

Illinois Environmental Protection Agency

Bureau of Air 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

September 2003

IEPA/BOA/03-015

Illinois Annual Air Quality Report









2002

Governor Rod R. Blagojevich Director Renee Cipriano Cover: The Illinois EPA has been dedicated to improving air quality since its formation in 1970. Beyond the Agency's primary role, regulating air pollution sources in the State, fundamental program have been developed and initiated to further reduce air pollution. Featured on the cover of this report are logos representing a few Illinois EPA voluntary-based programs, which continue to gain partnerships throughout Illinois.

Green Pays on Green Days first began in the Summer of 2002 as an educational initiative to target individuals in the Chicago area. The program's slogan, "a renewed commitment by businesses, government, and individual citizens to reduce air pollution", best describes the primary focus. Green Pays has rewarded citizens who "take the clean air pledge" with environmentally friendly prizes, further encouraging the use of such products in the future. The Agency has received overwhelming results as a result of this program.

The Illinois Green Fleets Program is a voluntary program where businesses, government entities and other organizations gain recognition and marketing opportunities for having clean, domestic, and renewable fuel vehicles in their fleet. The fuels included in the Green Fleets program are natural gas, propane, 85 percent ethanol (E-85), electricity, biodiesel and other clean, domestic fuels. Additionally, Illinois Green Fleets recognizes fleet managers for their progressive efforts in using environmentally friendly vehicles and fuels to improve air quality.

Partners for Clean Air was created in 1995 with fifteen charter members, including the Illinois EPA. It is now a coalition of more than 300 businesses, government units and health advocacy organizations committed to cleaner air. It is a goal of the program to improve overall air quality and public health by advocating voluntary actions in the Greater Chicagoland and Northwest Indiana regions. A key component to the Partners for Clean Air success is the Ozone Action Day program. Through Ozone Action Days, individual citizens as well as all of the members of the coalition are alerted when air quality may potentially reach unhealthy levels. They are then encourages to take actions to reduce air pollution on those days. Illinois EPA estimates that the Partners for Clean Air/Ozone Action Day program reduces volatile organic compounds, an element of ground-level ozone, by more than 20 tons each day.

Photo: Illinois EPA Director Renee Cipriano is featured in the cover photo along with a display from the 2002 Green Pays on Green Days program. The items displayed on the table were included in "Green Day" prize packages awarded to thirty-eight individuals who took the "clean air pledge" during the summer of 2002.

ILLINOIS ANNUAL AIR QUALITY REPORT 2002

Illinois Environmental Protection Agency Bureau of Air 1021 North Grand Avenue, East P.O. Box 19276 Springfield, IL 62794-9276

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To Obtain Additional Information

For additional information on air pollution, please call 217-782-7326, or write to:

Illinois Environmental Protection Agency Bureau of Air 1021 N. Grand Ave., East PO Box 19276 Springfield, IL 62794-9276

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Illinois EPA Bureau of Air personnel contributed their time and expertise to the development of this publication.

A MESSAGE FROM THE DIRECTOR

The 32nd Annual Air Quality Report contains information gathered in 2002 from the Illinois EPA's statewide air-monitoring network comprised of more than 200 monitors measuring pollutants and air toxic compounds. The data contained in the report indicates that outdoor air quality in Illinois remained good or moderate 89 percent of the time.

The year 2002 was significant, as it followed a three-year period when air-monitoring equipment in the Illinois portion of the Chicago Metropolitan area did not register any exceedances or ozone levels above the federal one-hour health standard for ozone (smog). Monitoring data was closely observed in 2002 to determine if the area was able to continue to meet the standard. However, as a result of emissions and high temperatures experienced over a short period of time, exceedances were recorded at critical monitoring sites in the region and attainment was not reached.

In 2002, air-monitoring equipment recorded six days when ozone levels exceeded the one-hour standard for ozone. Two of the days occurred in the Metro East region, and the remaining four occurred in the Chicago metropolitan area. According to the Air Quality Index (AQI), Illinois in the Chicago metropolitan area. According to the Air Quality Index (AQI), Illinois in the Chicago metropolitan area.

created by the Illinois EPA and the Partners for Clean Air coalition to encourage individual citizens and businesses to pledge to reduce pollution when ozone levels are high. As a result of such programs, it is estimated that volatile organic compounds are reduced by more than 20 tons

Illinois Annual Air Quality Report 2002

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2002 EXECUTIVE SUMMARY

This report presents a summary of air quality data collected throughout the State of Illinois during the calendar year -

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SECTION 1: AIR POLLUTANTS: SOURCES, HEALTH AND WELFARE EFFECTS

Alterations in airway resistance can occur, especially to those with respiratory diseases (asthma, bronchitis, emphysema). These effects may occur in sensitive individuals, as well as in healthy exercising persons, at short-term ozone concentrations between 0.15 and 0.25 ppm.

Ozone exposure increases the sensitivity of the lung to bronchoconstrictive agents such as histamine, acetylcholine and allergens, as well as increasing the individual's susceptibility to bacterial infection. Simultaneous exposure to ozone and SO₂ can produce larger changes in deposited in the bronchi are removed by the cilia

given ambient air CO concentration, the COHb level in the blood will reach an equilibrium concentration after a sufficient time period. This equilibrium COHb level will be maintained in the blood as long as the ambient air CO level remains unchanged. However, the COHb level will slowly change in the same direction as the CO concentration of the ambient air as a new equilibrium of CO in the blood is established.

The lowest CO concentrations shown to produce adverse health effects result in aggravation of cardiovascular disease. Studies demonstrate that these concentrations have resulted in decreased exercise time before the onset of pain in the chest and extremities of individuals with heart or circulatory disease. Slightly higher CO levels have been associated with decreases in vigilance, the ability to discriminate time intervals and exercise performance. Г

Table 1. Summary of National and minors Amblent An Quanty Standards			
		Standard	
Pollutant	Averaging Time	Primary	Secondary
Standard units are micrograms	s per cubic meter (ug/m^3) and parts j	per million (ppm)	
Particulate Matter 10 micrometers (PM ₁₀)	Annual Arithmetic Mean 24-hour	50 ug/m ³ 150 ug/m ³	Same as Primary Same as Primary
Particulate Matter 2.5 micrometers (PM _{2.5})	Annual Arithmetic Mean 24-hour	15.0 ug/m ³ 65 ug/m ³	Same as Primary Same as Primary
Sulfur dioxide	Annual Arithmetic Mean 24-hour 3-hour	0.03 ppm 0.14 ppm None	None None 0.5 ppm
Carbon Monoxide	1-hour 8-hour	35 ppm 9 ppm	Same as Primary Same as Primary
Ozone	1-hour/day 8-hour/day	0.12 ppm 0.08 ppm	Same as Primary Same as Primary
Nitrogen Dioxide	Annual Arithmetic Mean	0.053 ppm	Same as Primary
Lead	Quarterly Arithmetic Mean	1.5 ug/m ³	Same as Primary
The $PM_{2.5}$ standards are referenced to local conditions of temperature and pressure rather than standard conditions (760 mm and 25 deg C). Note: The State of Illinois has not adopted the $PM_{2.5}$ or 8-hour ozone standards at this time.			

Table 2: Illinois Air Pollution Episode Levels

Pollutant

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mary of Air Quality for 2002

LITY FOR 2002

mber of excursion days in red with one in 2001 and

Figure 2 shows the trend of the total number of days on which one or more sites exceeded the ozone standard in Illinois for the same period 1993-2002. This trend is generally flat with a downward trend since 1995.

Overall, Illinois's weather was above normal in terms of meteorological conditions favorable to ozone formation and transport Statewide.

June and July were the most conducive months in terms of meteorological conditions Statewide. In terms of conducive days, the Chicago area had 35% above the normal number and the Metro-East area had 10% above the normal number.

PARTICULATE MATTER

In 2001 there were 17 sites monitoring PM_{10} . **Figure 3** shows the trend of the statewide annual averages for PM_{10} from 1993-2002. The Statewide average in 2002 was 27 ug/m³ compared with 28 ug/m³ in 2001 and 29 ug/m³ in 2000.

For PM_{10} the Statewide average of the maximum 24-hour averages in 2002 was 78 ug/m³ compared with 79 ug/m³ in 2001 and 89 ug/m³ in 2000. **Figure 4** depicts this trend for

each in East St. Louis and Swansea on July 4. The Statewide peak of 88.8 ug/m^3 was recorded

NITROGEN DIOXIDE

There were no violations of the annual primary standard of 0.053 ppm recorded in Illinois during 2001. The highest annual average of 0.032 ppm was recorded at Chicago - CTA. The Statewide average for 2002 was 0.023 ppm compared with 0.025 ppm in 2001 and 0.022 ppm in 2000.

Three sites only operated during part of the ozone season as PAMS. Figure 7

arsenic was 0.054 ug/m³

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SECTION 3: AIR QUALITY INDEX

The Air Quality Index (AQI) is the national standard method for reporting air pollution levels to the general public in 2002. An index such as the AQI is necessary because there are several air pollutants, each with different typical ambient concentrations and each with different levels of harm, and to report actual concentrations for all of them would be confusing. The AQI uses a single number and a short descriptor to define the air quality in an easy-to-remember and easy-to-understand way, taking all the pollutants into account.

