TOXIC AIR POLLUTION IN JEFFERSON COUNTY, ALABAMA

HEALTH RISKS, ENVIRONMENTAL INJUSTICE, AND PROPOSED REGULATORY SOLUTIONS

Presented By
LEGAL ENVIRONMENTAL ASSISTANCE FOUNDATION, INC.
[www.leaflaw.org]
June 17, 2006

ADEM REFORM COALITION
Environmental Justice and Human Health Agenda

1. Establish a Division of Environmental Justice and Health
2. Prepare disparate impact assessments for permitted activities (diligent implementation of Title VI of the Civil Rights Act)
3. Adopt rules establishing health-based limits for single and multiple pollutant exposures
4. Enact legislation prohibiting disparate impacts on minority and poor communities in the permitting of pollution sources
5. Include demographic data in public notices of proposed permits
6. Increase diversity in ADEM workforce

PREVIOUS PRESENTATIONS AND SUBMISSIONS TO THE EMC

Race, Poverty and Environmental Burdens: Injustice in Alabama
Part I – Municipal Solid Waste Landfills
August 24, 2004 (Rev. Oct. 2004)

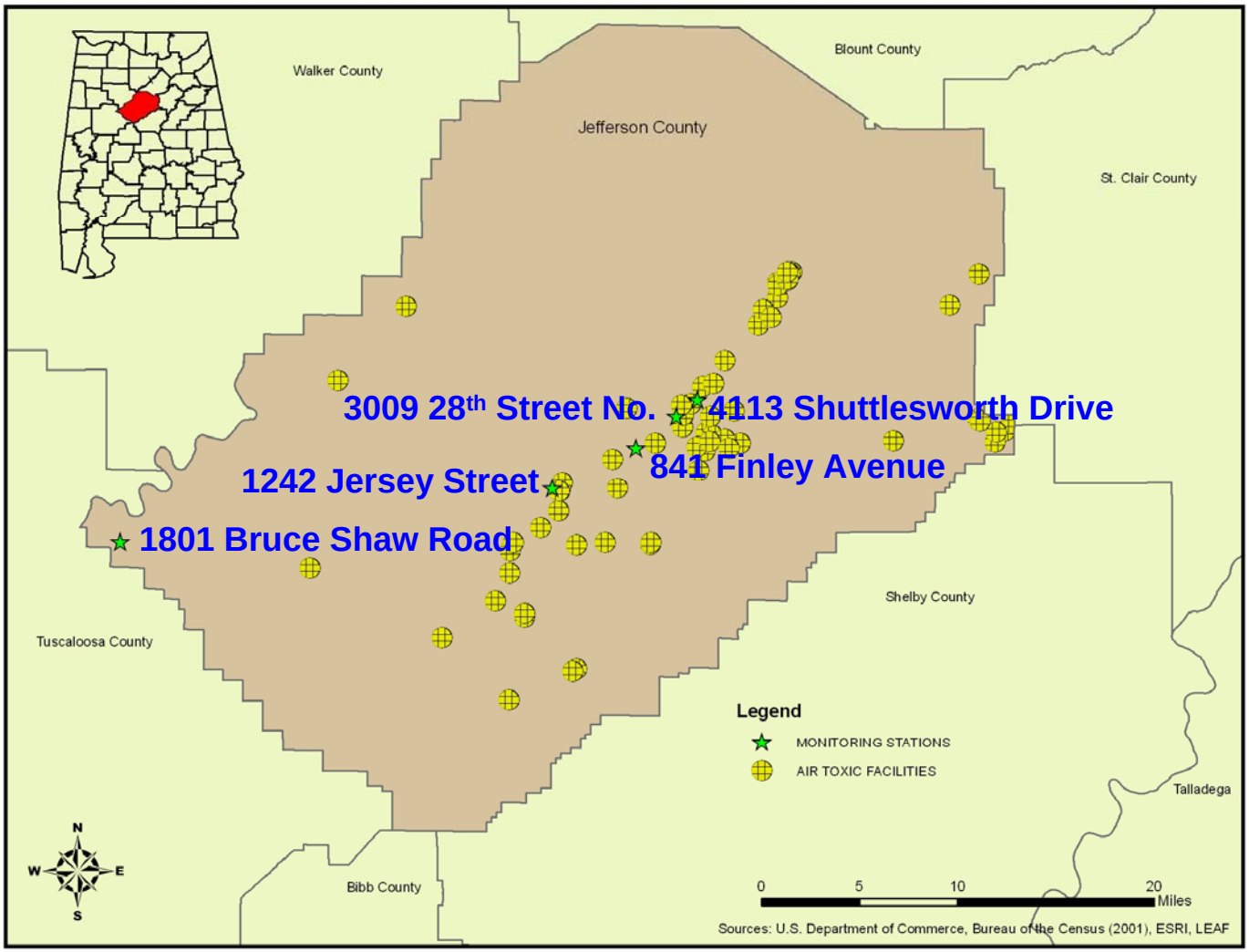
Race, Poverty and Environmental Burdens: Injustice in Alabama
Part II – Toxic Air Pollution Facilities
September 13, 2004 (Rev. Oct. 2004)

Introduction to Cumulative Health Risk Assessment
April 8, 2005

Cumulative Health Risks of Selected Air Pollutants and Implications for Environmental Justice in Mobile County, Alabama
November 4, 2005

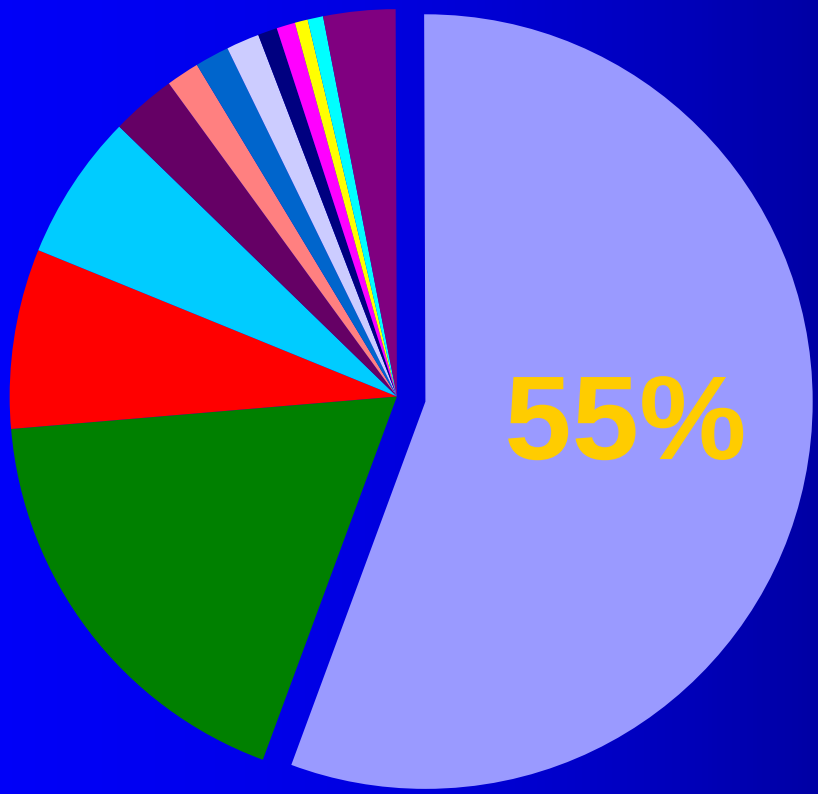
www.leaflaw.org

Toxic Air Pollution Facilities and Ambient Air Monitoring Stations in Jefferson County, AL



Source: U.S. EPA Risk-Screening Environmental Indicators Model, 2002 TRI Emissions

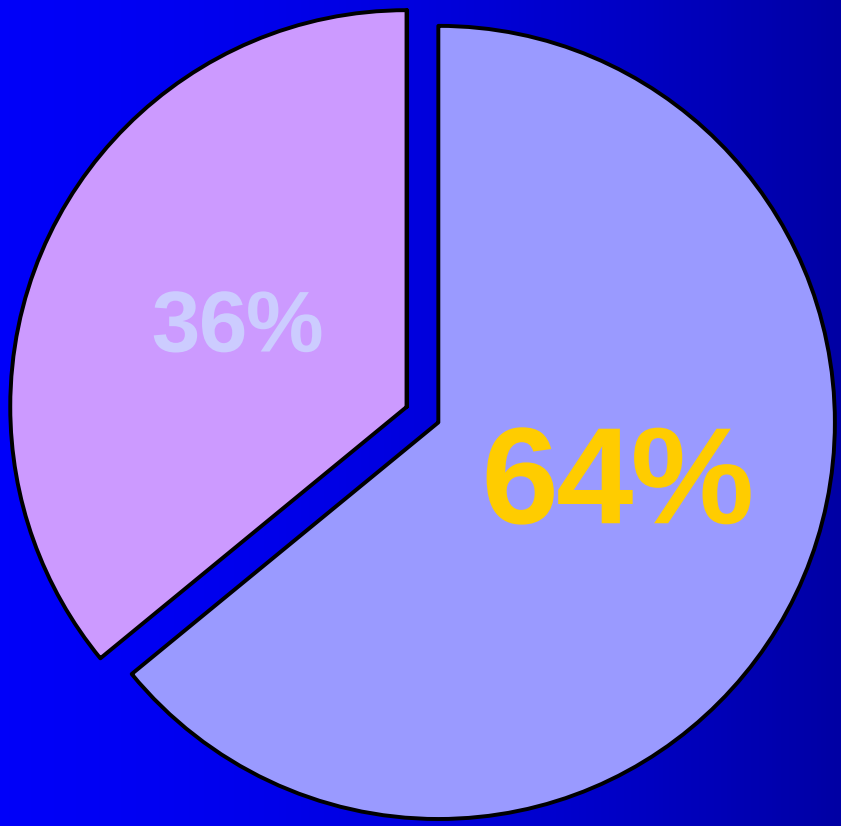
Estimated Relative Contribution to Population Health Risk (Dose x Tox x Pop) by Toxic Air Pollutants Emitted by Facilities in Jefferson County, AL



- Manganese & Compounds
- Lead & Compounds
- Cadmium & Compounds
- Chromium & Compounds
- Carbonyl sulfide
- Polycyclic aromatic compounds
- Nickel & Compounds
- Xylene (mixed isomers)
- Naphthalene
- Hydrogen fluoride
- Zinc compounds
- Formaldehyde
- Other

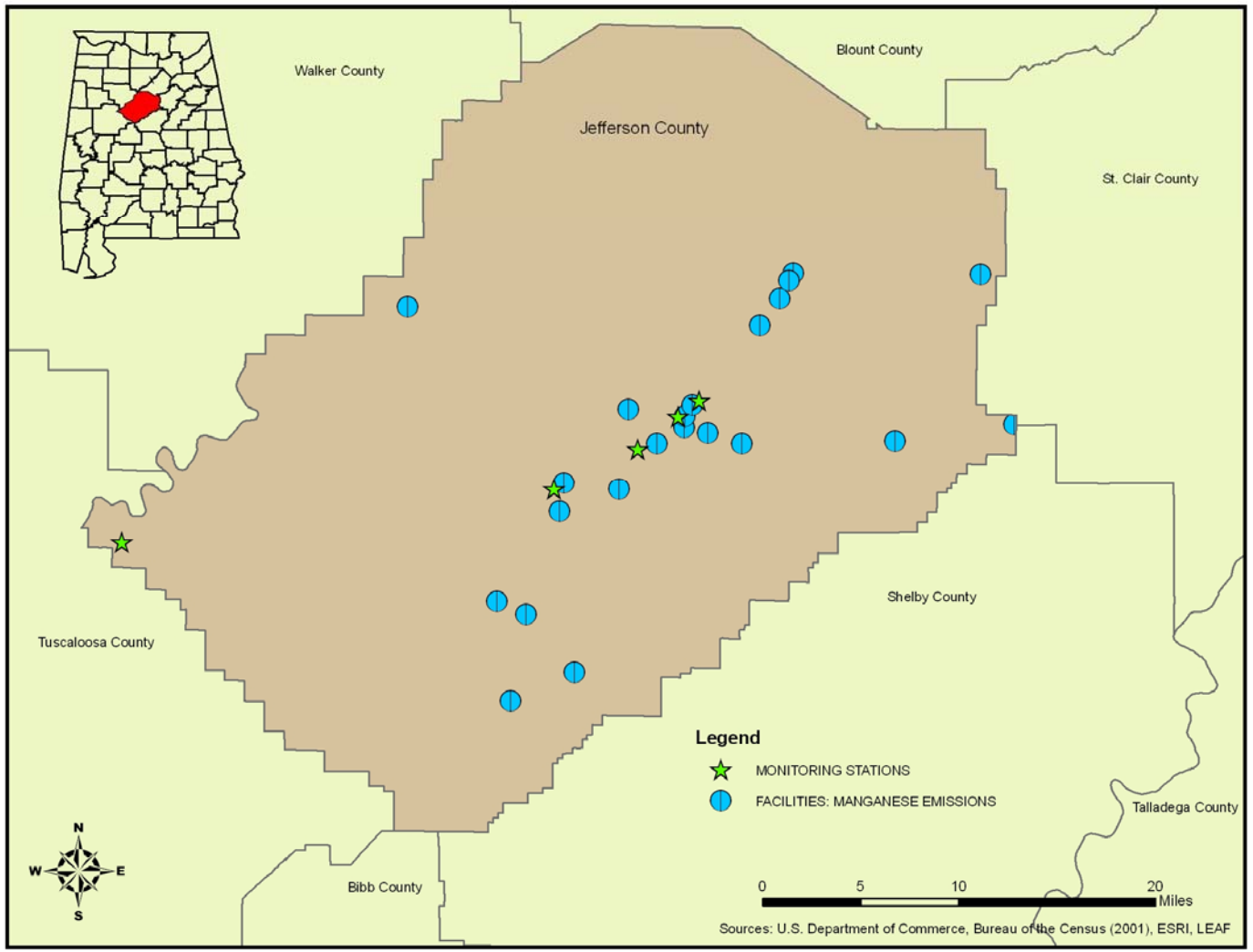
Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Relative Contribution of Manganese Emission Sources in Jefferson County, AL



Source: U.S. EPA, Jefferson County, AL Emissions Report of Hazardous Air Pollutants, 1999

Manganese Emission Facilities (23) and Ambient Air Monitoring Stations (5) in Jefferson County, AL



Source: U.S. EPA Risk-Screening Environmental Indicators Model, 2002 TRI Emissions

Manganese

Safe Chronic Exposure Concentration (*RfC*) = 0.05 μg/m^3

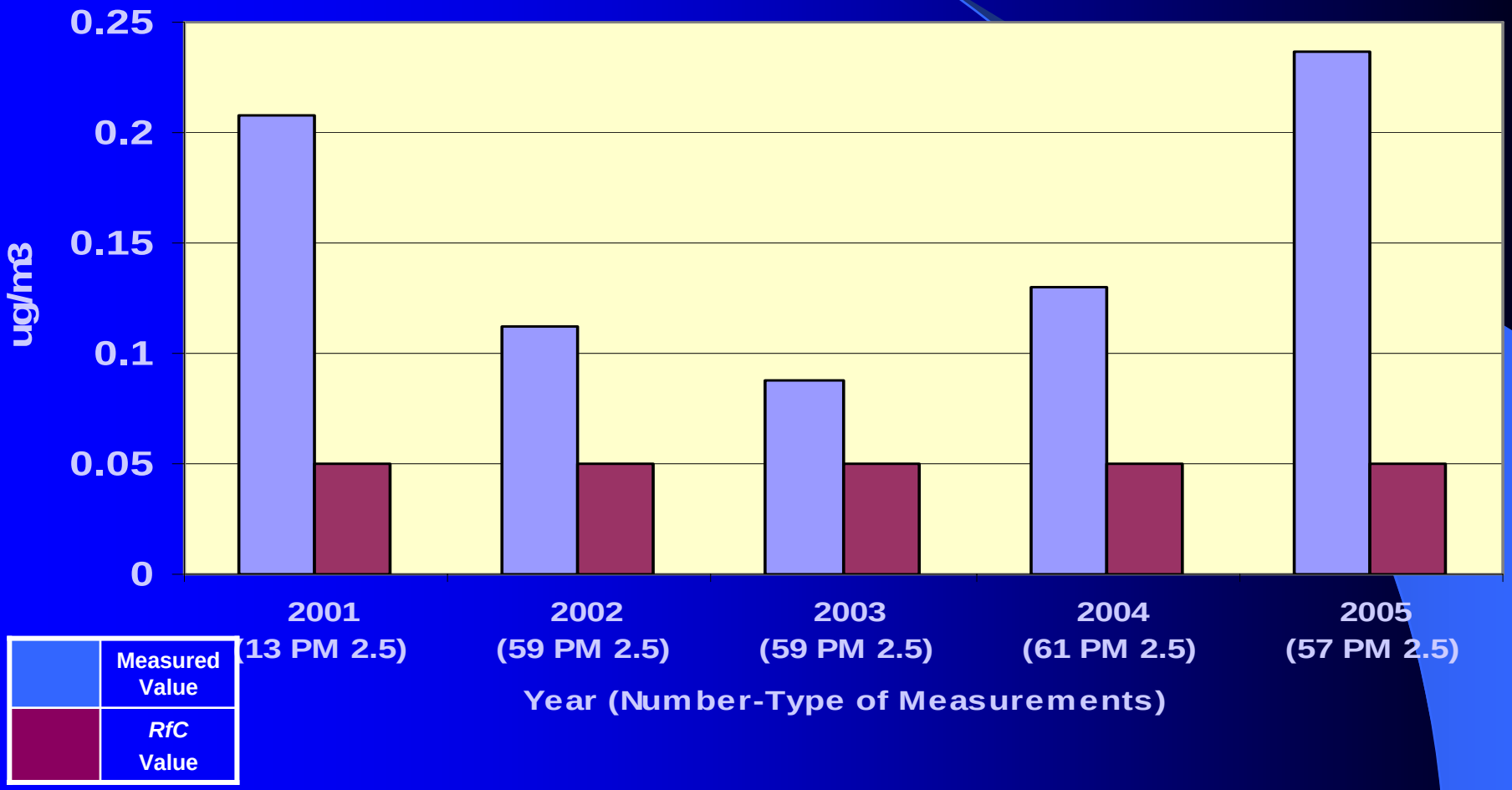
Source: U.S. EPA Integrated Risk Information System (IRIS)

Some Health Effects from Excessive Exposure to Manganese

Cough
Bronchitis
Shortness of Breath During Exercise
Susceptibility to Infectious Lung Disease
Slow Visual Reaction Time
Poor Hand Steadiness
Impaired Eye-Hand Coordination
Weakness and Lethargy
Gait Disturbances
Clumsiness
Tremors
Speech Disturbances
Mask-Like Facial Expression
Psychological Disturbances

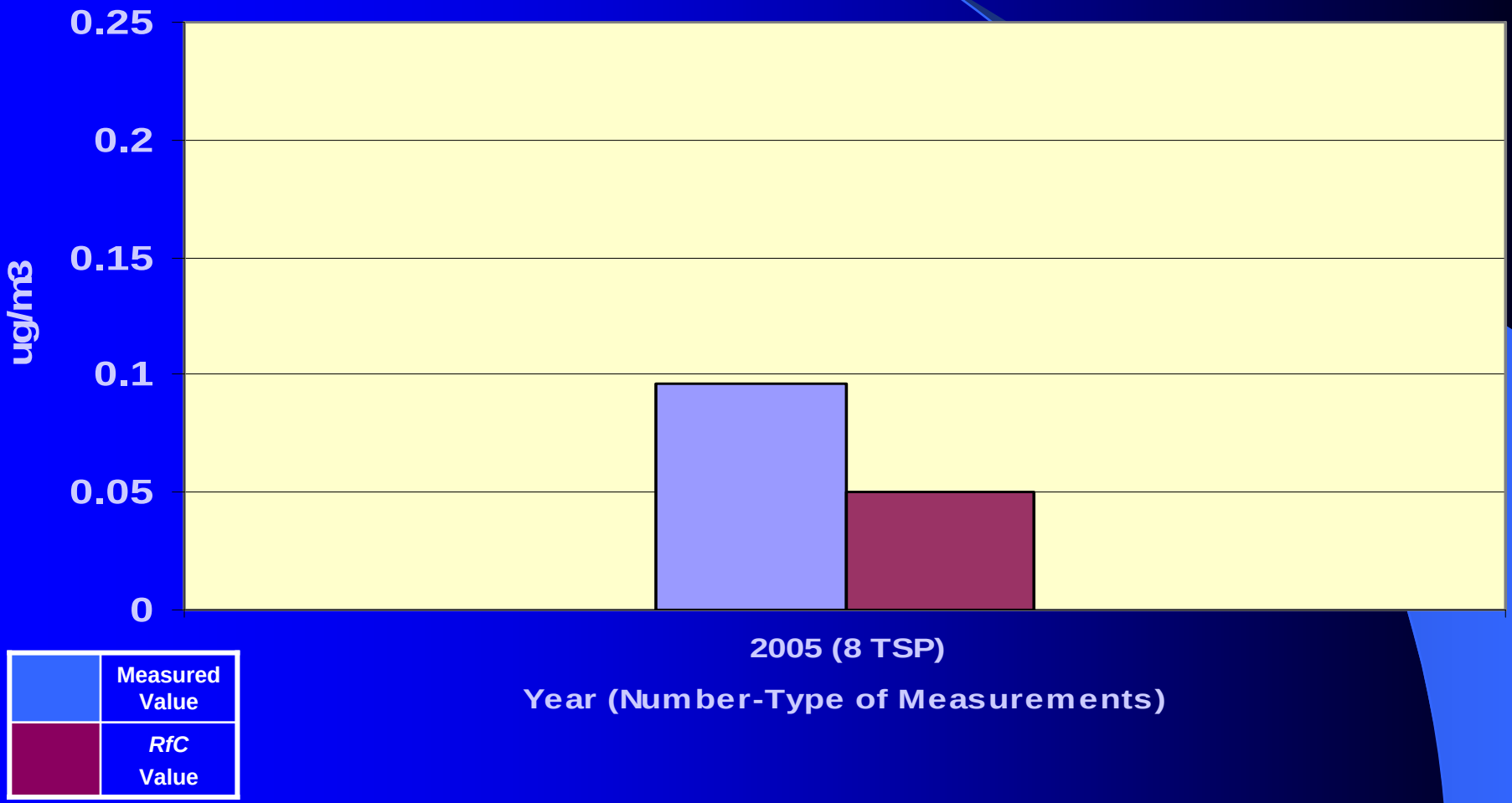
Sources: U.S. EPA Technology Transfer Network Air Toxics Website; Agency for Toxic Substances and Disease Registry (ATSDR) Public Health Statement for Manganese

Mean Ambient Air Measurements of Manganese Compared to *RfC* 1242 Jersey Street



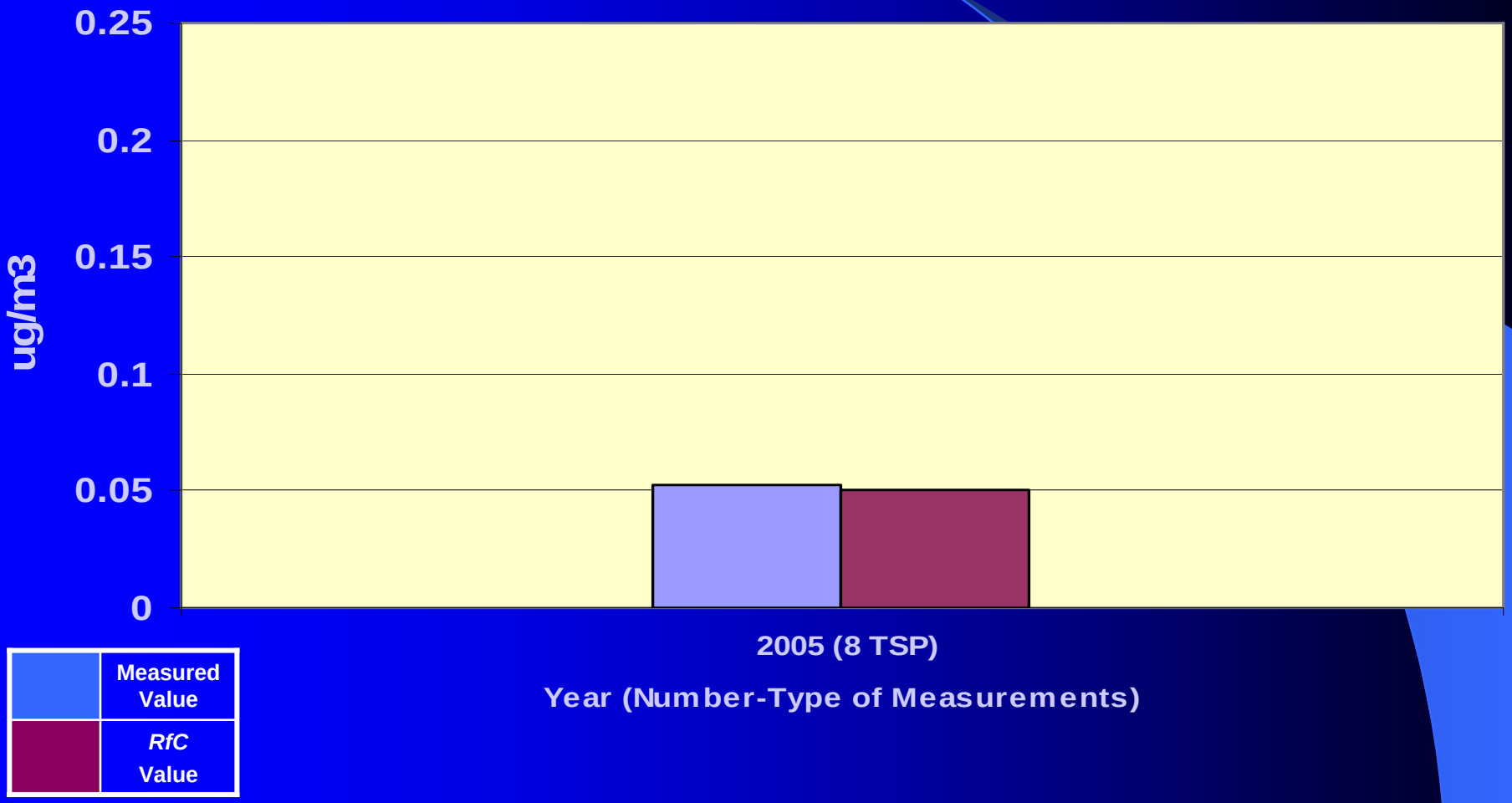
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Manganese Compared to *RfC* 4113 Shuttlesworth Drive



