

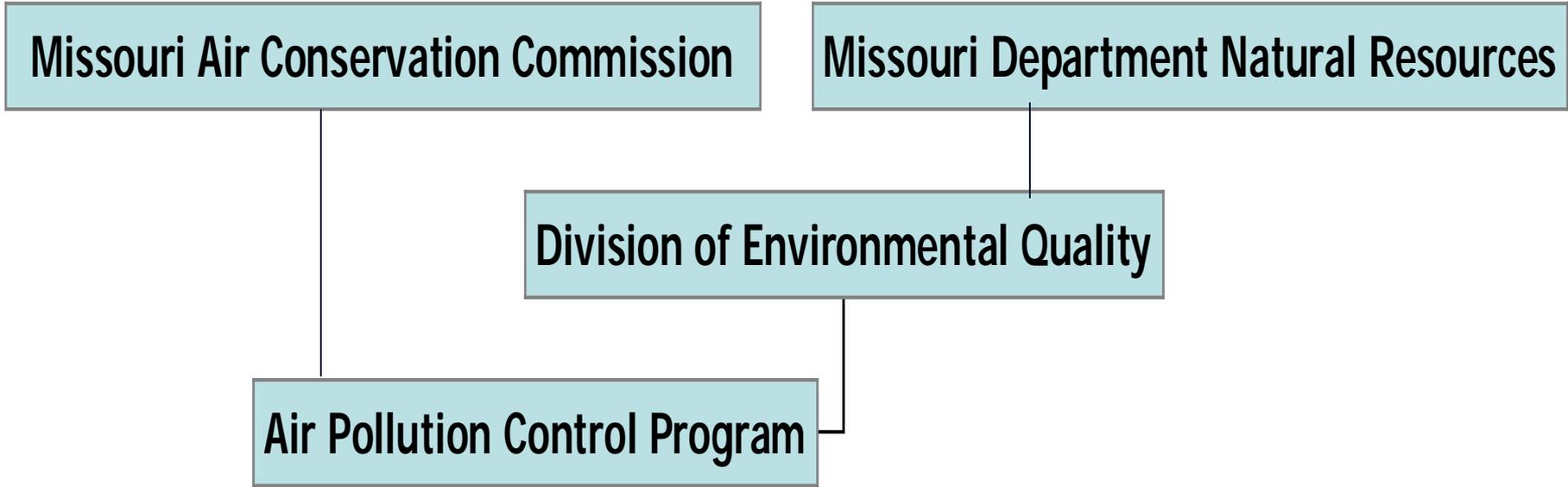
# **Air Pollution Control Program REGFORM Air Seminar**

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March 2016



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES



# Missouri Air Conservation Commission

- Gary Pendergrass, Chair
- David Zimmermann, Vice Chair
- Mark Garnett
- Jack Baker
- Jack Jones
- Two vacant positions