The AQI is based on the short-term Federal National Ambient Air Quality Standards (NAAQS), the Federal episode criteria, and the Federal Significant Harm levels for six of the "criteria pollutants", namely:

- Ozone (O_3)
- Sulfur dioxide (SO₂)
- Carbon monoxide (CO)
- Particulate matter (PM_{10})
- Particulate matter $(PM_{2.5})$
- Nitrogen dioxide (NO₂)

In each case (except PM_{2.5} which uses a lower value), the short-term primary NAAQS corresponds to a AQI of 100 and a descriptor of Unhealthy for Sensitive Groups, the Significant Harm level corresponds to a AQI of 500 and a descriptor of Hazardous, and the episode criteria correspond to intermediate hundreds. NO₂ does not have short-term NAAQSs; AQI begins at 201 for it. For the AQI the health effects and

cautionary statements are pollutant-specific. **Table 3** lists those for 8-hour ozone as an example.

Unhealthy for Sensitive Groups occurs on occasion for 8-hour ozone and $PM_{2.5}$. Unhealthy air quality is uncommon in Illinois, and Very Unhealthful air quality is rare. There has never been an occurrence of Hazardous air quality in Illinois.

The AQI is computed as follows: data from pollution monitors in an area are collected, and the AQI subindex for each pollutant is computed using formulas derived from the indexy:0 Tc 09nois.

. 201 Ss;calendared yen dio3 minoiBj 8.25 -9 TD /F3 8.25 Tf -0.045 Tc

Table 3: AQI Descriptor Categories and Health Effects]
AQI Range	Descript	or Category	
0-50 51-100 101-150 151-200 201-300 301 and above	Good (G Moderate Unhealth Unhealth Very Unh Hazardou) e (M) y for Sensitive Groups (USG) y (UH) nealthy (VUH) ns (HAZ)	
Index & Category	Health Effects	Cautionary Statements	1
101-150, Unhealthy for Sensitive Groups	Health Effects Cautionary Statements Increasing likelihood of respiratory symptoms and breathing discomfort in active children and adults and prople with respiratory disease, such as asthma. (ast 5.5.6& Cat6re f 6064a6& Cat63s0 Tw () T.456 1410 Tj respiratory disease, such as asthma. Possible respiratory effects in general population.64a6& C8.25 0 TD 0 Tc 0 Tw () Tj such as asthma, should avoid prolonged outdoor exertion; everyone e children should limit prolonged outdoor exertion.64a6&78 0 TD Increatingly (string Etfing fating 76.5 1.: and a TD (children and adults and) Tj T such as asthma: increasing likelihood of respiratory effects in general population.64a6&85.5 0 TD such as asthma, should avoid all outdoor exertion; everyone else.		I 5 86.25 0 TI 8672 TD -0. 5 84 re f 550 T* -0.30376 0 Tc 0 Tw Cc 0 Tw () T

 $O_3 = 45$ $SO_2 = 23$ CO = 19 $PM_{10} = 41$ $PM_{2.5} = 61$

Anytown's AQI for that day would be 61, which is in the Moderate category, and the Critical Pollutant would be particulates ($PM_{2.5}$).

The Illinois EPA issues the AQI for 10 areas, or Sectors, in Illinois (**Table 4**). These correspond to metropolitan areas with populations greater than 100,000.

Illinois AQI's are computed from data up to and including the 3 PM local time readings (4 PM during the May – September portion of the Ozone Season) every weekday. A bulletin giving the AQI numbers, descriptors, critical pollutants, and a forecast of the category for the next day's AQI for each of the sectors is issued over the Illinois Weatherwire, a service of the National Weather Service, about 3:30 PM each work day (4:30 PM during the summer). Almost all TV stations and many radio stations and newspapers receive the Illinois Weatherwire, and are therefore able to inform the audience about the AQI either immediately or on the evening news. In the Chicago and Cook County area, AQI's are available on phone recordings maintained by the Cook County Department of Environmental Control and the Chicago Department of the Environment.

If the AQI subindex for any pollutant in any sector should reach or exceed the Unhealthy (or any higher) category late in the afternoon or on weekends when the AQI is not published, the IEPA puts out a special bulletin on the Illinois Weatherwire. If data for one of the pollutants used in computing AQI is missing, the AQI is computed using the data available, ignoring the missing datum. It occasionally happens that two pollutants have the same subindex; in such cases there are two critical pollutants.

2002 Illinois AQI Summary

In order to present a more representative AQI, 24-hour calendar day $PM_{2.5}$ values from the total network were used to determine the percentages in **Figure 9** even though these values were not available for issuing the daily AQI. Air quality was still in the "Good" category most often in 2002. All Sectors had a higher frequency of "Good" than "Moderate" and "Unhealthy for Sensitive Groups" except Chicago and Metro-East. All sectors except Chicago, North & West Suburbs, South & West Suburbs and Metro-East had 75% or more of the days in the "Good" Within AQI sectors there were 7 category. occurrences of Unhealthy and 99 occurrences of Unhealthy for Sensitive Groups air quality in in 2002. The sector breakdown for Unhealthy was 3 in Lake County, 2 in Metro East and 1 each in Chicago and North & West Suburbs. The sector breakdown for Unhealthy for Sensitive Groups was 22 in Metro-East, 16 in Chicago, 15 in the North & West Suburbs, 10 in Will County, 9 in South & West Suburbs, 8 in Lake County, 5 in Bloomington-Normal, 4 in Aurora-Elgin, 4 in Decatur, 3 in Peoria, 2 in Rockford and 1 in Champaign-Urbana. Outside of AQI sectors there were 3 additional occurrences of Unhealthy and 14 additional occurrences of Unhealthy for Sensitive Groups. Figure 9 presents the AQI statistics for each sector. The pie chart shows the percent of time each sector was in a particular category.

In 2002 three ozone advisories were issued in the wh Td11.t

Table 4: AQI Sectors in Illinois		
Chiago Matropolitan Aroa		
Lake County Sector	Lake County only	
North and West Suburbs Sector	Parts of Cook, Du Page, and Mc Henry Counties north of I-290 (the Eisenhower Expressway) and outside of Chicago city limits.	
Chicago Sector	All areas within the city limits of Chicago	
South and West Suburbs Sector	Parts of Cook and DuPage Counties south of I-290 and outside of Chicago city limits	
Will County/Joliet Sector	Will County only	
Aurora-Elgin Sector	The eastern part of Kane County	
Downstate areas: Rockford Sector	Approximately 10 mile diameter circle centered on downtown Rockford	
Quad Cities Sector	Illinois portion of the Quad Cities Area	
Peoria Sector	Approximately 10 mile diameter circle centered on downtown Peoria in parts of Peoria, Woodford and Tazewell Counties	
Champaign Sector	Champaign-Urbana Metropolitan Area	
Normal Sector	Bloomington-Normal Metropolitan Area	
Decatur Sector	Decatur Metropolitan Area	
Springfield Sector	Springfield Metropolitan Area	
Metro East Sector	Illinois portion of the St. Louis Metropolitan Area approximately 15 miles wide east of the Mississippi River in Madison and St. Clair Counties	

III/

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I.





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SECTION 4:

VOLATILE ORGANIC MATERIAL


PARTICULATE MATTER

CARBON MONOXIDE



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NITROGEN OXIDES



APPENDIX A AIR SAMPLING NETWORK

DESCRIPTION OF THE AIR SAMPLING NETWORK

The Illinois air monitoring network is composed of instrumentation owned and operated by both the Illinois Environmental Protection Agency and by cooperating local agencies. A directory of within Illinois local agencies and the environmental agencies of adjacent states can be found in Table A1. This network has been designed to measure ambient air quality levels in the various Illinois Air Quality Control Regions each AQCR (AQCR). Historically, was classified on the basis of known air pollutant concentrations or, where these were not known, estimated air quality. A map of the AQCR's in Illinois and overlapping into surrounding states can be found at the end of this section.

Many local agencies and volunteers cooperate and support the operation of the Illinois air monitoring network. The network contains both continuous and intermittent instruments. The continuous instruments operate throughout the year, while noncontinuous instruments operate intermittently based on the schedule shown in **Table A2**. This is the official noncontinuous sampling schedule used by the Illinois EPA during 2002.

The Illinois network is deployed along the lines described in the Illinois State Implementation Plan. An updated air monitoring plan is submitted to USEPA each year for review. In accordance with USEPA air quality monitoring requirements as set forth in Title 40 of the <u>Code</u> <u>of Federal Regulations</u>, Part 58 (40 CFR 58), four types of monitoring stations are used to collect ambient air data. The types of stations are distinguished from one another on the basis of the general monitoring objectives they are designed to meet

The SLAMS /NAMS /PAMS/ SPMS designations for the sites operated within the State of Illinois are provided by site in the Site Directory (**Table A4**). All of the industrial sites are considered to be SPMS. **Table A3** is a summary of the distribution of SLAMS/NAMS/PAMS/SPMS by pollutant.