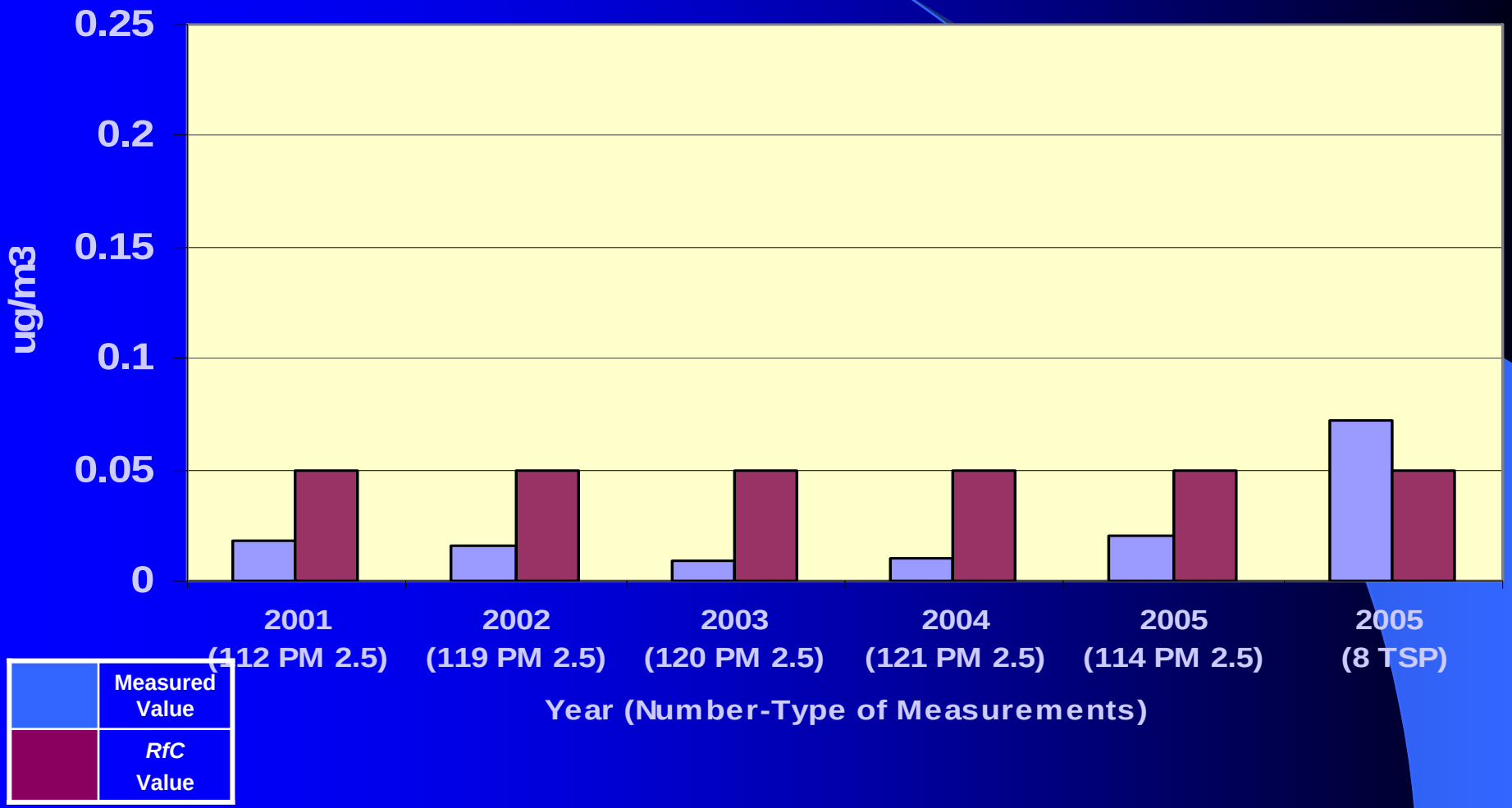
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Manganese Compared to *RfC* 841 Finley Avenue



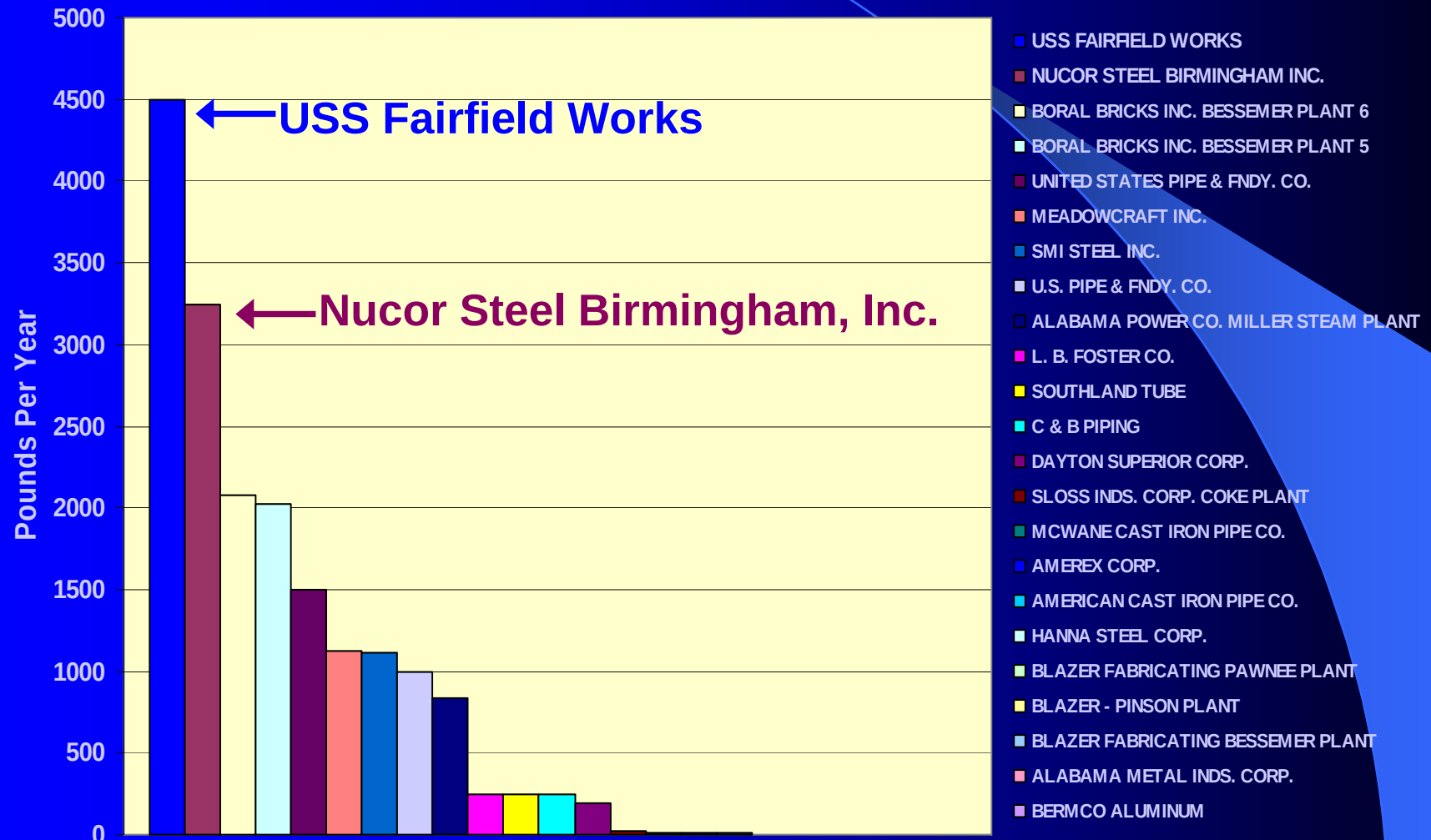
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Manganese Compared to *RfC* 3009 28th Street North



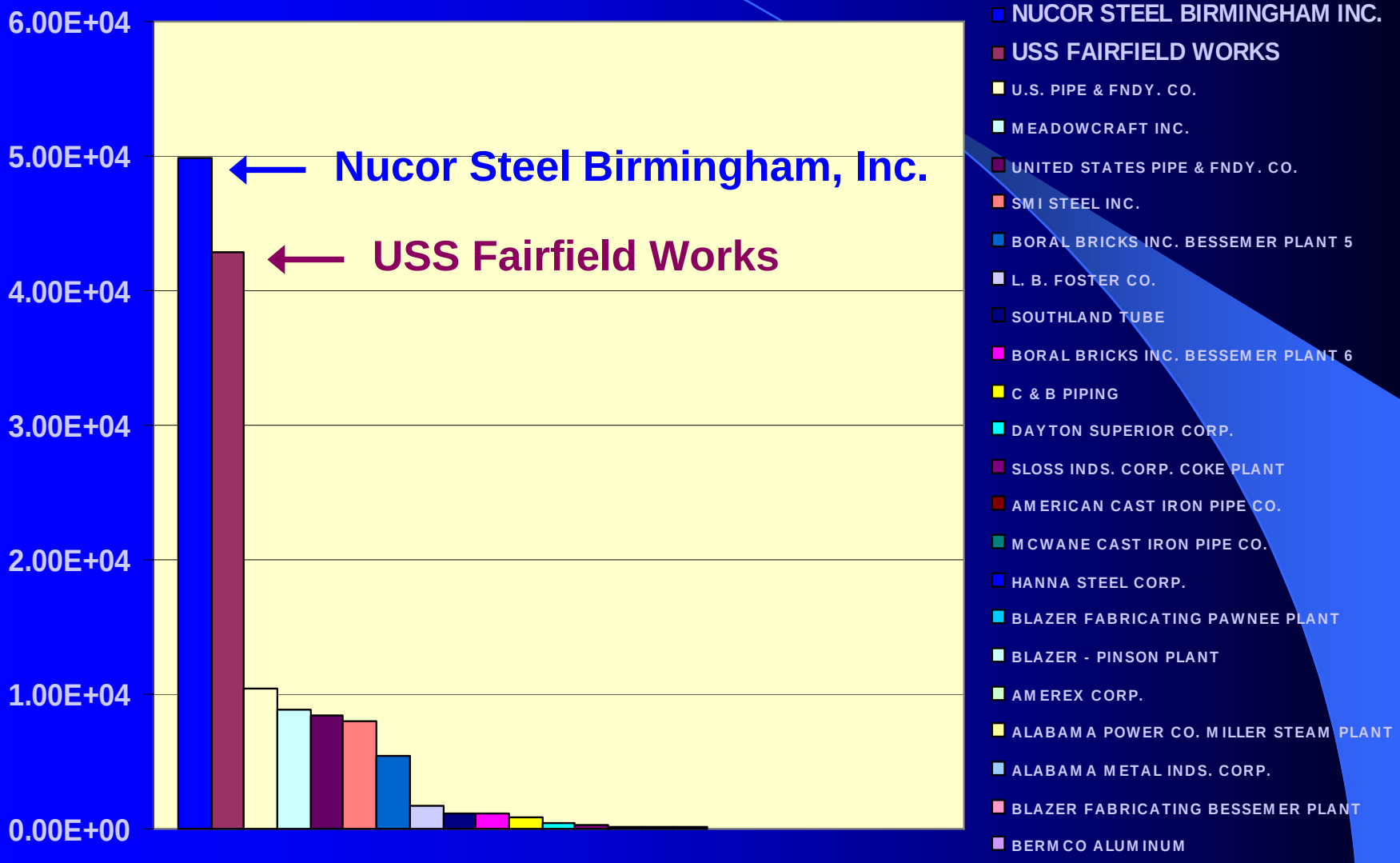
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Estimated Pounds of Manganese and Manganese Compounds Emitted by Facilities in Jefferson County, AL



Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Estimated Relative Population Health Risk from Facilities Emitting Manganese and Manganese Compounds in Jefferson County, AL



Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

ENVIRONMENTAL JUSTICE COMMUNITIES

> 1.2 X State-wide Percent Minority

1.2 X 29.7% = 35.6%

> 1.2 X State-wide Percent Individuals Below Poverty

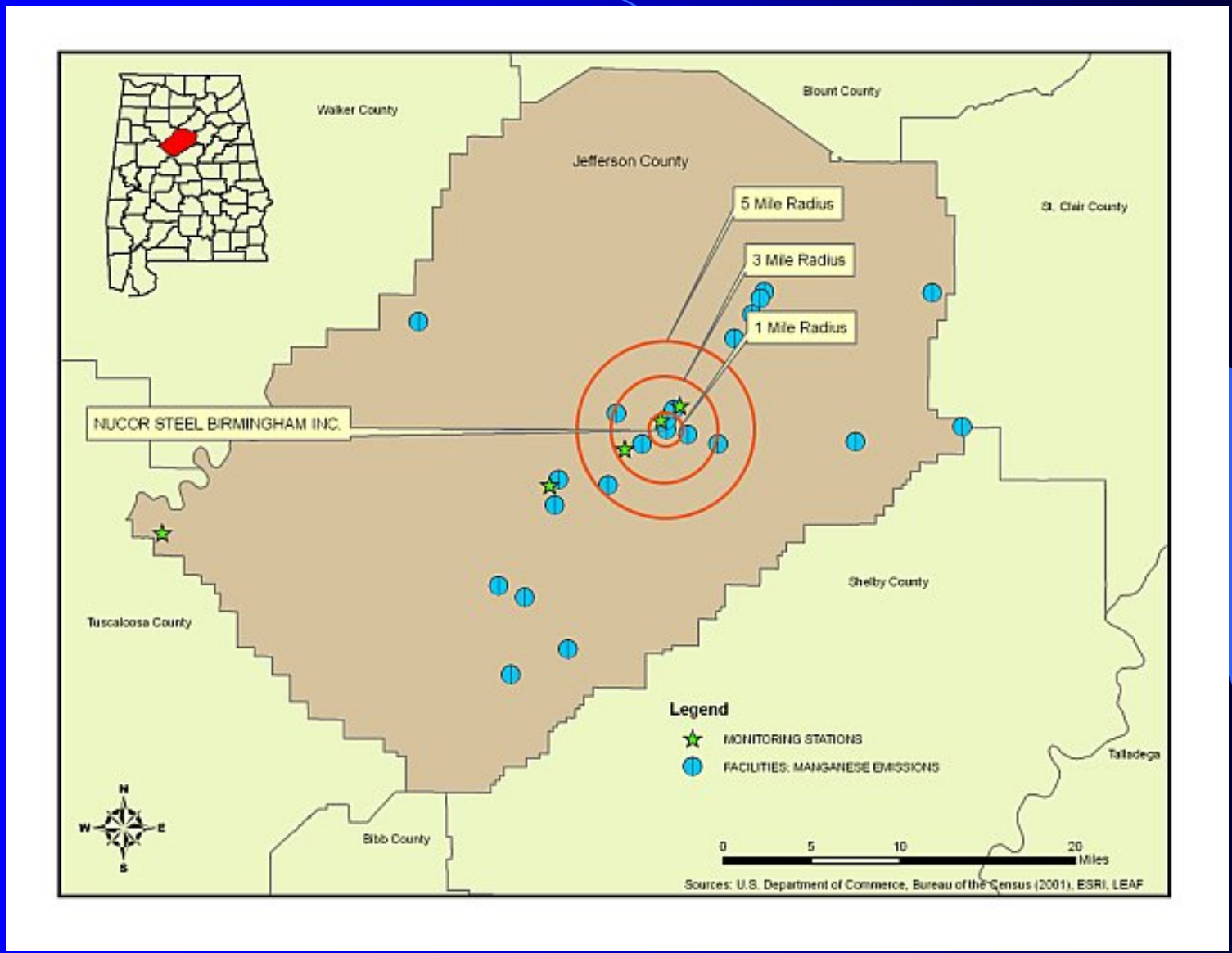
1.2 X 16.1% = 19.3%

> 1.2 X State-wide Percent Households Below $15,000 Income

1.2 X 22.5% = 27.0%

Source: U.S. EPA, Interim Policy to Identify and Address Potential Environmental Justice Areas (EPA-904-R99-004, April 1999)

Radii Surrounding Nucor Steel Birmingham, Inc.

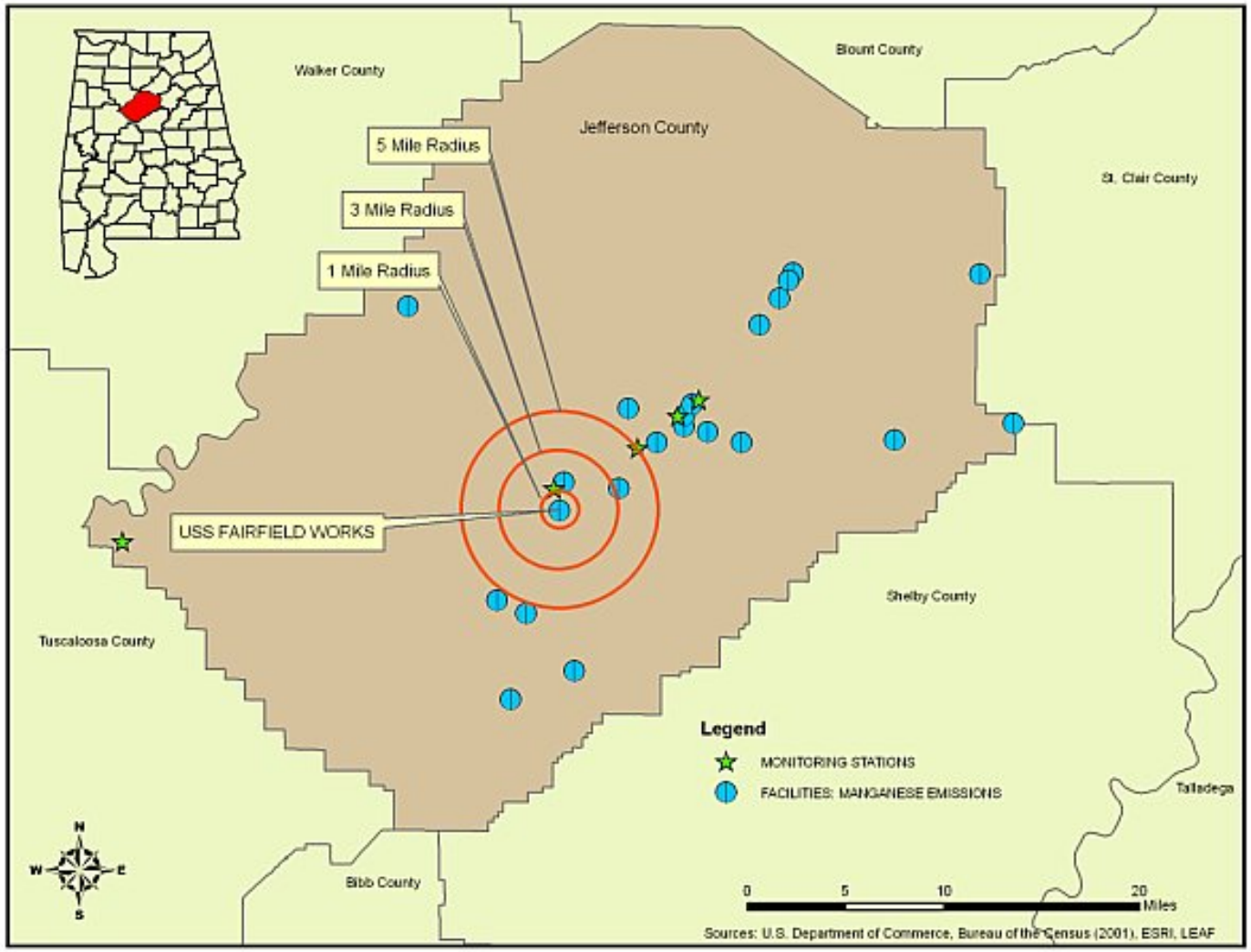


Demographics Surrounding Nucor Steel Birmingham, Inc. in Jefferson County, AL

Radius (miles) from Nucor Steel B'ham, Inc.	Estimated Population	Percent Minority	Percent Individuals Below Poverty	Percent Households Below $15,000
1.0	9,226	96.9	39.2	44.3
3.0	52,206	85.8	34.7	42.8
5.0	161,080	68.0	24.6	30.8

Source: U.S. EPA Environmental Justice Geographic Assessment Tool based on U.S. Census Bureau (Race Data 2000, Economic Data 1999). Note: Values in RED exceed U.S. EPA Region 4 criteria for identifying "environmental justice" communities.

Radii Surrounding US Steel Fairfield Works

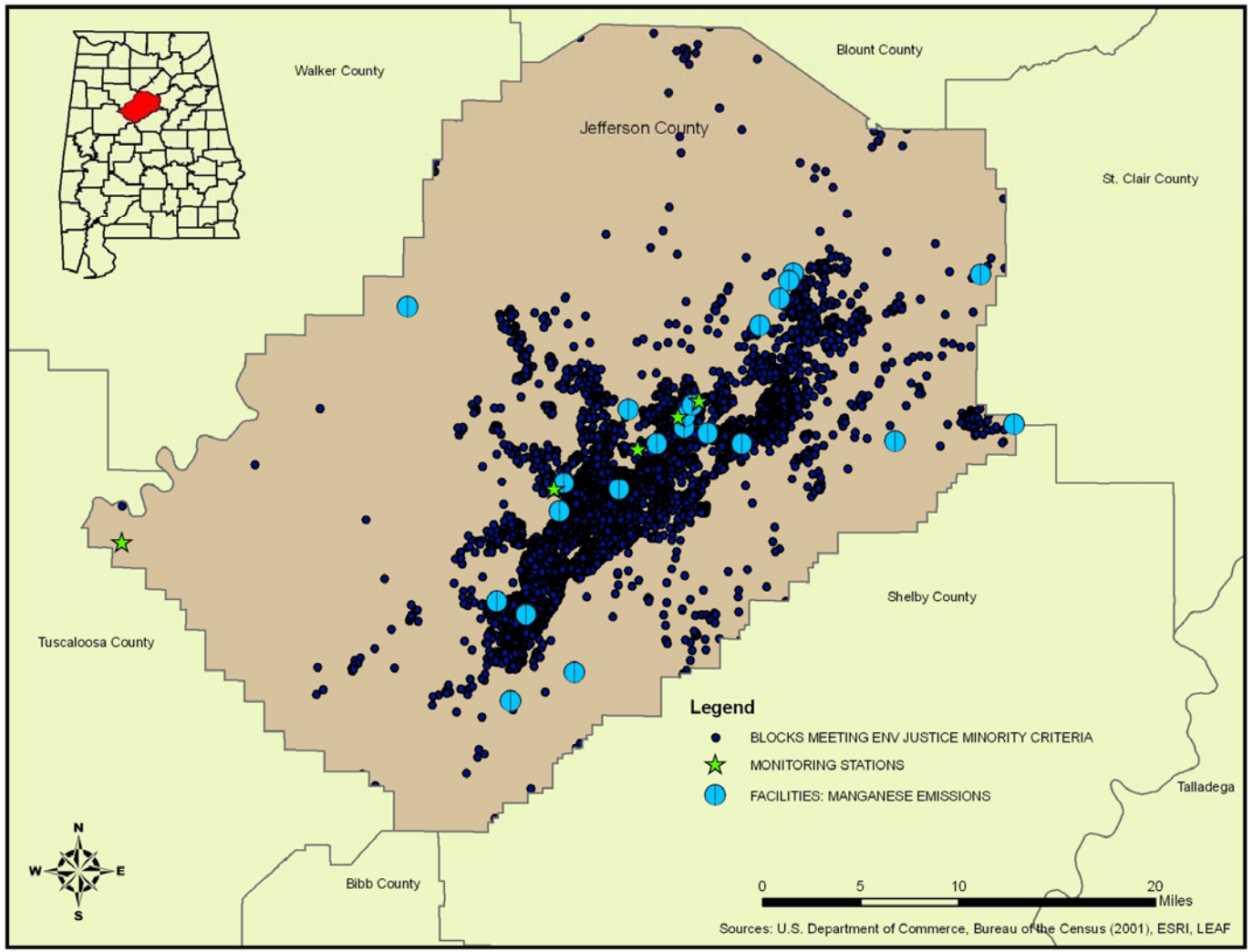


Demographics Surrounding US Steel Fairfield Works in Jefferson County, AL

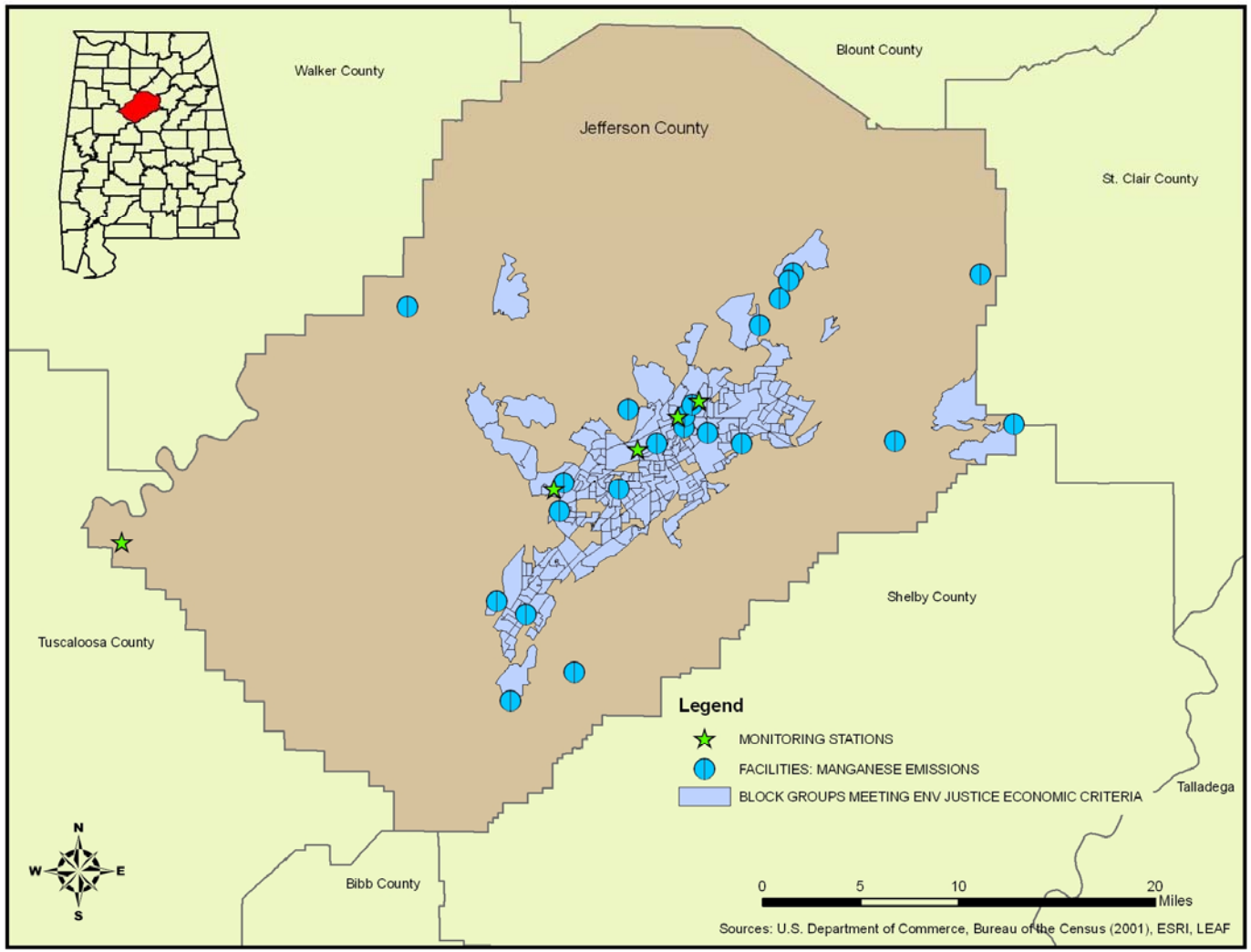
Radius (miles) from USS Fairfield Works	Estimated Population	Percent Minority	Percent Individuals Below Poverty	Percent Households Below $15,000
1.0	8,470	91.6	24.1	34.6
3.0	66,635	84.5	21.9	28.1
5.0	138,537	81.1	22.7	29.8

Source: U.S. EPA Environmental Justice Geographic Assessment Tool based on U.S. Census Bureau (Race Data 2000, Economic Data 1999). Note: Values in RED exceed U.S. EPA Region 4 criteria for identifying "environmental justice" communities.