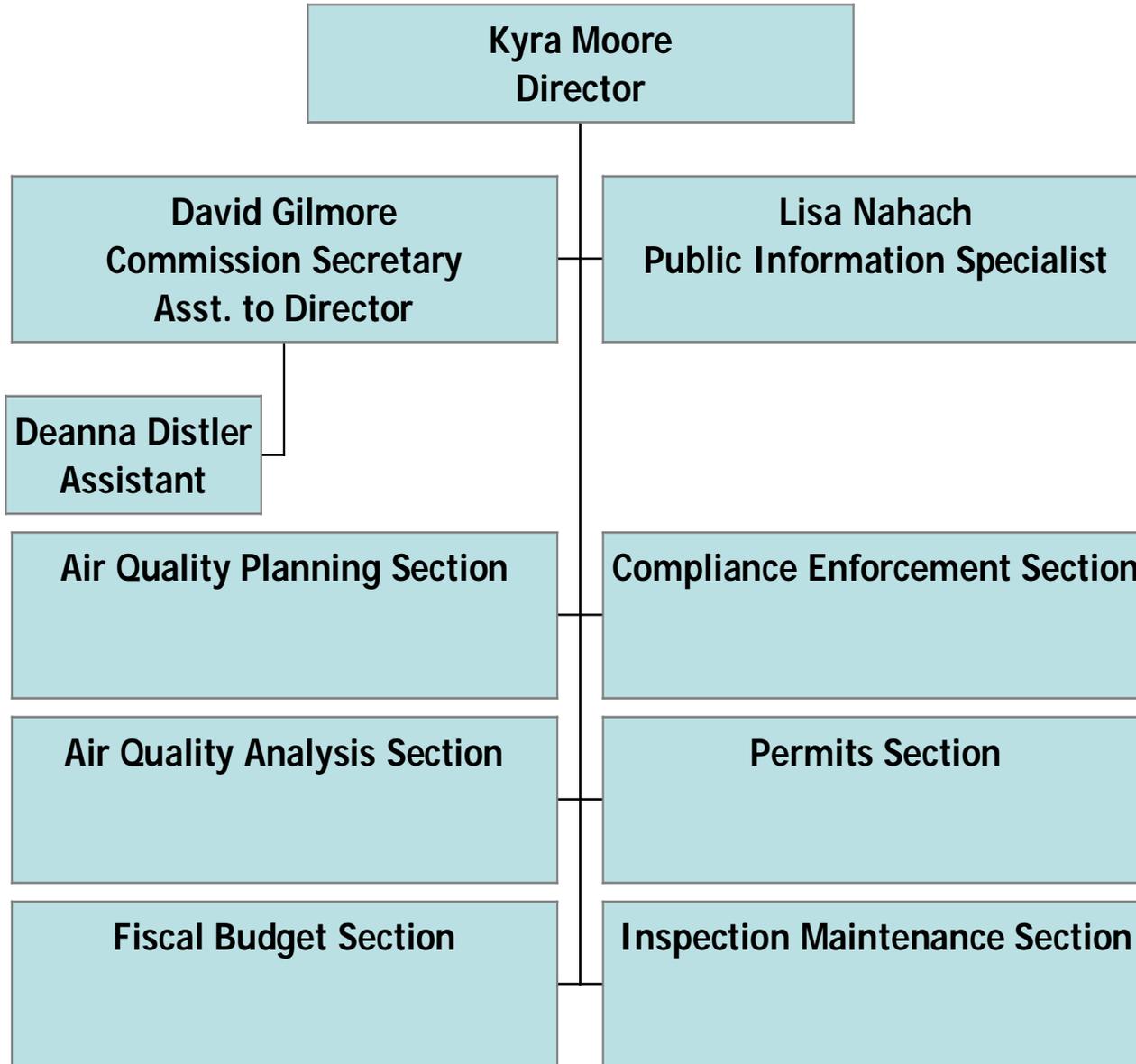
# Air Pollution Work – Team Effort

- Air Pollution Control Program
- 5 Department Regional Offices: St. Louis, Kansas City, Northeast (Macon), Southeast (Poplar Bluff), Southwest (Springfield)
  - Steve Boone, Northeast Regional Office
- Environmental Services Program
  - Will Wetherell, Chris Wood
- Local Air Agencies: St. Louis County, St. Louis City, Kansas City, Springfield
- Other Department Staff



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# AIR POLLUTION CONTROL PROGRAM



# Air Quality Planning Section

- Rulemakings
- State Implementation Plan (SIP) development
- National Ambient Air Quality Standard (NAAQS) boundary recommendations
- Computer modeling to support SIPs and for attainment demonstrations

# Air Quality Planning Section

## Darcy Bybee, Section Chief

Cheri Bechtel

### Rules Unit

*Wayne Graf*

Aaron Basham

Paul Myers

Shelly Reimer

Seanmichael Stanley

### SIP Unit

*Emily Wilbur*

Assem Abdul

Stacy Allen

Adel Alsharafi

Ashley Keas

Mark Leath

Cliff Li

Bob Randolph

March 2016

# Permit Section

- Issues permits for all applicable sources of air pollution
  - Construction and Operating Permits
- Processes permit applicability requests
- Performs air quality analysis for proposed sources
- Oversees permitting for local air agencies