1. State/Local Air Monitoring Station (SLAMS) Network - The SLAMS network is designed to meet a minimum of four basis monitoring objectives:

a. To determine the highest concentrations expected to occur in the area covered by the network.

- b. To determine representative concentrations in areas of high population density.
- c. To determine the air quality impact of significant sources or source categories.
- d. To determine general background concentration levels.
- 2. National Air Monitoring Station (NAMS) Network The NAMS network is a subset of stations selected from the SLAMS network with emphasis given to urban and multisource areas. The primary objectives of the NAMS network are:
 - a. To measure expected maximum concentrations.

TABLE A1

DIRECTORY OF REGIONAL AIR POLLUTION AGENCIES

Chicago Department of the Environment 30 N. LaSalle Street, 25th Floor Chicago, Illinois 60602 312/744-7606 Fax 312/744-6451

Cook County Department of Environmental Control 69 W. Washington, Suite 1900 Chicago, Illinois 60602 312/603-8200 Fax 312/603-9828

Indiana Dept. of Environmental Management 100 N. Senate Ave. Indianapolis, Indiana 46204 317/232-8611 Fax 317/233-6647

Iowa Dept. of Natural Resources Air Quality Bureau 7900 Hickman Road Suite 1 Urbandale, Iowa 50322 515/242-5100 Kentucky Dept. for Environmental Protection Air Quality Division 803 Schenkel Lane Frankfort, Kentucky 40601 502/573-3382 Fax 502/573-3787

Michigan Dept. of Natural Resources Air Quality Division P.O. Box 30260 Lansing, Michigan 48909 517/373-7023 Fax 517/373-1265

Missouri Dept. of Natural Resources Division of Environmental Quality P.O. Box 176 205 Jefferson Street Jefferson City, Missouri 65102 573/751-4817 Fax 573/751-2706

Wisconsin Dept. of Natural Resources Bureau of Air Management P.O. Box 7921 101 S. Webster Madison, Wisconsin 53707 608/266-7718 Fax 608/267-0560

b. To measure concentrations in areas where poor air quality6s9lconmbined with high

Table A3 DISTRIBUTION OF AIR MONITORING INSTRUMENTS						
Particulate Matter (PM _{2.5})	0	0	35	0	35	

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AIR QUALITY CONTROL REGIONS

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Statewide Map of Air Monitoring Locations

Table A4	
2002 SITE DIRECTORY	

Table A4 2002 SITE DIRECTORY CITY NAME OWNER/ AIRS CODE ADDRESS OPERATOR UTM COORD. (km) EQUIPMENT COOK COUNTY Calumet City (DISC) Trailer Cook County DEC 4608.775 SLAMS - SO2, NO/NO2, N. (0318003) 1703 State St. E. 452.673 0₃, CO Chicago 4611.594 NAMS - PM₁₀ Carver H.S. Cook County DEC N. (0310060) 13100 S. Doty E. 450.911 Cermak Pump Sta. Chicago Cook County DEC N. 4635.707 SLAMS - Pb (0310026) 735 W. Harrison SPMS - TSP E. 446.469 Chicago CTA Building III. EPA N. 4636.096 NAMS - CO, NO/NO2, SO2 (0310063) 320 S. Franklin E. 447.365

Chicago

Table A4

2002 SITE DIRECTORY

CITY NAME AIRS CODE

ADDRESS

OWNER/ OPERATOR

Table A4

2002 SITE DIRECTORY

CITY NAME		OWNER/			
AIRS CODE	ADDRESS	OPERATOR	UTM	COORD. (km)	EQUIPMENT
KANE COUNTY					
Elgin	Larsen Junior H.S.	III. EPA	N.	4655.844	NAMS - O ₃
(0890005)	665 Dundee Rd.		E.	394.654	
Elain	McKinley School		N	4655 941	SLAMS - PMa -
(0890003)	258 Lovell St		F.	394 048	02/11/0 11/2.5
			с.	00-1.0-10	
LAKE COUNTY					
Libertyville (DISC)	Butterfield Elem. Sch.	III. EPA	N.	4682.279	SLAMS - O3
(0973001)	1441 Lake St.		E.	419.062	SPMS - WS/WD
Waukegan	North Fire Station	III. EPA	N.	4693.854	NAMS - O ₃
(0971002)	Golf & Jackson Sts.		E.	430.744	SPMS - WS/WD ^d
Zion	Camp Logan	III. EPA	N.	4701.795	PAMS - O ₃ , NO/NO ₂ , VOC
(0971007)	Illinois Beach State Park		E.	433.407	WS/WD, SOL, MET
					SLAMS - PM _{2.5}
	Corry Crowe H S		N	4674 000	
(1110001)	Laty Glove H.S.	III. EPA	IN.	4074.900	NAME DM
(1110001)	Ist St. & Thee Oaks Ru.		с.	397.400	3LANIS - FIVI2.5
WILL COUNTY					
Braidwood	Com Ed Training Center	III. EPA	N.	4563.825	PAMS - O2, NO/NO2,
(1971011)	36400 S. Essex Road		E.	400.172	WS/WD, SOL, MET
					SLAMS - PM25
					2.0
Joliet	Pershing Elem. Sch.	III. EPA	N.	4597.636	NAMS - PM10
(1971002)	Midland & Campbell Sts.		E.	406.854	SLAMS - PM _{2.5}
Joliet	Water Plant West	III. EPA	N.	4590.279	NAMS - SO ₂
(1970013)	Rte. 6 & Young Rd.		E.	401.284	SPMS - WS/WD ^a
South Lockport	Fitness Forum	III. EPA	N.	4602.982	SLAMS - O3
(1971008)	2021 Lawrence		E.	412.039	
1					

69 METROPOLITAN QUAD CITIES INTERSTATE (IA - IL)

ROCK ISLAND COUNTY					
Rock Island	Rock Island Arsenal	III. EPA	N.	4598.661	NAMS - O ₃
(1613002)	32 Rodman Ave.		E.	707.185	SLAMS - PM2.5
					SPMS - WS/WD, SOL

	Table A4							
	2002							
		SITE	DIRECTORY					
CITY NAME			OWNER/					
AIRS CODE		ADDRESS	OPERATOR	UTM	COORD. (km)	EQUIPMENT		
ST. CLAIR COUN	тү							
East St. Louis		RAPS Trailer	III. EPA	N.	4277.363	NAMS - SO2, PM10		
(1630010)		13th & Tudor		E.	747.251	SLAMS - NO/NO2, Pb, (Э ₃ ,	
						PM _{2.5} , CO		
						SPMS - TSP, WS/WD		
Sauget (DISC)		IEPA Trailer	III. EPA	N.	4275.123	SLAMS - SO2		
(1631010)		Little Ave.		E.	746.921	2		
Owenees		Village Meintenenes Dida		N	4000 045			
(1634001)		1500 Casevville Ave	III. EPA	IN. F	4268.615 239.086	SLAIVIS - PIVI2.5		
(1001001)					200.000			
71 NORTH CEN	IKAL	ILLINOIS IN I KASTA	IE					
LA SALLE COUN	ITY							
Oglesby		308 Portland Ave.	III. EPA	N.	4573.105	SLAMS - PM _{10,} PM _{2.5}		
(0990007)				E.	328.412	SPMS - WS/WD		
73 ROCKFORD) - JANE	ESVILLE - BELOIT IN	TERSTATE (IL	- WI)				
	INTY							
Loves Park		Maple Elem. Scho12002)	III. EPA	N.	4688.756	NAMS - O3		
(2012002) 8	B E. 3	140 38 Mal Siel A lve.	7	5 E.	332.0998	SPMS - WS/WD	N.	

N.#N.