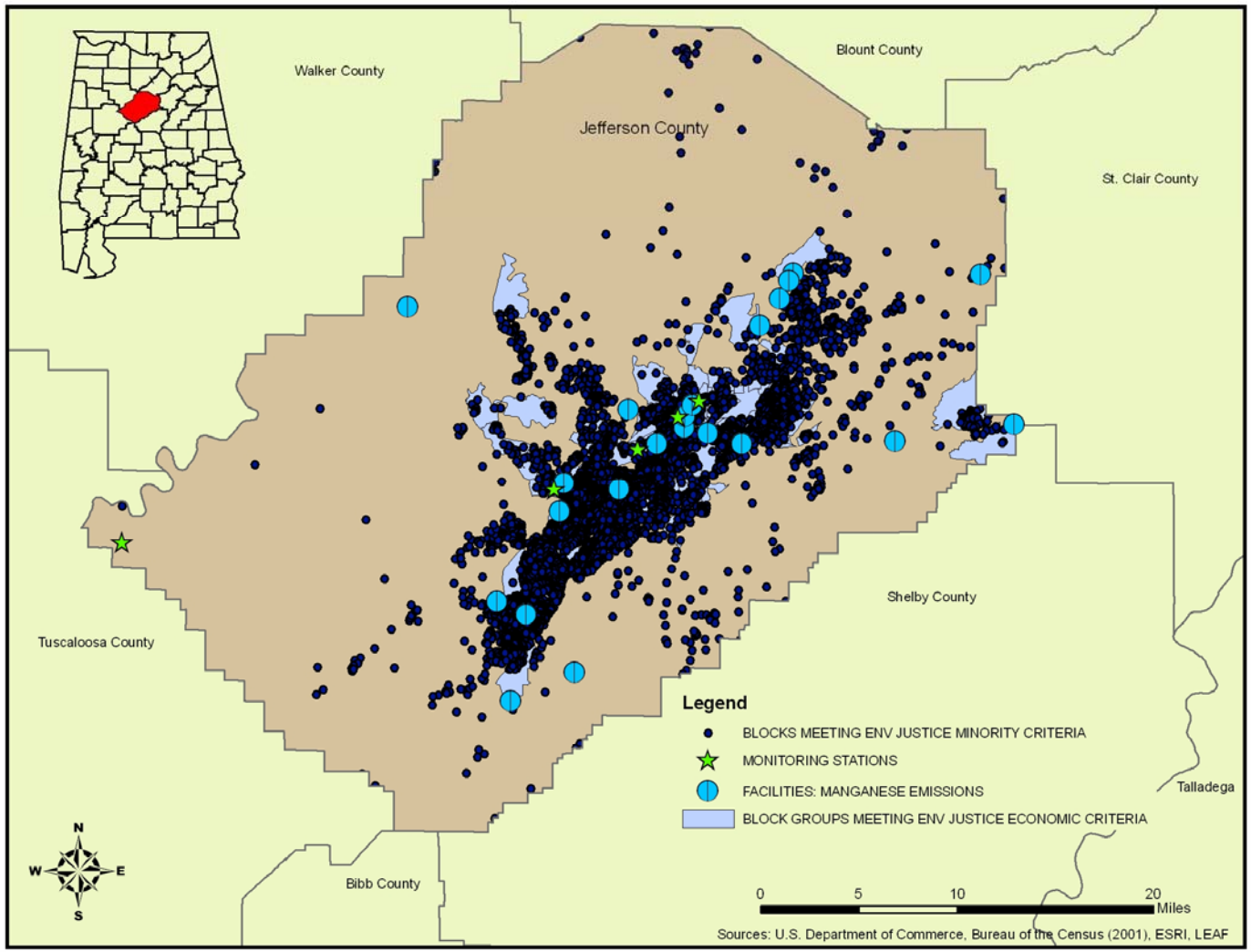
Manganese Emission Facilities and Minority Census Blocks



Manganese Emission Facilities and Poverty or Low Income Census Block Groups



Manganese Emission Facilities and Minority Census Blocks and Poverty or Low Income Census Block Groups



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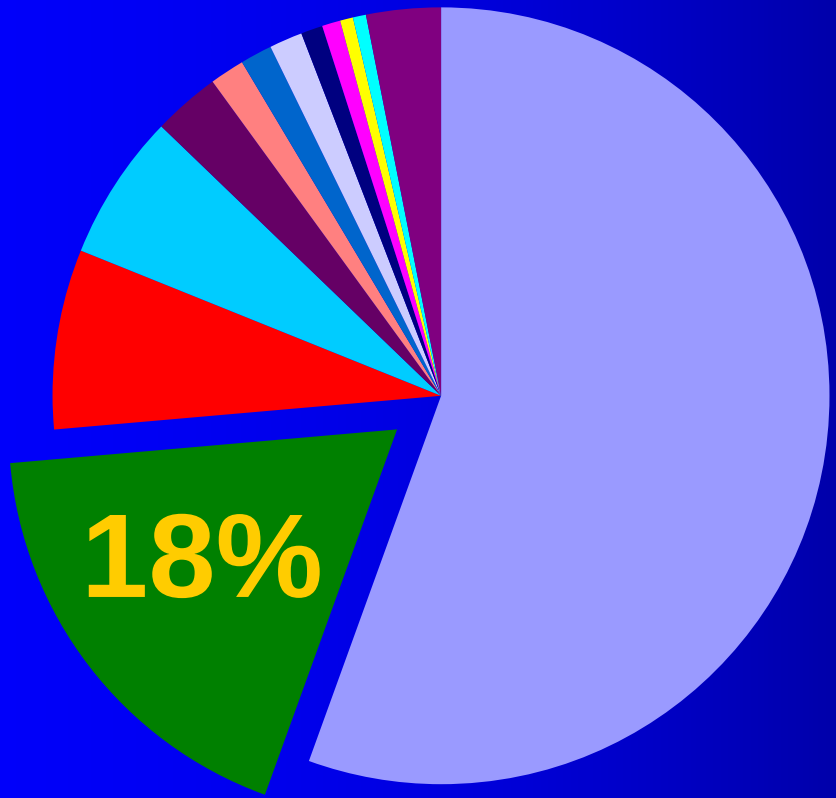

- Manganese & Compounds
- Lead & Compounds
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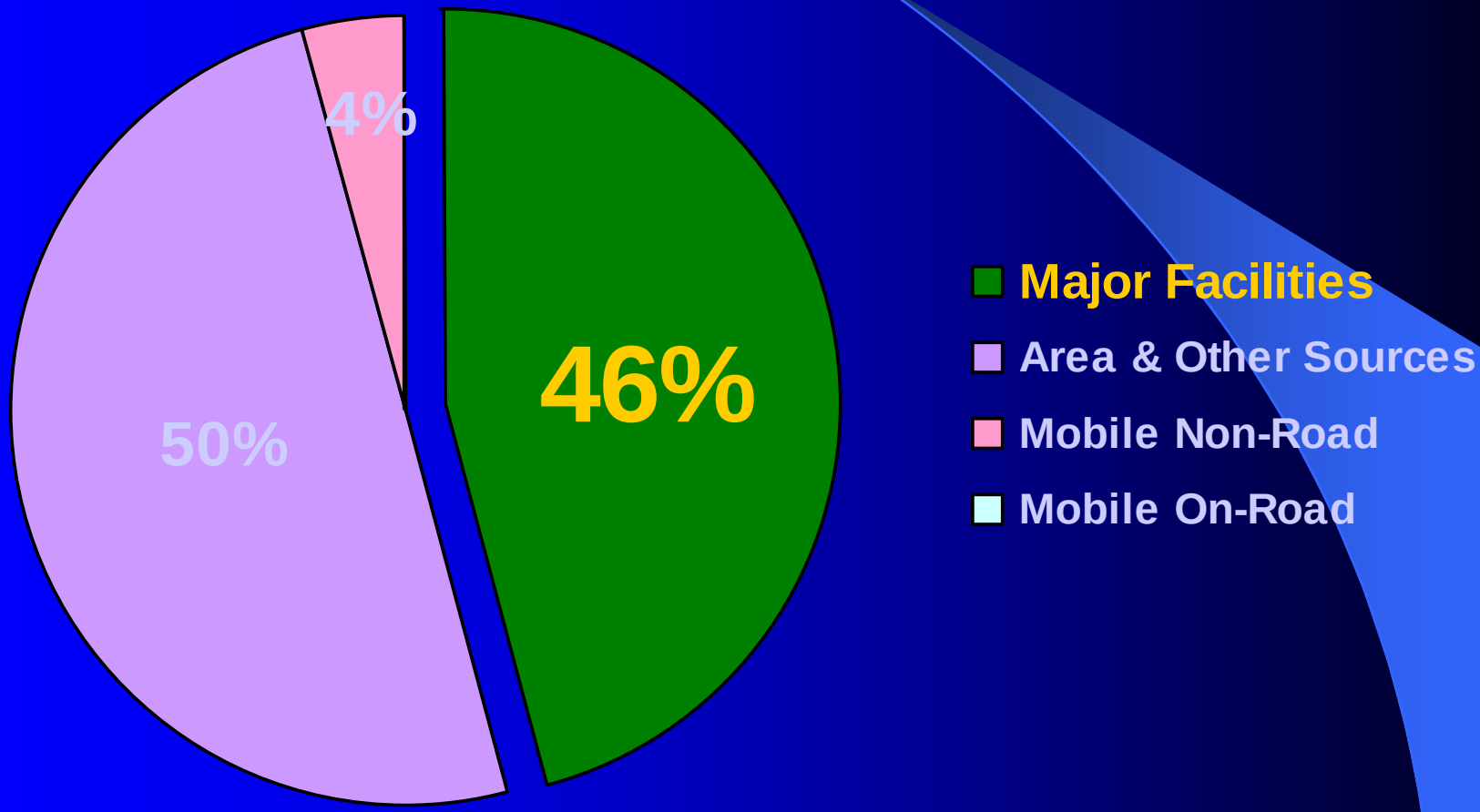
- Chromium & Compounds
- Carbonyl sulfide
- Polycyclic aromatic compounds
- Nickel & Compounds
- Xylene (mixed isomers)
- Naphthalene
- Hydrogen fluoride
- Zinc compounds
- Formaldehyde
- Other

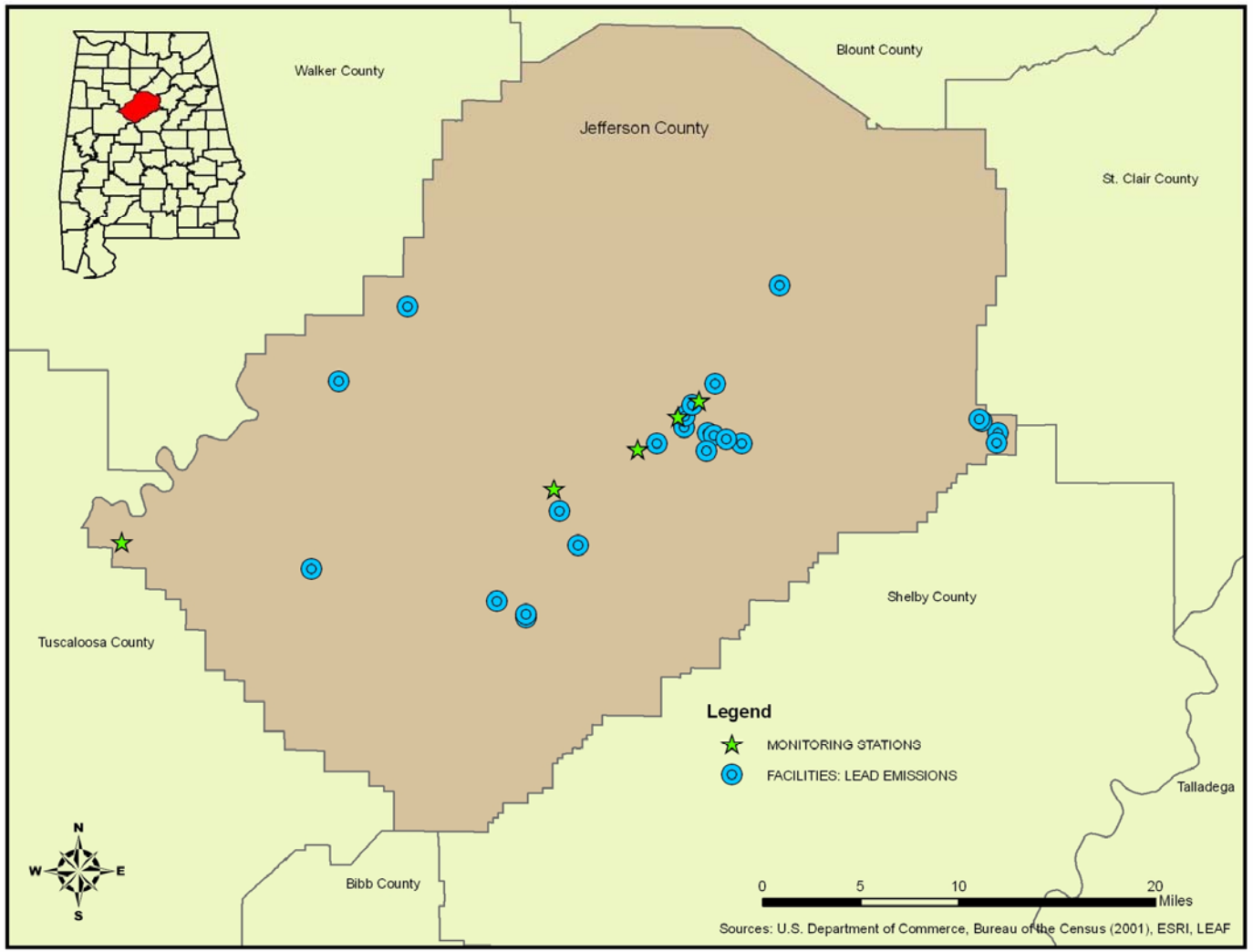
Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Relative Contribution of Lead Emission Sources in Jefferson County, AL



Source: U.S. EPA, County Emissions Report of Hazardous Air Pollutants, 1999

Lead Emission Facilities (23) and Ambient Air Monitoring Stations (5) in Jefferson County, Alabama



Source: U.S. EPA Risk-Screening Environmental Indicators Model, 2002 TRI Emissions

Lead

Safe Chronic Exposure Concentration = 1.5 $\mu g/m^3$

Source: U.S. EPA Nat'l Ambient Air Quality Standard, 43 Fed. Reg. 46246 (1978)

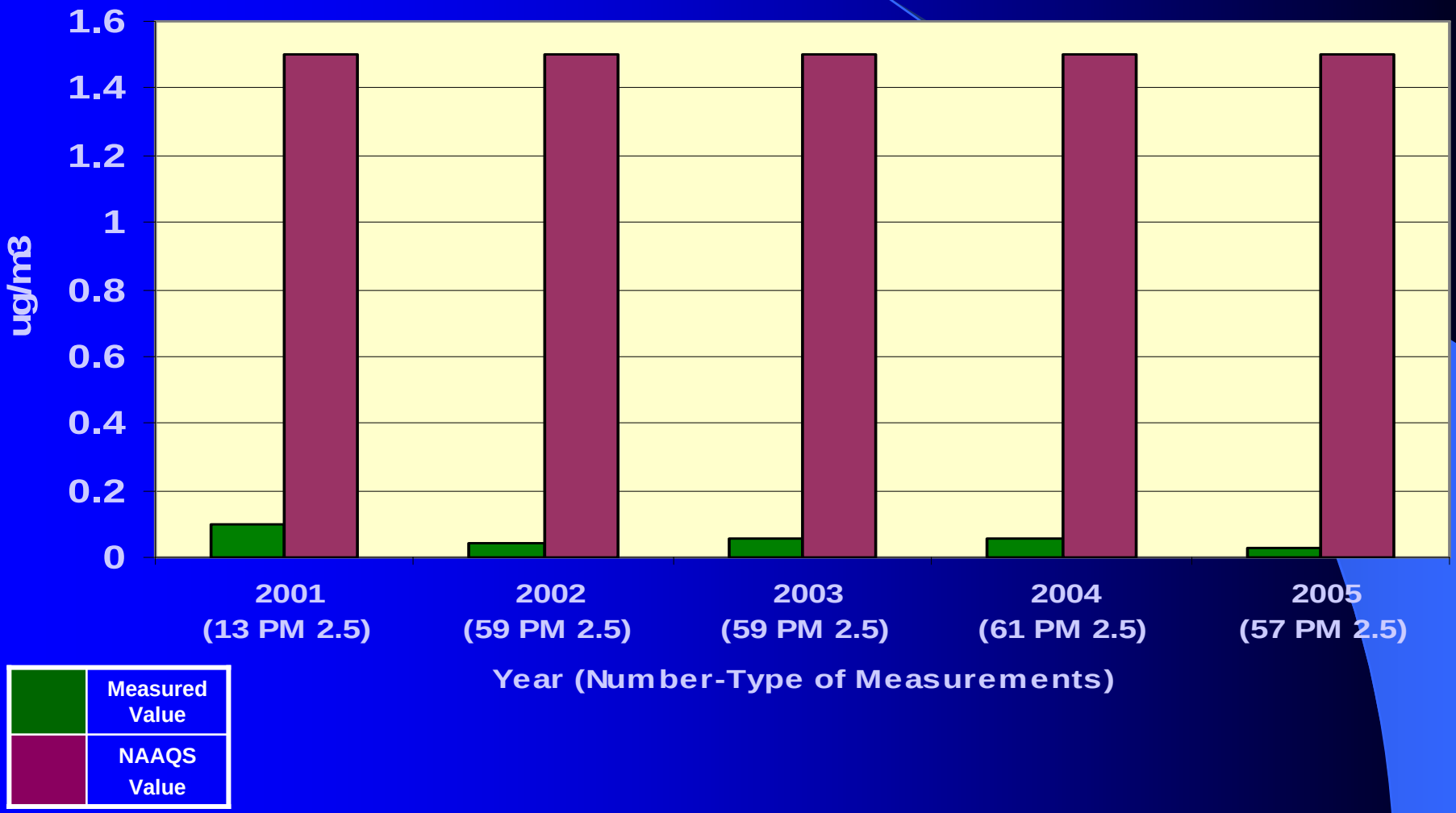
Note: Cal OEHHA provides CSF_i = 4.2E-02 $(mg/kg\text{-}day)^{-1} \Rightarrow 0.09\ \mu g/m^3$

Some Health Effects from Excessive Exposure to Lead

Probable Human Carcinogen (B2)
Premature Births
Low Birthweights
Impaired Mental Development
Decreased IQ
Anemia
Slowed Nerve Conduction
Hearing Threshold (children)
Impaired Mental and Physical Growth (children)
Increased Blood Pressure
Kidney Damage
Vitamin D Metabolism
Reduced Sperm Count
Decreased Prostate Function
Decreased Seminal Vesicle Function

Sources: U.S. EPA Technology Transfer Network Air Toxics Website; Agency for Toxic Substances and Disease Registry (ATSDR) Public Health Statement for Lead

Mean Ambient Air Measurements of Lead Compared to NAAQS 1242 Jersey Street



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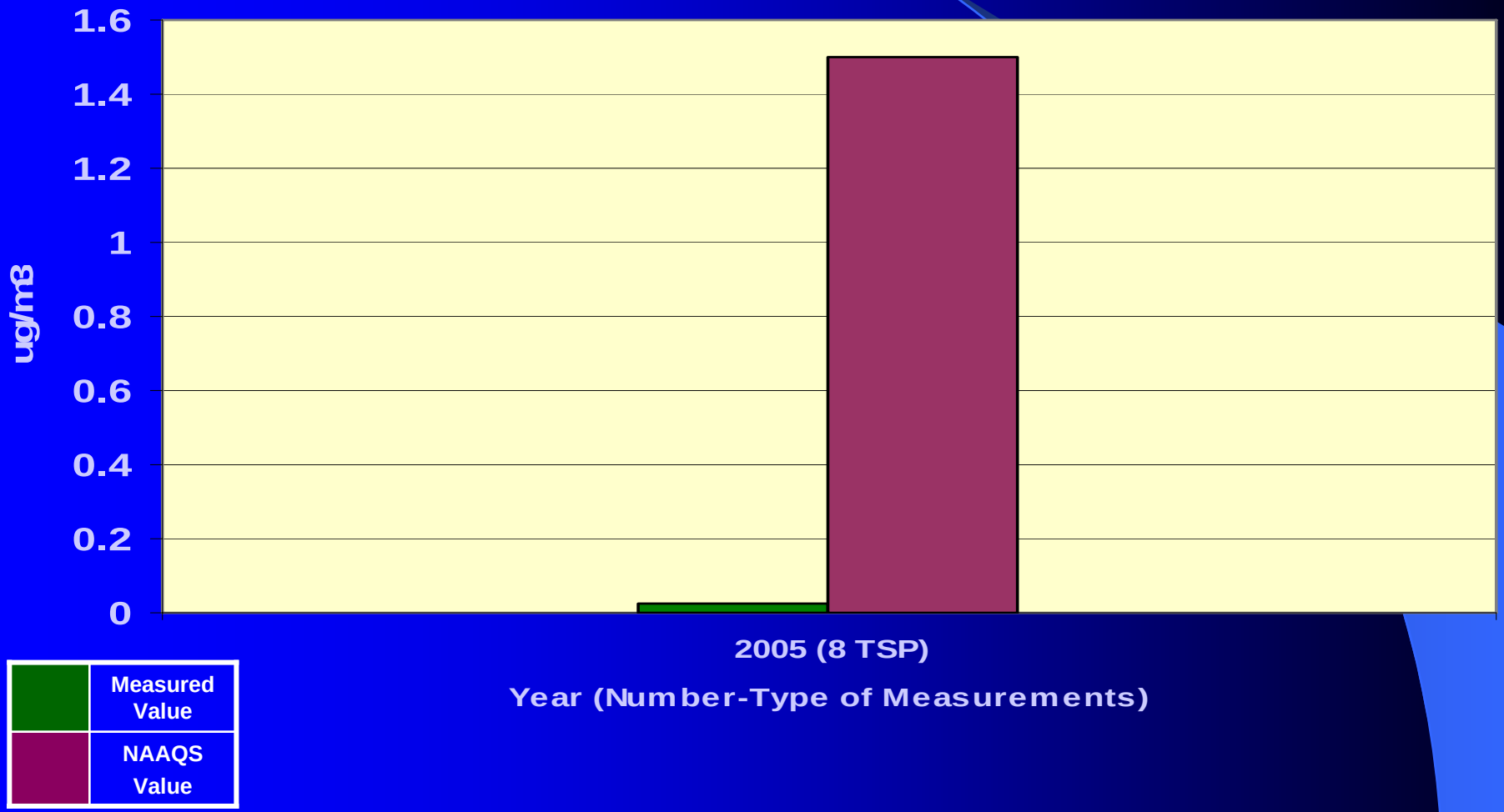

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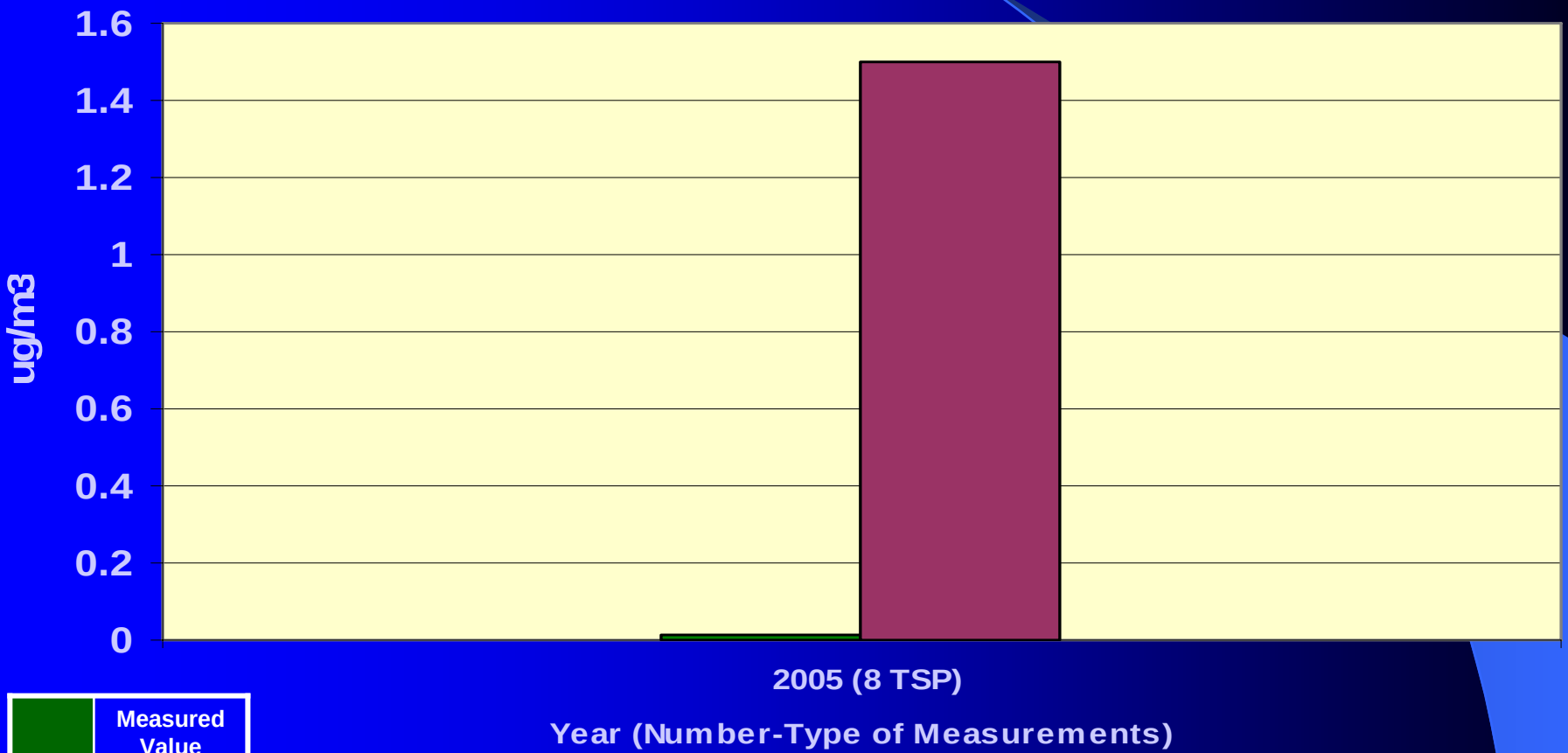
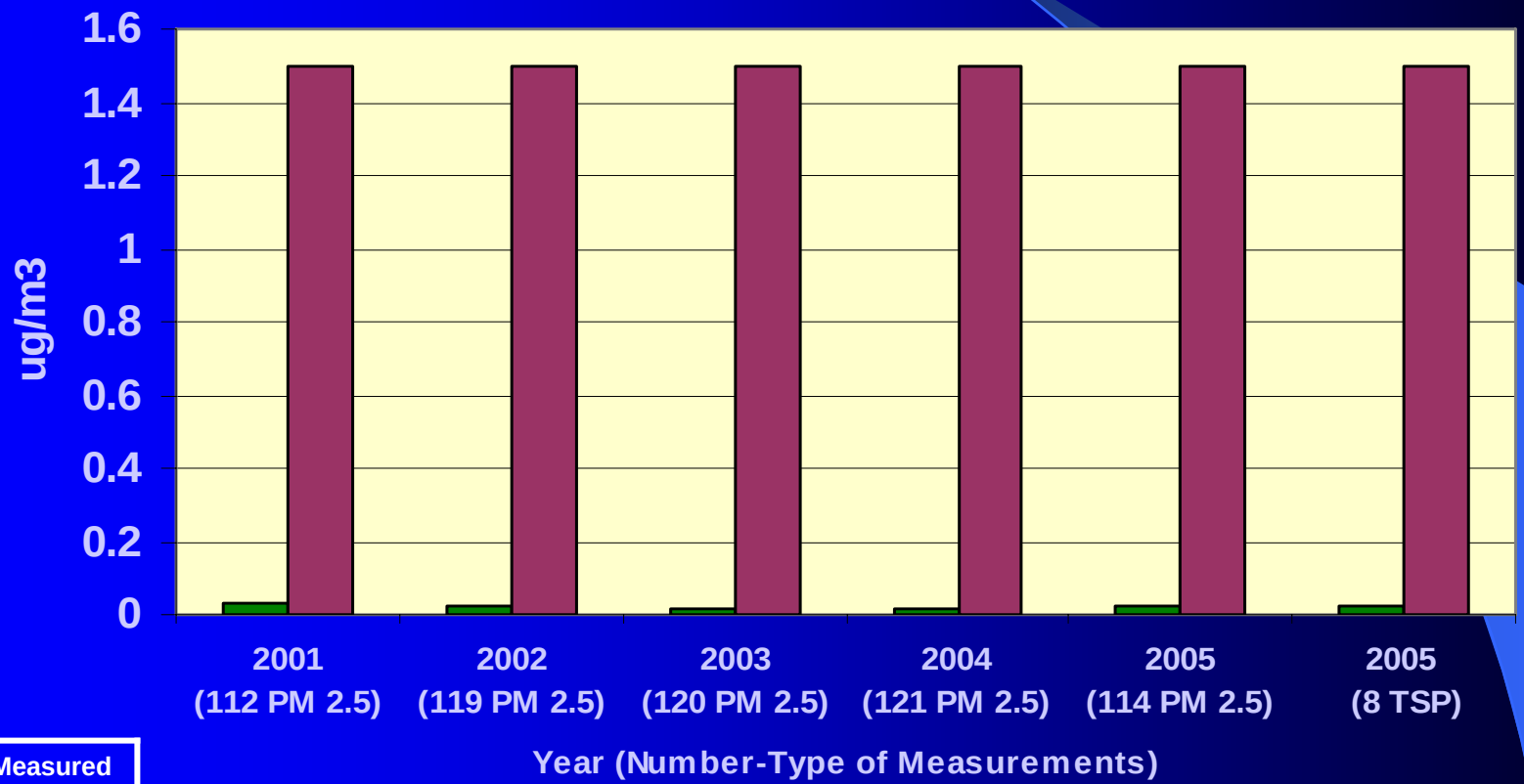
Mean Ambient Air Measurements of Lead Compared to NAAQS 841 Finley Avenue



