.8	120	0	27	.	.	.	.	.	.	470	58	4.0	100	0	27	13	62
1992	NOV	2.3	320	14	27	25	91	10	120	45	27	29	83	2.4	110	0	27	.	.	10	120	80	27	520	58	4.2	100	0	27	55	59
1992	DEC	.	.	16	27	56	61	11	100	21	27	120	59	2.4	110	0	27	.	.	.	.	50	27	240	58	23	100	0	27	62	59
1993	JAN	.	.	16	27	19	62	.	.	5.9	27	42	59	4.9	100	0	27	.	.	35	100	.	.	220	58	6.5	100	0	27	.	.
1993	FEB	.	.	0	27	34	59	7.5	130	0	27	120	58	6.8	100	0	27	.	.	17	110	15	27	380	58	40	100	0	27	.	.
1993	MAR	.	.	0.98	27	19	60	7.3	140	0	27	150	58	6.2	100	0	27	.	.	16	110	0	27	350	58	29	100	0	27	.	.
1993	APR	.	.	0	27	4.3	91	.	.	20	27	38	59	24	100	0	27	.	.	.	.	35	27	190	58	0.84	150	0	27	.	.
1993	MAY	.	.	2.4	27	18	60	2.7	260	7.1	27	26	59	4.4	100	0	27	.	.	6.3	140	4.4	27	61	58	3.2	100	0	27	.	.
1993	JUN	.	.	1.6	27	16	60	3.9	200	5.8	27	48	58	3.6	100	0	27	.	.	3.6	210	15	27	79	58	2.4	110	0	27	.	.
1993	JUL	0.72	930	0	27	54	58	2.3	300	0	27	.	.	6.8	100	0	27	.	.	11	120	4.5	27	230	58	3.8	100	0	27	.	.
1993	AUG	.	.	0	27	26	59	1.9	370	0	27	13	61	2.1	100	0	27	.	.	5.9	150	4.9	27	97	58	1.6	120	0	27	.	.
1993	SEP	0	.	5.8	27	30	59	.	.	32	27	68	58	1.4	100	0	27	.	.	13	110	40	27	190	58	3.9	100	0	27	.	.
1993	OCT	.	.	.	.	19	61	.	.	0	27	56	59	5.2	100	0	27	.	.	17	110	38	27	560	58	3.3	100	0	27	.	.
1993	NOV	1.1	630	0	27	9.4	71	3.8	200	2.6	27	49	59	6.2	100	0	27	.	.	13	110	49	27	370	58	3.8	100	25	27	.	.
1993	DEC	.	.	.	.	42	72	.	.	.	27	69	63	3.1	110	0	27	.	.	.	.	28	27	430	58	11	100	0	27	.	.
1994	JAN	.	.	0	27	6.2	180	.	.	.	27	48	61	7.7	100	0	27	.	.	30	100	10	27	280	58	27	100	0	27	.	.
1994	FEB	11	130	0	27	21	73	12	120	1.5	27	40	62	5.1	100	0	27	.	.	33	100	11	27	140	59	14	100	0	27	.	.
1994	MAR	20	110	0	27	.	.	14	120	0	27	.	.	3.7	100	0	27	.	.	50	100	3.1	27	160	59	4.7	100	0	27	.	.
1994	APR	2.2	420	5.6	27	0	.	5.8	180	8.2	27	22	69	2.1	100	0	27	.	.	14	120	64	27	76	60	8.0	100	0	27	.	.
1994	MAY	5.9	180	5.4	27	7.0	110	9.8	140	0	27	33	62	1.0	100	0	27	.	.	15	120	0	27	15	79	7.7	100	0	27	.	.
1994	JUN	1.7	530	5.2	27	.	.	2.8	330	0	27	13	72	3.2	100	0	27	.	.	6.4	170	0	27	55	59	1.9	100	0	27	.	.
1994	JUL	17	110	1.4	27	24	62	7.0	160	0	27	30	61	2.4	100	0	27	.	.	11	130	0	27	71	59	4.8	100	0	27	.	.
1994	AUG	1.3	690	4.1	27	20	66	3.9	250	2.7	27	19	67	3.3	100	0	27	.	.	21	110	14	27	130	59	3.8	100	0	27	.	.
1994	SEP	1.6	580	13	27	25	64	0.69	1300	0	27	17	70	5.0	100	0	27	.	.	.	.	25	27	130	59	3.8	100	0	27	.	.
1994	OCT	2.8	340	0	27	24	70	7.0	160	11	27	19	72	1.1	100	0	27	.	.	30	100	7.2	27	130	59	4.3	100	0	27	.	.
1994	NOV	4.0	250	15	27	8.4	140	8.7	140	26	27	65	60	3.2	100	0	27	.	.	49	100	38	27	250	58	3.9	100	11	27	.	.
1994	DEC	.	.	5.2	27	24	60	.	.	9.7	27	75	58	4.1	100	36	27	.	.	17	110	0	27	230	58	10	100	0	27	.	.
1995	JAN	2.9	340	7.1	27	9.0	87	5.5	200	.	.	32	60	0.84	110	7.6	27	.	.	24	110	74	27	330	58	5.9	100	21	27	.	.
1995	FEB	1.8	530	0.89	27	5.2	130	6.9	170	.	.	14	70	5.2	100	0	27	.	.	59	100	47	27	110	59	24	100	11	27	.	.
1995	MAR	0	.	2.4	27	1.5	320	3.9	260	17	27	30	60	7.0	100	10	27	.	.	33	100	17	27	140	58	13	100	31	27	.	.
1995	APR	0.87	1100	2.6	27	6.7	87	1.9	500	18	27	5.0	110	1.2	110	7.9	27	.	.	18	110	1.1	27	72	59	2.5	100	9.6	27	.	.
1995	MAY	2.6	380	2.0	27	6.2	83	7.6	160	18	27	7.7	76	0.81	110	7.8	27	.	.	11	130	34	27	44	59	2.7	100	5.6	27	.	.
1995	JUN	0.97	980	0.59	27	8.8	69	2.7	360	1.0	27	4.7	86	2.5	100	2.2	27	.	.	23	110	4.6	27	300	58	1.7	100	22	27	.	.
1995	JUL	2.9	340	2.9	27	300	58	.	.	4.1	27	18	61	1.8	100	2.8	27	.	.	7.6	160	7.9	27	280	58	4.9	100	10	27	.	.
1995	AUG	2.8	360	3.7	27	19	61	.	.	3.1	27	15	62	1.4	100	3.0	27	.	.	12	130	24	27	220	58	1.6	100	7.1	27	.	.
1995	SEP	0.88	1100	.	.	1100	58	4.0	250	11	27	21	61	4.3	100	7.6	27	.	.	18	110	3.8	27	84	58	3.9	100	3.3	27	.	.
1995	OCT	0.61	1500	.	.	10	77	4.2	240	14	27	14	68	2.6	100	13	27	.	.	22	110	30	27	390	58	6.0	100	10	27	.	.
1995	NOV	3.5	290	38	27	4.1	140	.	.	28	27	28	62	1.4	100	86	27	.	.	29	110	110	27	100	59	1.8	100	96	27	.	.
1995	DEC	.	.	.	.	14	94	.	.	7.5	27	57	61	4.2	100	51	27	.	.	.	.	17	27	600	58	17	100	42	27	.	.
1996	JAN	2.2	360	15	27	22	66	15	110	14	27	27	63	5.8	100	8.1	27	.	.	41	100	27	27	340	58	41	100	8.5	27	.	.
1996	FEB	5.5	170	1.1	27	3.2	200	5.9	160	10	27	18	68	8.0	100	51	27	.	.	62	100	0	27	99	59	29	100	39	27	.	.
1996	MAR	6.3	150	0.65	27	2.7	230	11	120	2.0	27	18	68	5.5	100	18	27	.	.	100	100	1.5	27	46	60	8.8	100	100	27	.	.
1996	APR	1.5	520	2.6	27	11	76	2.7	300	0	27	7.4	95	3.2	100	19	27	.	.	22	110	13	27	67	59	3.7	100	15	27	.	.
1996	MAY	2.2	360	2.7	27	9.5	72	3.9	220	0	27	4.5	120	4.0	100	12	27	.	.	6.4	150	3.3	27	100	59	2.4	100	16	27	.	.
1996	JUN	1.1	720	0.82	27	17	63	2.1	370	3.6	27	57	59	4.9	100	4.3	27	.	.	8.7	130	4.6	27	100	58	3.6	100	4.6	27	.	.
1996	JUL	1.5	510	4.6	27	25	61	1.5	520	1.6	27	18	62	5.5	100	11	27	.	.	17	110	1.1	27	76	59	1.1	100	4.3	27	.	.
1996	AUG	0.67	1100	1.9	27	41	59	0.97	780	0	27	35	59	4.3	100	6.8	27	.	.	6.8	150	0.34	27	73	58	7.3	100	4.8	27	.	.
1996	SEP	2.6	300	2.2	27	34	60	1.1	690	0.34	27	21	62	1.1	110	14	27	.	.	7.9	140	3.5	27	150	58	2.9	100	7.6	27	.	.
1996	OCT	5.6	170	1.7	27	29	62	5.5	170	0.47	27	9.8	83	7.5	100	7.9	27	.	.	11	120	0.51	27	58	59	23	100	17	27	.	.
1996	NOV	2.7	300	8.3	27	44	60	2.5	320	0.84	27	21	65	14	100	11	27	.	.	7.1	140	5.7	27	73	59	17	100	19	27	.	.
1996	DEC	.	.	15	27	28	61	8.3	150	39	27	22	62	.	.	55	27	.	.	47	100	38	27	130	58	17	100	89	27	.	.

PYRENE (ng/m ^{2}/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	3.7	210	23	27	2.8	1600	7.2	140	19	27	39	99	18	100	23	27	6.9	72	12	120	17	27	79	85	9.2	100	41	27	27	61