3D-0.75 Tc 0 Tw (N) Ti 7.50 TD TTc-0.0435 17 () Ti 173250 TWalker2721 Tc 0.2280 TD1 Tc 0 Tw (332.098) Ti 29.250 TDD1 Tc 0 Tw35 Tw () Ti 72

Table A4						
2002 SITE DIRECTORY						
CITY NAME AIRS CODE	ADDRESS	OWNER/ OPERATOR	UTM COORD. (km)	EQUIPMENT		
JACKSON COUNTY Carbondale (0770004)	Maintenance Bldg. 607 E. College	III. EPA Siu	N. 4177.180 E. 305.291	SLAMS - PM ₁₀		
WABASH COUNTY Mount Carmel (1850001)	Division St.	Public Service of Indiana	N. 4249.965 E. 432.444	SPMS - SO ₂		
Rural Wabash County (1851001)	South of SR-1	Public Service of Indiana	N. 4246.929 E. 427.104	SPMS - SO2		
75 WEST CENTRAL	ILLINOIS INTRASTAT	Έ.				
ADAMS COUNTY Quincy (0010006)	St. Boniface Elem. Sch. 732 Hampshire	III. EPA	N. 4421.320 E. 636.351	Slams - PM _{2.5} , SO ₂ , O ₃ SPMS - WS/WD		
JERSEY COUNTY Jerseyville (0831001)	Illini Jr. H.S. Liberty St. & County Rd.	III. EPA	N. 4332.242 E. 731.369	SLAMS - O ₃		
MACON COUNTY Decatur (1150013)	IEPA Trailer 2200 N. 22nd	III. EPA	N. 4414.538 E. 335.308	NAMS - SO ₂ SLAMS - O ₃ , PM _{2.5} SPMS - WS/WD		
MACOUPIN COUNTY Nilwood (1170002)	IEPA Trailer Heaton & Dubois	III. EPA	N. 4364.287 E. 258.053	SLAMS - O ₃ , SO ₂ , Pb,PM ₁₀ SPMS - TSP, WS/WD, SOL CO ₂ , UV		
SANGAMON COUNTY Springfield (1670006)	Sewage Treatment Plant 3300 Mechanicsburg Rd.	III. EPA	N. 4408.650 E. 278.194	Nams - So ₂ SPMS - WS/WD		
Springfield (1670008)	Federal Building 6th St. & Monroe	III. EPA	N. 4408.623 E. 273.327	SLAMS - CO		
Springfield (1670010)	Public Health Warehouse 2875 N. Dirksen Pkwy.	III. EPA	N. 4413.490 E. 277.134	SLAMS - O ₃		
Springfield (1670012)	Agriculture Building State Fair Grounds	II. EPA	N. 4412.240 E. 273.720	SLAMS - PM _{2.5}		

		Table A4	
		2002	
	,	SITE DIRECTORY	
CITY NAME		OWNER/	
AIRS CODE	ADDRESS	OPERATOR	UTM COORD. (km) EQUIPMENT
	Summary of Equ	uipment Codes for the S	Site Directory
TSP	- Total Suspended	l Particulates	
PM_{10}	- Particulate Matte	er (10 microns or smaller))
PM _{2.5}	Particulate Matte	er (2.5 microns or smaller	ſ)
SPEC	- Sulfur Dioxide	UII	
	egist Street 5705-24	5528350257630676	fet4pefrFD fet4pefr7D3B+Fir 72 frFD

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APPENDIX B AIR QUALITY DATA SUMMARY TABLES

AIR QUALITY DATA INTERPRETATION

criteria, these averages may not be representative of an entire year's air quality. In certain circumstances where even the 75% criteria is met, the number and/or magnitude of short term averages may not be directly comparable from one year to the next because of seasonal distributional differences.

For summary purposes, the data is expressed in the number of figures to which the raw data is validated. Extra figures may be carried in the averaging technique, but the result is rounded to the appropriate number of figures. For example, the values 9, 9, 10 are averaged to give 9; whereas the values 9.0, 9.0, 10.0 are averaged to 9.3. The raw data itself should not be expressed to more significant figures than the sensitivity of the monitoring methodology allows.

In comparing data to the various air quality standards, the data are implicitly rounded to the

2002 OZONE IN EXCESS OF THE PRIMARY STANDARD OF ONE HOUR PER DAY GREATER THAN 0.12 PARTS PER MILLION

			MAXIMUM
STATION	ADDRESS	DATE	VALUE (PPM)
67 METROPOLITAN C	HICAGO INTERSTATE (IL - IN	()	
COOK COUNTY			
Chicago - Jardine	1000 E. Ohio	June 24	0.127
LAKE COUNTY			
Waukegan	Golf & Jackson	August 11	0.125
Zion	Camp Logan	June 22	0.136
		June 23	0.1260.127

2002 OZONE IN EXCESS OF THE 8-HOUR PRIMARY STANDARD OF 0.08 PARTS PER MILLION

				MAXIMUM	
DATE	STATION		ADDRESS	VALUE (PPM)	
June 8	Jerseyville		Liberty St.	0.092	
	Normal		Main & Gregory	0.085	
June 9	Alsip		4500 W. 123rd St.	0.088	
	Cary		1st St. & Three Oaks	0.093	
of the fourth of the contract of the second of the	DATE AND A DEPENDENCE AND A DEPENDENCE	HE09900006 685	-D.1093්ණය3300(円.TChjalitesnbarhD -0.0PTc	0 45 Tw () Tj1750.0786977813.0497	oag Road
Je8selyuribeut4500 W.36 Hurlbut	Chicago - Taft	0.090	6545 W. Hurlbut	0.094	
9.66201 \$7956 (NAMERALED & JODDARSO-402)	DTC:UDDiscOPEDAGABasT(vle(r);e	KJ 101942)9 B (33383B).	2500 950966568(Clandaphil2865e(Cl507) WV27(H	20111111111111111111111111111111111111	1624(B)5TjDu(h)1
STEERSE VENTER AT LEDTAD WENERE STEERSTOCK	CO-00.(ONERGOCO)/VZ(B)) 970/v7(5) 6	19.6666 43124588	010 049 578656516 7jiC 42206 212d.G6595717833547(E	kojin3)376j4010655. (Es566)x009707150-00.104375 sæ	wwi≬l)eTj 14

0.090 **095546**a**WKZ #UEDIDUK**SED**EDUGI90**te

2002 OZONE IN EXCESS OF THE 8-HOUR PRIMARY STANDARD OF 0.08 PARTS PER MILLION

			MAXIMUM
DATE	STATION	ADDRESS	VALUE (PPM)
July 7	Lemont	729 Houston	0.091
	Libertyville	1441 Lake St.	0.085
	Lisle	Morton Arboretum	0.091
	Northbrook	750 Dundee Rd.	0.087
	South Lockport	2021 Lawrence	0.087
	Waukegan	Golf & Jackson	0.089
	Zion	Camp Logan	0.089
July 8	Alton	409 Main St.	0.092
	East St. Louis	Poag Road	0.102
	Edwardsville	Poag Road	0.104
	Maryville	200 W. Division	0.119
July 9	Maryville	200 W. Division	0.090
E02012146	so ()v alojeniyi.anii (natav): (Daeniji (Natava i (000	3 00 685620670600800006600700.3 (2 432 13.a&seex	e)07123.057071550)T933.008562T0.709359 JW (2)Tj01661
	Braidwood	36400 S. Essex Rd.IIe5	

2002 OZONE IN EXCESS OF THE 8-HOUR PRIMARY STANDARD OF 0.08 PARTS PER MILLION

							MAXIMUM
DATE		STATION			ADDRESS	V	/ALUE (PPM)
July 25		Alton	E0.087		Poag Road		0.085
July 26		Waukegan			Golf & Jackson		0.090
		Zion			Camp Logan		0.091
August 1		Alton	05		Poag Road		0.085
	-	Wood River 0.0	60	0.005	54 N. Walcott	Chicago M	0.092
August 3 ^W	I	Alton		0.085	409 Main St.	Chicago W	0.093
		Dale			Route 142		0.088
August 4		Alton			Poag Road		0.087
		East St. Louis			13th & Tudor		0.088
		Edwardsville			Poag Road		0.090
		Maryville			200 W. Division		0.090
August 9		Alton			409 Main St.		0.093
Mah9.lton		Chicago - SWFP)		3300 E. Cheltenham		0.085
		Elastatgo Louis			13th & Tudor		0.089
Mathicago	Ø.085	Ethivcag das∨ille		409 Ma	in Botag Road	0.085	0.085
Poag		Blicston			Twp Rds. 150 & 45		0.085