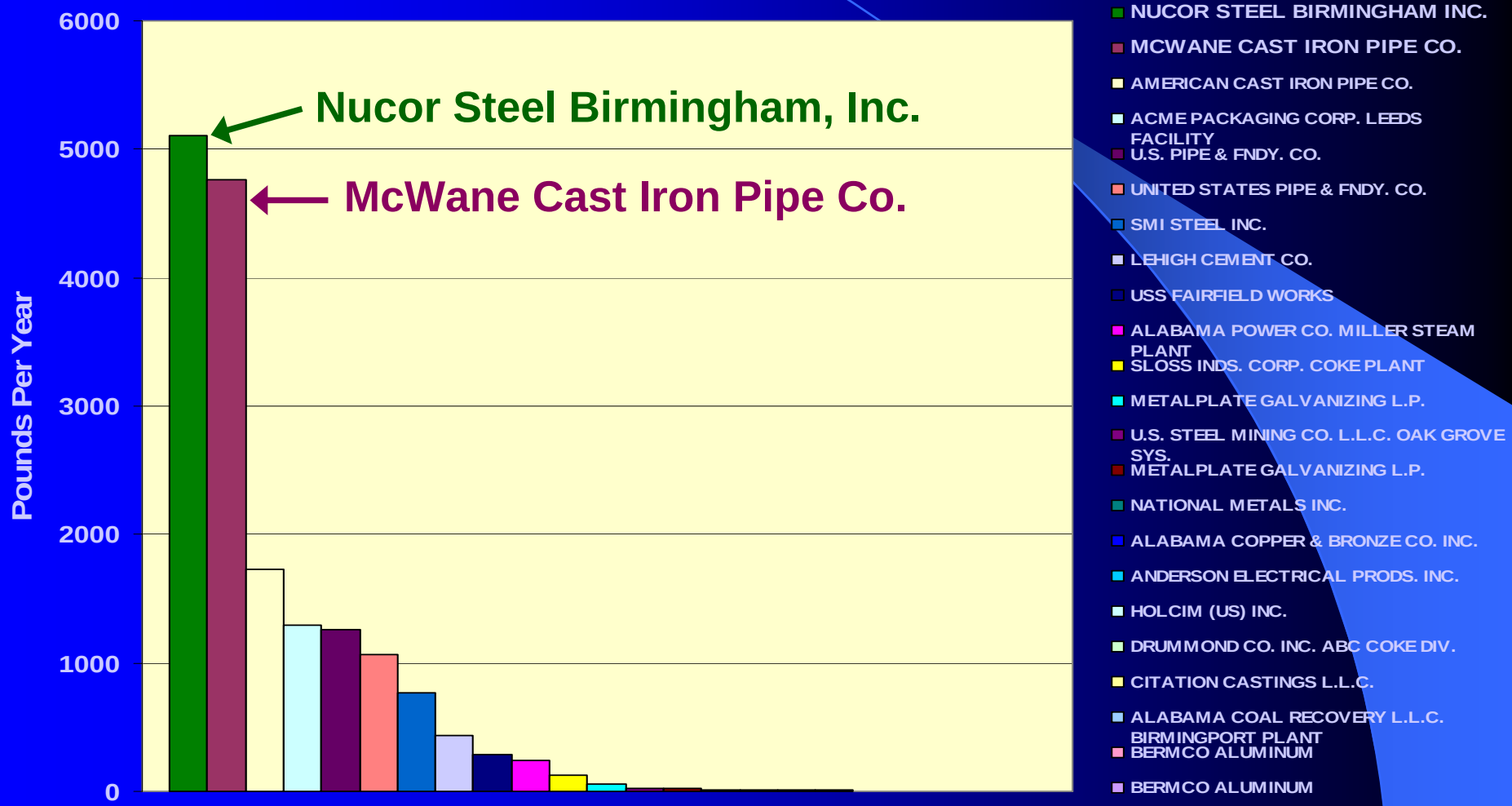
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Lead Compared to NAAQS 3009 28th Street North



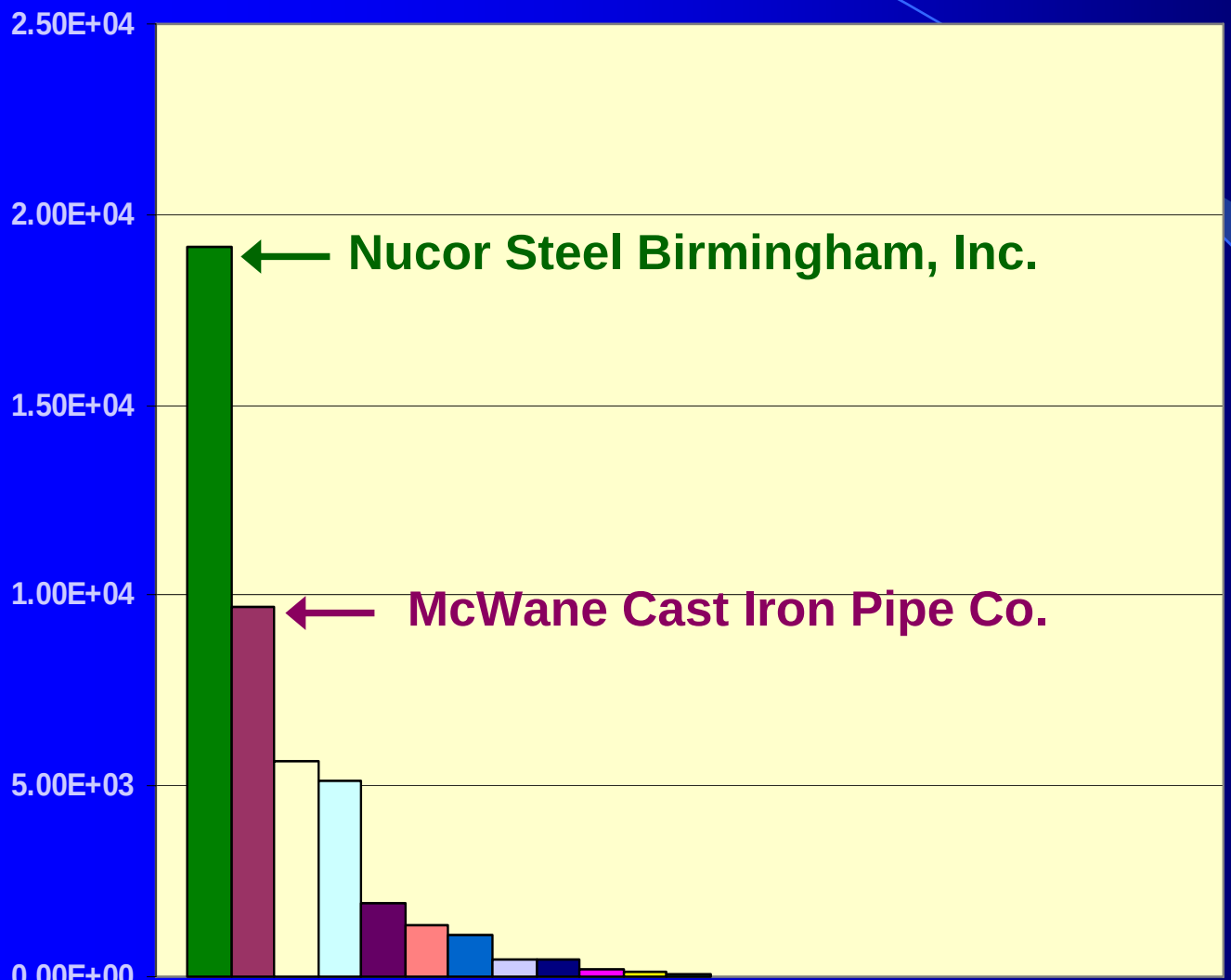
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Estimated Pounds of Lead and Lead Compounds Emitted by Facilities in Jefferson County, AL



Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Estimated Relative Population Health Risk from Facilities Emitting Lead and Lead Compounds in Jefferson County, AL



- NUCOR STEEL BIRMINGHAM INC.
- MCWANE CAST IRON PIPE CO.
- AMERICAN CAST IRON PIPE CO.
- U.S. PIPE & FNDY. CO.
- UNITED STATES PIPE & FNDY. CO.
- SMI STEEL INC.
- ACME PACKAGING CORP. LEEDS FACILITY
- SLOSS INDS. CORP. COKE PLANT
- USS FAIRFIELD WORKS
- LEHIGH CEMENT CO.
- METALPLATE GALVANIZING L.P.
- METALPLATE GALVANIZING L.P.
- ALABAMA COPPER & BRONZE CO. INC.
- HOLCIM (US) INC.
- CITATION CASTINGS L.L.C.
- NATIONAL METALS INC.
- U.S. STEEL MINING CO. L.L.C. OAK GROVE SYS.
- DRUMMOND CO. INC. ABC COKE DIV.
- ANDERSON ELECTRICAL PRODS. INC.
- ALABAMA POWER CO. MILLER STEAM PLANT
- BERMCO ALUMINUM

Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

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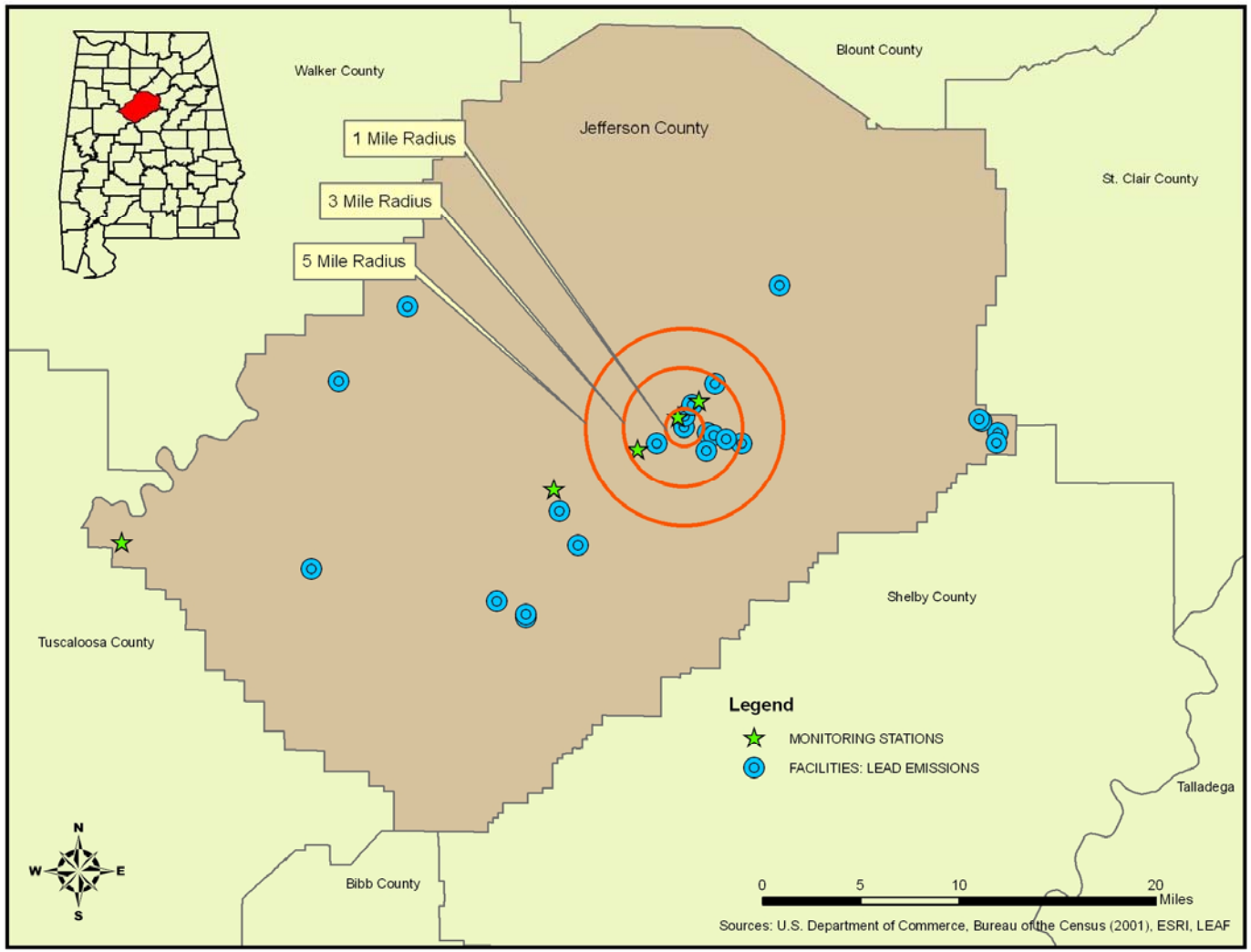

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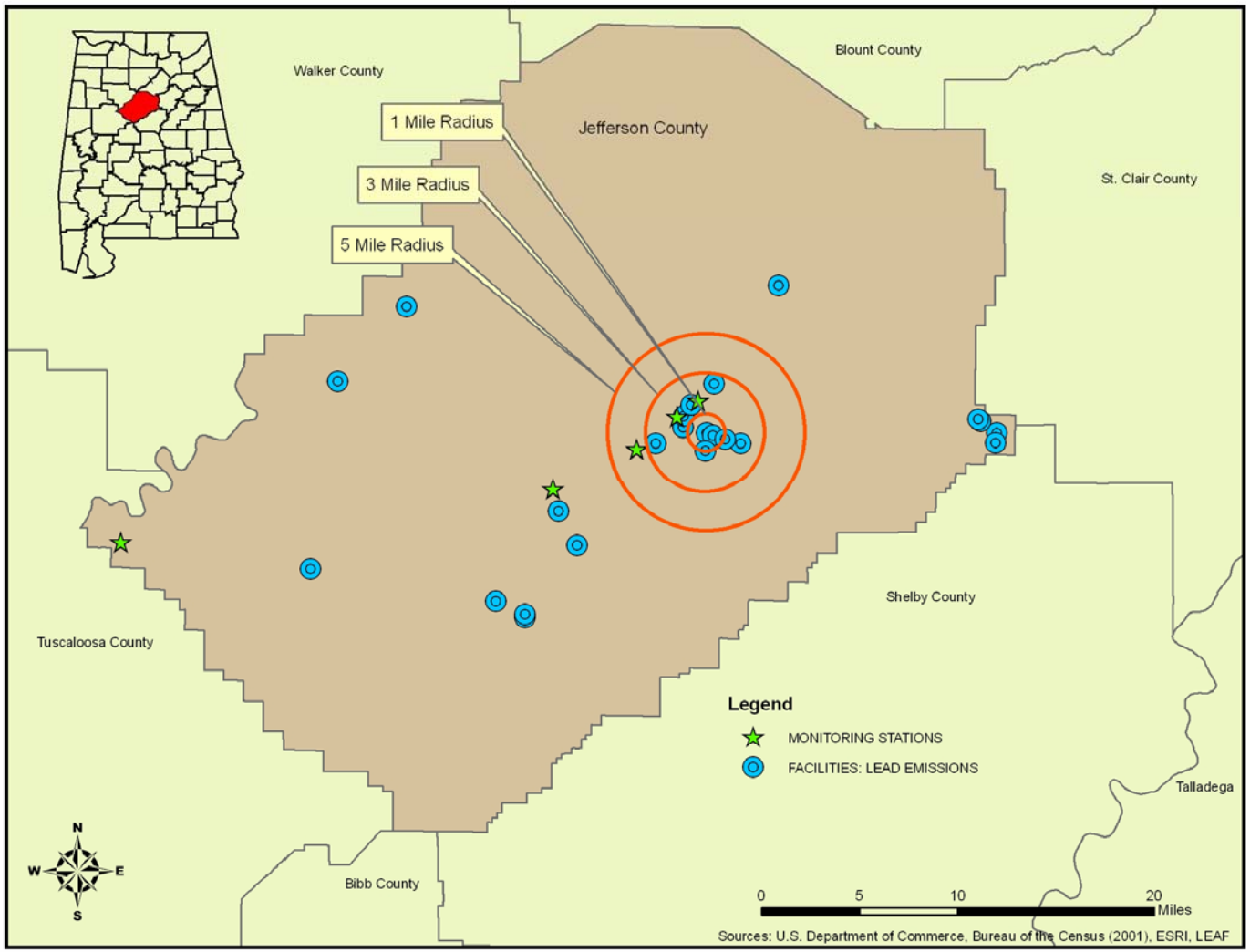
Source: U.S. EPA Environmental Justice Geographic Assessment Tool based on U.S. Census Bureau (Race Data 2000, Economic Data 1999). Note: Values in RED exceed U.S. EPA Region 4 criteria for identifying "environmental justice" communities.

Radii Surrounding McWane Cast Iron Pipe Co.

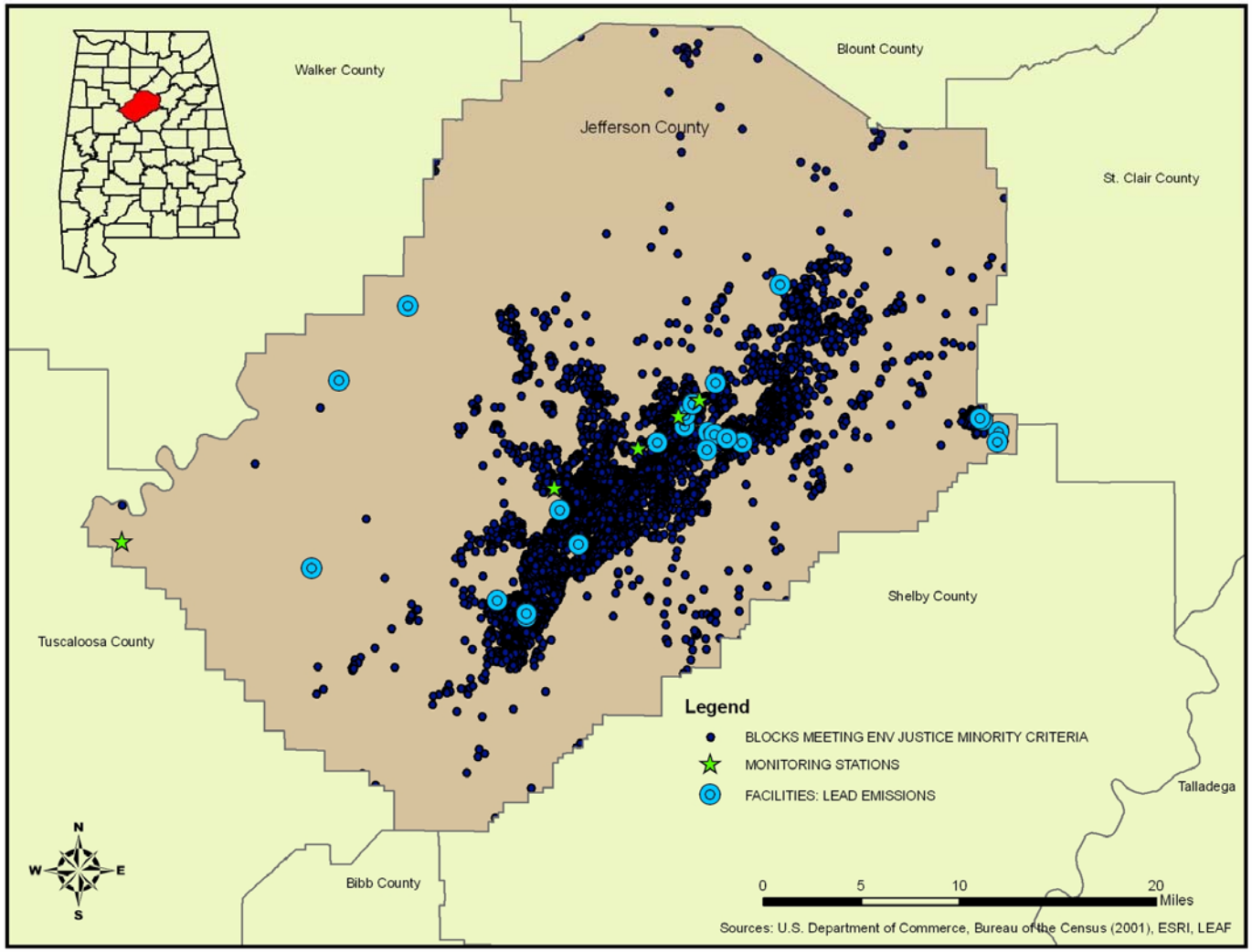


Demographics Surrounding McWane Cast Iron Pipe in Jefferson County, AL

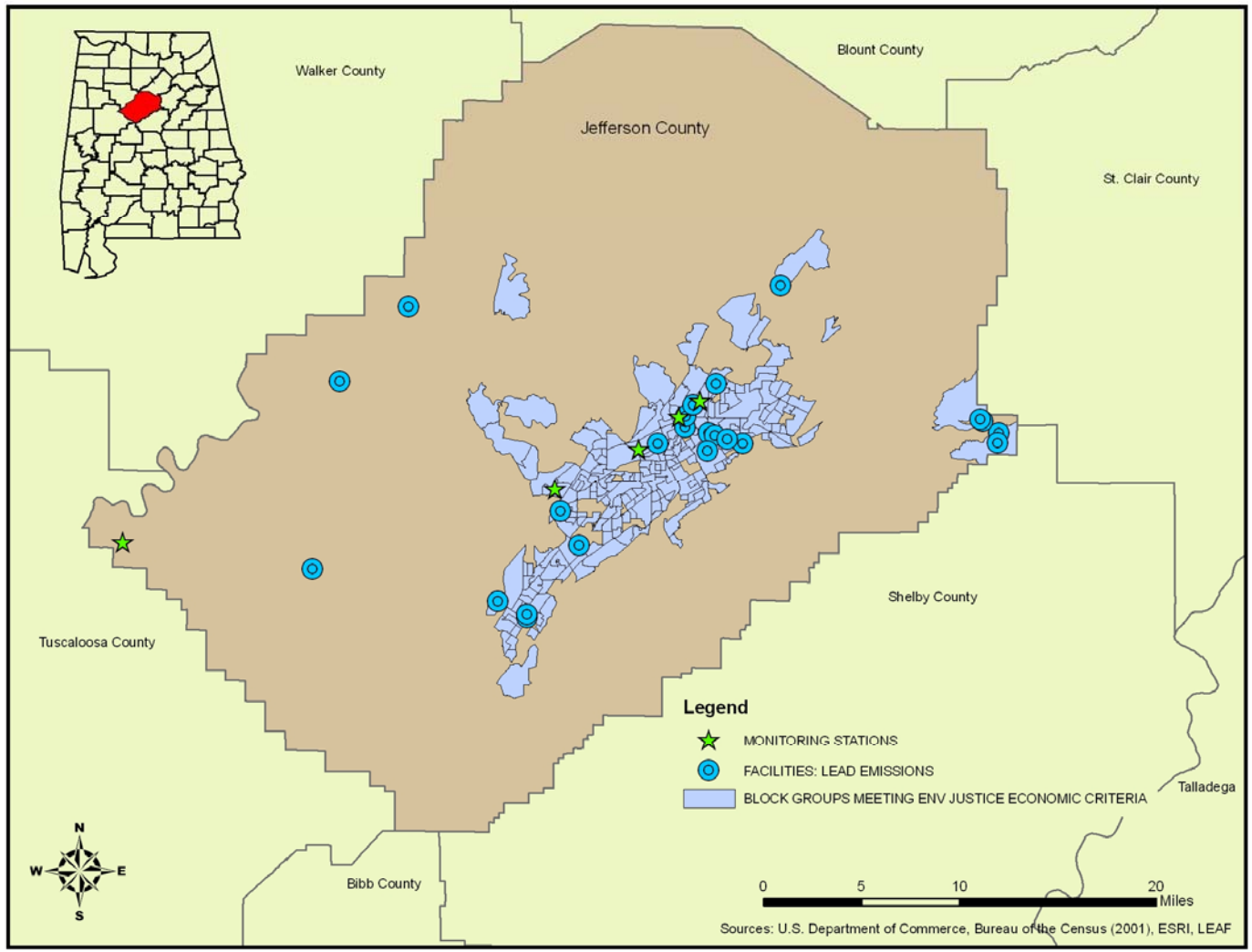
Radius (miles) from McWane Cast Iron Pipe	Estimated Population	Percent Minority	Percent Individuals Below Poverty	Percent Households Below $15,000
1.0	4,428	95.7	37.1	41.4
3.0	64,404	69.5	29.7	35.3
5.0	164,710	61.9	23.2	29.1

Source: U.S. EPA Environmental Justice Geographic Assessment Tool based on U.S. Census Bureau (Race Data 2000, Economic Data 1999). Note: Values in RED exceed U.S. EPA Region 4 criteria for identifying “environmental justice” communities.