1997	FEB	2.6	290	1.8	27	6.1	570	2.2	330	16	27	9.4	310	4.7	100	11	27	8.3	66	42	100	25	27	65	82	10	100	410	27	36	60
1997	MAR	1.4	500	6.7	27	1.5	2000	3.9	200	11	27	2.3	1300	6.7	100	21	27	9.5	64	18	110	61	27	81	76	12	100	45	27	45	59
1997	APR	2.5	300	1.2	27	22	140	4.9	170	4.8	27	16	190	17	100	16	27	7.0	67	23	100	28	27	130	63	8.8	100	19	27	12	66
1997	MAY	2.7	270	6.1	27	6.7	400	4.7	180	10	27	5.8	470	2.1	100	11	27	6.8	68	20	110	37	27	80	73	4.7	100	17	27	11	66
1997	JUN	2.7	280	2.2	27	12	180	1.3	550	13	27	30	92	15	100	7.3	27	7.6	63	9.1	130	18	27	75	67	6.9	100	24	27	18	60
1997	JUL	1.1	650	2.5	27	36	84	0.89	790	3.3	27	34	83	1.6	100	27	27	34	59	5.7	160	9.1	27	58	71	8.3	100	11	27	22	59
1997	AUG	4.6	180	0.44	27	31	91	4.6	180	8.2	27	30	95	3.1	100	14	27	36	59	11	120	26	27	110	63	19	100	11	27	23	59
1997	SEP	1.1	620	2.4	27	16	200	4.4	190	3.7	27	55	77	3.1	100	170	27	20	60	17	110	21	27	120	63	4.3	100	31	27	28	59
1997	OCT	2.6	280	9.0	27	12	290	7.4	140	9.1	27	32	120	7.9	100	3.0	27	23	60	35	100	10	27	150	62	7.8	100	16	27	18	61
1997	NOV	3.6	220	3.1	27	18	200	13	110	2.3	27	21	160	3.8	100	8.4	27	.	.	23	100	17	27	78	78	6.6	100	78	27	25	61
1997	DEC	2.0	380	4.2	27	3.6	180	2.0	380	8.5	27	52	59	3.2	100	21	27	.	.	27	100	11	27	320	58	29	100	16	27	.	.
1998	JAN	2.0	260	6.0	27	3.4	410	4.4	150	24	27	14	100	18	100	59	27	45	59	27	100	49	27	220	59	7.4	100	680	27	130	58
1998	FEB	6.8	120	0	27	11	120	9.7	110	3.3	27	25	70	11	100	34	27	19	59	50	100	9.6	27	330	58	52	100	38	27	100	58
1998	MAR	3.3	170	1.8	27	2.8	470	7.9	120	5.7	27	9.6	150	5.2	100	13	27	20	60	20	100	34	27	16	110	12	100	31	27	15	66
1998	APR	2.2	240	0.28	27	6.8	170	11	110	7.6	27	14	92	5.6	100	14	27	7.9	64	18	100	16	27	28	71	14	100	19	27	16	63
1998	MAY	2.2	240	1.7	27	15	88	1.5	320	3.0	27	20	73	2.2	110	13	27	11	60	21	100	6.5	27	110	59	6.5	100	13	27	42	59
1998	JUN	1.8	280	3.7	27	22	71	1.2	410	4.4	27	25	66	2.6	110	5.6	27	14	59	5.5	130	7.1	27	100	59	4.5	100	16	27	18	61
1998	JUL	1.2	400	0	27	16	80	1.3	370	0	27	39	62	0.71	160	5.0	27	14	60	17	100	0	27	68	60	1.4	100	11	27	22	60
1998	AUG	6.7	120	0	27	76	60	3.6	170	0	27	43	61	0.84	150	3.0	27	11	60	8.8	110	0	27	140	59	5.3	100	20	27	15	60
1998	SEP	0.43	1100	3.0	27	7.5	160	0.83	580	3.8	27	.	.	2.1	110	3.1	27	7.7	64	6.4	120	2.7	27	96	59	5.3	100	14	27	26	60
1998	OCT	1.1	460	20	27	19	95	13	110	11	27	51	63	3.2	100	4.1	27	8.7	65	14	110	15	27	72	61	28	100	16	27	83	59
1998	NOV	1.2	390	5.0	27	11	140	4.1	150	6.0	27	19	92	3.1	100	20	27	19	60	15	100	0	27	98	60	7.2	100	21	27	46	59
1998	DEC	1.4	510	13	27	3.4	1200	6.3	150	3.1	27	35	110	3.0	100	21	27	.	.	21	110	11	27	87	74	17	100	26	27	57	59
1999	JAN	3.4	290	7.6	27	6.2	200	4.0	260	20	27	14	88	2.3	100	31	27	17	59	27	110	0	27	140	59	21	100	100	27	57	59
1999	FEB	5.0	210	6.0	27	9.1	140	8.4	150	10	27	40	63	6.5	100	23	27	22	59	68	100	12	27	66	61	91	100	11	27	190	58
1999	MAR	5.3	210	2.0	27	13	96	20	110	2.2	27	7.0	150	4.6	100	16	27	15	59	71	100	45	27	74	60	15	100	49	27	37	59
1999	APR	5.8	190	0	27	2.8	310	6.4	180	20	27	5.8	160	2.9	100	11	27	12	59	15	120	33	27	59	61	4.7	100	11	27	14	62
1999	MAY	4.7	220	4.9	27	15	83	4.8	220	4.4	27	22	68	1.4	100	6.1	27	9.7	59	58	100	8.0	27	73	59	3.6	100	8.3	27	11	62
1999	JUN	0.56	1700	1.4	27	11	87	6.1	190	2.3	27	25	63	2.4	100	2.9	27	8.8	59	13	120	4.3	27	100	59	3.4	100	6.0	27	7.6	63
1999	JUL	1.1	860	2.2	27	54	60	2.0	490	11	27	36	61	3.4	100	3.3	27	21	58	4.8	220	17	27	100	59	4.6	100	9.6	27	19	59
1999	AUG	1.5	640	3.1	27	150	59	2.4	410	5.6	27	23	65	1.3	100	6.6	27	18	59	12	130	6.6	27	100	59	2.2	100	4.8	27	32	59
1999	SEP	3.3	310	9.4	27	25	68	8.0	160	6.2	27	21	69	1.8	100	5.8	27	14	59	11	130	11	27	80	59	2.3	100	14	27	34	59
1999	OCT	2.7	370	16	27	23	77	10	140	0.57	27	31	66	1.3	100	15	27	23	59	20	110	13	27	120	59	5.8	100	17	27	23	60
1999	NOV	2.6	390	1.7	27	21	82	4.8	220	5.2	27	14	98	0.36	110	19	27	17	59	6.3	180	12	27	110	59	1.2	110	15	27	61	59
1999	DEC	3.2	180	13	27	19	100	5.7	130	18	27	8.6	170	4.6	100	30	27	13	64	27	100	53	27	130	60	13	100	19	27	47	59
2000	JAN	2.2	100	0	27	5.9	62	8.0	100	0	27	32	58	4.3	100	29	27	13	62	16	100	16	27	78	58	11	100	140	27	52	58
2000	FEB	7.0	100	3.3	27	25	59	25	100	7.5	27	26	58	6.4	100	9.1	27	11	63	14	100	23	27	160	58	26	100	31	27	84	58
2000	MAR	1.6	100	0	27	5.4	62	14	100	11	27	10	59	2.5	100	8.9	27	19	59	18	100	21	27	30	58	6.2	100	25	27	31	58
2000	APR	1.7	100	4.8	27	0	.	8.8	100	0	27	0	.	2.7	100	46	27	13	60	18	100	64	27	67	58	5.9	100	27	27	18	59
2000	MAY	1.7	100	2.5	27	0	.	2.5	100	9.1	27	17	59	1.6	100	34	27	12	60	12	100	24	27	120	58	3.5	100	26	27	17	59
2000	JUN	0	.	0	27	3.9	62	0	.	0	27	12	59	5.8	100	2.5	27	16	59	6.5	100	11	27	150	58	1.3	100	22	27	24	58
2000	JUL	0	.	0	27	23	58	0	.	6.1	27	30	58	1.5	100	9.8	27	12	59	7.0	100	5.8	27	100	58	2.9	100	24	27	36	58
2000	AUG	1.7	100	1.4	27	14	59	0.63	120	4.4	27	17	58	1.6	100	15	27	15	59	7.0	100	28	27	89	58	1.3	100	14	27	19	59
2000	SEP	0	.	3.9	27	17	59	0	.	16	27	30	58	2.4	100	3.4	27	18	59	6.7	100	14	27	140	58	3	100	8.3	27	30	58
2000	OCT	0.90	110	7.0	27	5.8	61	3.1	100	5.3	27	18	59	1.1	100	3.5	27	10	61	18	100	9.6	27	300	58	2.8	100	40	27	24	59
2000	NOV	0	.	31	27	13	59	1.2	100	30	27	23	59	4.8	100	7.8	27	15	60	20	100	42	27	130	58	5.4	100	98	27	71	58
2000	DEC	5.0	220	7.3	27	35	67	35	100	15	27	89	60	11	100	39	27	46	58	24	110	15	27	140	59	14	100	39	27	71	59