45 &

F

2002 OZONE IN EXCESS OF THE 8-HOUR PRIMARY STANDARD OF 0.08 PARTS PER MILLION

Table B2												
2002 OZONE												
		NUMBER	OF DAYS				HIGHEST	SAMPLE	S			
		GREATER THAN										
					1-H	IOUR			8-	HOUR		
STATION	ADDRESS	0.12 PPM	0.08 PPM	1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	
65 BURLINGTON - KEOKUK INTERSTATE (IA - IL)												
PEORIA COUNTY												
Peoria	Hurlburt & MacArthur	0	0	0.094	0.093	0.092	0.089	0.083	0.082	0.082	0.081	
Peoria Heights	508 E. Glen	0	5	0.104	0.102	0.100	0.095	0.093	0.092	0.091	0.084	
66 EAST CENTRA	66 EAST CENTRAL ILLINOIS INTRASTATE											
CHAMPAIGN COUNTY												
Champaign	606 E. Grove	0	1	0.092	0.091	0.088	0.087	0.090	0.083	0.083	0.082	
McLEAN COUNTY												
Normal	Main & Gregory	0	8	0.095	0.092	0.091	0.090	0.088	0.086	0.085	0.085	
67 ΜΕΤΡΟΡΟΙ ΙΤ		NTEDSI	гате (П	- IN)								
				2 - 114)								
	4500 14/ 400-4 04	0	0	0.445	0.400	0.400	0.404	0.007	0.000	0.004	0.004	
Alsip Columpt City	4500 W. 123rd St.	0	8	0.115	0.108	0.106	0.104	0.097	0.096	0.094	0.094	
	1703 State St. 1000 E. Obio	1	0	0.094	0.091	0.090	0.000	0.079	0.078	0.070	0.074	
Chicago - SE Police	103rd & Luella	0	3	0.127	0.113	0.103	0.103	0.112	0.090	0.037	0.000	
Chicago - SWFP	3300 F Cheltenham	0	13	0.121	0.118	0.109	0.108	0.106	0.103	0.100	0.096	
Chicago - Taft	6545 W. Hurlbut	0	9	0.109	0.104	0.104	0.103	0.097	0.094	0.093	0.092	
Chicago - University	5720 S. Ellis	0	4	0.101	0.096	0.095	0.094	0.093	0.090	0.087	0.085	
Cicero	1830 S. 51st Ave.	0	3	0.104	0.100	0.097	0.096	0.087	0.086	0.086	0.084	
Des Plaines	9511 W. Harrison	0	9	0.115	0.111	0.108	0.107	0.094	0.094	0.093	0.093	
Evanston	531 Lincoln	0	8	0.122	0.114	0.111	0.100	0.105	0.095	0.092	0.091	
Lemont	729 Houston	0	3	0.110	0.101	0.097	0.094	0.096	0.091	0.087	0.081	
Northbrook	750 Dundee Rd.	0	5	0.111	0.103	0.099	0.098	0.096	0.090	0.088	0.087	
Lisle	Morton Arboretum	0	3	0.114	0.104	0.103	0.102	0.091	0.087	0.086	0.084	
KANE COUNTY			_									
Elgin	665 Dundee	0	3	0.103	0.099	0.095	0.093	0.090	0.087	0.086	0.082	
LAKE COUNTY												
Libertyville	1441 Lake St.	0	5	0.112	0.104	0.101	0.101	0.091	0.091	0.090	0.087	
Waukegan	Golf & Jackson	1	7	0.125	0.121	0.115	0.110	0.106	0.105	0.100	0.090	
Zion	Camp Logan	3	9	0.136	0.126	0.125	0.117	0.116	0.113	0.112	0.100	
	1st St & Three Oaks	0	6	0 1 1 0	0 102	0 000	0 008	0 003	0 001	0 001	0 000	
Gary	Tot Ot. & THEE Oaks	U	U	0.110	0.102	0.099	0.090	0.093	0.091	0.091	0.090	
WILL COUNTY												
Braidwood	36400 S. Essex Rd.	0	6	0.105	0.099	0.094	0.094	0.095	0.088	0.087	0.087	
South Lockport	2021 Lawrence	0	7	0.107	0.104	0.097	0.096	0.094	0.088	0.087	0.086	
				- ···	.							
	Primary 1	-Hour Star	ndard 0.12 p	pm; 8-H	our Star	dard 0.0)8 ppm					

Table B2												
2002												
UZUNE												
NUMBER OF DAYS HIGHEST SAMPLES												
		GREATE	R THAN		(parts per million)							
	1000000								8-I			
STATION	ADDRESS	0.12 PPM	0.08 PPM	1ST	2ND	3RD	41H	1ST	2ND	3RD	4TH	
69 METROPOLITAN QUAD CITIES INTERSTATE (IA - IL)												
ROCK ISLAND COUNTY												
Rock Island	32 Rodman Ave.	0	0	0.090	0.086	0.082	0.079	0.084	0.079	0.072	0.072	
70 METROPOLITA	AN ST. LOUIS I	NTERSI	CATE (II	- MO)							
MADISON COUNTY												
Alton	409 Main St.	0	20	0.115	0.113	0.112	0.110	0.102	0.095	0.094	0.094	
Edwardsville	Poag Road	0	8	0.115	0.109	0.102	0.098	0.104	0.096	0.091	0.090	
Maryville	200 W. Division	1	11	0.135	0.111	0.102	0.101	0.119	0.096	0.090	0.090	
Wood River	54 N. Walcott	0	3	0.116	0.102	0.101	0.098	0.092	0.090	0.086	0.084	
Houston	Two Rds 150 & 45	0	5	0 104	0 000	0 008	0.096	0 003	0 001	0.086	0.085	
	1 wp 1 dd 3. 100 d 40	0	0	0.104	0.000	0.000	0.000	0.000	0.001	0.000	0.000	
ST. CLAIR COUNTY												
East St. Louis	13th & Tudor	0	9	0.117	0.115	0.112	0.105	0.103	0.102	0.094	0.093	
0.086												

2002 PARTICULATE MATTER (PM₁₀) (micrograms per cubic meter)

		Tab	le B4								
2002											
SHORT-TERM TRENDS											
STATION	ADDRESS	1997	1998	1999	2000	2001	2002				
		1001	1000	1000	2000	2001	2002				
65 BURLINGTON	- KEOKUK INTERS	TATE (IA	- IL)								
		24	00	00	04	22	24				
Peona	613 N.E. Jellerson	21	20	23	24	22	21				
67 METROPOLIT	AN CHICAGO INTE	RSTATE	(IL - IN)								
	1500 W 122rd St	25	20	25	26	27	22				
Alsip Blue Island	4500 W. 12310 St.	20	3U 22	20	20	21	23				
Chicago - Canvor		20	50	30	30	20	21				
Chicago - Washington HS	3535 E 114th St	51	33	- 52	-	28	24				
Hoffman Estates	1100 W Higgins Rd	21	26	25	21	20	24				
I vons Township	50th St. & Glencoe Ave	34	35	36	35	38	36				
Midlothian	15205 Crawford Ave.	25	28	25	24	26	23				
Summit	60th St. & 74th Ave.	37	35	34	32	+	31				
WILL COUNTY											
Joliet	Midland & Campbell Sts.	23	23	23	+	24	21				
70 METROPOLIT	AN ST. LOUIS INTE	RSTATE	(IL - MO) 0 TD3 7	40. 1 (35 [°]) T37 9 0	T B585 Tc -0.	.0435 Tw			

2002 PARTICULATE MATTER FINE (PM _{2.5}

Table B6														
2002 PARTICULATE MATTER FINE (PM _{2.5}) (micrograms per cubic meter)														
														ANNUAL
														SAMPLING
STATION	ADDRESS	FREQUENCY	TOTAL	>65 ug/m ³	1st	2nd	3rd	4th	MEAN					
69 METROPC	60 METDODOLITAN OLIAD CITIES INTEDSTATE (IA II)													
	07 METROFOLITAN QUAD CITIES INTERSTATE (IA - IL)													
ROCK ISLAND	COUNTY													
Rock Island	32 Rodman Ave.	6-day	59	0	27.5	24.7	24.0	23.0	11.8					
70 METROPO	70 METROPOLITAN ST. LOUIS INTERSTATE (IL - MO)													
MADISON COU	UNTY													
Alton	1700 Annex St.	3-day	118	0	37.5	37.4	34.5	33.1	14.7					
Granite city	23rd & Madison	3-day	112	0	45.6	44.8	42.9	42.7	17.7					
Granite City	2040 Washington	3-day	110	0	47.4	47.1	44.6	37.8	19.6					
Wood River 3	54 N. Walcott	3-day	112	0	39.9	38.1	33.9	31.5	15.1					
RANDOLPH CO	OUNTY													
Houston	Twp Rds. 150 & 45	6-day	58	0	25.8	25.7	25.2	24.6	11.6					
ST. CLAIR CO	UNTY													
East St. Louis	13th & Tudor	3-day	113	1	88.8	41.6	40.9	36.5	16.7					
Swansea	1500 Caseyville Ave.	3-day	112	1	73.8	45.9	37.2	35.1	15.1					
72 NORTH CI	72 NORTH CENTRAL ILLINOIS INTRASTATE													
	INTY													
Oglesby	308 Portland Ave	3-day	118	0	39.0	34.8	31.1	30.2	14.8					
Oal 14.80al		0 ddy		č	00.0	01.0	0	00.2						

Table B7											
2002 CARBON MONOXIDE (parts per million)											
NUMBER OF SAMPLES HIGHEST SAMPLES (ppm)											
		1-HF	8-HR	1-H0	1-HOUR AVERAGE			8-HOUR AVERAGE			
STATION	ADDRESS	TOTAL >35 PP	M >9 PPM	1ST	2ND	3RD	1ST	2ND	3RD		
65 BURLINGTON - KEOKUK INTERSTATE (IA - IL)											
PEORIA COUNTY Peoria	1005 N. University	8683 0	0	5.5	4.7	4.5	4.0	3.0	2.8		
67 METROPOLITAN CHICAGO INTERSTATE (IL - IN)											
COOK COUNTY Calumet City Chicago - CTA Building	1703 State St.	8678 0	0	3.7	3.6	3.6	3.4	2.8	2.4		
Table B9											
---	------------										
2002 SULFUR DIOXIDE (parts per million)											
NUMBER OF SAMPLES HIGHEST SAMPLES	ANNUAL										
3-HR 24-HR 3-HR AVG. 24-HR AVG.	ARITHMETIC										
STATIONS T A T I O N ADDRESSADDRESS Tabbe9STOTTAAL ≸ 01.5 O > N0.14 1ST 2ND 1ST 2ND	2ND										