# Permits Section

## Kendall Hale, Section Chief

### Operating Permits

*Michael Stansfield*

Kristin Bailey

David Buttig

Jason Dickneite

Bern Johnson

Jacob Robinett

Jill Wade

Nicole Weidenbenner

Berhanu Getahun –  
StL

### Construction Permits

*Susan Heckenkamp*

Alana Hess

Kathy Kolb

David Little

J Luebbert

Ryan Schott

Chad Stephenson

Daronn Williams

Chia-Wei Young

### Permit Modeling

Dawn Froning

Kelly Robson

March 2016

# Air Quality Analysis Section

- Obtains, tracks and analyzes air emission inventory questionnaire (EIQ) data
- Develops point emission inventory
- Coordinates statewide air monitoring network
- Develop Maximum Achievable Control Technology (MACT) databases
- Small business compliance assistance



# Air Quality Analysis Section

## Steve Hall, Section Chief

### Data Management Unit

*Nathan O'Neil*

Jeanette Barnett

Kent Branson

Jeanne Brown

*Erin Henry*

*Jeff Moore*

Jeffrey Stevens

Terry Stock

*Brenda Wansing*

### Monitoring Unit

*Patricia Maliro*

Jerry Downs

*Brandye*

*Freeland-Riggert*

Eric Giroir

Michael Maddux

Carlton Flowers

# Compliance/Enforcement Section

- Resolves enforcement actions from Regional Offices/Local Agencies; Refers cases to Attorney General, if necessary
- Conducts oversight of Vapor Recovery/IM, and stack tests
- Issues Asbestos Certifications, Contractor Registrations and Training Provider Accreditations, and tracks notifications
- Provides General Compliance Assistance
- Works with Regional Offices/Local Agencies to investigate citizen concerns and conduct routine inspections
  - asbestos, vapor recovery, open burning, dust, odors and general compliance

# Compliance/Enforcement Section Vacant, Section Chief

## Asbestos Unit

*Stan Payne*

Cari Gerlt

Sara Hoover

Debbie Meyers

Ethan Smith

## Compliance Unit

*Russell Sullivan*

Derek Apel

Cliff Johnson

Heather Lucas

Jaime Rizo

Ernest Wilson

## Testing &

## Emissions Unit

*Richard Swartz*

John Bullard

Stephanie Durbin

Steve Sidebottom

Josh Vander Veen

# Fiscal and Budget Section

- Prepares budget, manages cash flow and time accounting, accounts payable & receivables
- Administers federal grant projects
- Coordinates state and federal workplans and local memorandum of agreements
- Maintains record retention and responds to Sunshine Requests
- Reviews legislation and fiscal note requests

# Fiscal and Budget

## Carolyn Kliethermes, Section Chief

### Grant Management

Deedra Beye

### Fileroom Management

Amber Evans

### Financial Operations Unit

*Sara Pringer*

Tim Largent

Sharon Thompson

### Receptionist

Debbie Heinrich

March 2016

# St. Louis Inspection and Maintenance

- Oversees vehicle inspection and maintenance program
- Performs covert and overt audits of emissions testing facilities
- Provides technical assistance and customer education