ARSENIC (µg/m²/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	MAR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	APR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	MAY	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	JUN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	JUL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	AUG	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	SEP	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	OCT	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	NOV	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	DEC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1993	JAN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.79	27	.	.	.	.	.	.	.	.	.	.	0.59	27	.	.
1993	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.45	27	.	.	.	.	.	.	.	.	.	.	0.23	27	.	.
1993	MAR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.30	27	.	.	.	.	.	.	.	.	.	.	0.16	27	.	.
1993	APR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.075	27	.	.	.	.	.	.	.	.	.	.	0.61	27	.	.
1993	MAY	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.11	27	.	.	.	.	.	.	.	.	.	.	0.054	27	.	.
1993	JUN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.063	27	.	.	.	.	.	.	.	.	.	.	0.14	27	.	.
1993	JUL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.098	27	.	.	.	.	.	.	.	.	.	.	0.16	27	.	.
1993	AUG	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.11	27	.	.	.	.	.	.	.	.	.	.	0.18	27	.	.
1993	SEP	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.19	27	.	.	.	.	.	.	.	.	.	.	0.13	27	.	.
1993	OCT	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15	27	.	.	.	.	.	.	.	.	.	.	0.29	27	.	.
1993	NOV	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.45	27	.	.	.	.	.	.	.	.	.	.	0.11	27	.	.
1993	DEC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1994	JAN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.19	27	.	.	.	.	.	.	.	.	.	.	0.22	27	.	.
1994	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.064	27	.	.	.	.	.	.	.	.	.	.	0.24	27	.	.
1994	MAR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.13	27	.	.	.	.	.	.	.	.	.	.	0.17	27	.	.
1994	APR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.25	27	.	.	.	.	.	.	.	.	.	.	0.14	27	.	.
1994	MAY	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.082	27	.	.	.	.	.	.	.	.	.	.	0.38	27	.	.
1994	JUN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.068	27	.	.	.	.	.	.	.	.	.	.	0.051	27	.	.
1994	JUL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15	27	.	.	.	.	.	.	.	.	.	.	0.055	27	.	.
1994	AUG	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.16	27	.	.	.	.	.	.	.	.	.	.	0.21	27	.	.
1994	SEP	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.067	27	.	.	.	.	.	.	.	.	.	.	0.16	27	.	.
1994	OCT	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.040	27	.	.	.	.	.	.	.	.	.	.	0.054	27	.	.
1994	NOV	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.27	27	.	.	.	.	.	.	.	.	.	.	0.32	27	.	.
1994	DEC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.10	27	.	.	.	.	.	.	.	.	.	.	0.56	27	.	.
1995	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.011	120	0.44	27	.	.	.	.	.	.	.	.	0.017	110	0.21	27	.	.
1995	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.050	100	0.057	27	.	.	.	.	.	.	.	.	0.087	100	0.090	27	.	.
1995	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.10	100	0.066	27	.	.	.	.	.	.	.	.	0.058	100	0.31	27	.	.
1995	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.035	100	0.068	27	.	.	.	.	.	.	.	.	0.045	100	0.12	27	.	.
1995	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.032	100	0.16	27	.	.	.	.	.	.	.	.	0.039	100	0.069	27	.	.
1995	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.051	100	0.056	27	.	.	.	.	.	.	.	.	0	180	0	27	.	.
1995	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.012	120	0.051	27	.	.	.	.	.	.	.	.	0.041	100	0.052	27	.	.
1995	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.030	100	0.065	27	.	.	.	.	.	.	.	.	0.037	100	0.15	27	.	.
1995	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.035	100	0.070	27	.	.	.	.	.	.	.	.	0.062	100	0.016	27	.	.
1995	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.092	100	0	27	.	.	.	.	.	.	.	.	0.035	100	0.70	27	.	.
1995	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.027	100	0.093	27	.	.	.	.	.	.	.	.	0.039	100	0.67	27	.	.
1995	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.11	100	0.63	27	.	.	.	.	.	.	.	.	0.13	100	0.26	27	.	.
1996	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.056	100	0.099	27	.	.	.	.	.	.	.	.	0.17	100	0.085	27	.	.
1996	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.31	100	0.24	27	.	.	.	.	.	.	.	.	0.19	100	0.038	27	.	.
1996	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.060	100	0	27	.	.	.	.	.	.	.	.	0.11	100	0.26	27	.	.
1996	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.80	100	0.088	27	.	.	.	.	.	.	.	.	0.042	100	0.10	27	.	.
1996	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.017	110	0.16	27	.	.	.	.	.	.	.	.	0.026	100	0.051	27	.	.
1996	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.037	100	0.094	27	.	.	.	.	.	.	.	.	0.12	100	0.13	27	.	.
1996	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.070	27	.	.	.	.	.	.	.	.	0.049	100	0.065	27	.	.
1996	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.034	100	0.23	27	.	.	.	.	.	.	.	.	0.097	100	0.056	27	.	.