	Table B9										
		2002 SULFUR DIOX (parts per milli	IDE on)								
		NUMBER OF SA	MPLES	HIGHES	T SAMPLE	S	ANNUAL				
		3-HR	24-HR	3-HR AVG.	24-HF	R AVG.	ARITHMETIC				
STATION	ADDRESS	TOTAL > 0.5	> 0.14	1ST 2ND	1ST	2ND	MEAN				
75 WEST CENTRA	L ILLINOIS INTR	ASTATE									

ADAMBr

2002 SHORT-TERM TRENDS SULFUR DIOXIDE

ANNUAL MEANS (ppm) f 48 TDSTaATIION0.0435 Tw () 0 TDADD RESKIS5 Tw () 0 TD 9523.7Y& 1992885 E 28399TD Tc 327669E0.252642 TD ()27002

65 BURLINGTON - KEOKUK INTERSTATE (IA - IL)

PEORIA COUNTYPEORIA

Table B10											
	2002 SHORT-TERM TRENDS										
SHOKI-TEKM TKENDS SUI FUR DIOVIDE											
SULFUR DIOXIDE											
				AN	NUAL MEAN	NS (ppm)					
STATION	ADDRESS	1997	1998	1999	2000	2001	2002				
75 WEST CENTRAL ILLINOIS INTRASTATE Adams county											
Quincy	732 Hampshire	0.004	0.004	0.005	0.003						

		Table B	11				
	N	2002 ITROGEN D (parts per m	IOXID illion)	E			
				HIGHEST	SAMPI ES		ΑΝΝΠΑΙ
		NUMBER OF	1-H	OUR	24-H	OUR	ARITHMETIC
STATION	ADDRESS	SAMPLES	1ST	2ND	1ST	2ND	MEAN
67 METROPOLITA	N CHICAGO INTER	RSTATE (IL	- IN)				
COOK COUNTY							
Calumet City	1703 State St.	8657	0.083	0.083	0.045	0.045	0.022
Chicago - CTA	320 S. Franklin	8651	0.108	0.106	0.066	0.064	0.032
Chicago - Com Ed	7801 Lawndale	8640	0.098	0.096	0.059	0.052	0.022
Chicago - Jardine ¹	1000 E. Ohio	3190	0.106	0.099	0.052	0.047	+
Cicero	1830 S. 51st Ave.	8234	0.082	0.077	0.049	0.044	0.023
Northbrook	750 Dundee Rd.	8520	0.069	0.060	0.037	0.034	0.017
Schiller Park	4743 N. Mannheim	8415	0.149	0.149	0.088	0.077	0.030
		0110	0.110	0.110	0.000	0.011	0.000
LAKE COUNTY		2222	0.050	0.044	0.017	0.014	
Zion '	Camp Logan	2323	0.050	0.044	0.017	0.014	+
WILL COUNTY							
Braidwood ¹	36400 S. Essex Rd.	3798	0.072	0.067	0.017	0.016	+
70 METROPOLITA	N ST. LOUIS INTER	RSTATE (IL	- MO)				
ST. CLAIR COUNTY	10th 9 Tuder	0057	0.000	0.000	0.007	0.000	0.017
East St. Louis	13th & Tudor	8257	0.066	0.062	0.037	0.036	0.017
1 PAMS monitor operated of	only during "ozone season"						
+ Did nor meet minimum sta	atistical selection criteria (See	Appendix B.1)					

2002 SHORT-TERM TRENDS NITROGEN DIOXIDE

				ANNUAL	MEANS (ppr	m)	
STATION	ADDRESS	1997	1998	1999	2000	2001	2002
67 METROPOLITA	AN CHICAGO INTE	RSTATE	(IL - IN))			
	1700 Chata Ct	0.004	0.005	0.004	0.000	0.004	0.000
	1703 State St.	0.024	0.025	0.024	0.022	0.024	0.022
Unicago - CTA	320 S. Franklin	0.034	0.032	0.032	0.032	0.032	0.032
Dhicago - Com Ed		-	-	-	-	-	0.022
	1820 S. 51St St.	0.027	0.026	0.027	0.027	0.028	0.023
Northbrook	750 Dundee Rd.	+	0.017	0.017	0.018	0.018	0.017
Schiller Park	4743 N. Mannheim	-	0.031	0.031	0.029	0.028	0.030
WILL COUNTY							
3raidwood	36400 S. Essex Rd.	0.009	0.009	0.010	0.009	+	+
70 METROPOLIT	AN ST. LOUIS INTH	ERSTATE	(IL - M	0)			
	10th 9 Tudor	0.010	0.019	0.010	0.019	0.010	0.017
ast St. Louis	13th & Tudor	0.019	0.018	0.019	0.018	0.019	0.017
• • • • • •							
Station not in operation du	uring year shown						
 Did not meet minimum sta 	atistical selection criteria (See	Section B.1)					

2002	
I FAD	
(micrograms per cubic meter)	
NUMBER OF QUARTERS QUARTERLY AVERAGES ANNUA	۸L
STATION ADDRESS >1.5 1st 2nd 3rd 4th MEAN	1

Table B14										
2002 FILTER ANALYSIS DATA (micrograms per cubic meter)										
		TOTAL	HIG	HEST	ARITH.	TOTAL	HIG	HEST	ARITH.	
STATION	ADDRESS	SAMPLES	1st	2nd	MEAN	SAMPLES	1st	2nd	MEAN	
ARSENIC BERYLLIUM										

65 BURLINGTON -

			Tabl	e B14							
2002 FILTER ANALYSIS DATA											
(micrograms per cubic meter)											
		TOTAL	Н	GHEST	ARITH.	TOTAL	HIC	HEST	ARITH.		
STATION	ADDRESS	SAMPLES	1st	2nd	MEAN	SAMPLES	S 1st	2nd	MEAN		
							CIID				
65 DUDI INCTO			CAD				CHR	JMIUM			
05 BUKLINGI	JIN - KEUKUK IIN I	EKSIAI	LE (IA	- IL)							
PEORIA COUNTY											
Peoria	613 N.E. Jefferson	58	0.000	0.000	0.000	58	0.004	0.004	0.000		
67 METROPOL	ITAN CHICAGO I	NTERST	ATE	(IL - IN))						
COOK COUNTY											
Alsip	4500 W. 123rd. St.	59	0.003	0.003	0.001	59	0.014	0.013	0.004		
Chicago - Cermak	735 W. Harrison	58	0.016	0.005	0.002	58	0.022	0.020	0.007		
Chicago - Mayfair	4850 Wilson Ave	59	0.005	0.002	0.001	59	0.017	0.013	0.005		
Chicago - Washington	3535 E. 114th St.	58	0.003	0.002	0.002	58	0.023	0.019	0.006		
Maywood	1500 Maybrook Dr.	45	0.004	0.003	0.002	45	0.037	0.027	0.013		
Northbrook	750 Dundee Rd	56	0.000	0.000	0.000	56	0.000	0.000	0.000		
Schiller Park	4743 N. Mannheim Rd.	60	0.003	0.000	0.000	60	0.008	0.008	0.003		
Summit	60th St. & 74th Ave.	56	0.003	0.003	0.001	56	0.037	0.021	0.013		
70 METROPOL	ITAN ST. LOUIS I	NTERST	ATE	(IL - M())						
MADISON COUNT	ſY										
Granite City	15th & Madison	57	0.003	0.003	0.000	57	0.011	0.011	0.004		
Wood River	54 N. Walcott	60	0.003	G .000	0.000	600	0.004	0.004	0 .004		

0.00

2002 FILTER ANALYSIS DATA (micrograms per cubic meter)

TOTAL	HIGHEST	ARITH.	TOTAL	HIGHEST	ARITH.
101/12		/ 4 (111 1.	101/12		/

Table B14												
			20	002								
		FILTEF	R ANA	LYSIS	DATA							
(micrograms per cubic meter)												
	TOTAL HIGHEST ARITH TOTAL HIGHEST ARITH											
OTATION	1000500		HI	GHESI	ARITH.		HIC	HESI	ARITH.			
STATION	ADDRESS	SAMPLES	1st	2nd	MEAN	SAMPLES	1st	2nd	MEAN			
NITRATES SULFATES												
65 BURLINGTO	ON - KEOKUK IN	TERSTAT	E (IA	- IL)								
PEORIA COUNTY												
Peoria	613 N.E. Jefferson	58	13.5	13.1	5.2	58	18.3	17.7	7.8			
67 METROPOL	ITAN CHICAGO	INTERST	ATE ((IL - IN))							
COOK COUNTY												
Alsip	4500 W. 123rd. St.	59	18.8	14.3	6.2	59	17.8	14.5	8.0			
Chicago - Cermak	735 W. Harrison	58	17.2	16.1	6.4	58	18.7	15.3	8.7			
Chicago - Mayfair	4850 Wilson Ave	59	21.6	13.5	6.3	59	17.5	16.0	8.5			
Chicago - Washington	3535 E. 114th St.	58	18.6	16.7	6.0	58	19.4	15.0	8.7			
Maywood	1500 Maybrook Dr.	45	13.2	11.6	5.5	45	18.0	17.1	9.9			
Northbrook												