# St. Louis Inspection and Maintenance

## Chuck Dachroeden, Section Chief

### Technical Services Unit

*Joe Winkelmann*

Mark Molyneaux

Angelo Vitullo

Jackie Heisler

### Inspection Services Unit

*David Offu*

Lori Gale

Travis Glueck

Caroline Kargas

Allen Logan

Antwane President

# Air Quality Planning Updates

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Darcy Bybee

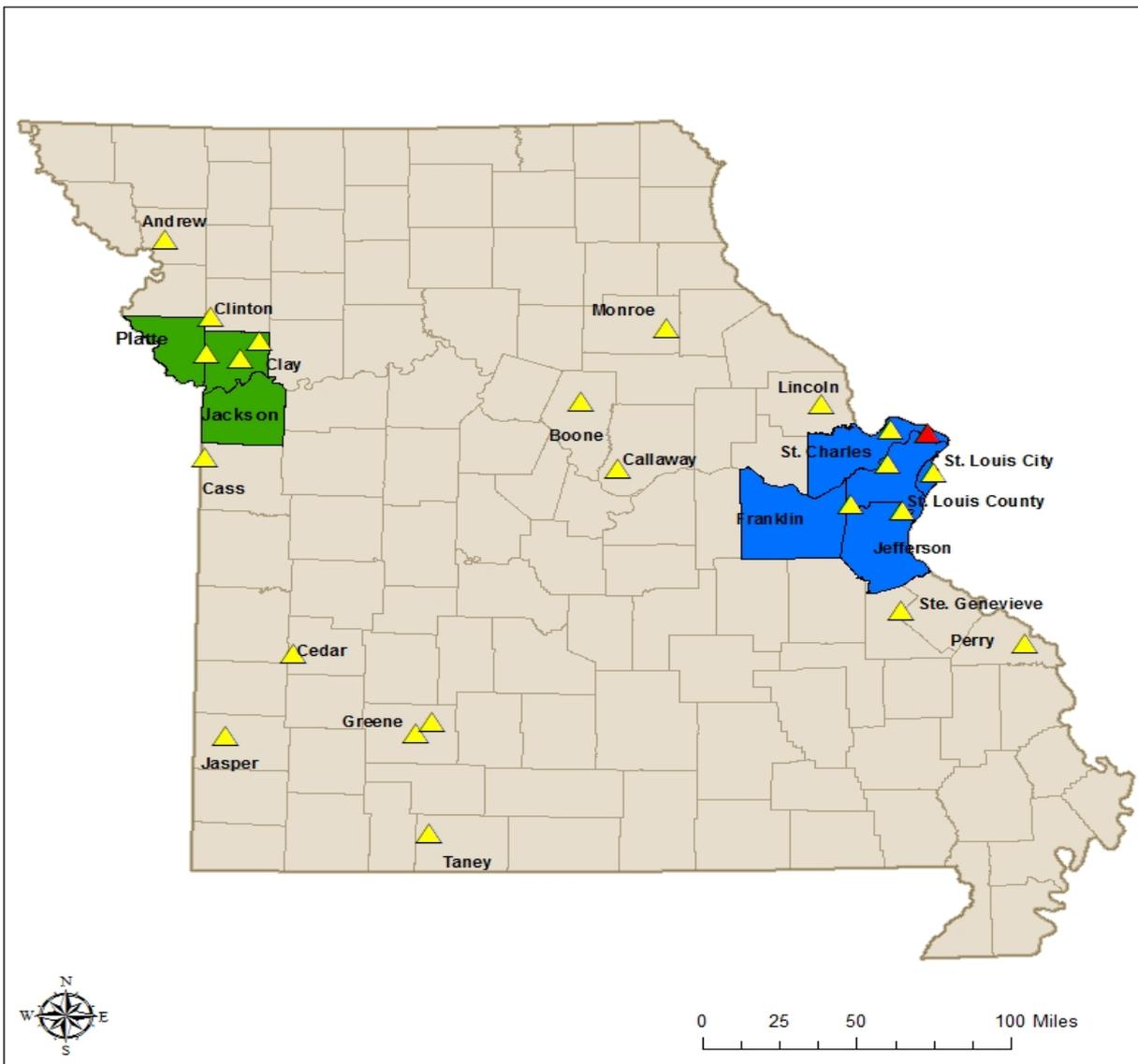
Air Pollution Control Program

# Air Quality Planning Updates

- Ozone National Ambient Air Quality Standard (NAAQS)
  - 2008 Standard
  - 2015 Standard
- 2010 Sulfur Dioxide (SO<sub>2</sub>) NAAQS
- Cross State Air Pollution Rule (CSAPR)
- Rule/SIP
  - Periodic Rule Review
  - Webpage Update