1996	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.083	100	0.20	27	.	.	.	.	.	.	.	.	0.061	100	0.15	27	.	.
1996	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.051	100	0.042	27	.	.	.	.	.	.	.	.	0.072	100	0.051	27	.	.
1996	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.12	100	0.042	27	.	.	.	.	.	.	.	.	0.13	100	0.069	27	.	.
1996	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.47	100	0.79	27	.	.	.	.	.	.	.	.	0.16	100	1.3	27	.	.

ARSENIC (µg/m^2/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.27	100	.	.	.	.	.	.	.	.	.	.	0.10	100	.	.	.	.
1997	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.053	100	.	.	.	.	.	.	.	.	.	.	0.086	100	.	.	.	.
1997	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.072	100	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.
1997	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.064	100	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.
1997	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.034	100	.	.	.	.	.	.	.	.	.	.	0.082	100	.	.	.	.
1997	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.057	100	.	.	.	.	.	.	.	.	.	.	0.12	100	.	.	.	.
1997	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.022	110	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.
1997	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.	.	.	.	.	.	.	0.097	100	.	.	.	.
1997	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.069	100	.	.	.	.	.	.	.	.	.	.	0.14	100	.	.	.	.
1997	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.13	100	.	.	.	.	.	.	.	.	.	.	0.12	100	.	.	.	.
1997	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.033	100	.	.	.	.	.	.	.	.	.	.	0.051	100	.	.	.	.
1997	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.028	100	.	.	.	.	.	.	.	.	.	.	0.70	100	.	.	.	.
1998	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.084	100	.	.	.	.	.	.	.	.	.	.	0.058	100	.	.	.	.
1998	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.054	100	.	.	.	.	.	.	.	.	.	.	0.064	100	.	.	.	.
1998	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.052	100	.	.	.	.	.	.	.	.	.	.	0.081	100	.	.	.	.
1998	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.042	100	.	.	.	.	.	.	.	.	.	.	0.094	100	.	.	.	.
1998	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.057	100	.	.	.	.	.	.	.	.	.	.	0.13	100	.	.	.	.
1998	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.13	100	.	.	.	.	.	.	.	.	.	.	0.098	100	.	.	.	.
1998	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0.12	100	.	.	.	.
1998	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.048	100	.	.	.	.	.	.	.	.	.	.	0.17	100	.	.	.	.
1998	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.10	100	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.
1998	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.091	100	.	.	.	.	.	.	.	.	.	.	0.040	100	.	.	.	.
1998	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.023	100	.	.	.	.	.	.	.	.	.	.	0.21	100	.	.	.	.
1998	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.018	110	.	.	.	.	.	.	.	.	.	.	0.073	100	.	.	.	.
1999	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.13	100	.	.	.	.	.	.	.	.	.	.	0.091	100	.	.	.	.
1999	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.072	100	.	.	.	.	.	.	.	.	.	.	0.072	100	.	.	.	.
1999	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.040	100	.	.	.	.	.	.	.	.	.	.	0.23	100	.	.	.	.
1999	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.050	100	.	.	.	.	.	.	.	.	.	.	0.23	100	.	.	.	.
1999	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.	.	.	.	.	.	.	0.17	100	.	.	.	.
1999	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.	.	.	.	.	.	.	0.10	100	.	.	.	.
1999	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.069	100	.	.	.	.	.	.	.	.	.	.	0.053	100	.	.	.	.
1999	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.017	110	.	.	.	.	.	.	.	.	.	.	0.10	100	.	.	.	.
1999	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.017	110	.	.	.	.	.	.	.	.	.	.	0.13	100	.	.	.	.
1999	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.050	100	.	.	.	.	.	.	.	.	.	.	0.096	100	.	.	.	.
1999	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.059	100	.	.	.	.	.	.	.	.	.	.	0.042	100	.	.	.	.
1999	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.
2000	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.034	100	.	.	.	.	.	.	.	.	.	.	0.10	100	.	.	.	.
2000	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.095	100	.	.	.	.
2000	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.054	100	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.
2000	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.	.	.	.	.	.	.	0.14	100	.	.	.	.
2000	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.062	100	.	.	.	.	.	.	.	.	.	.	0.078	100	.	.	.	.
2000	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.095	100	.	.	.	.	.	.	.	.	.	.	0.067	100	.	.	.	.
2000	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.026	100	.	.	.	.	.	.	.	.	.	.	0.092	100	.	.	.	.
2000	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.037	100	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.
2000	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.099	100	.	.	.	.	.	.	.	.	.	.	0.071	100	.	.	.	.
2000	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.36	100	.	.	.	.	.	.	.	.	.	.	0.093	100	.	.	.	.
2000	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.060	100	.	.	.	.	.	.	.	.	.	.	0.086	100	.	.	.	.
2000	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.035	100	.	.	.	.	.	.	.	.	.	.	0.23	100	.	.	.	.

CADMIUM (µg/m²/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.084	100	.	.	.	.
1992	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.075	110	.	.	.	.	.	.	.	.	.	.	0.046	100	.	.	.	.
1992	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.019	160	.	.	.	.	.	.	.	.	.	.	0.030	110	.	.	.	.
1992	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.025	140	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.
1992	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.036	120	.	.	.	.	.	.	.	.	.	.	0.027	110	.	.	.	.
1992	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.027	130	.	.	.	.	.	.	.	.	.	.	0.016	120	.	.	.	.
1992	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.008	330	.	.	.	.	.	.	.	.	.	.	0.024	110	.	.	.	.
1992	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.015	190	.	.	.	.	.	.	.	.	.	.	0.025	110	.	.	.	.
1992	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.046	110	.	.	.	.	.	.	.	.	.	.	0.009	160	.	.	.	.
1992	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.009	290	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.
1992	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.060	110	.	.	.	.	.	.	.	.	.	.	0.008	170	.	.	.	.
1992	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.024	140	.	.	.	.	.	.	.	.	.	.	0.023	110	.	.	.	.
1993	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.036	110	0.26	27	.	.	.	.	.	.	.	.	0.089	100	0.24	27	.	.
1993	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.078	100	0.45	27	.	.	.	.	.	.	.	.	0.034	110	0.14	27	.	.
1993	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.046	100	0.33	27	.	.	.	.	.	.	.	.	0.044	100	0.12	27	.	.
1993	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.026	110	0.075	27	.	.	.	.	.	.	.	.	0	180	0.23	27	.	.
1993	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.071	27	.	.	.	.	.	.	.	.	0.014	130	0.045	27	.	.
1993	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.063	27	.	.	.	.	.	.	.	.	0	180	0.17	27	.	.
1993	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.098	27	.	.	.	.	.	.	.	.	0	180	0.25	27	.	.
1993	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.11	27	.	.	.	.	.	.	.	.	0	180	0.11	27	.	.
1993	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.050	100	0.19	27	.	.	.	.	.	.	.	.	0.038	100	0.099	27	.	.
1993	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.097	27	.	.	.	.	.	.	.	.	0	180	0.14	27	.	.
1993	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.089	27	.	.	.	.	.	.	.	.	0.015	130	0.060	27	.	.
1993	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.037	100	.	.	.	.	.	.	.	.	.	.	0.035	110	.	.	.	.
1994	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.045	100	0.19	27	.	.	.	.	.	.	.	.	0.017	120	0.22	27	.	.
1994	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.049	100	0.064	27	.	.	.	.	.	.	.	.	0.017	120	0.18	27	.	.
1994	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.013	130	0.077	27	.	.	.	.	.	.	.	.	0.023	110	0.096	27	.	.
1994	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.014	130	0.13	27	.	.	.	.	.	.	.	.	0.028	110	0.099	27	.	.
1994	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.082	27	.	.	.	.	.	.	.	.	0.056	100	0.19	27	.	.
1994	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.013	130	0.068	27	.	.	.	.	.	.	.	.	0.032	110	0.10	27	.	.
1994	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.038	100	0.15	27	.	.	.	.	.	.	.	.	0.053	100	0.055	27	.	.
1994	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.090	100	0.12	27	.	.	.	.	.	.	.	.	0.061	100	0.12	27	.	.