		Table	B15						
		20((JUNE - A)2 UGUST))					
VOLATILE ORGANIC COMPOUNDS (parts per billion carbon)									
		F	IIGHEST SA	MPLES (ppb	c)				
STATION	ADDRESS	1ST	24-H 2ND	3RD	4TH	AVERAGE			
67 METROPOL	ITAN CHICAGO IN	TERSTATE	(IL - IN)						
COOK COUNTY									
Chicago	1000 E. Ohio								
COMPOUNDS									
Ethane		15.8	11.6	10.5	9.9	5.4			
Ethylene		6.8	5.7	5.1	5.1	2.0			
Propane		61.0	58.3	52.2	46.3	9.0			
Propylene		4.5	4.1	3.5	3.3	1.4			
Acetylene		2.3	2.0	1.9	1.7	0.6			
N - Butane		7.1	6.8	6.5	5.3	2.3			
		4.5	3.5	3.4	3.1	1.1			
Trans - 2 - Butene		0.2	0.2	0.2	0.2	0.0			
Cis - 2 - Butene		0.2	0.1	0.1	0.1	0.0			
N - Pentane		5.6	5.1	5.0	4.8	1.9			
Isopentane		16.4	14.5	12.4	12.0	4.8			
1 - Pentene		0.6	0.3	0.2	0.2	0.0			
Trans - 2 - Pentene		1.4	0.4	0.3	0.3	0.0			
Cis - 2 - Pentene		0.6	0.1	0.1	0.1	0.0			
3 - Methylpentane		3.2	3.1	3.0	2.8	0.8			
N - Hexane		6.2	3.6	3.5	3.1	1.1			
N - Heptane		4.6	2.0	1.9	1.8	0.6			
N - Octane		2.0	1.1	1.1	1.0	0.2			
N - Nonane		17.1	13.1	5.8	5.8	1.5			
Cyclopentane		1.0	0.8	0.4	0.4	0.0			
Isoprene		1.6	0.7	0.7	0.6	0.1			
2,2 - 0.6 Octa	ane								

2002 (JUNE - AUGUST)

VOLATILE ORGANIC COMPOUNDS (parts per billion carbon)

		Н	IGHEST SAI	MPLES (ppb	c)		
			24-HOUR				
STATION	ADDRESS	1ST	2ND	3RD	4TH		

2002 (JUNE - AUGUST)

VOLATILE ORGANIC COMPOUNDS (parts per billion carbon)

		Н	IIGHEST SA				
			24-H	OUR		JUN - AUG	
STATION	ADDRESS	1ST	2ND	3RD	4TH	AVERAGE	
LAKE COUNTY							
Zion	Camp Logan						
COMPOUNDS							
Ethane		9.5	5.8	5.7	5.6	3.6	
Ethylene		3.2	1.9	1.7	1.5	0.7	
Propane		7.2	7.1	6.8	5.6	3.1	
Propylene		2.7	1.6	1.6	1.5	0.8	
Acetylene		0.8	0.6	0.6	0.5	0.2	
N - Butane		5.2	3.5	3.5	3.5	1.7	
Isobutane		2.5	2.5	1.9	1.8	0.9	
Trans - 2 - Butene		1.1	1.0	1.0	0.8	0.1	
Cis - 2 - Butene		1.6	1.6	1.5	1.5	0.3	
N - Pentane		6.1	5.4	4.5	3.6	1.6	
Isopentane		11.6	8.5	8.4	8.2	4.7	
1 - Pentene		0.9	0.8	0.7	0.3	0.0	
Trans - 2 - Pentene		0.8	0.8	0.7	0.4	0.0	
Cis - 2 - Pentene		1.2	1.0	0.9	0.7	0.0	
3 - Methylpentane		2.1	2.0	1.8	1.6	0.6	
N - Hexane		2.5	2.0	1.3	1.2	0.4	
N - Heptane		1.2	1.2	1.2	1.1	0.3	
N - Octane		0.8	0.8	0.8	0.6	0.1	
N - Nonane		4.6	0.7	0.7	0.6	0.2	
Cyclopentane		0.7	0.7	0.7	0.7		

2002 (JUNE - AUGUST)

VOLATILE ORGANIC COMPOUNDS (parts per billion carbon)

		F	JUN - AUG				
STATION	ADDRESS	1ST	2ND	3RD	4TH	AVERAGE	
COMPOUNDS							
O - Xylene		1.4	1.4	1.3	1.3	0.5	
M/P Xylene		3.8	3.2	3.1	2.8	1.1	
1,3,5 - Trimethylbenzene	9	1.9	1.7	1.6	1.2	0.3	
1,2,4 - Trimethylbenzene	9	11.7	11.5	11.5	10.8	2.7	
N - Propylbenzene		2.7	1.2	0.4	0.4	0.1	
Isopropylbenzene		1.2	0.7	0.6	0.5	0.0	
Styrene		3.9	3.6	3.5			

Table B17								
2002 PM _{2.5} SPECIATION								
HIGHEST SAMPLES (ug/m3)								
STATION	ADDRESS	1ST	2ND	3RD	4TH	AVERAGE		
67 METROPOL	ITAN CHICAGO INT	FERSTATE	(IL - IN)				
COOK COUNTY								
Chicago - Com Ed	7801 Lawndale							
MAJOR CONSTITUE	INTS							
Inorganic Elements		76	50	17	17	0.6		
Ammonium		8.8	8.0	6.4	4.8	2.0		
Nitrate		13.6	11.0	7.6	7.5	2.6		
Sulfate		21.2	15.1	11.8	11.7	3.9		
Elemental Carbon		1.6	1.5	1.4	1.3	0.6		
Organic Carbon		8.3	7.7	7.5	7.4	3.2		
Chicago - Springfield	1745 N. Springfield Ave	9.						
MAJOR CONSTITUE	INTS							
Inorganic Elements		6.3	2.8	2.0	1.6	0.8		
Ammonium		5.3	4.8	4.7	4.2	2.0		
Nitrate		15.2	13.6	9.7	8.4	3.4		
Sulfate		12.4	9.4	9.0	8.5	3.5		
Elemental Carbon		2.3	2.3	1.6	1.6	0.8		
Organic Carbon		8.2	8.1	8.0	7.6	4.6		
70 METROPOLI	TAN ST. LOUIS INT	ERSTATE	(IL - MO))				
MADISON COUNTY								
Alton	1700 Annex St.							
MAJOR CONSTITUENTS								
Inorganic Elements		6.9	1.5	0.9	0.8	0.4		
Ammonium		4.6	4.2	4.0	4.0	1.8		
Nitrate		8.8	8.2	7.3	7.2	3.1		
Sulfate		13.9	10.3	9.1	8.4	3.1		
Elemental Carbon		1.3	1.2	0.9	0.8	0.4		
Organic Carbon		8.8	6.4	5.8	5.7	2.9		
1								

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APPENDIX C POINT SOURCE EMISSION INVENTORY SUMMARY TABLES

Table C1

2002 Point Source Emission Distribution (Tons/Year)

Category

Carbon Monoxide Nitrogen Particulate Oxides

Matter

Sulfur Dioxide

Volatile

Table C1

2002 Point Source Emission Distribution (Tons/Year)

Category	Carbon Monoxide	Nitrogen Oxides	Particulate Matter	Sulfur Dioxide	Volatile Organic Material
olid Waste Disposal					
Government	2036.7	1248.2	535.2	331.0	352.3
Commercial/Institutional	309.7	98.3	115.5	38.0	32.5
Industrial	2465.0	669.2	237.6	386.9	226.1
Site Remediation	10.4	7.0	88.3	26.6	990.7
MACT Processes					
Food and Agriculture Processes	0.0	0.0	0.0	472.6	42.8
Agricultural Chemical Production	0.0	0.0	0.0	0.0	1.7
Styrene or Methacrylate Based Resins	0.0	0.0	5.5	0.0	68.2
Cellulose Based Resins	0.0	0.0	0.2	0.0	0.0
Miscellaneous Resin Production	0.0	0.0	3.4	0.0	228.5
Vinyl Based Resins	0.0	0.0	240.0	0.0	124.0
Miscellaneous Polymers	0.0	0.0	3.2	0.0	16.7
Fibers Production	0.0	0.0	0.2	0.0	0.3
Consumer Product Mfg Facilities	0.0	0.0	0.3	0.0	57.0
Miscellaneous Processes	0.0	0.0	0.9	0.0	3.8
Paint Stripper Use	0.0	0.0	0.0	0.0	1.0
Phthalate Plasticizers Production	0.0	0.0	0.0	0.0	0.7
otals	99,173.4	301,215.7	79,140.9	531,35 0 TD -0	.TD ()Tj 180