Lead Emission Facilities and Minority Census Blocks



Lead Emission Facilities and Poverty or Low Income Census Block Groups



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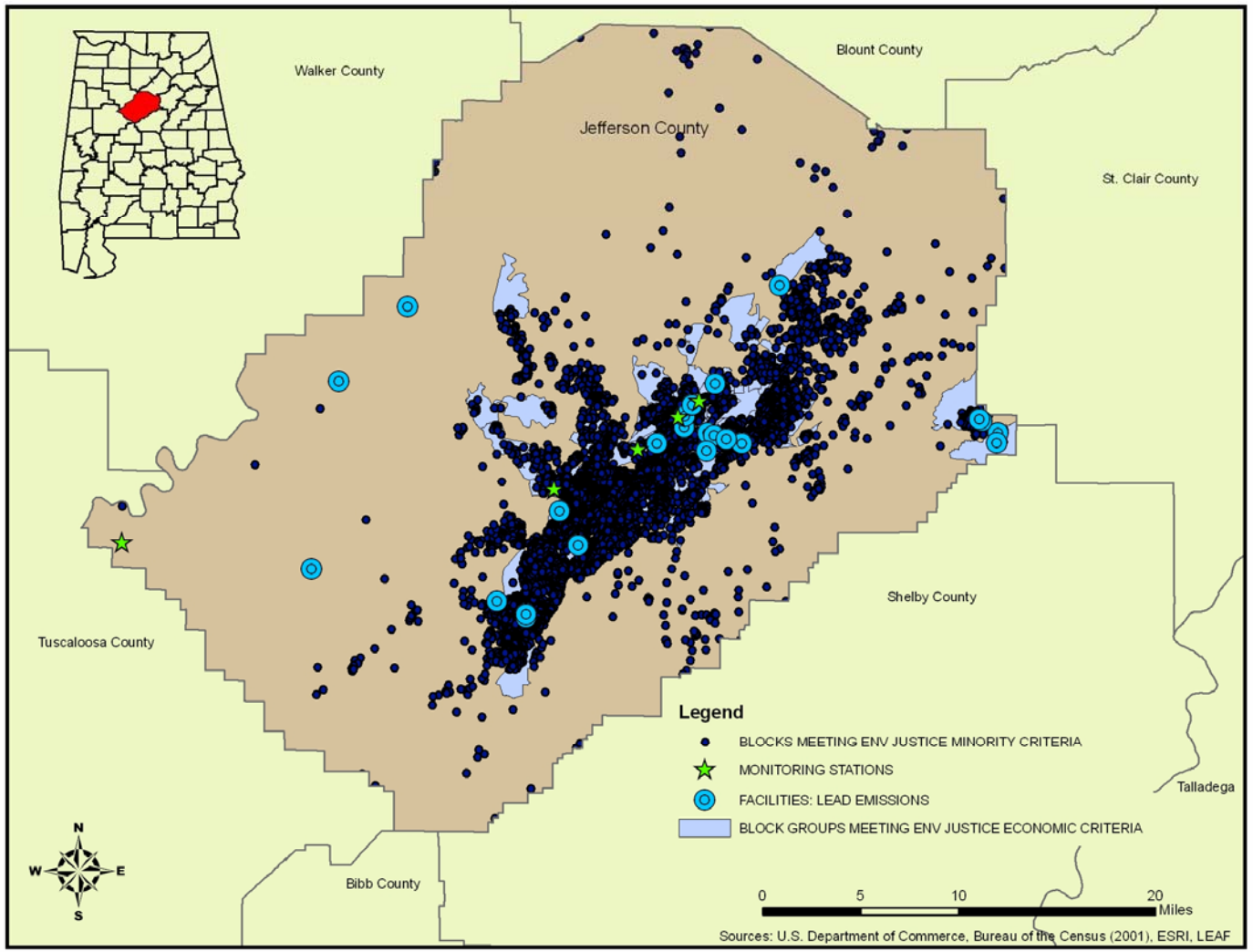

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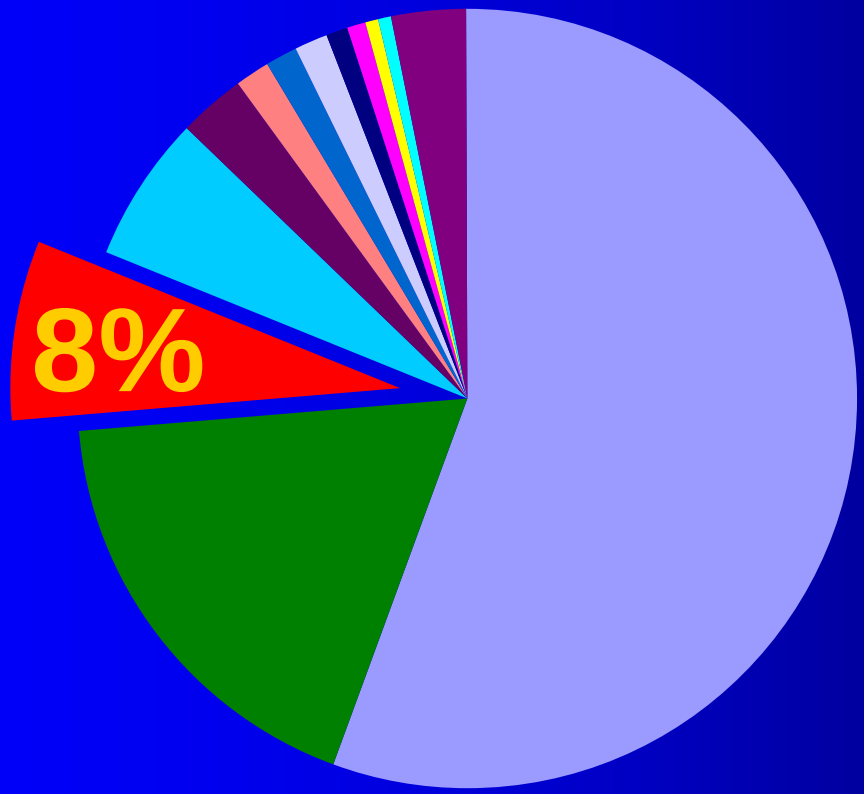
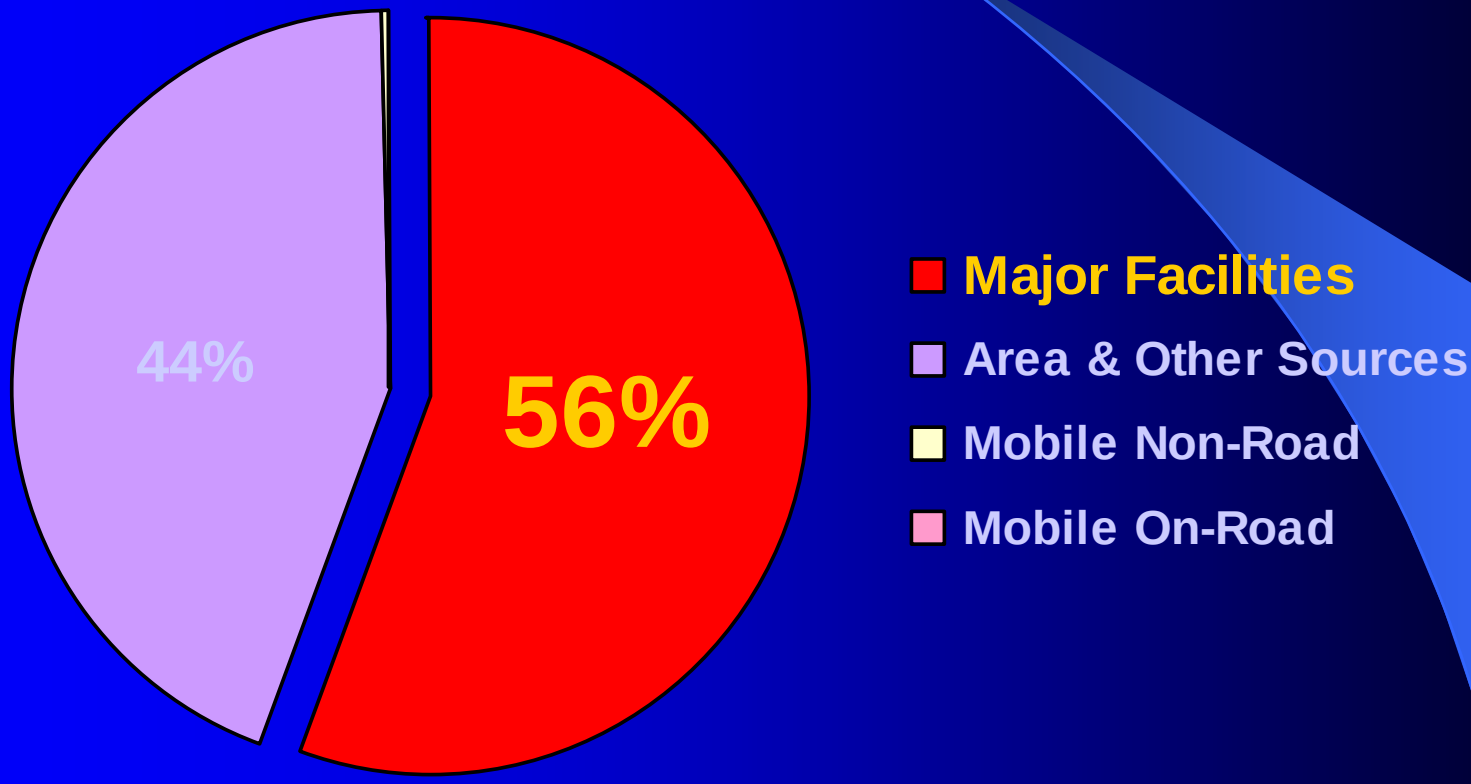


- Manganese & Compounds
- Lead & Compounds
- Cadmium & Compounds
- Chromium & Compounds
- Carbonyl sulfide
- Polycyclic aromatic compounds
- Nickel & Compounds
- Xylene (mixed isomers)
- Naphthalene
- Hydrogen fluoride
- Zinc compounds
- Formaldehyde
- Other

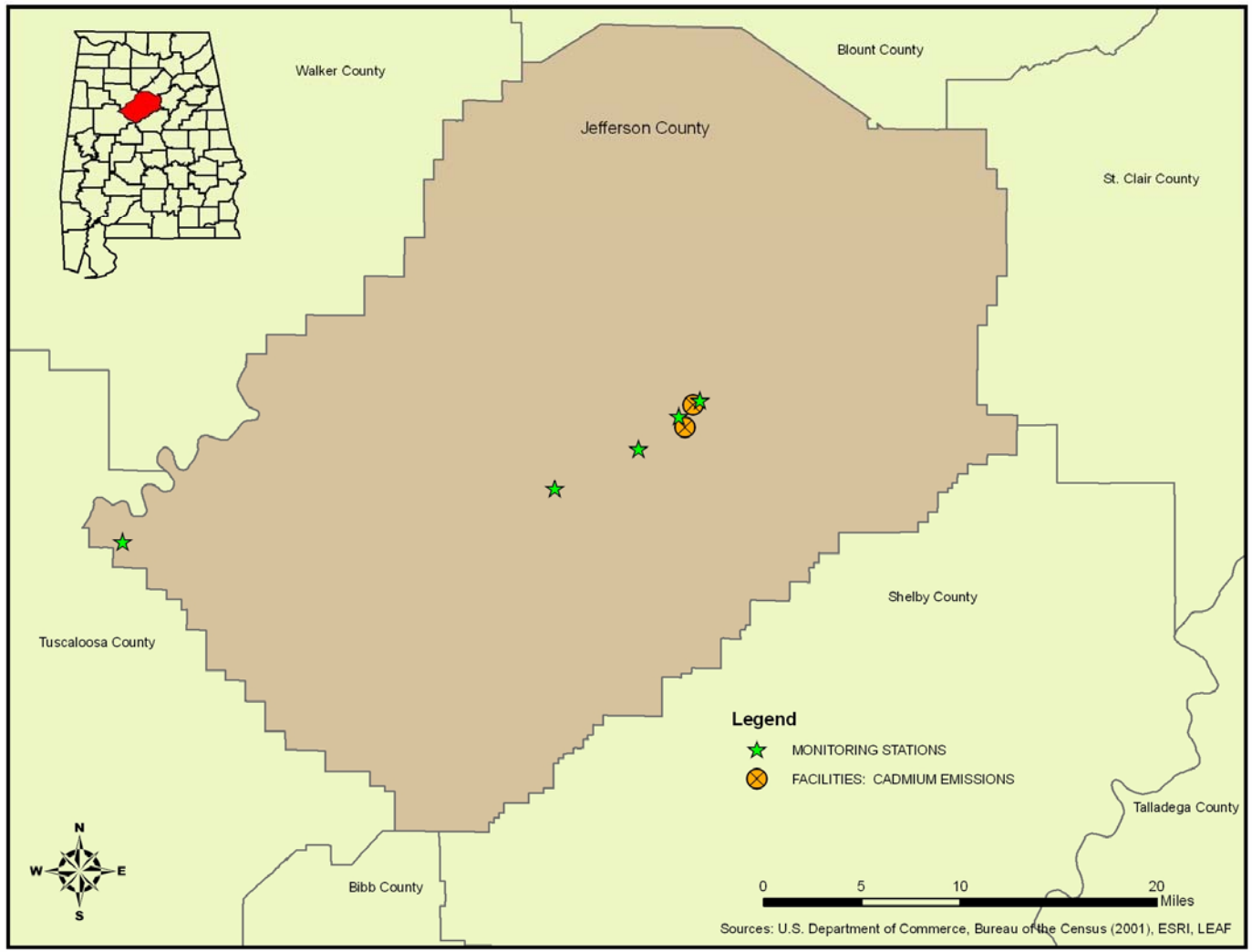
Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Relative Contribution of Cadmium Emission Sources in Jefferson County, AL



Source: U.S. EPA, County Emissions Report of Hazardous Air Pollutants, 1999

Cadmium Emission Facilities (2) and Ambient Air Monitoring Stations (5) in Jefferson County, AL



Source: U.S. EPA Risk-Screening Environmental Indicators Model, 2002 TRI Emissions

Cadmium

Safe Chronic Exposure Concentrations:

10^{-6} Cancer Risk (1 in 1,000,000) = 0.0006 $\mu g/m^3$

10^{-5} Cancer Risk (1 in 100,000) = 0.006 $\mu g/m^3$

10^{-4} Cancer Risk (1 in 10,000) = 0.06 $\mu g/m^3$

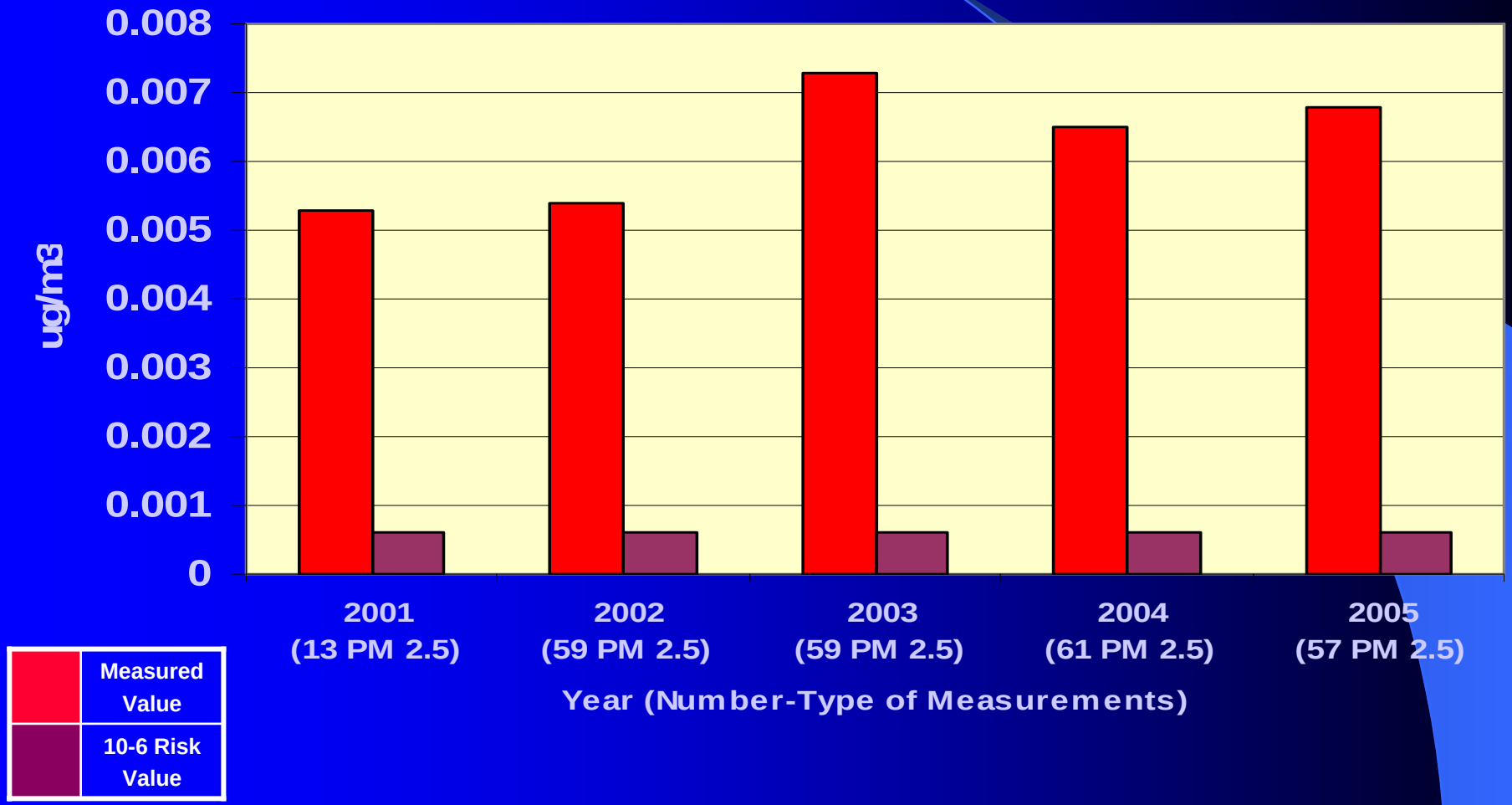
Source: U.S. EPA Integrated Risk Information System (IRIS)

Some Health Effects from Excessive Exposure to Cadmium

Probable Human Carcinogen (B1)
Kidney Disease
Kidney Stones
Proteinuria
Bronchiolitis
Emphysema
Liver Damage
Lung Damage
Fragile Bones
Immune System Impairment
Nervous System Damage

Sources: U.S. EPA Technology Transfer Network Air Toxics Website; Agency for Toxic Substances and Disease Registry (ATSDR) Public Health Statement for Cadmium

Mean Ambient Air Measurements of Cadmium Compared to Concentration Protective at 10^{-6} (1.00E-06) Cancer Risk 1242 Jersey Street



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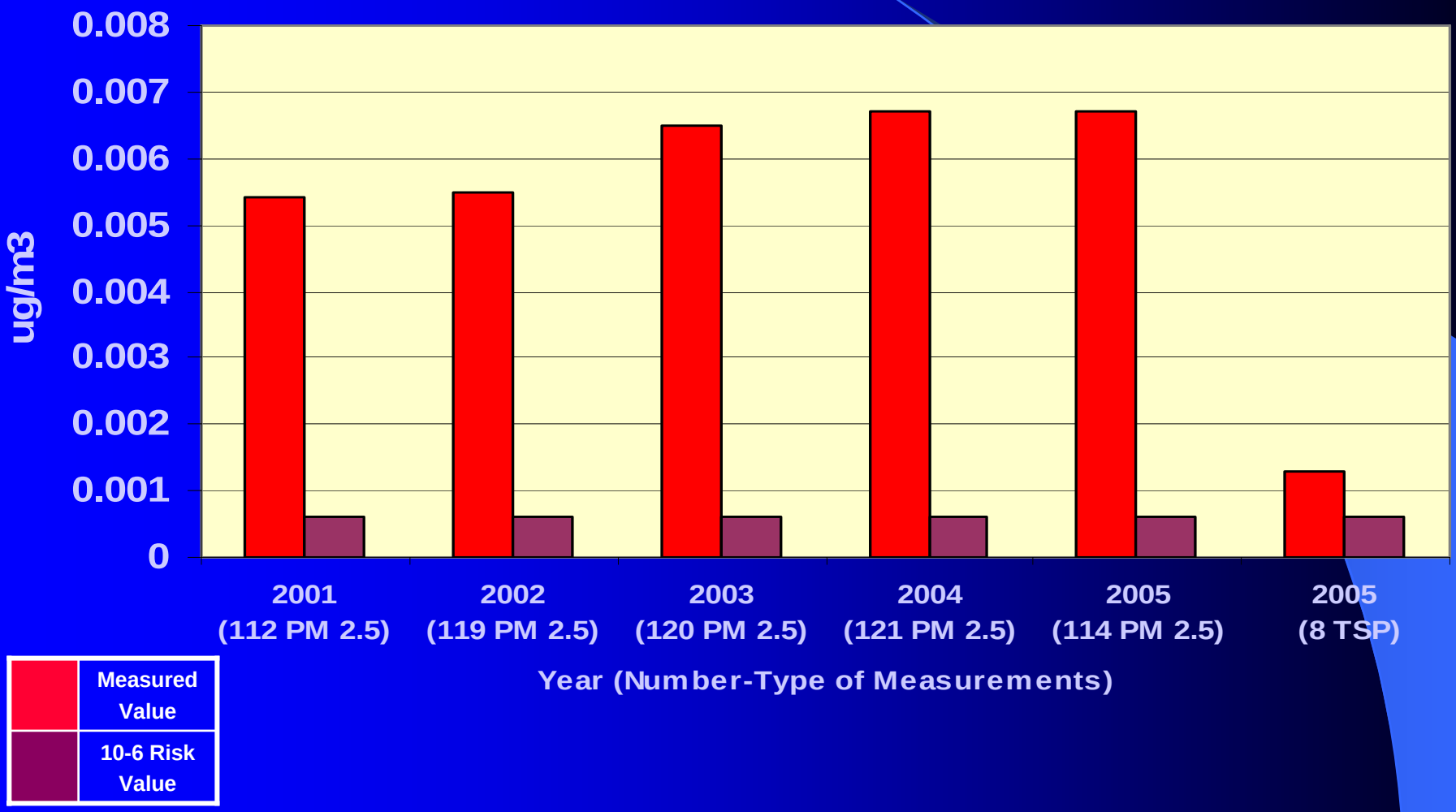
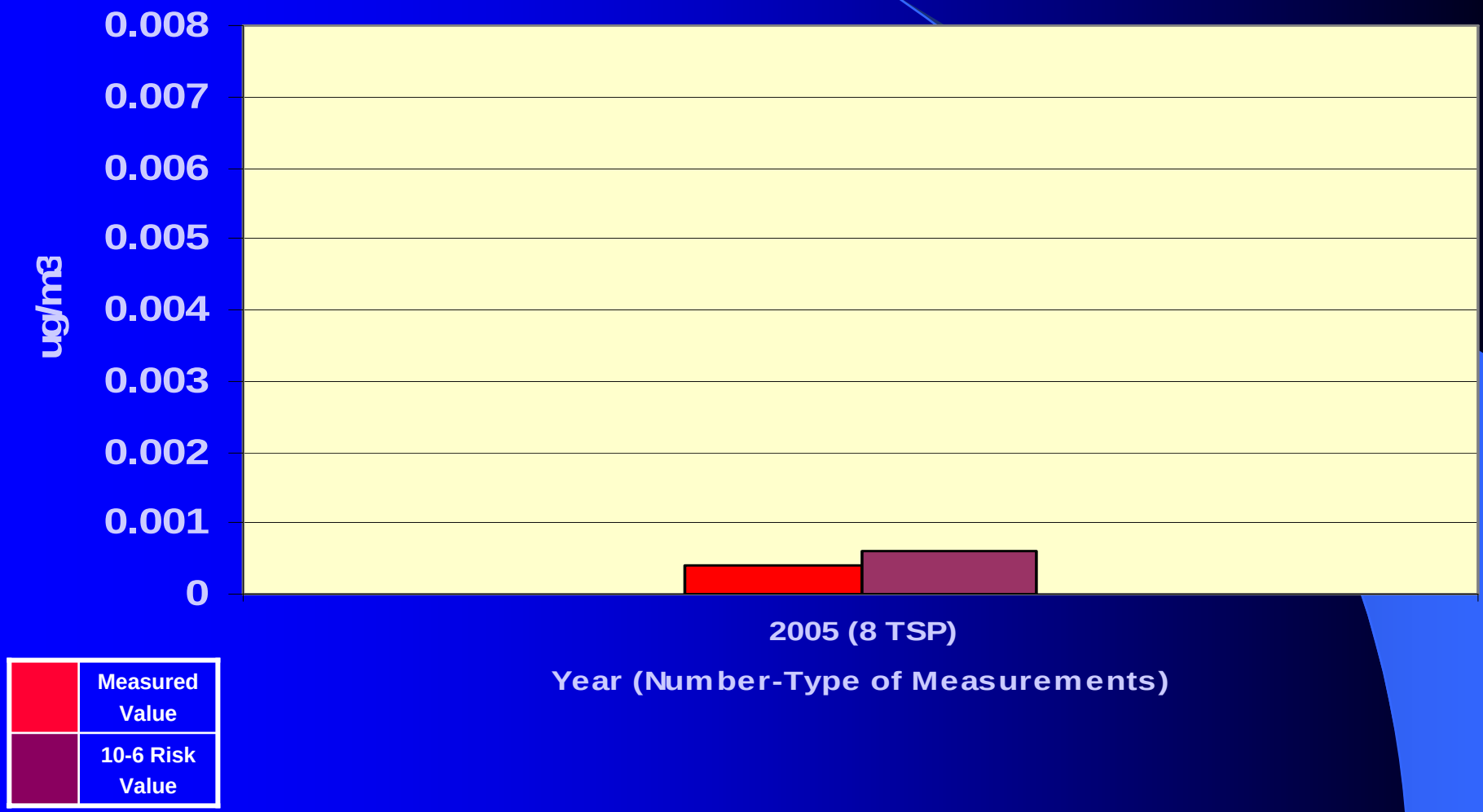
Mean Ambient Air Measurements of Cadmium Compared to Concentration Protective at 10^{-6} (1.00E-06) Cancer Risk 3009 28th Street North



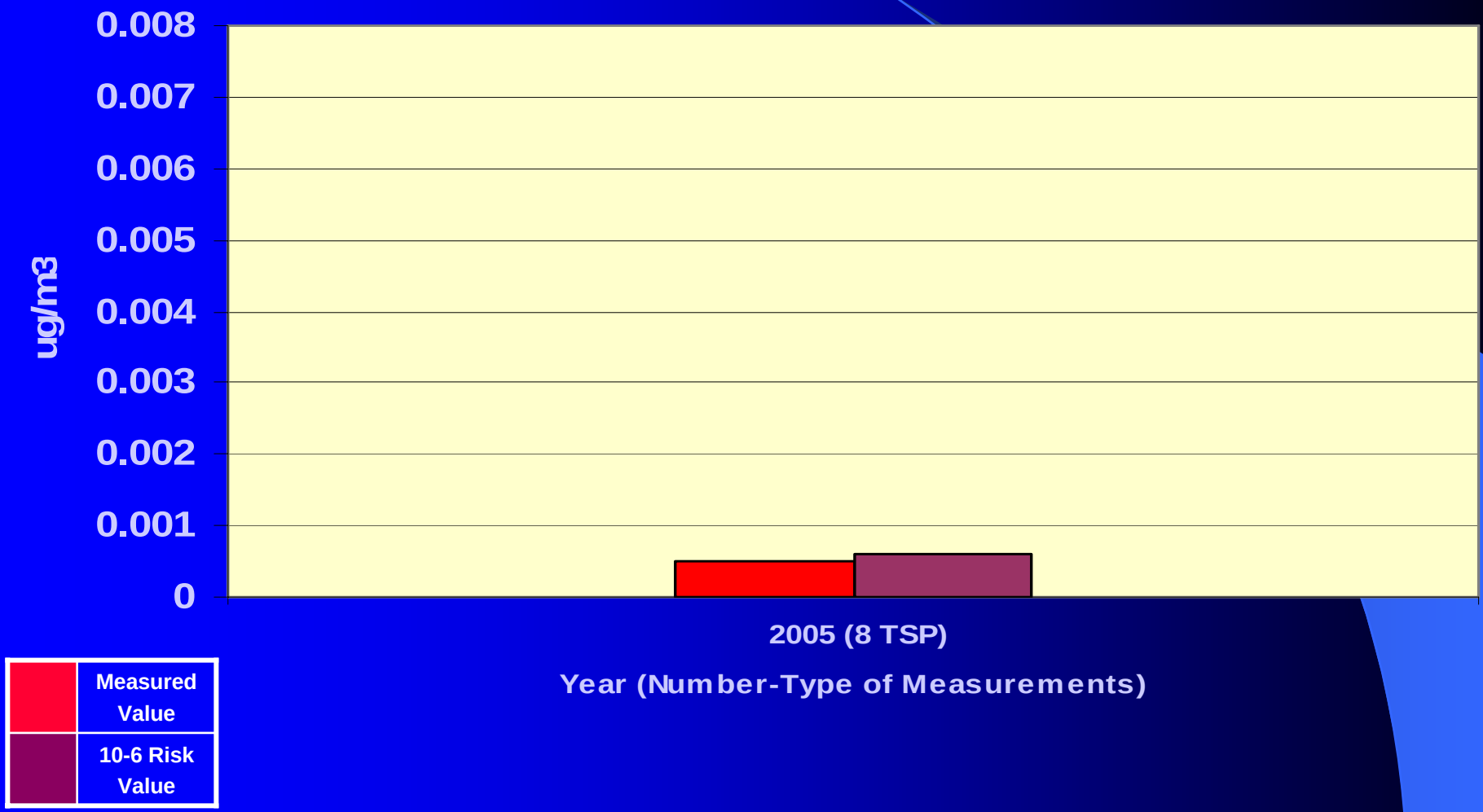
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Cadmium Compared to Concentration Protective at 10^{-6} (1.00E-06) Cancer Risk 4113 Shuttlesworth Drive