1994	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.028	110	0.067	27	.	.	.	.	.	.	.	.	0.026	110	0.16	27	.	.
1994	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.040	27	.	.	.	.	.	.	.	.	0	180	0.031	27	.	.
1994	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.045	100	0.27	27	.	.	.	.	.	.	.	.	0.040	100	0.13	27	.	.
1994	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.028	110	0.051	27	.	.	.	.	.	.	.	.	0.085	100	0.39	27	.	.
1995	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.012	120	0.25	27	.	.	.	.	.	.	.	.	0.007	120	0.19	27	.	.
1995	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.013	120	0.057	27	.	.	.	.	.	.	.	.	0.038	100	0.046	27	.	.
1995	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.039	100	0.034	27	.	.	.	.	.	.	.	.	0.023	100	0.079	27	.	.
1995	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.009	140	0.035	27	.	.	.	.	.	.	.	.	0.010	110	0.061	27	.	.
1995	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.014	120	0.053	27	.	.	.	.	.	.	.	.	0.008	110	0.034	27	.	.
1995	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.015	110	0.056	27	.	.	.	.	.	.	.	.	0	180	0.58	27	.	.
1995	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.051	27	.	.	.	.	.	.	.	.	0.014	100	0.052	27	.	.
1995	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.008	150	0.044	27	.	.	.	.	.	.	.	.	0.004	140	0.055	27	.	.
1995	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.010	130	0.048	27	.	.	.	.	.	.	.	.	0	180	0.016	27	.	.
1995	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.016	110	0	27	.	.	.	.	.	.	.	.	0	180	0.20	27	.	.
1995	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.093	27	.	.	.	.	.	.	.	.	0	180	0.12	27	.	.
1995	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.009	130	0.18	27	.	.	.	.	.	.	.	.	0.015	100	0.094	27	.	.
1996	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.014	100	0.049	27	.	.	.	.	.	.	.	.	0.017	100	0.051	27	.	.
1996	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.033	100	0.079	27	.	.	.	.	.	.	.	.	0.031	100	0.038	27	.	.
1996	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.013	110	2.5	27	.	.	.	.	.	.	.	.	0.024	100	0.13	27	.	.
1996	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.037	100	0.046	27	.	.	.	.	.	.	.	.	0.006	120	0.052	27	.	.
1996	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.054	27	.	.	.	.	.	.	.	.	0.018	100	0.051	27	.	.
1996	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.048	27	.	.	.	.	.	.	.	.	0.023	100	0.062	27	.	.
1996	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.070	27	.	.	.	.	.	.	.	.	0.006	120	0.065	27	.	.
1996	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.016	100	0.11	27	.	.	.	.	.	.	.	.	0.017	100	0.023	27	.	.
1996	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.007	120	0.068	27	.	.	.	.	.	.	.	.	0.015	100	0.072	27	.	.
1996	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.019	100	0.042	27	.	.	.	.	.	.	.	.	0.019	100	0.051	27	.	.
1996	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.063	100	0.042	27	.	.	.	.	.	.	.	.	0.058	100	0.069	27	.	.
1996	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.064	100	0.39	27	.	.	.	.	.	.	.	.	0.040	100	0.67	27	.	.

CADMIUM (μg/m²/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.11	100	0.21	27	.	.	.	.	.	.	.	.	0.036	100	0.89	27	.	.
1997	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.007	100	0.26	27	.	.	.	.	.	.	.	.	0.020	100	0.35	27	.	.
1997	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.021	100	0.24	27	.	.	.	.	.	.	.	.	0.041	100	0.18	27	.	.
1997	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.004	100	0.65	27	.	.	.	.	.	.	.	.	0.016	100	0	27	.	.
1997	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.010	100	0	27	.	.	.	.	.	.	.	.	0.017	100	0.57	27	.	.
1997	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.013	100	0	27	.	.	.	.	.	.	.	.	0.036	100	0.16	27	.	.
1997	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.007	100	0.56	27	.	.	.	.	.	.	.	.	0.022	100	0	27	.	.
1997	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.029	100	0	27	.	.	.	.	.	.	.	.	0.019	100	0	27	.	.
1997	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.019	100	0.11	27	.	.	.	.	.	.	.	.	0.033	100	.	.	.	.
1997	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.047	100	0.12	27	.	.	.	.	.	.	.	.	0.028	100	0.13	27	.	.
1997	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.014	100	0	27	.	.	.	.	.	.	.	.	0.017	100	0	27	.	.
1997	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.012	100	0.015	27	.	.	.	.	.	.	.	.	0.047	100	0.044	27	.	.
1998	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.01	100	0.20	27	.	.	.	.	.	.	.	.	0.019	100	0.36	27	.	.
1998	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.019	100	0	27	.	.	.	.	.	.	.	.	0.053	100	0.11	27	.	.
1998	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.017	100	0.86	27	.	.	.	.	.	.	.	.	0.015	100	0.27	27	.	.
1998	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.01	100	0.81	27	.	.	.	.	.	.	.	.	0.019	100	0.24	27	.	.
1998	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.035	100	0.69	27	.	.	.	.	.	.	.	.	0.029	100	0.41	27	.	.
1998	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.019	100	0.13	27	.	.	.	.	.	.	.	.	0.025	100	0.13	27	.	.
1998	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	27	.	.	.	.	.	.	.	.	0.010	100	0	27	.	.
1998	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.008	100	0	27	.	.	.	.	.	.	.	.	0.023	100	0.085	27	.	.
1998	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.015	100	0.084	27	.	.	.	.	.	.	.	.	0.028	100	0.12	27	.	.
1998	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.021	100	0	27	.	.	.	.	.	.	.	.	0.020	100	0	27	.	.
1998	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.010	100	0.097	27	.	.	.	.	.	.	.	.	0.023	100	0.19	27	.	.
1998	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.008	100	0	27	.	.	.	.	.	.	.	.	0.017	100	0.24	27	.	.
1999	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.029	100	.	.	.	.	.	.	.	.	.	.	0.027	100	.	.	.	.
1999	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.032	100	.	.	.	.	.	.	.	.	.	.	0.028	100	.	.	.	.
1999	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.013	100	0	27	.	.	.	.	.	.	.	.	0.026	100	0.57	27	.	.
1999	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.010	100	0.31	27	.	.	.	.	.	.	.	.	0.072	100	0.36	27	.	.
1999	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.016	100	0	27	.	.	.	.	.	.	.	.	0.026	100	0	27	.	.
1999	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.031	100	0	27	.	.	.	.	.	.	.	.	0.030	100	0	27	.	.
1999	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.014	100	0.13	27	.	.	.	.	.	.	.	.	0.022	100	0	27	.	.
1999	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.097	27	.	.	.	.	.	.	.	.	0.015	100	0	27	.	.
1999	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0	27	.	.	.	.	.	.	.	.	0.018	100	0	27	.	.
1999	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.005	100	0.14	27	.	.	.	.	.	.	.	.	0.022	100	0	27	.	.
1999	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.014	100	0	27	.	.	.	.	.	.	.	.	0.013	100	0	27	.	.
1999	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.036	100	0	27	.	.	.	.	.	.	.	.	0.044	100	0.34	27	.	.
2000	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.028	100	0.085	27	.	.	.	.	.	.	.	.	0.019	100	0	27	.	.
2000	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.016	100	0.24	27	.	.	.	.	.	.	.	.	0.064	100	0	27	.	.
2000	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.014	100	.	27	.	.	.	.	.	.	.	.	0.027	100	0.26	27	.	.
2000	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.025	100	0	27	.	.	.	.	.	.	.	.	0.024	100	0	27	.	.
2000	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.027	100	0.43	27	.	.	.	.	.	.	.	.	0.023	100	0.18	27	.	.
2000	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.059	100	0.17	27	.	.	.	.	.	.	.	.	0.023	100	0.12	27	.	.
2000	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.030	100	0.25	27	.	.	.	.	.	.	.	.	0.017	100	0	27	.	.
2000	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.022	100	0.12	27	.	.	.	.	.	.	.	.	0.018	100	0.097	27	.	.