Table C2								
2002 Estimated County Stationary Point Source Emissions (Tons/Year)								
County	Carbon Monoxide	Nitrogen Oxides	Particulate Matter	Sulfur Dioxide	Volatile Organic Material			
Adams	342.3	425.6	542.3	2,411.8	2,080.0			
Alexander	41.6	277.1	478.7	459.9	63.3			
Bond	178.6	39.0	75.0	17.6	37.0			
Boone	123.4	265.2	246.6	314.4	859.4			
Brown	15.9	9.0	31.5	1.3	3.9			
Bureau	46.6	74.8	336.9	34.8	283.2			
Calhoun	0.6	0.7	34.5	0.0	0.0			
Carroll	28.7	20.2	112.3	5.2	149.4			
Cass	55.2	116.7	157.3	15.9	50.3			
Champaign	931.7	2,290.2	702.5	2,111.1	1,131.2			
Christian	1,126.5	20,355.7	580.6	15,984.5	167.0			
Ctarks	27.3	283.2283.	25580.6					

Table C2								
2002								
Esti	mated County St	ationary Point	Source Emissi	ons (Tons/Year)				
County	Carbon Monoxide	Nitrogen Oxides	Particulate Matter	Sulfur Dioxide	Volatile Organic Material			
Hardin	5.1	8.7	98.0	30.0	2.2			
Henderson	0.4	0.0	137.5	0.0	3.4			
Henry	1,062.7	3,750.7	360.1	39.9	382.3			
Iroquois	31.0	84.4	730.6	4.4	294.3			
Jackson	269.4	224.1	76.1	763.6	444.3			
Jasper	1,015.3	5,565.9	1,075.5	8,527.3	167.5			
Jefferson	40.9	165.4	558.3	185.9	361.7			
Jersey	0.7	0.0	73.9	0.0	17.5			
Jo Daviess	266.7	331.4	505.9	0.7	714.7			
Johnson	45.1	38.3	89.5	370.3	61.3			
Kane	808.6	1,195.6	994.6	383.1	1,930.0			
Kankakee	1,129.2	3,773.9	919.9	31.3	1,628.4			
Kendall	424.1	1,365.8	233.0	328.2	553.1			
Knox	101.5	258.6	215.7	96.6	161.8			
Lake	2,524.4	10,387.6	2,484.8	12,717.6	1,752.6			
La Salle	4,513.9	5,018.7	2,635.9	1,809.9	1,787.6			
Lawrence	10.8	45.1	77.8	63.1	52.1			
Lee	221.1	144.8	370.1	41.7	507.7			
Livingston	712.3	911.8	813.2	35.7	1,051.8			
Logan	74.8	406.2	533.5	645.9	150.8			
McDonough	133.9	493.3	252.3	794.5	127.7			
McHenry	519.0	1,309.3	635.5	34.3	902.0			
McLean	303.7	707.6	951.4	39.8	3,356.1			
Macon	2,980.8	12,680.0	4,924.7	17,474.1	7,533.7			
Macoupin	6.4	16.5	248.7	3.4	142.2			
Madison	18,811.4	19,918.4	5,915.5	50,350.7	4,969.5			
Marion	42.6	61.8	179.3	7.7	1,283.4			
Marshall	57.8	322.7	361.2	3,894.6	177.2			
Mason	222.1	3,638.4	435.7	8,128.6	40.9			
Massac	1,823.8	12,588.6	2,405.4	26,091.7	305.1			
Menard	18.9	0.3	72.7	0.0	16.4			
Mercer	0.1	4.0	167.0	0.2	19.9			
Monroe	1.1	7.0	144.4	0.0	36.4			
Montgomery	566.7	16,585.6	751.4	42,465.0	119.9			

Table C2

Table C3

Annual Estimated Emissions Trends (Tons)

Year

Carbon Monoxide Nitrogen Or3P9 Tj 390 TD 0 Tc -,

APPENDIX D

THE BUREAU OF AIR/ DIVISION OF AIR POLLUTION CONTROL

Organization and Programs

The Bureau of Air consists of two divisions: the Division of Air Pollution Control and the Division Vehicle of Inspection and Maintenance. The focus of this section is on the programs of the Division of Air Pollution Control which is responsible for developing, implementing and enforcing regulations to assure that the air we breathe is clean and healthful. This mission is accomplished by finding, correcting and controlling air pollution hazards. The Division of Air Pollution Control also works to prevent air quality problems from occurring in areas which have clean air.

The basic strategy to improve air quality is to control the pollutants which are emitted by industry and motor vehicles. This strategy requires the IEPA to monitor the air, identify emission sources, impose limitations on the amount of emissions which can be released to the air and take the necessary enforcement action against violators.

The Division of Air Pollution Control is divided into five sections: Air Monitoring, Air Quality Planning, Compliance and Enforcement, Permits, and Field Operations. Each of these sections is briefly described below.

Air Monitoring

The Division of Air Pollution Control operates a statewide air quality monitoring network which includes more than 200 monitors. The Air Monitoring Section is responsible for the maintenance of this network, which operates year round monitoring the quality of the air that we breathe.

The IEPA monitors the air for a variety of pollutants including particulate matter, sulfur dioxide, ozone, carbon monoxide, lead and nitrogen dioxide. Specialized sampling projects for other hazardous pollutants are also conducted by the Air Monitoring Section.

Illinois residents can be proud of the IEPA's record of efficiency in data collection. The system ranks as one of the best in the nation with over 90 percent efficiency in the collection of high quality data. This high efficiency rate guarantees that the network is operating with a minimum amount of "down-time" thereby providing the IEPA with a complete and accurate description of air quality in Illinois.

The Air Monitoring Section is also responsible for validating and summarizing the data in this report. It provides notification of air quality exceedances and issues any episodes as required. Special air quality studies are performed which identify pollution trends and evaluate special air quality problems.

Air Quality Planning

The Air Quality Planning Section is responsible for developing Agency programs which are designed to achieve and maintain National Ambient Air Quality Standards and to prevent deterioration of air quality. This is accomplished by:

- Assessment of strategies and technologies for the elimination or reduction of air pollutant emissions.
- Conducting and reviewing detailed air quality studies using computerized air quality models.
- Proposing and supporting regulatory revisions where they are necessary to attain or maintain healthful air quality.

- Coordination with local planning agencies to ensure compatibility of air quality programs between state and local jurisdictions.
- Coordination of the Bureau's Stationary Source Inventory.

Compliance and Enforcement

The Compliance and Enforcement Section provides Management oversight for all aspects of the compliance program.

The work of the section is currently focused on the following areas:

- Formulating and interpreting policy regarding the Bureau's Air Pollution Compliance and Enforcement Program.
- Coordinating the Air Pollution Compliance and Enforcement Program with USEPA's Compliance and Enforcement Program.
- Coordinating, through the Bureau's Compliance Decision Group, the work of the Bureau's staff in order to provide an effective and efficient compliance program.
- Evaluate the Annual Emission Reports provided by Illinois industry.
- Oversees the source emissions monitoring program including continuous emission monitors (cems), stack testing, and escess emissions reporting

Permits

Permits are required in Illinois prior to construction and operation of emission sources and control equipment. The permit program provides a consistent and systemic way of ensuring that air emission sources are built and operated in compliance with air pollution control regulations. In a permit application the IEPA requires: a description of the emission source, a list of types and amounts of the contaminants which will be emitted, and a description of the emission control equipment to be utilized. This information is used to determine if the emissions comply with standards adopted by the Illinois Pollution Control Board. Operating permits are granted for periods up to five years, after which they must be renewed. Operating permits for smaller facilities may run indefinitely. When a facility constructs a new emission source or makes modifications to existing emission sources, it must apply for a new construction permit.

Large sources also need a Federal Operating Permit which is administered by the IEPA. Under the Clean Air Act Permit Program (CAAPP) these large sources will be required to consolidate all of their existing State operating permits into one permit which will be available for public review and is subject to Federal oversight.

Field Operations

The Field Operations Section investigates sources of air pollution and works with industry to control air pollution. The major functions of the Field Operations Section include locating and identifying sources of air pollution, determining the amount of pollution emitted and verifying the information which industry submits when applying for a permit. Field Operations also initiates much of the IEPA's enforcement activities when violations are discovered. Approximately 3,000 investigations and inspections are conducted each year.

Table D1

BUREAU OF AIR

Dave Kolaz, Bureau Chief (217) 785-4140

DIVISION OF AIR POLLUTION CONTROL

Laurel Kroack, Division Manager (217) 785-4140

AIR MONITORING SECTION

Terry Sweitzer, Manager (217) 782-5811

AIR QUALITY PLANNING SECTION

Don Sutton, Acting Manager (217) 524-4343

COMPLIANCE AND ENFORCEMENT SECTION

Julie Armitage, Acting Manager (217) 782-5811

PERMITS SECTION

Jim Ross, Acting Manger (217) 782-2113

FIELD OPERATIONS SECTION

Ed Bakowski, Manager (217) 785-2011

Harish Narayen Region I 9511 W. Harrison Street Des Plaines, Illinois 60016 (847) 29 Dean Hayden, Acting Region II 5415 North University Peoria, Illinois 61614 John Justice Region III 2009 Mall Street Collinsville, Illinois 62234