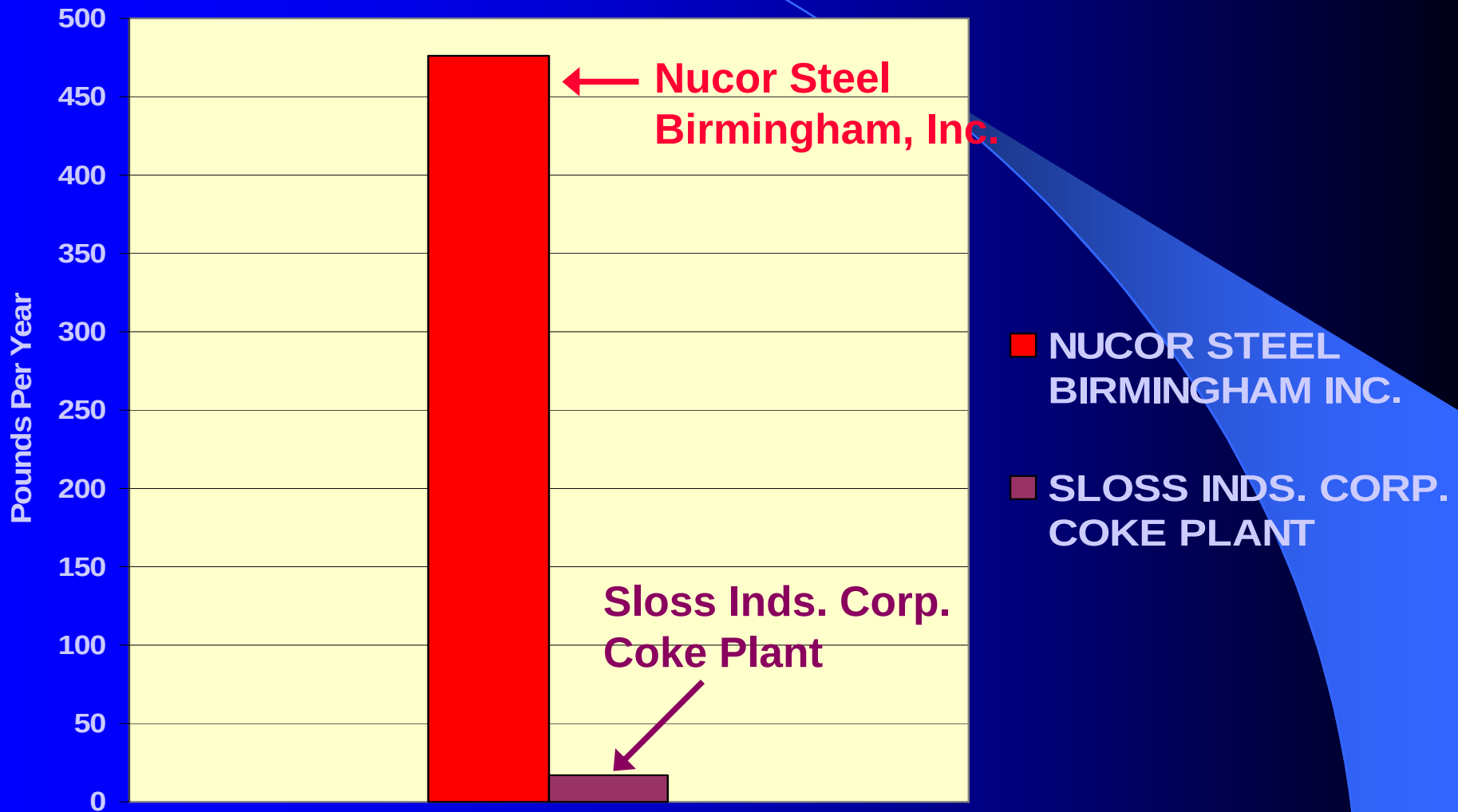
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Cadmium Compared to Concentration Protective at 10^{-6} (1.00E-06) Cancer Risk 841 Finley Avenue



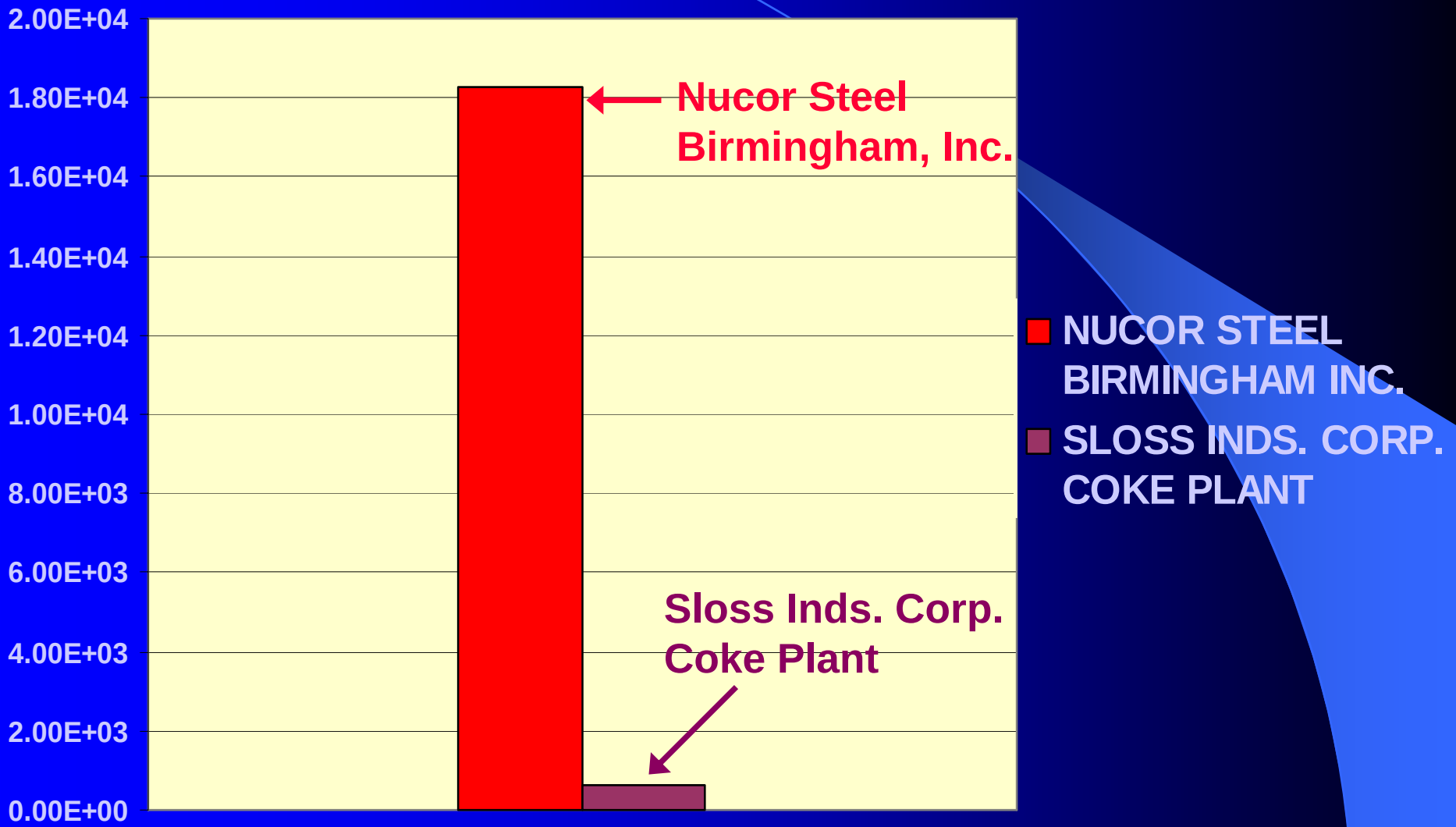
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Estimated Pounds of Cadmium and Cadmium Compounds Emitted by Facilities in Jefferson County, AL



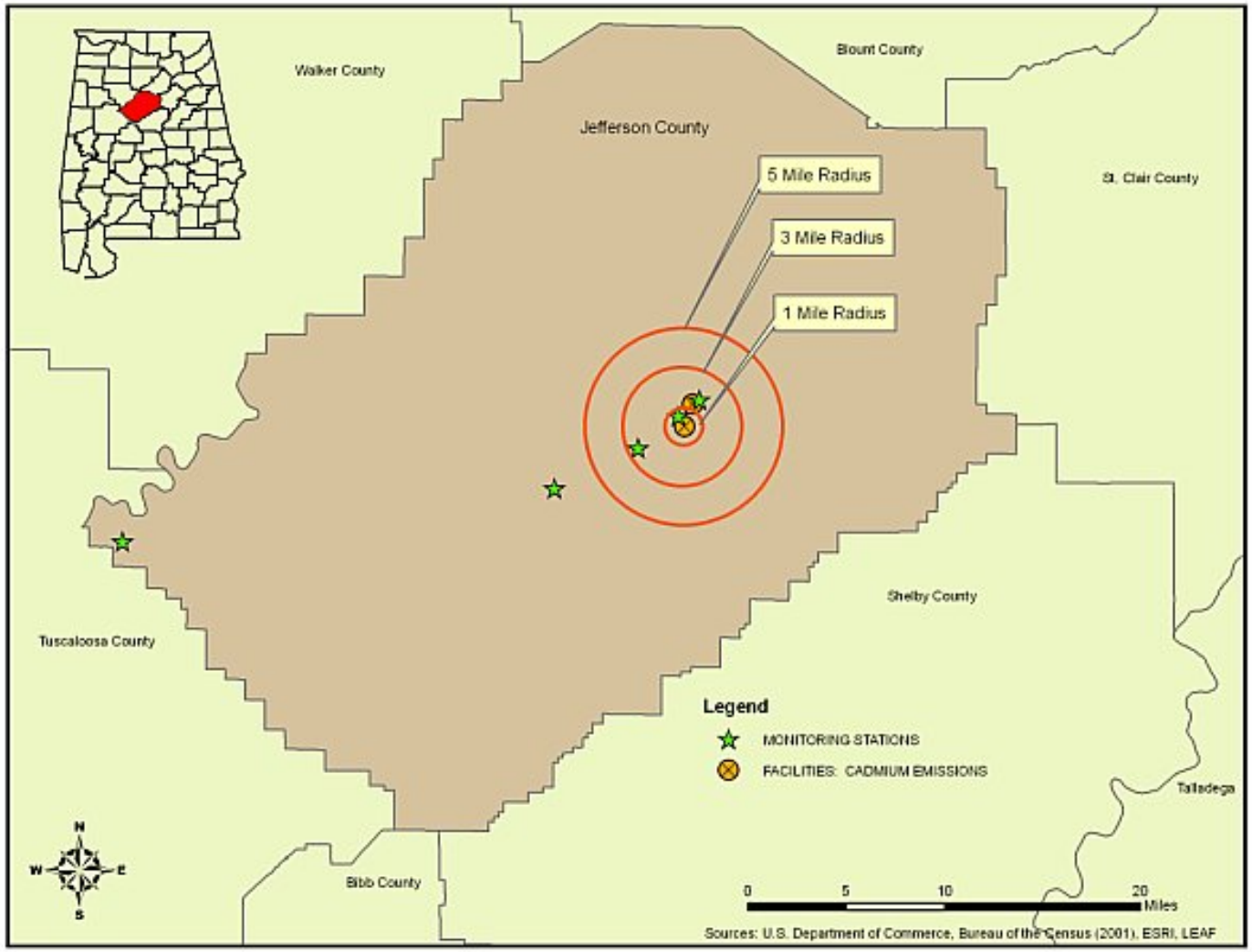
Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Estimated Relative Population Health Risk from Facilities Emitting Cadmium and Cadmium Compounds in Jefferson County, AL



Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Radii Surrounding Nucor Steel Birmingham, Inc.

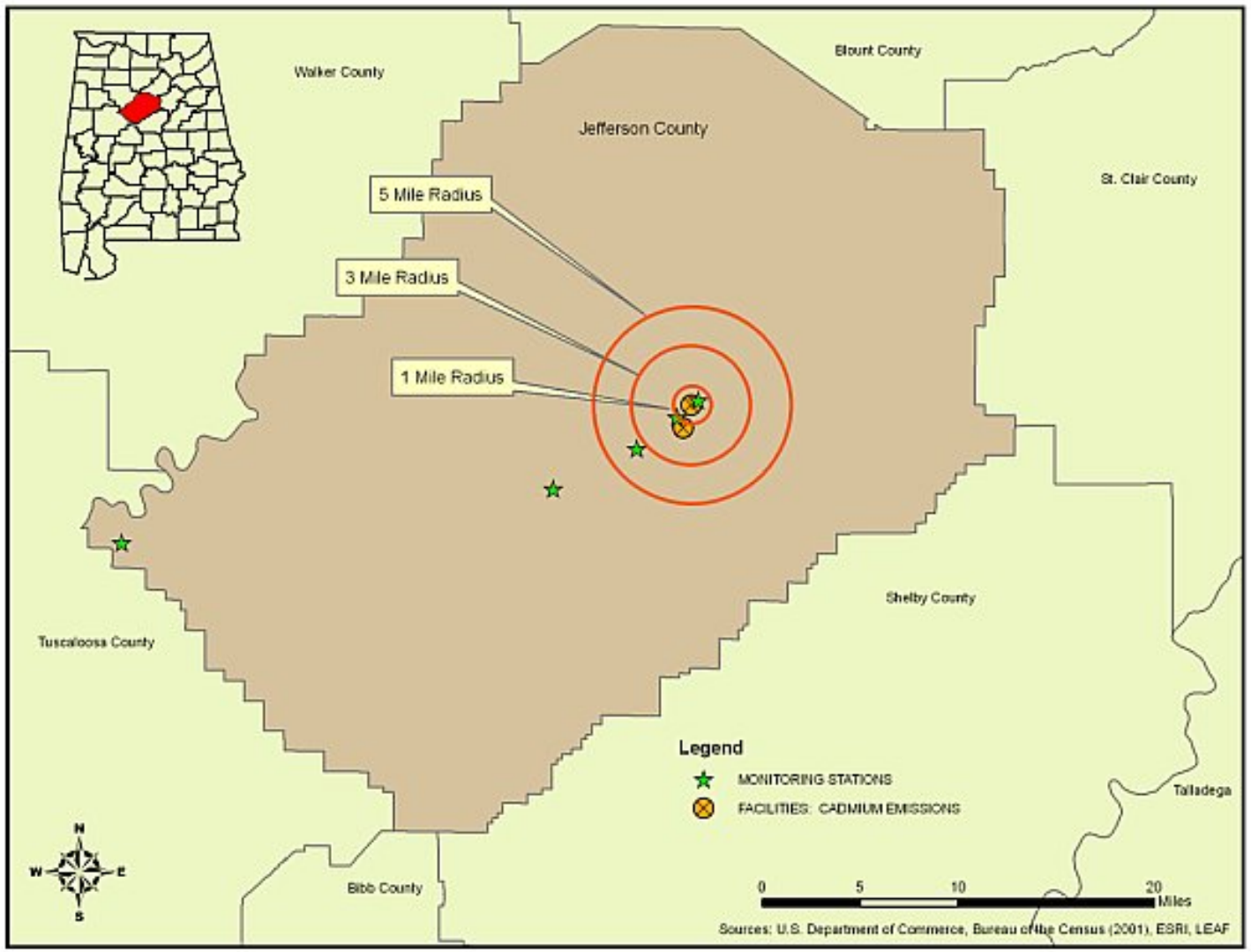


Demographics Surrounding Nucor Steel Birmingham, Inc. in Jefferson County, AL

Radius (miles) from Nucor Steel B'ham, Inc.	Estimated Population	Percent Minority	Percent Individuals Below Poverty	Percent Households Below $15,000
1.0	9,226	96.9	39.2	44.3
3.0	52,206	85.8	34.7	42.8
5.0	161,080	68.0	24.6	30.8

Source: U.S. EPA Environmental Justice Geographic Assessment Tool based on U.S. Census Bureau (Race Data 2000, Economic Data 1999). Note: Values in RED exceed U.S. EPA Region 4 criteria for identifying "environmental justice" communities.

Radii Surrounding Sloss Industries Corp. Coke Plant

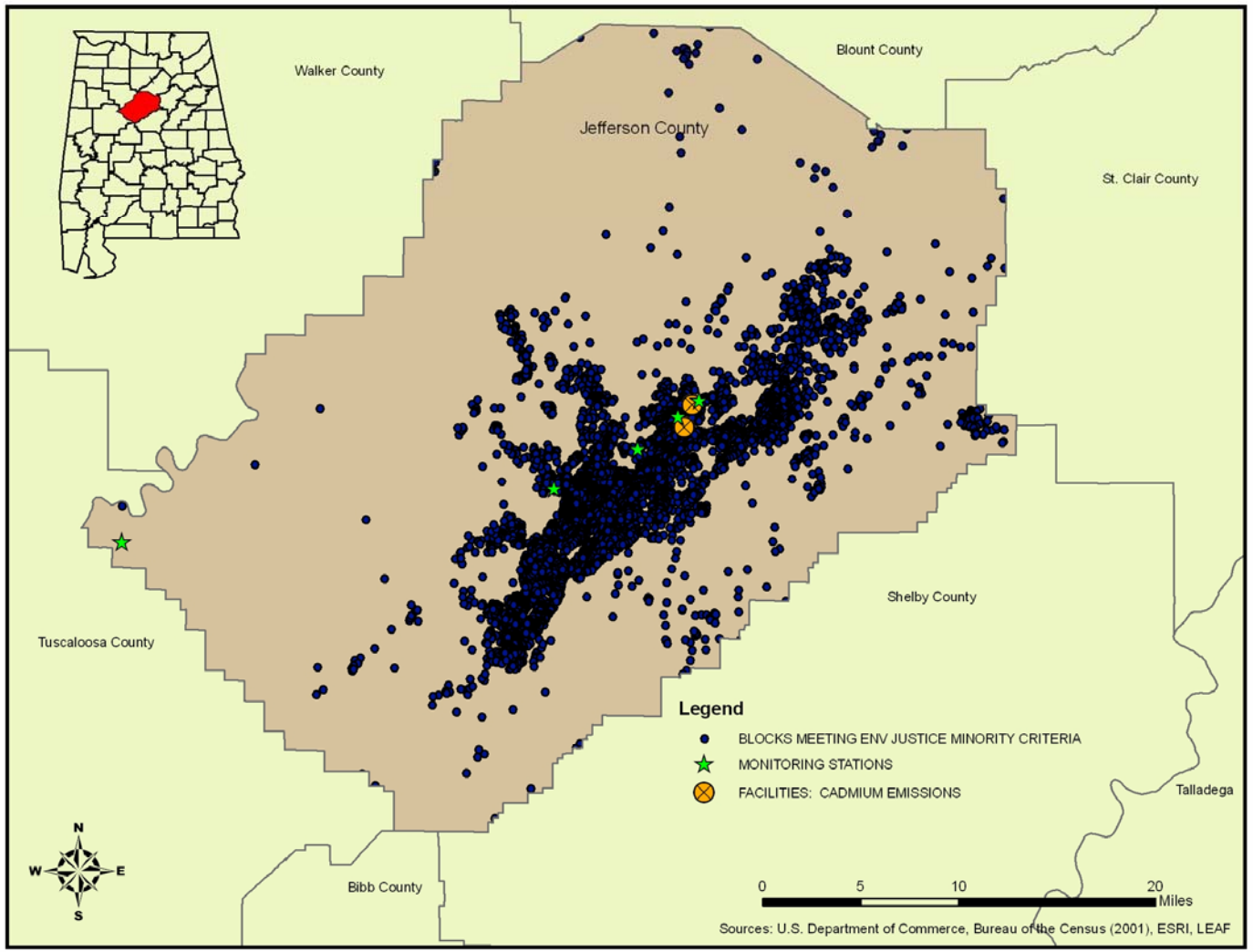


Demographics Surrounding Sloss Industries Corp. in Jefferson County, AL

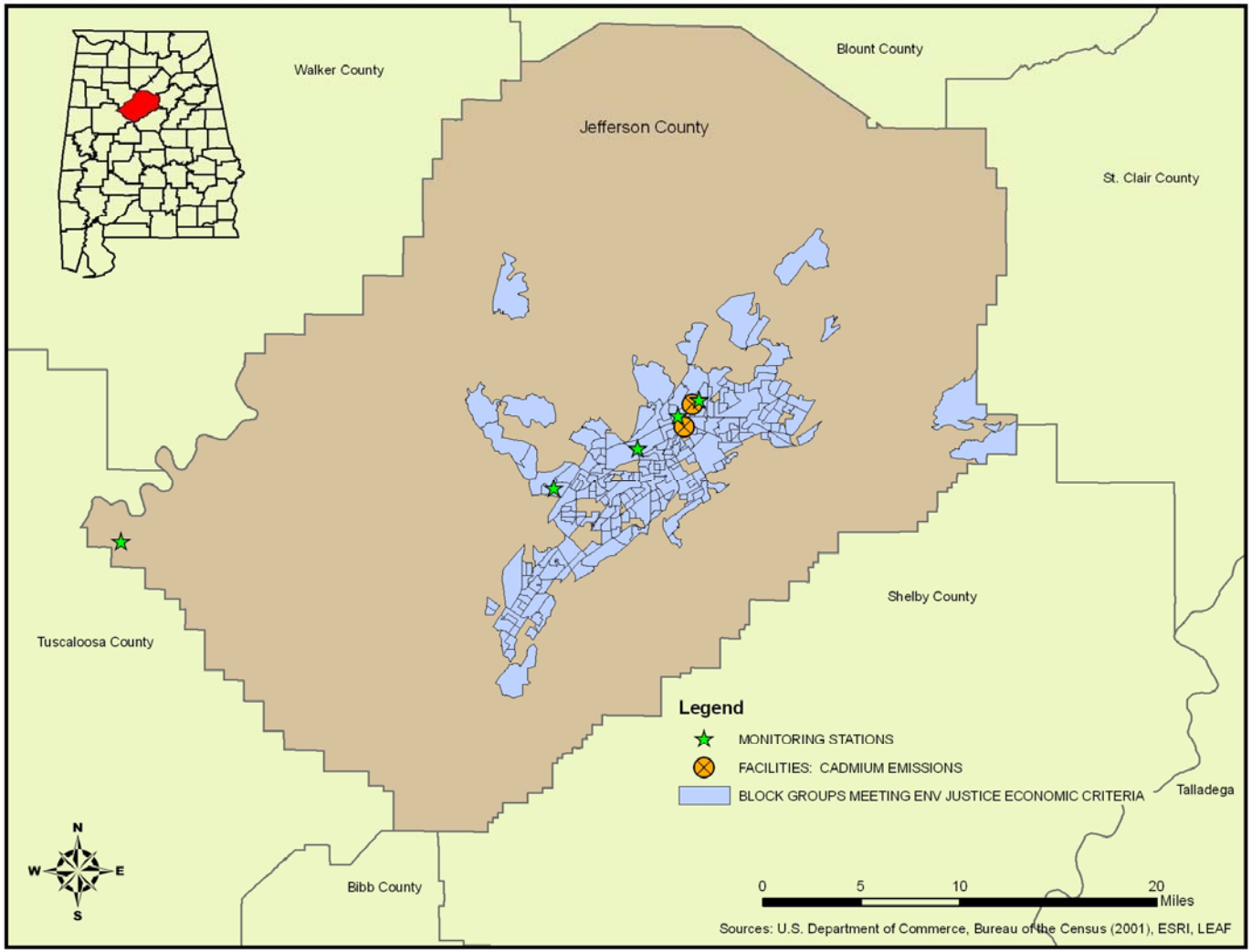
Radius (miles) from Sloss Indus. Corp.	Estimated Population	Percent Minority	Percent Individuals Below Poverty	Percent Households Below $15,000
1.0	4,675	94.4	45.1	50.3
3.0	41,956	80.5	33.7	39.9
5.0	132,777	67.3	25.5	31.8

Source: U.S. EPA Environmental Justice Geographic Assessment Tool based on U.S. Census Bureau (Race Data 2000, Economic Data 1999). Note: Values in RED exceed U.S. EPA Region 4 criteria for identifying “environmental justice” communities.

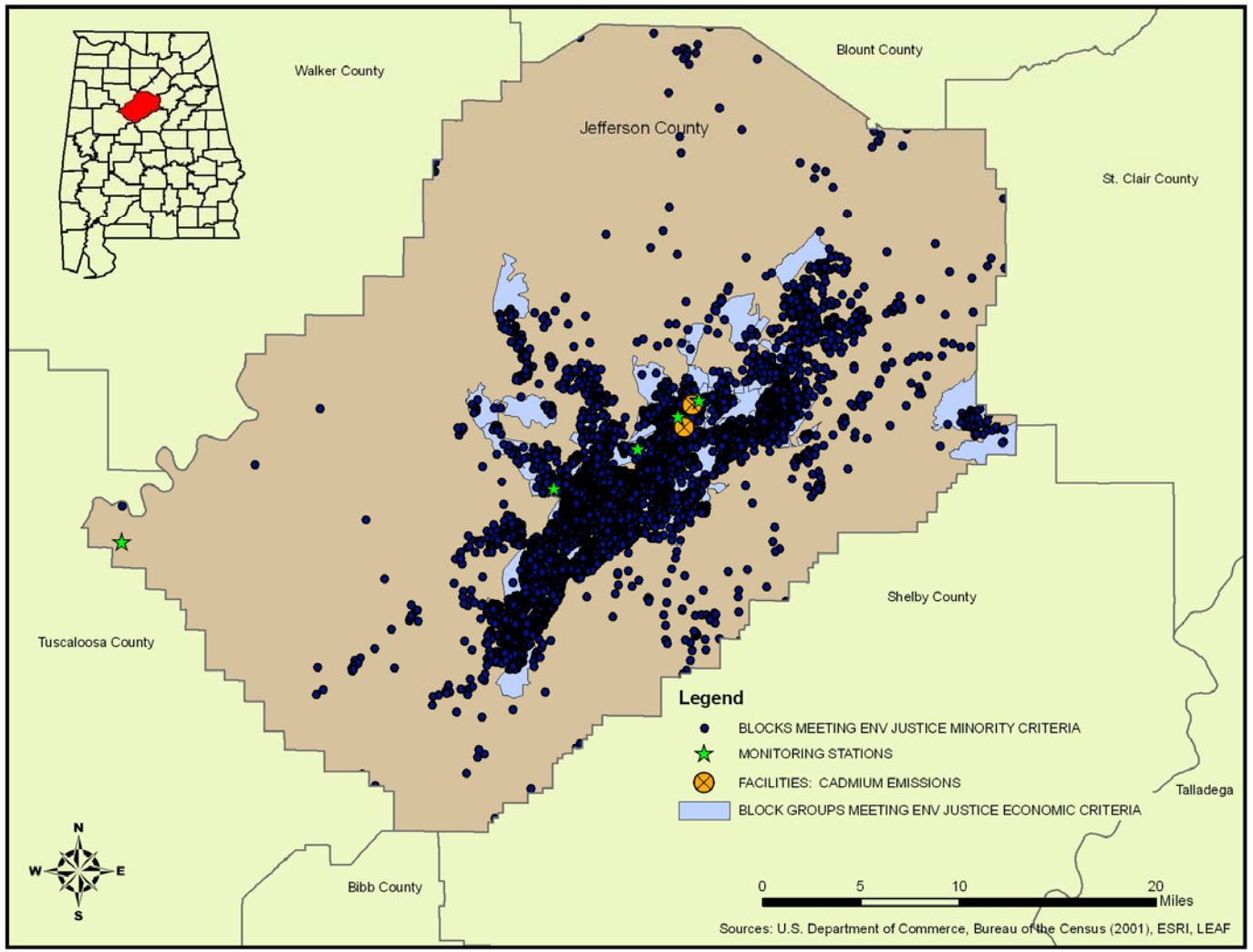
Cadmium Emission Facilities and Minority Census Blocks