# Ozone Update

- 2008: 75 ppb
- 2015: 70 ppb



**Ozone Monitors with  
2013-2015 Ozone Design  
Values (DV)**

## Legend

-  Monitor with Predicted 13-15 DV > 70 ppb
-  Monitors with Predicted 13-15 DV ≤ 70 ppb
-  St. Louis Ozone Nonattainment Area (2008)
-  Kansas City Ozone Maintenance Area

## 2008 Ozone Standard (75 ppb)

- Based on 2013-2015 monitoring data, St. Louis has met the 2008 ozone standard.
  - Submitted Clean Data Determination Request to EPA
  - Working on Re-designation and Maintenance Plan



## 2015 Ozone Standard (70 ppb)

- Based on 2013-2015 monitoring data—  
only one monitor violating 2015 standard
  - *We will base our recommendation on this data, however, EPA will base their recommendation on 2014-2016 data*

## 2015 Ozone Standard Tentative Timeline for Designation Process

- |                |  |
|----------------|--|
| Jul-Sept 2016: | Public review and comment on Missouri's boundary recommendation                                  |
| Oct 1, 2016:   | Missouri submits recommendation to EPA   |
| June 2017:     | Missouri receives EPA 120-day letter with proposed changes to recommendation (time for feedback) |
| Oct 1, 2017:   | EPA finalizes designation  |

# 2010 Sulfur Dioxide Standard (75 ppb)

Initial Round: Nonattainment Areas based on monitoring data

Two areas in Missouri designated as nonattainment

- » Portion of Jackson County (KC Area)
- » Portion of Jefferson County\*

*\* We have submitted a Clean Data Determination request to EPA and anticipate submitting a redesignation request.*

# 2010 Sulfur Dioxide Standard

## 2<sup>nd</sup> Round: Federal Consent Decree Round

Missouri submitted recommendations:

- Sikeston, Sibley and Labadie
- States received '120 day letters' February 17. We are continuing to review the letter and associated documentation.
- EPA will finalize designations by July 2, 2016



# 2010 Sulfur Dioxide Standard

## 2<sup>nd</sup> Round: Federal Consent Decree Round Summary of EPA's Intended Designations

- Ameren Labadie – Nonattainment  
*(Recommendation was Unclassifiable)*
- KCPL Sibley – Unclassifiable  
*(Recommendation was Attainment)*
- Sikeston – Unclassifiable/Attainment  
*(Recommendation was Attainment)*

# 2010 Sulfur Dioxide Standard

## 3<sup>rd</sup> & 4<sup>th</sup> Rounds: SO<sub>2</sub> Data Requirements Rule

- January 15, 2016: 16 sources submitted for evaluation under the DRR
- Three compliance options available:
  1. Limit emissions to less than 2,000 tons per year
  2. Model compliance using actual emissions
  3. Install air monitors (Operational by 2017. Use 2017-2019 data for 2020 designations)

# 2010 Sulfur Dioxide Standard

## Tentative Timeline for Designation Processes

- July 1, 2016: Submit each source's compliance option
- Jan 1, 2017: New monitors operational, if applicable
- Jan 13, 2017: Submit modeled boundary recommendations
- Dec 2017: EPA designates areas based on modeling
- May 2020: Submit boundary recommendations based on monitoring
- Dec 2020: EPA designates areas based on 2017-19 monitoring data

# Cross State Air Pollution Rule (CSAPR)

- CSAPR addresses transport of pollution across state lines.
- EPA proposed an update to CSAPR in 2015
  - Comment Period closed February 1, 2016.
  - Air Program submitted comments
  - Proposal is expected to be final in early October 2016, and take effect with the 2017 ozone season

# Periodic Rule Review (536.175 RSMo)

- Requires the periodic review of all agency rules
- Review process begins no later than July 1, 2016
  - JCAR publishes notification in the Missouri Register
  - Comments accepted for 60 days
  - Agency provides report

# Rule Review Update

- Reviewed ~99 rules
  - 3 have been rescinded
  - 3 are in the process of being rescinded
  - Numerous have been identified for amendments
  - ~5-8 rules require additional or ongoing research

**T**his section may contain notice of hearings, correction notices, public information notices, rule action notices, statements of actual costs, and other items required to be published in the *Missouri Register* by law.