2000	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.015	100	0.19	27	.	.	.	.	.	.	.	.	0.011	100	0	27	.	.
2000	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.022	100	0	27	.	.	.	.	.	.	.	.	0.018	100	0.18	27	.	.
2000	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.009	100	0.077	27	.	.	.	.	.	.	.	.	0.043	100	0.097	27	.	.
2000	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.011	100	0	27	.	.	.	.	.	.	.	.	0.026	100	0	27	.	.

LEAD (μg/m²/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.8	100	.	.	.	.
1992	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.79	120	.	.	.	.	.	.	.	.	.	.	0.80	100	.	.	.	.
1992	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.43	160	.	.	.	.	.	.	.	.	.	.	0.96	100	.	.	.	.
1992	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.51	140	.	.	.	.	.	.	.	.	.	.	0.44	110	.	.	.	.
1992	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.64	130	.	.	.	.	.	.	.	.	.	.	0.74	100	.	.	.	.
1992	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.27	220	.	.	.	.	.	.	.	.	.	.	0.74	100	.	.	.	.
1992	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.42	160	.	.	.	.	.	.	.	.	.	.	0.59	110	.	.	.	.
1992	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.59	130	.	.	.	.	.	.	.	.	.	.	0.57	110	.	.	.	.
1992	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.55	140	.	.	.	.	.	.	.	.	.	.	0.48	110	.	.	.	.
1992	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.34	180	.	.	.	.	.	.	.	.	.	.	0.36	120	.	.	.	.
1992	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.94	110	.	.	.	.	.	.	.	.	.	.	0.90	100	.	.	.	.
1992	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.68	130	.	.	.	.	.	.	.	.	.	.	0.96	100	.	.	.	.
1993	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.48	160	4.1	27	.	.	.	.	.	.	.	.	1.3	110	5.1	27	.	.
1993	FEB	.	.	.	.	.	.	.	.	.	.	.	.	1.0	120	4.7	27	.	.	.	.	.	.	.	.	0.96	110	1.7	27	.	.
1993	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.76	130	2.5	27	.	.	.	.	.	.	.	.	1.3	110	1.7	27	.	.
1993	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.32	210	0.99	27	.	.	.	.	.	.	.	.	0.36	160	3.4	27	.	.
1993	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.37	190	0.75	27	.	.	.	.	.	.	.	.	0.87	110	0.59	27	.	.
1993	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.25	260	0.61	27	.	.	.	.	.	.	.	.	1.1	110	1.5	27	.	.
1993	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.60	140	0.99	27	.	.	.	.	.	.	.	.	0.60	120	1.5	27	.	.
1993	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.20	320	0.85	27	.	.	.	.	.	.	.	.	0.66	120	1.2	27	.	.
1993	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.78	130	1.7	27	.	.	.	.	.	.	.	.	0.88	110	1.7	27	.	.
1993	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.88	27	.	.	.	.	.	.	.	.	0.55	130	1.3	27	.	.
1993	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.72	130	2.9	27	.	.	.	.	.	.	.	.	0.59	130	0.66	27	.	.
1993	DEC	.	.	.	.	.	.	.	.	.	.	.	.	1.1	110	.	.	.	.	.	.	.	.	.	.	1.2	110	.	.	.	.
1994	JAN	.	.	.	.	.	.	.	.	.	.	.	.	1.2	110	2.0	27	.	.	.	.	.	.	.	.	1.1	110	2.5	27	.	.
1994	FEB	.	.	.	.	.	.	.	.	.	.	.	.	1.3	110	0.51	27	.	.	.	.	.	.	.	.	1.1	110	2.4	27	.	.
1994	MAR	.	.	.	.	.	.	.	.	.	.	.	.	1.0	110	1.2	27	.	.	.	.	.	.	.	.	0.96	110	1.6	27	.	.
1994	APR	.	.	.	.	.	.	.	.	.	.	.	.	1.2	110	2.3	27	.	.	.	.	.	.	.	.	0.97	110	1.7	27	.	.
1994	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.75	120	0.95	27	.	.	.	.	.	.	.	.	1.4	110	6.0	27	.	.
1994	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.83	120	0.41	27	.	.	.	.	.	.	.	.	0.96	110	1.2	27	.	.
1994	JUL	.	.	.	.	.	.	.	.	.	.	.	.	1.3	110	0.29	27	.	.	.	.	.	.	.	.	1.6	110	0.20	27	.	.
1994	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.89	120	0.48	27	.	.	.	.	.	.	.	.	1.3	110	0.86	27	.	.
1994	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.32	200	0.44	27	.	.	.	.	.	.	.	.	0.76	120	2.4	27	.	.
1994	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.45	160	0.080	27	.	.	.	.	.	.	.	.	0.62	130	0.077	27	.	.
1994	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.94	120	1.1	27	.	.	.	.	.	.	.	.	0.87	120	0.68	27	.	.
1994	DEC	.	.	.	.	.	.	.	.	.	.	.	.	1.2	110	0.71	27	.	.	.	.	.	.	.	.	1.9	100	3.5	27	.	.
1995	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.72	110	2.4	27	.	.	.	.	.	.	.	.	0.45	130	1.8	27	.	.
1995	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.74	110	0.51	27	.	.	.	.	.	.	.	.	1.1	100	0.54	27	.	.
1995	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.99	110	0.67	27	.	.	.	.	.	.	.	.	0.99	110	1.2	27	.	.
1995	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.23	180	0.48	27	.	.	.	.	.	.	.	.	0.69	110	1.2	27	.	.
1995	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.36	140	0.63	27	.	.	.	.	.	.	.	.	0.51	120	0.29	27	.	.
1995	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.39	130	0.44	27	.	.	.	.	.	.	.	.	0.24	180	7.3	27	.	.
1995	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.18	210	0.20	27	.	.	.	.	.	.	.	.	0.61	120	0.33	27	.	.
1995	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.33	140	0.37	27	.	.	.	.	.	.	.	.	0.48	120	0.59	27	.	.
1995	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.67	110	0.29	27	.	.	.	.	.	.	.	.	0.47	120	0.11	27	.	.
1995	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.28	160	0.88	27	.	.	.	.	.	.	.	.	0.28	160	3.6	27	.	.
1995	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.13	280	1.6	27	.	.	.	.	.	.	.	.	0.38	140	3.9	27	.	.
1995	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.52	120	1.9	27	.	.	.	.	.	.	.	.	0.58	120	1.3	27	.	.
1996	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.50	100	0.30	27	.	.	.	.	.	.	.	.	0.75	100	0.17	27	.	.
1996	FEB	.	.	.	.	.	.	.	.	.	.	.	.	1.1	100	1.4	27	.	.	.	.	.	.	.	.	1.2	100	0.42	27	.	.
1996	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.69	100	16	27	.	.	.	.	.	.	.	.	0.73	100	2.6	27	.	.
1996	APR	.	.	.	.	.	.	.	.	.	.	.	.	1.2	100	0.94	27	.	.	.	.	.	.	.	.	0.45	100	0.48	27	.	.
1996	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.34	110	0.81	27	.	.	.	.	.	.	.	.	0.56	100	0.23	27	.	.
1996	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.37	110	0.094	27	.	.	.	.	.	.	.	.	1.1	100	6.0	27	.	.
1996	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.13	150	0.42	27	.	.	.	.	.	.	.	.	0.49	100	0.32	27	.	.
1996	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.37	110	0.62	27	.	.	.	.	.	.	.	.	0.87	100	0.22	27	.	.
1996	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.50	100	0.33	27	.	.	.	.	.	.	.	.	0.53	100	0.19	27	.	.
1996	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.70	100	0.51	27	.	.	.	.	.	.	.	.	0.69	100	0.28	27	.	.