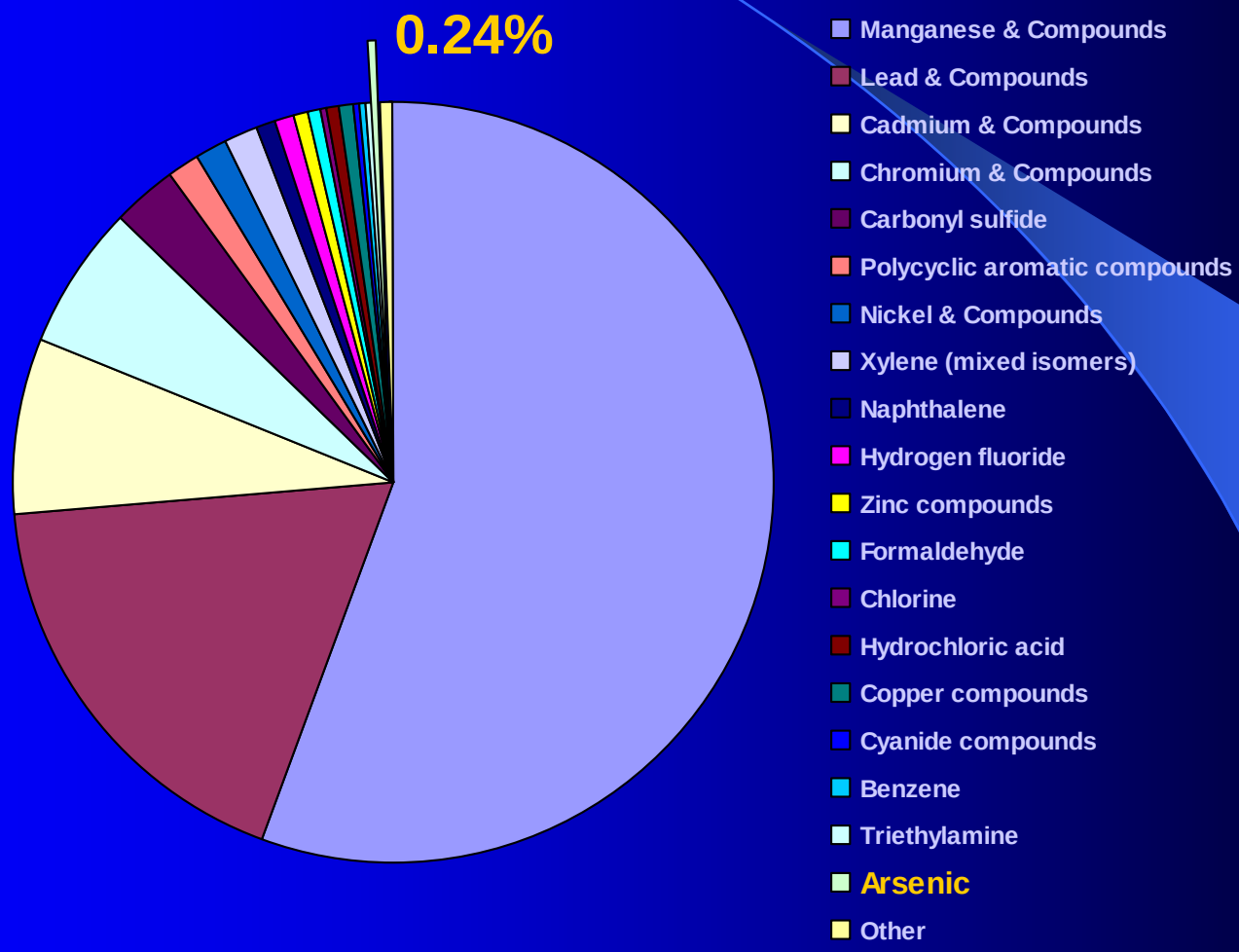
Cadmium Emission Facilities and Poverty or Low Income Census Block Groups



Cadmium Emission Facilities and Minority Census Blocks and Poverty or Low Income Census Block Groups

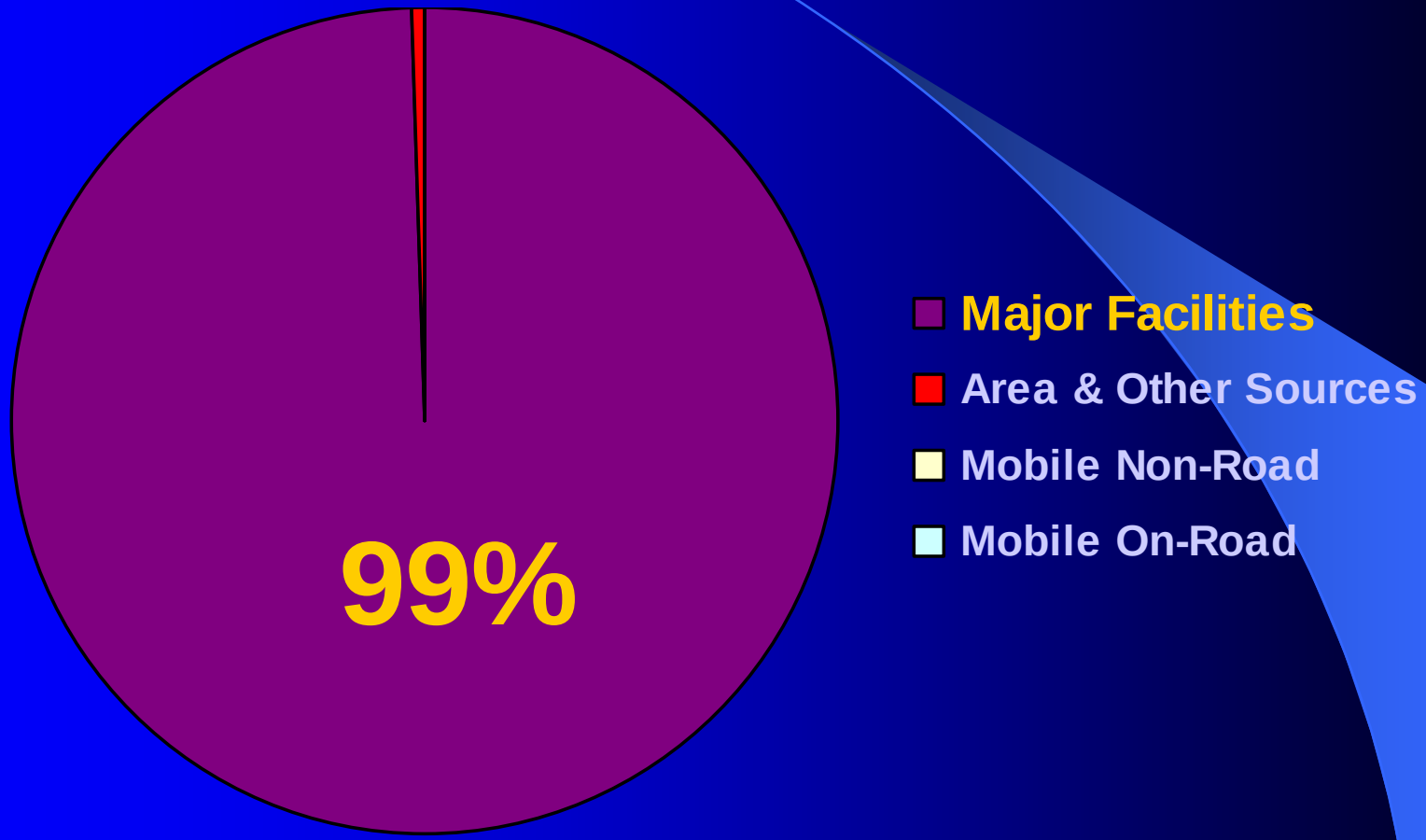


Estimated Relative Contribution to Population Health Risk (Dose x Tox x Pop) by Toxic Air Pollutants Emitted by Facilities in Jefferson County, AL



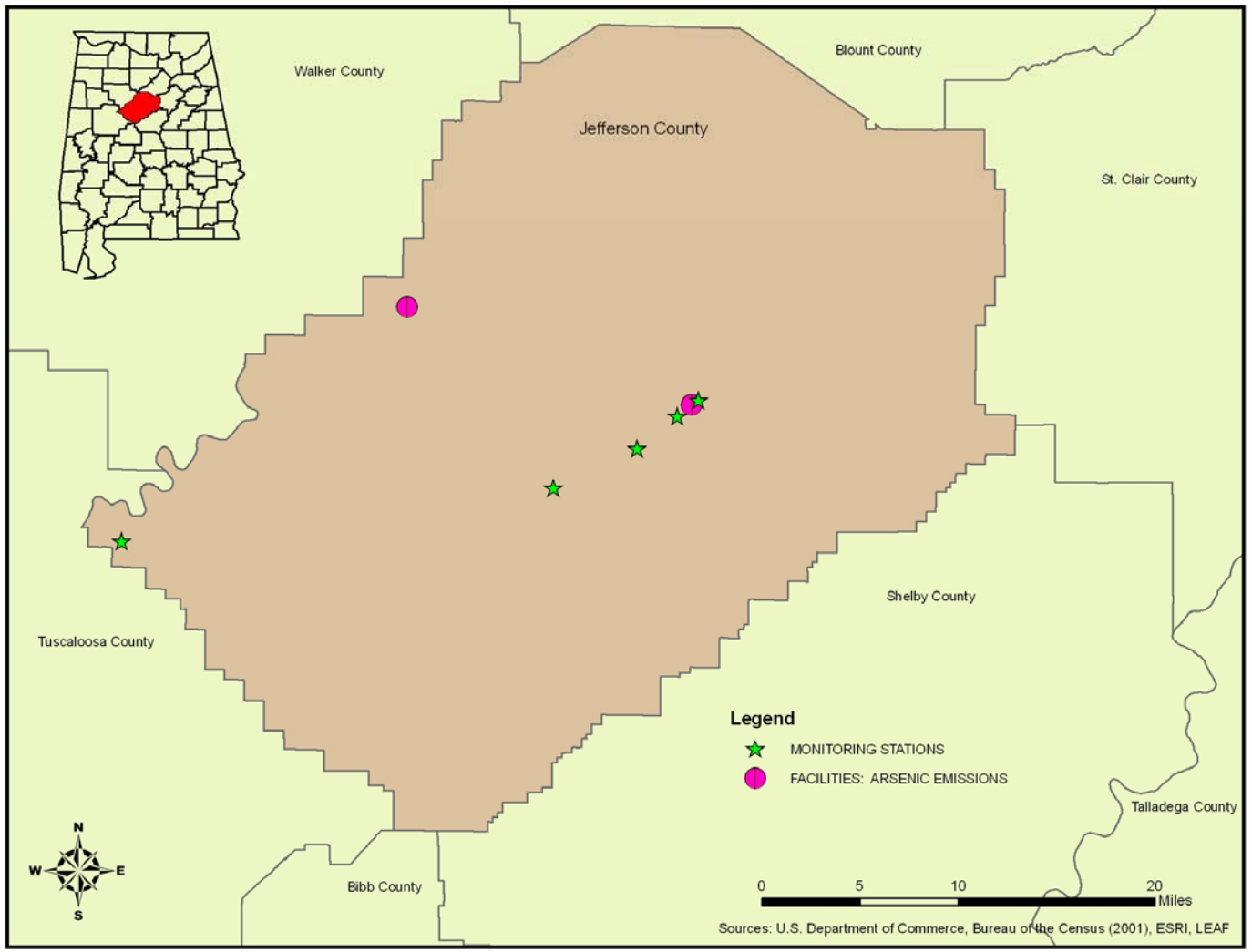
Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Relative Contribution of Arsenic Compounds Emission Sources in Jefferson County, AL



Source: U.S. EPA, County Emissions Report of Hazardous Air Pollutants, 1999

Arsenic Emission Facilities (2) and Ambient Air Monitoring Stations (5) in Jefferson County, Alabama



Arsenic

Safe Chronic Exposure Concentrations:

10^{-6} Cancer Risk (1 in 1,000,000) = 0.0002 $\mu g/m^3$

10^{-5} Cancer Risk (1 in 100,000) = 0.002 $\mu g/m^3$

10^{-4} Cancer Risk (1 in 10,000) = 0.02 $\mu g/m^3$

Source: U.S. EPA Integrated Risk Information System (IRIS)

Some Health Effects from Excessive Exposure to Arsenic

Human Carcinogen (A)

Irritation of Skin and Mucous Membranes

(Dermatitus, Conjunctivitis, Pharyngitis, Rhinitis)

Sore Throat

Irritated Lungs

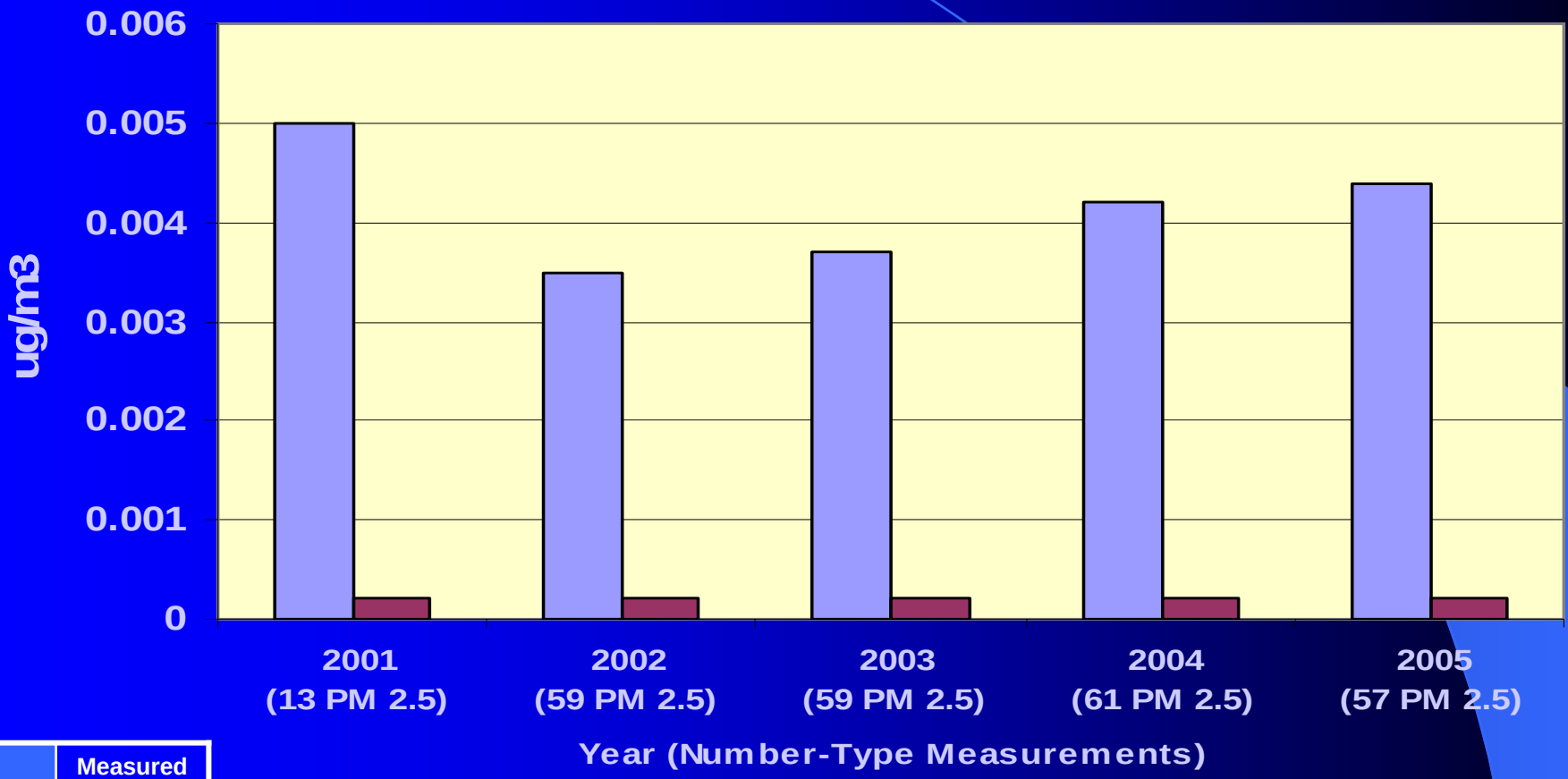
Darkening of Skin

Growths on Palms, Soles, and Torso

Circulatory and Peripheral Nervous System Disorders

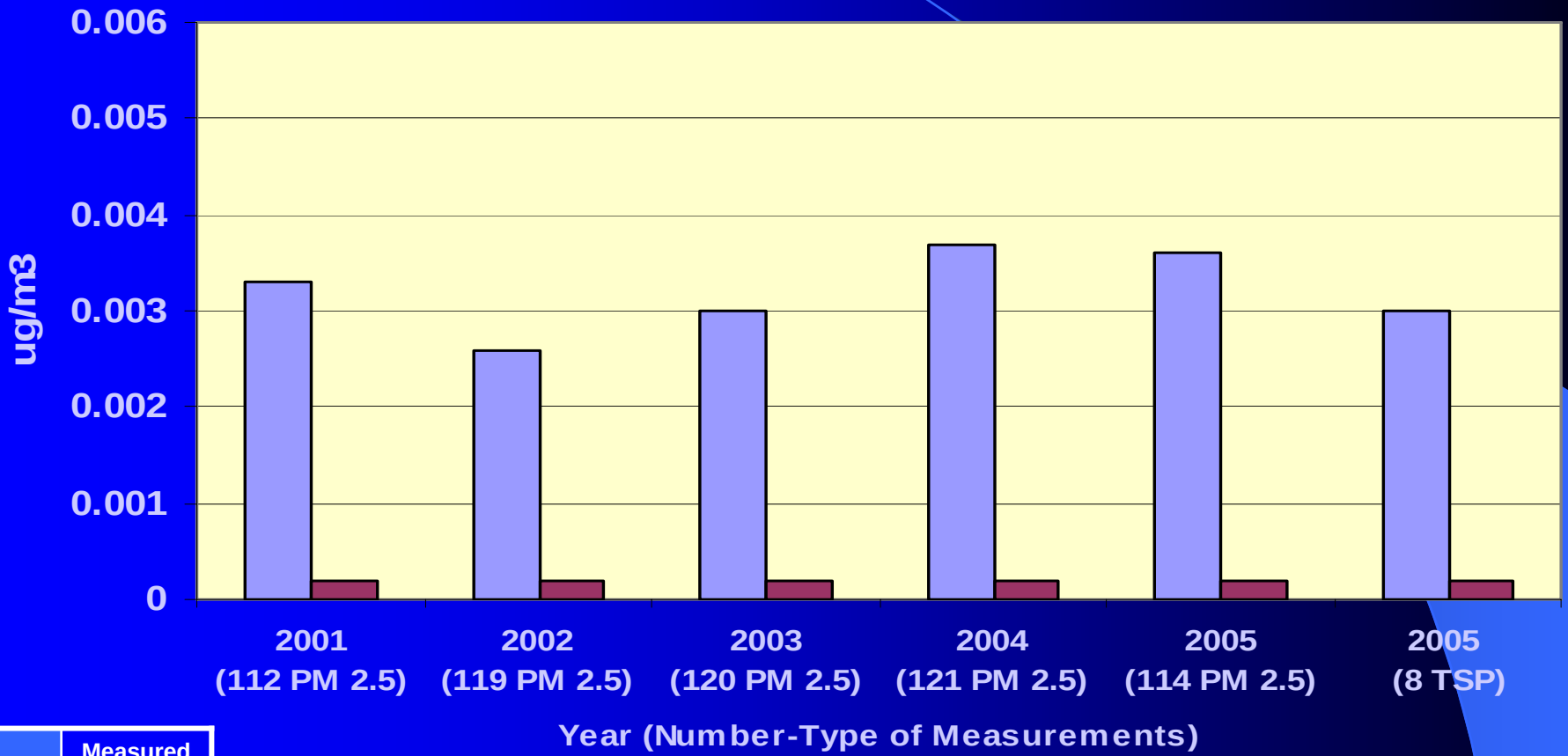
Sources: U.S. EPA Technology Transfer Network Air Toxics Website; Agency for Toxic Substances and Disease Registry (ATSDR) Public Health Statement for Arsenic

Mean Ambient Air Measurements of Arsenic Compared to Concentration Protective at 10^{-6} (1.00E-06) Cancer Risk 1242 Jersey Street



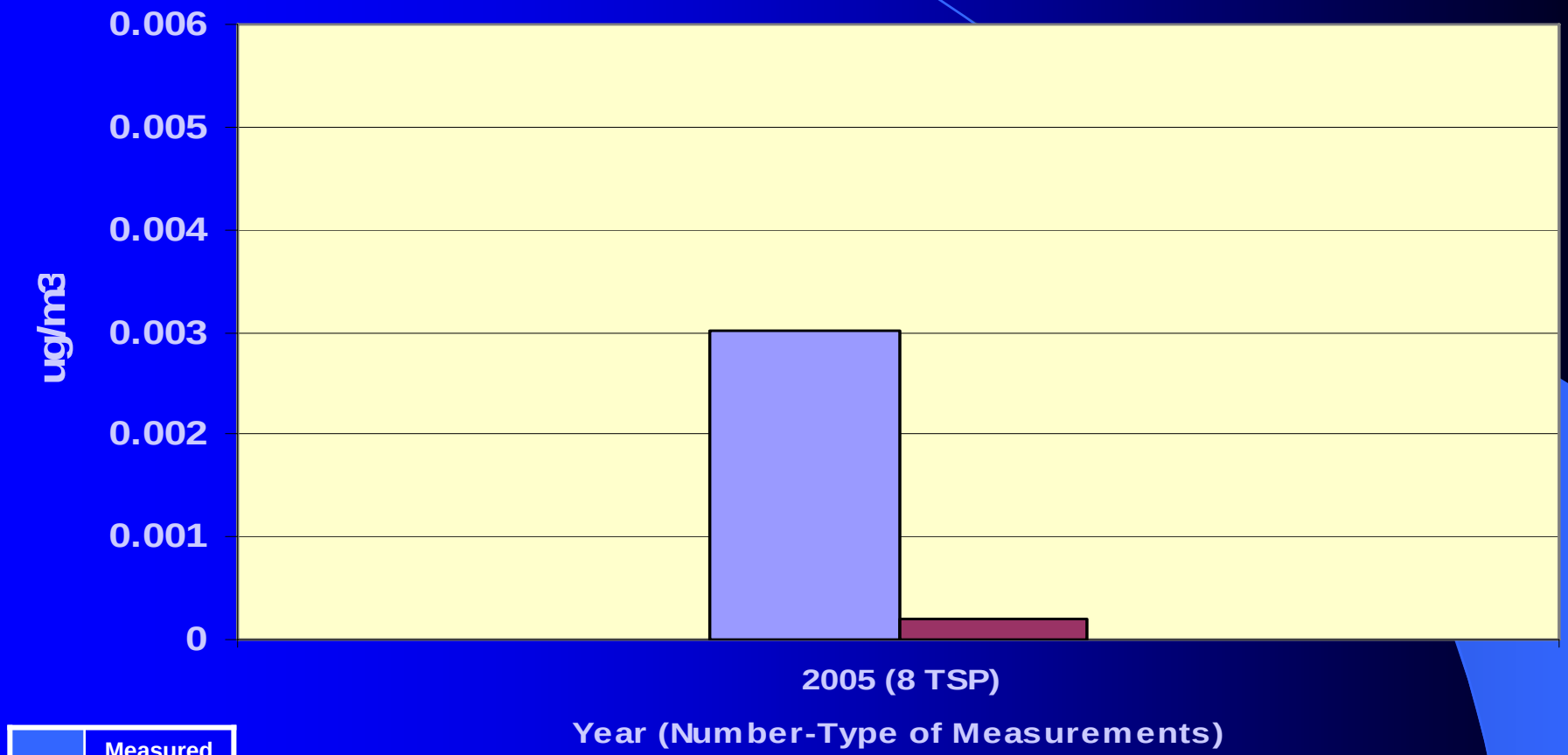
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Arsenic Compared to Concentration Protective at 10^{-6} (1.00E-06) Cancer Risk 3009 28th Street North



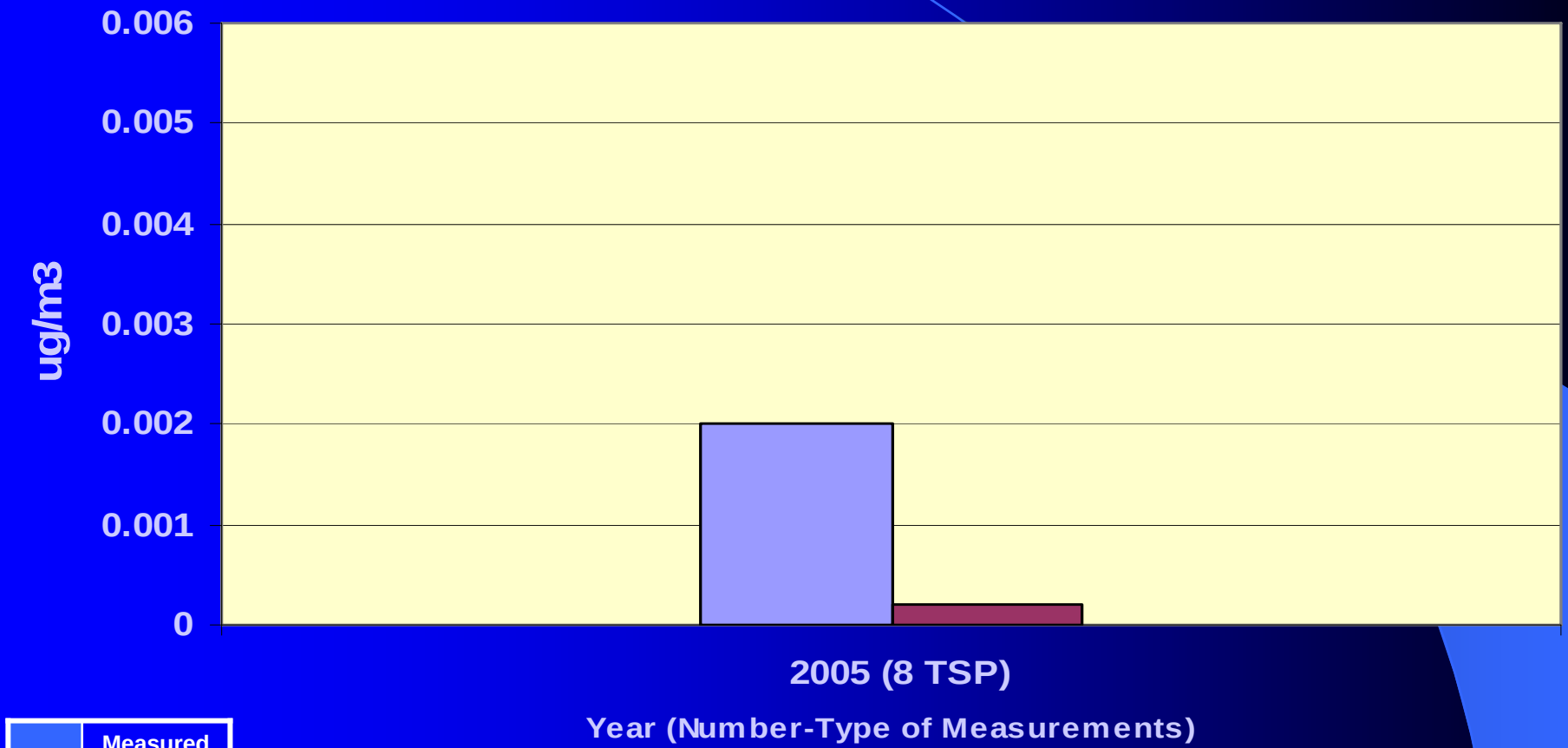
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Arsenic Compared to Concentration Protective at 10^{-6} (1.00E-06) Cancer Risk 4113 Shuttlesworth Drive



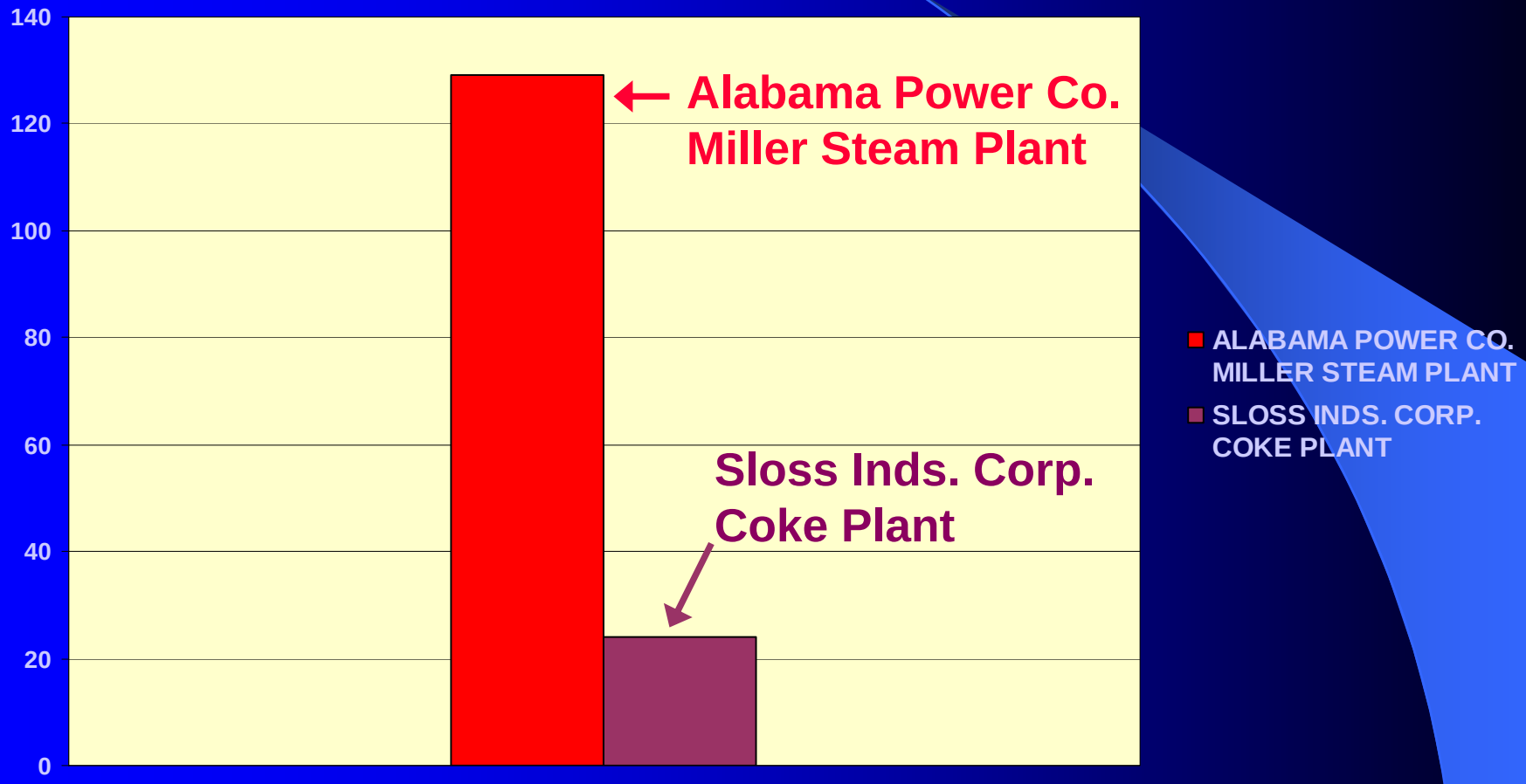
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Mean Ambient Air Measurements of Arsenic Compared to Concentration Protective at 10^{-6} (1.00E-06) Cancer Risk
841 Finley Avenue



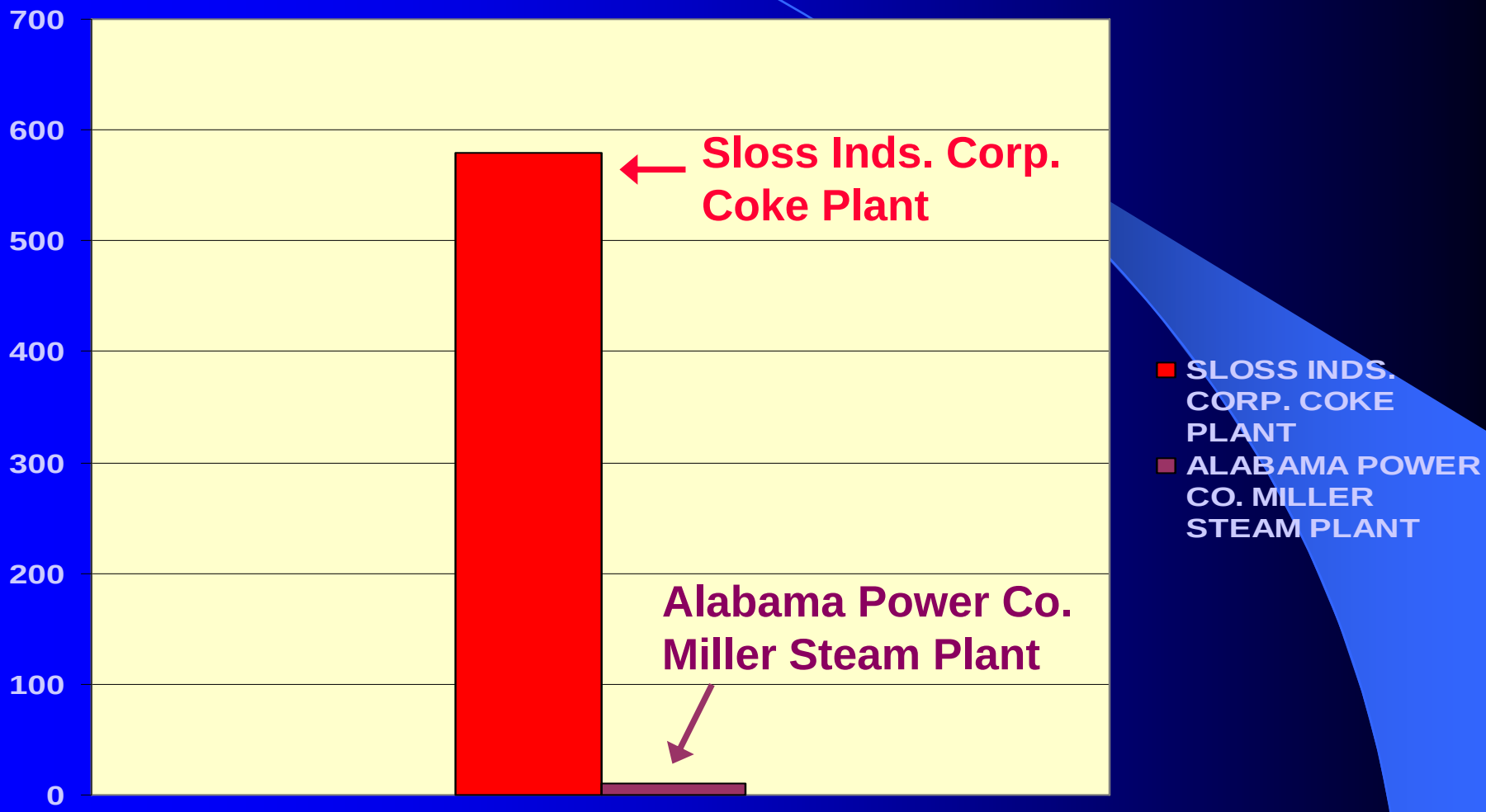
Measurements Source: Monitor Values Report - Hazardous Air Pollutants, U.S. EPA Air Data Website

Estimated Pounds of Arsenic and Arsenic Compounds Emitted by Facilities in Jefferson County, AL



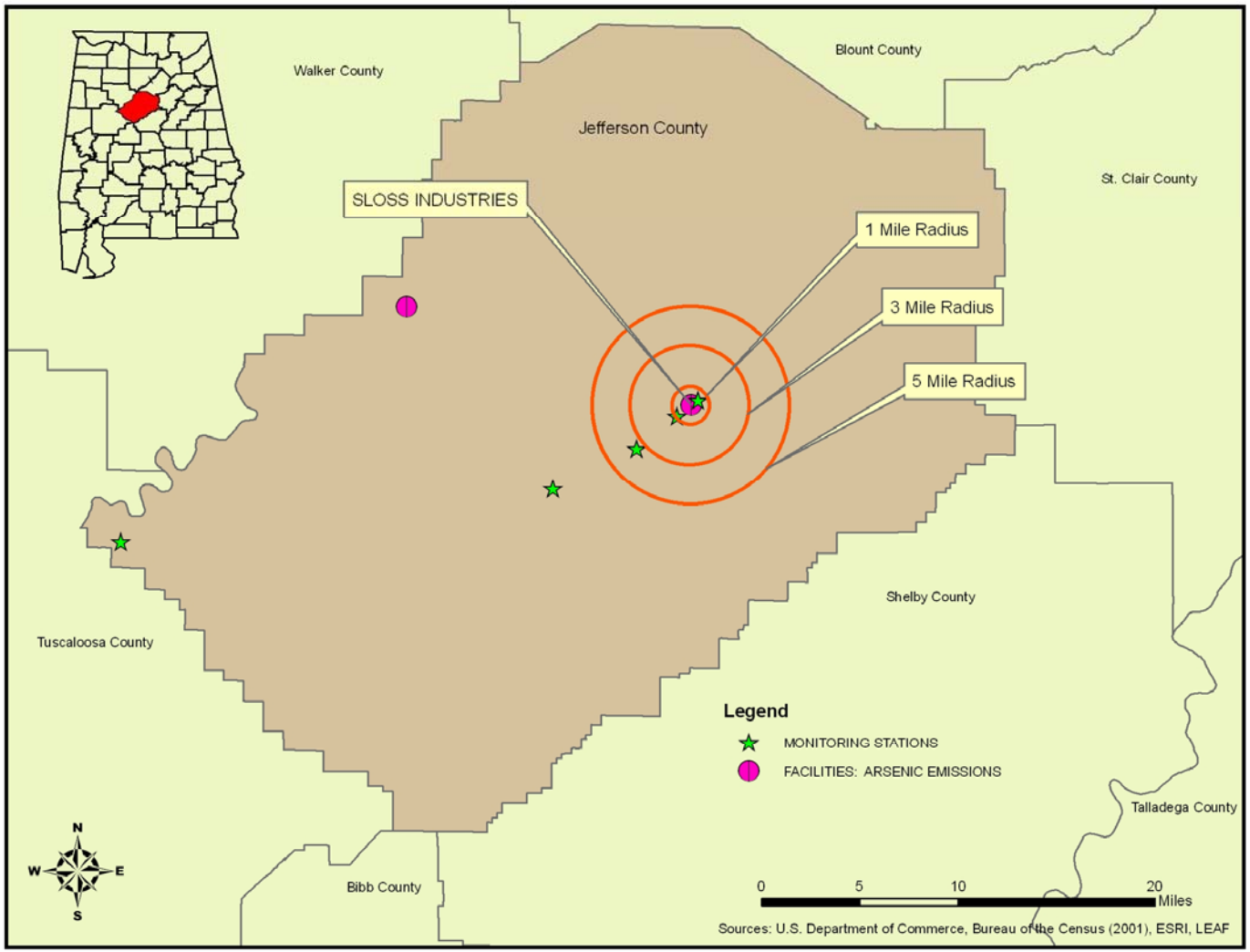
Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Estimated Relative Population Health Risk from Facilities Emitting Arsenic and Arsenic Compounds in Jefferson County, AL



Source: U.S. EPA Risk-Screening Environmental Indicators Model, Risk Score for 2002 TRI Emissions

Radii Surrounding Sloss Industries Corp. Coke Plant



Demographics Surrounding Sloss Industries Corp. in Jefferson County, AL

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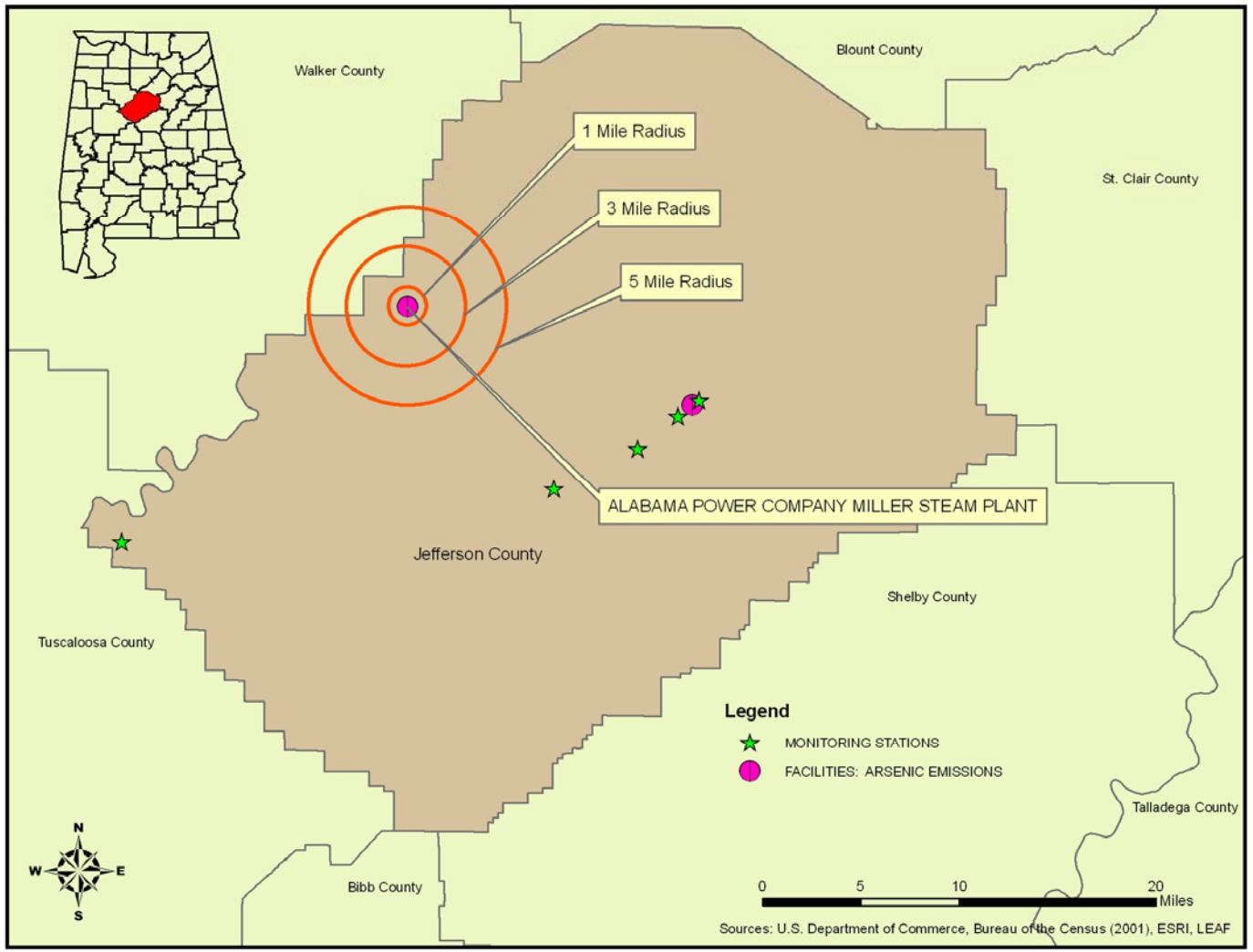
Source: U.S. EPA Environmental Justice Geographic Assessment Tool based on U.S. Census Bureau (Race Data 2000, Economic Data 1999). Note: Values in RED exceed U.S. EPA Region 4 criteria for identifying “environmental justice” communities.

Radii Surrounding Alabama Power Co. Miller Steam Plant

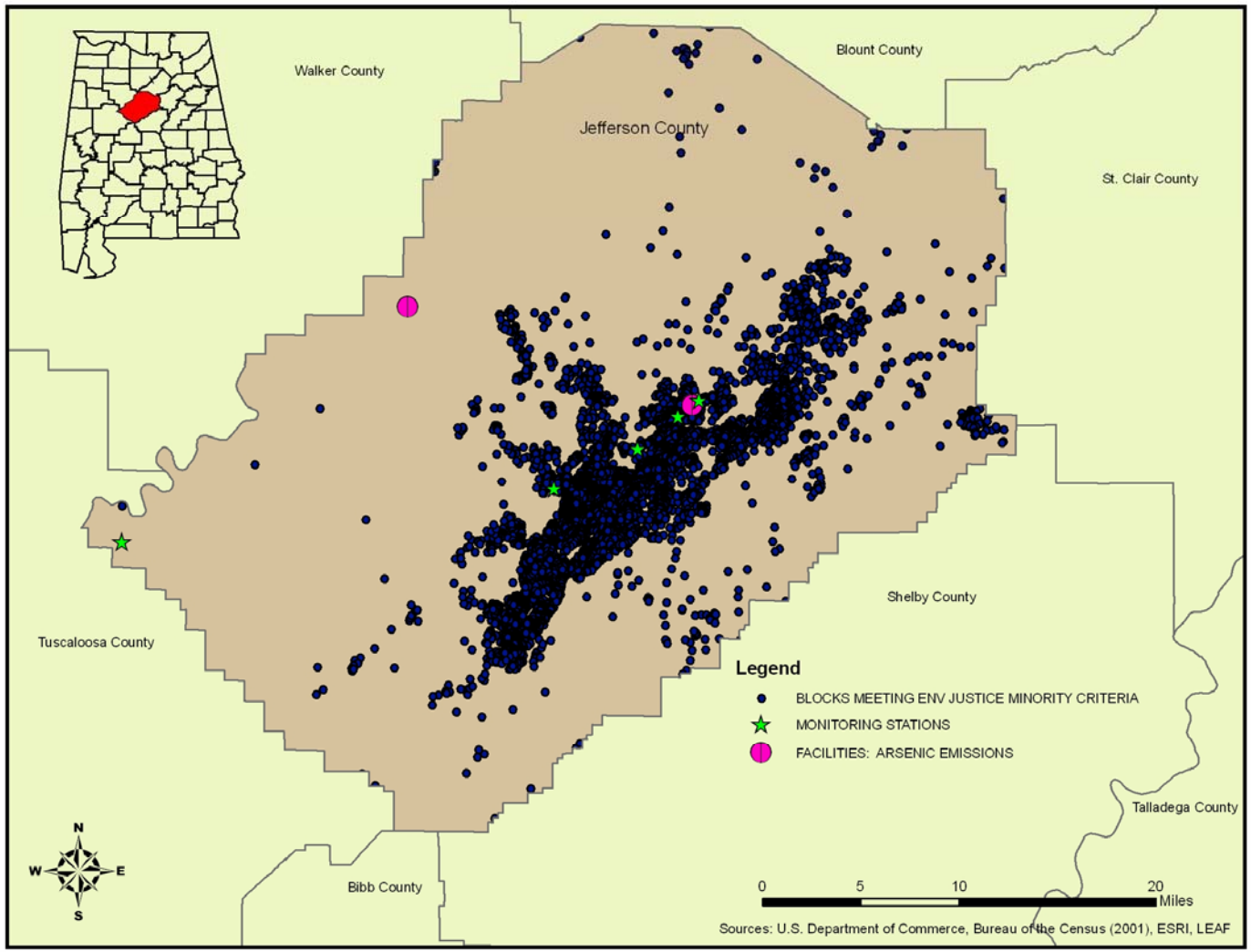


Demographics Surrounding Alabama Power Co. Miller Steam Plant in Jefferson County, AL

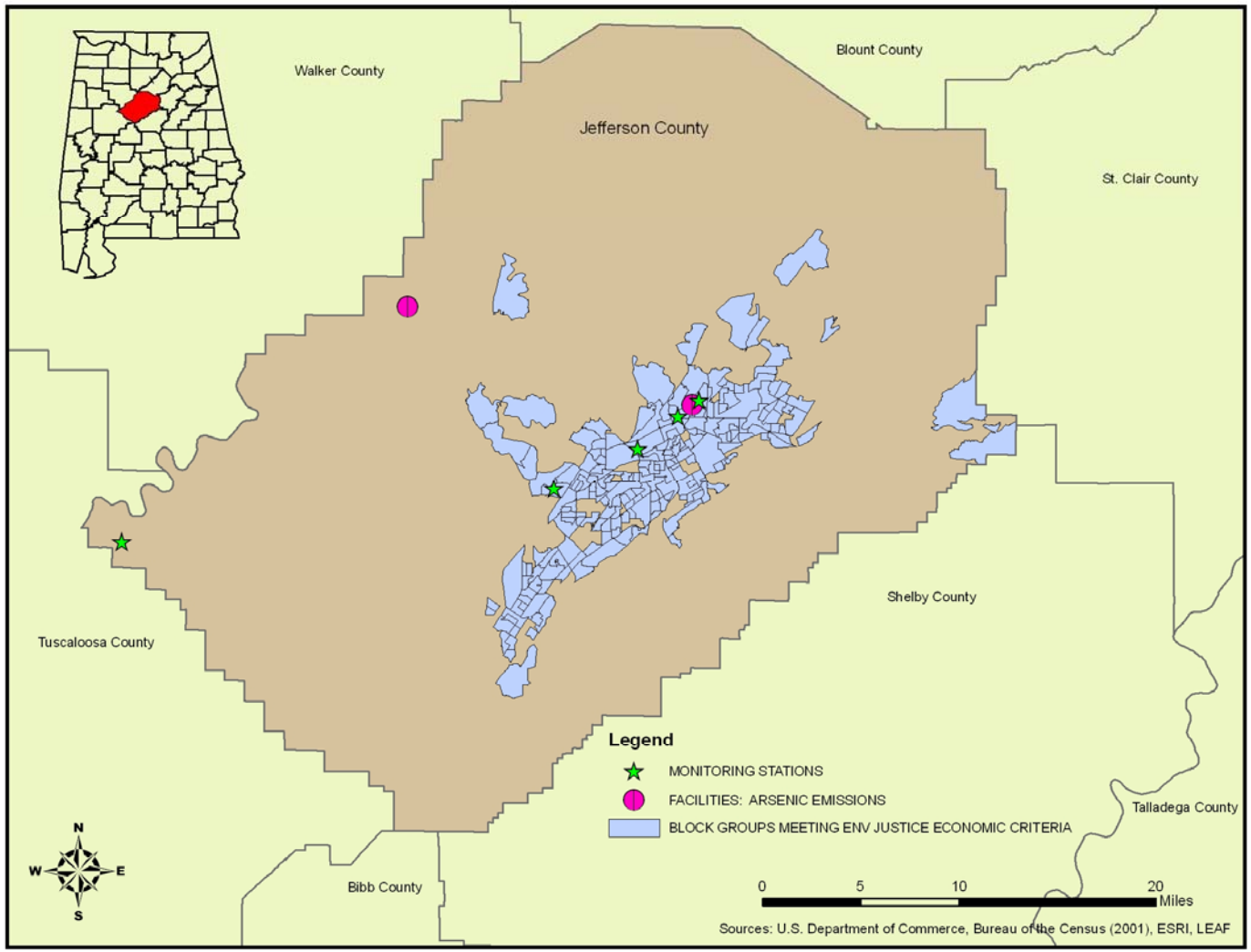
Radius (miles) from Ala. Power Miller Steam Plant	Estimated Population	Percent Minority	Percent Individuals Below Poverty	Percent Households Below $15,000
1.0	214	5.1	5.1	
3.0	2,121	8.2	6.0	14.5
5.0	7,337	11.9	7.0	

Source: U.S. EPA Environmental Justice Geographic Assessment Tool based on U.S. Census Bureau (Race Data 2000, Economic Data 1999). Note: Values in RED exceed U.S. EPA Region 4 criteria for identifying “environmental justice” communities.

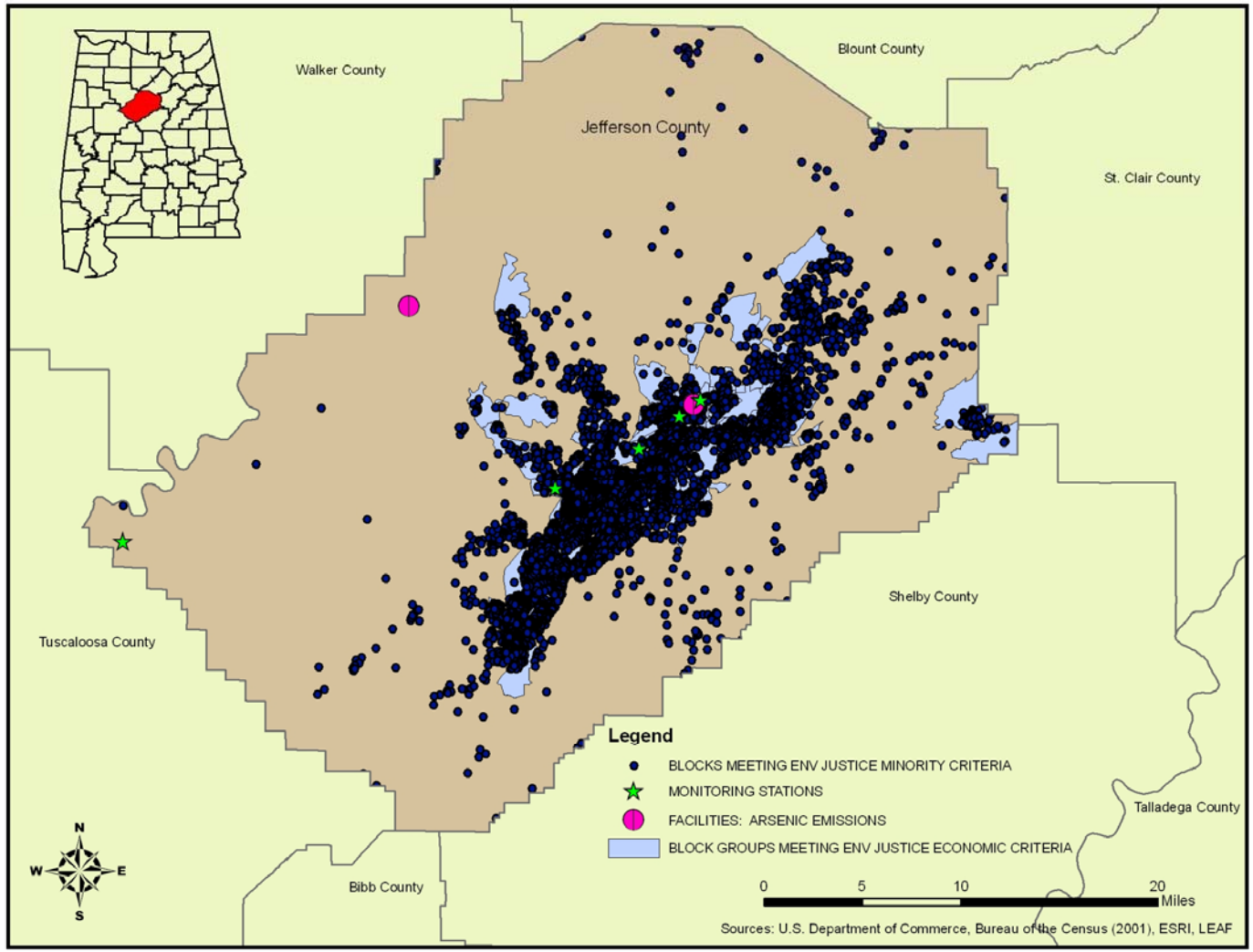
Arsenic Emission Facilities and Minority Census Blocks



Arsenic Emission Facilities and Poverty or Low Income Census Block Groups



Arsenic Emission Facilities and Minority Census Blocks and Poverty or Low Income Census Block Groups



Cumulative Exposures to Toxic Air Pollutants

23 facilities emit Manganese and Manganese Compounds into the air of Jefferson County (TRI, 2002)

23 facilities emit Lead and Lead Compounds into the air of Jefferson County (TRI, 2002)

2 facilities emit Cadmium and Cadmium Compounds into the air of Jefferson County (TRI, 2002)

2 facilities emit Arsenic and Arsenic Compounds into the air of Jefferson County (TRI, 2002)

62 facilities emit 66 toxic chemicals and compounds into the air of Jefferson County, AL (TRI, 2004).

Other Chemicals Exceeding "Safe" Concentrations*

1,3-Butadiene
Formaldehyde
Acetaldehyde
Acrolein
Acrylonitrile
Methyl Chloride
Benzene
Benzyl Chloride

Chloroform
Carbon Tetrachloride
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,2-Dichloropropane
Hexachlorobutadiene
1,4-Dichlorobenzene

* Review of air monitoring data at 3009 28th Street North

Current Regulatory Regime

Clean Air Act, 42 U.S.C. § 7412 - Hazardous Air Pollutants

187 Hazardous Air Pollutants Designated

More than 80 Categories and Subcategories of Major Sources of Hazardous Pollutant Emissions Regulated

Emission Standards applicable to Category or Subcategory Based On:

Current Regulatory Regime (con't)

"Maximum Achievable Control Technology"

NOT HUMAN HEALTH

Conclusions and Solutions

Current rules are not suffient to protect human health.

The Environmental Management Commission should adopt new rules limiting individual toxic air pollutants from individual facilities to protect human health.

The Environmental Management Commission should adopt new rules limiting multiple toxic air pollutants from multiple facilities to protect human health.

Conclusions and Solutions (con't)

Air pollution disproportionately impacts minority and poor communities.

The Alabama Department of Environmental Management should prepare disparate impact assessments for permitted activities to demonstrate compliance with Title VI of the Civil Rights Act and EPA regulations.

The Alabama Department of Environmental Management should support state legislation prohibiting disparate pollution impacts on communities of any particular race, color, national origin, or income.

Who To Contact

Environmental Management Commission

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Fax: (205) 930-5707
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Who To Contact (con’t)

Jefferson County Legislative Delegation