1996	NOV	.	.	.	.	.	.	.	.	.	.	.	.	1.3	100	0.087	27	.	.	.	.	.	.	.	.	1.5	100	0.72	27	.	.
1996	DEC	.	.	.	.	.	.	.	.	.	.	.	.	1.9	100	6.7	27	.	.	.	.	.	.	.	.	1.3	100	22	27	.	.

LEAD (μg/m²/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	.	.	.	.	.	.	.	.	.	.	2.7	100	2.9	27	.	.	.	.	.	.	.	.	0.71	100	9.8	27	.	.
1997	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.30	110	7.6	27	.	.	.	.	.	.	.	.	0.69	100	3.5	27	.	.
1997	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.42	100	5.7	27	.	.	.	.	.	.	.	.	0.92	100	5.7	27	.	.
1997	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.48	100	15	27	.	.	.	.	.	.	.	.	0.69	100	3.6	27	.	.
1997	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.29	110	1.8	27	.	.	.	.	.	.	.	.	0.51	100	4.9	27	.	.
1997	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.38	100	0.88	27	.	.	.	.	.	.	.	.	0.93	100	2.3	27	.	.
1997	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.16	120	3.5	27	.	.	.	.	.	.	.	.	0.80	100	0	27	.	.
1997	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.72	100	1.1	27	.	.	.	.	.	.	.	.	0.80	100	0.43	27	.	.
1997	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.43	100	1.0	27	.	.	.	.	.	.	.	.	0.94	100	.	.	.	.
1997	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.83	100	2.4	27	.	.	.	.	.	.	.	.	0.79	100	1.6	27	.	.
1997	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.20	110	0.96	27	.	.	.	.	.	.	.	.	0.32	100	3.7	27	.	.
1997	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.30	110	0.060	27	.	.	.	.	.	.	.	.	2.5	100	0.33	27	.	.
1998	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.64	100	3.3	27	.	.	.	.	.	.	.	.	0.51	100	3.3	27	.	.
1998	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.39	100	0	27	.	.	.	.	.	.	.	.	0.93	100	1.3	27	.	.
1998	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.37	100	0.43	27	.	.	.	.	.	.	.	.	0.50	100	4.0	27	.	.
1998	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.27	100	6.2	27	.	.	.	.	.	.	.	.	0.75	100	9.5	27	.	.
1998	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.24	100	0.95	27	.	.	.	.	.	.	.	.	0.99	100	7.8	27	.	.
1998	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.44	100	1.0	27	.	.	.	.	.	.	.	.	0.73	100	2.0	27	.	.
1998	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.058	100	.	.	.	.	.	.	.	.	.	.	0.38	100	1.5	27	.	.
1998	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.25	100	1.0	27	.	.	.	.	.	.	.	.	0.74	100	1.3	27	.	.
1998	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.45	100	0.17	27	.	.	.	.	.	.	.	.	0.73	100	1.9	27	.	.
1998	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.45	100	0.15	27	.	.	.	.	.	.	.	.	0.41	100	2.2	27	.	.
1998	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.21	100	1.4	27	.	.	.	.	.	.	.	.	0.84	100	5.8	27	.	.
1998	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.22	100	0	27	.	.	.	.	.	.	.	.	0.51	100	7.6	27	.	.
1999	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.46	100	.	.	.	.	.	.	.	.	.	.	0.53	100	.	.	.	.
1999	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.61	100	.	.	.	.	.	.	.	.	.	.	0.72	100	.	.	.	.
1999	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.36	100	0	27	.	.	.	.	.	.	.	.	1.1	100	6.3	27	.	.
1999	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.32	100	4.0	27	.	.	.	.	.	.	.	.	1.6	100	5.4	27	.	.
1999	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.43	100	0	27	.	.	.	.	.	.	.	.	0.98	100	0.49	27	.	.
1999	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.86	100	1.9	27	.	.	.	.	.	.	.	.	1.1	100	1.2	27	.	.
1999	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.38	100	0.88	27	.	.	.	.	.	.	.	.	1.0	100	0.91	27	.	.
1999	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.35	100	0.88	27	.	.	.	.	.	.	.	.	0.50	100	5.4	27	.	.
1999	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.27	100	0.95	27	.	.	.	.	.	.	.	.	0.60	100	2.2	27	.	.
1999	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.37	100	1.4	27	.	.	.	.	.	.	.	.	0.60	100	1.9	27	.	.
1999	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.14	100	1.8	27	.	.	.	.	.	.	.	.	0.31	100	0.38	27	.	.
1999	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.88	100	1.0	27	.	.	.	.	.	.	.	.	1.2	100	8.3	27	.	.
2000	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.31	100	1.0	27	.	.	.	.	.	.	.	.	0.72	100	0	27	.	.
2000	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.26	100	1.3	27	.	.	.	.	.	.	.	.	0.84	100	5.1	27	.	.
2000	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.30	100	.	.	.	.	.	.	.	.	.	.	0.73	100	9.3	27	.	.
2000	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.39	100	0	27	.	.	.	.	.	.	.	.	0.71	100	1.3	27	.	.
2000	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.34	100	6.4	27	.	.	.	.	.	.	.	.	0.66	100	4.1	27	.	.
2000	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.31	100	0.33	27	.	.	.	.	.	.	.	.	0.31	100	0.69	27	.	.
2000	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.13	110	0.37	27	.	.	.	.	.	.	.	.	0.31	100	1.5	27	.	.
2000	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.19	100	0.59	27	.	.	.	.	.	.	.	.	0.34	100	0.67	27	.	.
2000	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.36	100	0.77	27	.	.	.	.	.	.	.	.	0.31	100	1.6	27	.	.
2000	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.58	100	0	27	.	.	.	.	.	.	.	.	0.42	100	2.1	27	.	.
2000	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.31	100	0.54	27	.	.	.	.	.	.	.	.	0.60	100	2.6	27	.	.
2000	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.30	100	0.91	27	.	.	.	.	.	.	.	.	0.50	100	1.3	27	.	.

SELENIUM (µg/m²/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1992	JAN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	MAR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	APR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	MAY	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	JUN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	JUL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	AUG	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	SEP	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	OCT	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	NOV	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1992	DEC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1993	JAN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.53	27	.	.	.	.	.	.	.	.	.	.	0.73	27	.	.
1993	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.22	27	.	.	.	.	.	.	.	.	.	.	0.23	27	.	.
1993	MAR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.30	27	.	.	.	.	.	.	.	.	.	.	0.37	27	.	.
1993	APR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.27	27	.	.	.	.	.	.	.	.	.	.	0.69	27	.	.
1993	MAY	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.14	27	.	.	.	.	.	.	.	.	.	.	0.09	27	.	.
1993	JUN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.095	27	.	.	.	.	.	.	.	.	.	.	0.36	27	.	.
1993	JUL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15	27	.	.	.	.	.	.	.	.	.	.	0.25	27	.	.
1993	AUG	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15	27	.	.	.	.	.	.	.	.	.	.	0.33	27	.	.
1993	SEP	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.32	27	.	.	.	.	.	.	.	.	.	.	0.37	27	.	.
1993	OCT	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15	27	.	.	.	.	.	.	.	.	.	.	0.31	27	.	.
1993	NOV	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.58	27	.	.	.	.	.	.	.	.	.	.	0.12	27	.	.
1993	DEC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1994	JAN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.19	27	.	.	.	.	.	.	.	.	.	.	0.50	27	.	.
1994	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.064	27	.	.	.	.	.	.	.	.	.	.	0.42	27	.	.
1994	MAR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.13	27	.	.	.	.	.	.	.	.	.	.	0.34	27	.	.
1994	APR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.44	27	.	.	.	.	.	.	.	.	.	.	0.22	27	.	.
1994	MAY	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.14	27	.	.	.	.	.	.	.	.	.	.	0.57	27	.	.
1994	JUN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.14	27	.	.	.	.	.	.	.	.	.	.	0.15	27	.	.
1994	JUL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.15	27	.	.	.	.	.	.	.	.	.	.	0.22	27	.	.
1994	AUG	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.20	27	.	.	.	.	.	.	.	.	.	.	0.47	27	.	.
1994	SEP	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.10	27	.	.	.	.	.	.	.	.	.	.	0.41	27	.	.
1994	OCT	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.040	27	.	.	.	.	.	.	.	.	.	.	0.039	27	.	.
1994	NOV	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.27	27	.	.	.	.	.	.	.	.	.	.	0.13	27	.	.
1994	DEC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.10	27	.	.	.	.	.	.	.	.	.	.	0.52	27	.	.
1995	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.37	27	.	.	.	.	.	.	.	.	0	180	0.24	27	.	.
1995	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.057	27	.	.	.	.	.	.	.	.	0.080	100	0.09	27	.	.
1995	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.10	27	.	.	.	.	.	.	.	.	0.027	110	0.47	27	.	.
1995	APR	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.068	27	.	.	.	.	.	.	.	.	0.020	120	0.14	27	.	.
1995	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.16	27	.	.	.	.	.	.	.	.	0	180	0.034	27	.	.
1995	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.021	120	0.11	27	.	.	.	.	.	.	.	.	0	180	0	27	.	.
1995	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.014	140	0.051	27	.	.	.	.	.	.	.	.	0.096	100	0.18	27	.	.
1995	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.015	130	0.064	27	.	.	.	.	.	.	.	.	0.028	110	0.18	27	.	.
1995	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.061	100	0.095	27	.	.	.	.	.	.	.	.	0.061	100	0.016	27	.	.
1995	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.014	140	0	27	.	.	.	.	.	.	.	.	0.027	110	0.80	27	.	.
1995	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.28	27	.	.	.	.	.	.	.	.	0.021	120	0.92	27	.	.
1995	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.63	27	.	.	.	.	.	.	.	.	0.014	140	0.61	27	.	.
1996	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.040	110	0.15	27	.	.	.	.	.	.	.	.	0.13	100	0.19	27	.	.
1996	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.028	110	0.079	27	.	.	.	.	.	.	.	.	0.014	140	0.075	27	.	.
1996	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.021	120	0	27	.	.	.	.	.	.	.	.	0.066	100	0.26	27	.	.
1996	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.25	100	0.088	27	.	.	.	.	.	.	.	.	0	180	0.078	27	.	.
1996	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.16	27	.	.	.	.	.	.	.	.	0.041	110	0.10	27	.	.
1996	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.015	130	0.094	27	.	.	.	.	.	.	.	.	0.11	100	0.25	27	.	.
1996	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.10	27	.	.	.	.	.	.	.	.	0.038	110	0.11	27	.	.
1996	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0	180	0.17	27	.	.	.	.	.	.	.	.	0.14	100	0.033	27	.	.
1996	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.015	140	0.27	27	.	.	.	.	.	.	.	.	0.027	110	0.15	27	.	.
1996	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.062	100	0.13	27	.	.	.	.	.	.	.	.	0.083	100	0.087	27	.	.
1996	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.26	100	0.087	27	.	.	.	.	.	.	.	.	0.16	100	0.14	27	.	.
1996	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.12	100	1.6	27	.	.	.	.	.	.	.	.	0.21	100	7.4	27	.	.

SELENIUM (µg/m²/day)																															
		SUPERIOR						MICHIGAN						HURON						ERIE						ONTARIO					
YEAR	MONTH	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e	DRY	DRY_e	WET	WET_e	ABS	ABS_e
1997	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.077	100	.	.	.	.	.	.	.	.	.	.	0.069	100	.	.	.	.
1997	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0.12	100	.	.	.	.
1997	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.
1997	APR	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0.060	100	.	.	.	.
1997	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0.042	110	.	.	.	.
1997	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.042	110	.	.	.	.	.	.	.	.	.	.	0.20	100	.	.	.	.
1997	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.022	120	.	.	.	.	.	.	.	.	.	.	0.21	100	.	.	.	.
1997	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.082	100	.	.	.	.	.	.	.	.	.	.	0.12	100	.	.	.	.
1997	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.021	120	.	.	.	.	.	.	.	.	.	.	0.12	100	.	.	.	.
1997	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.16	100	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.
1997	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.020	120	.	.	.	.	.	.	.	.	.	.	0.022	120	.	.	.	.
1997	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.027	110	.	.	.	.	.	.	.	.	.	.	0.17	100	.	.	.	.
1998	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.019	120	.	.	.	.	.	.	.	.	.	.	0.062	100	.	.	.	.
1998	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.042	110	.	.	.	.	.	.	.	.	.	.	0.053	100	.	.	.	.
1998	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.021	120	.	.	.	.	.	.	.	.	.	.	0.042	110	.	.	.	.
1998	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.029	110	.	.	.	.	.	.	.	.	.	.	0.067	100	.	.	.	.
1998	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.019	120	.	.	.	.	.	.	.	.	.	.	0.021	120	.	.	.	.
1998	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.068	100	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.
1998	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0.061	100	.	.	.	.
1998	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.021	120	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.
1998	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.10	100	.	.	.	.	.	.	.	.	.	.	0.18	100	.	.	.	.
1998	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.042	110	.	.	.	.	.	.	.	.	.	.	0.014	140	.	.	.	.
1998	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.042	110	.	.	.	.	.	.	.	.	.	.	0.081	100	.	.	.	.
1998	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.013	150	.	.	.	.	.	.	.	.	.	.	0.097	100	.	.	.	.
1999	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.043	110	.	.	.	.	.	.	.	.	.	.	0.13	100	.	.	.	.
1999	FEB	.	.	.	.	.	.	.	.	.	.	.	.	0.17	100	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.
1999	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.057	100	.	.	.	.	.	.	.	.	.	.	0.009	190	.	.	.	.
1999	APR	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.
1999	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.087	100	.	.	.	.	.	.	.	.	.	.	0.087	100	.	.	.	.
1999	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.26	100	.	.	.	.	.	.	.	.	.	.	0.087	100	.	.	.	.
1999	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0.098	100	.	.	.	.	.	.	.	.	.	.	0.13	100	.	.	.	.
1999	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.021	120	.	.	.	.	.	.	.	.	.	.	0.022	120	.	.	.	.
1999	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.057	100	.	.	.	.	.	.	.	.	.	.	0.099	100	.	.	.	.
1999	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.020	120	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.
1999	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0.043	100	.	.	.	.
1999	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.17	100	.	.	.	.	.	.	.	.	.	.	0.39	100	.	.	.	.
2000	JAN	.	.	.	.	.	.	.	.	.	.	.	.	0.030	110	.	.	.	.	.	.	.	.	.	.	0.15	100	.	.	.	.
2000	FEB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.
2000	MAR	.	.	.	.	.	.	.	.	.	.	.	.	0.13	100	.	.	.	.	.	.	.	.	.	.	0.087	100	.	.	.	.
2000	APR	.	.	.	.	.	.	.	.	.	.	.	.	0.089	100	.	.	.	.	.	.	.	.	.	.	0.014	160	.	.	.	.
2000	MAY	.	.	.	.	.	.	.	.	.	.	.	.	0.062	100	.	.	.	.	.	.	.	.	.	.	0.021	130	.	.	.	.
2000	JUN	.	.	.	.	.	.	.	.	.	.	.	.	0.027	110	.	.	.	.	.	.	.	.	.	.	0.059	100	.	.	.	.
2000	JUL	.	.	.	.	.	.	.	.	.	.	.	.	0	180	.	.	.	.	.	.	.	.	.	.	0.064	100	.	.	.	.
2000	AUG	.	.	.	.	.	.	.	.	.	.	.	.	0.014	140	.	.	.	.	.	.	.	.	.	.	0.043	110	.	.	.	.
2000	SEP	.	.	.	.	.	.	.	.	.	.	.	.	0.17	100	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.
2000	OCT	.	.	.	.	.	.	.	.	.	.	.	.	0.37	100	.	.	.	.	.	.	.	.	.	.	0.22	100	.	.	.	.
2000	NOV	.	.	.	.	.	.	.	.	.	.	.	.	0.067	100	.	.	.	.	.	.	.	.	.	.	0.20	100	.	.	.	.
2000	DEC	.	.	.	.	.	.	.	.	.	.	.	.	0.028	110	.	.	.	.	.	.	.	.	.	.	0.11	100	.	.	.	.