## Notice of Periodic Rule Review

The General Assembly has instituted a five- (5-) year rolling review of existing rules that will begin July 1, 2015, as set forth in section 536.175, RSMo. The following agencies will begin this process for rules promulgated within their designated Title of the *Code of State Regulations* with a sixty- (60-) day public comment period. The *Code of State Regulations* may be viewed at <http://www.sos.mo.gov/adrules/csr/csr.asp>.

### Titles Reviewed Beginning July 1, 2015:

- Title 1 - Office of Administration
- Title 2 - Department of Agriculture
- Title 3 - Department of Conservation
- Title 4 - Department of Economic Development
- Title 5 - Department of Elementary and Secondary Education
- Title 6 - Department of Higher Education

**The Public Comment Process:** Agencies with rules in Titles 1-6 of the *Code of State Regulations* may receive comments from the public for any rule within these titles.

- Comments must be received within sixty (60) days of July 1, 2015. (August 31, 2015)
- Comments must identify the commenter.
- Comments must identify the specific rule commented upon.
- Comments must be directly associated with a specified rule.
- Comments must be submitted to the following agency designee:

# SIP Webpage Updates...coming soon!



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## State Implementation Plan

### » Department of Environmental Quality » Air Pollution Control Program

There are **six different criteria pollutants** for which the U.S. Environmental Protection Agency (EPA) is required to set National Ambient Air Quality Standards (NAAQS). EPA is also required to review each national air standard every five years to determine if the current standard is still adequate to protect public health, or if it should be revised.

After EPA revises or sets a new standard for a criteria pollutant, the boundary designation process begins.

1. States submit boundary recommendations to EPA. The **boundary designation submittals for all criteria pollutants** are available online.
2. EPA reviews the recommendations and designates areas across the country as either nonattainment or attainment/unclassifiable based on air quality monitoring or modeling data.
3. If an area is designated as nonattainment for a certain NAAQS it means the area either is not meeting the standard or is significantly contributing to an area not meeting the standard.

After the boundary designations are complete the State Implementation Plan (SIP) begins.

1. Missouri's SIP is a compilation of all rules, regulations and documents giving the state authority to implement, enforce, attain, maintain and demonstrate compliance for each standard as required under the Clean Air Act.
2. All SIPs are required to go through public comment periods and if adopted by the Missouri Air Conservation Commission, they are submitted to EPA for adoption in the federally approved SIP.

If EPA adopts the plan submission, the SIP becomes federally enforceable. A **summary of Missouri's federally approved SIP** is available on EPA's website and Missouri's approved SIP is also codified at 40 CFR 52 Subpart AA.

#### Types of SIPs

Every time a NAAQS is revised, the state is required to submit a SIP.

- **Attainment/unclassifiable areas:** The state is required to submit an infrastructure SIP that demonstrates the state's authority to implement and enforce the standard and demonstrate that compliance with the standard will continue to be maintained.

- Program Home Page
- Air Conservation Commission
- Air Pollutants
- Air Program Advisory Forum
- Air Quality
- Asbestos
- Clean Power Plan
- Forms and Applications
- Gateway Vehicle Inspection Program
- Laws and Regulations
- NAAQS Boundary Designations
- Ozone
- Permits
- Publications and Reports
- Public Notices-Comment Periods
- QAPP Template
- Air Pollution Compliance/Regulatory Assistance
- State Plans**
- Vapor Recovery Information and Compliance Requirements

# Air Quality Analysis Updates

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Steve Hall

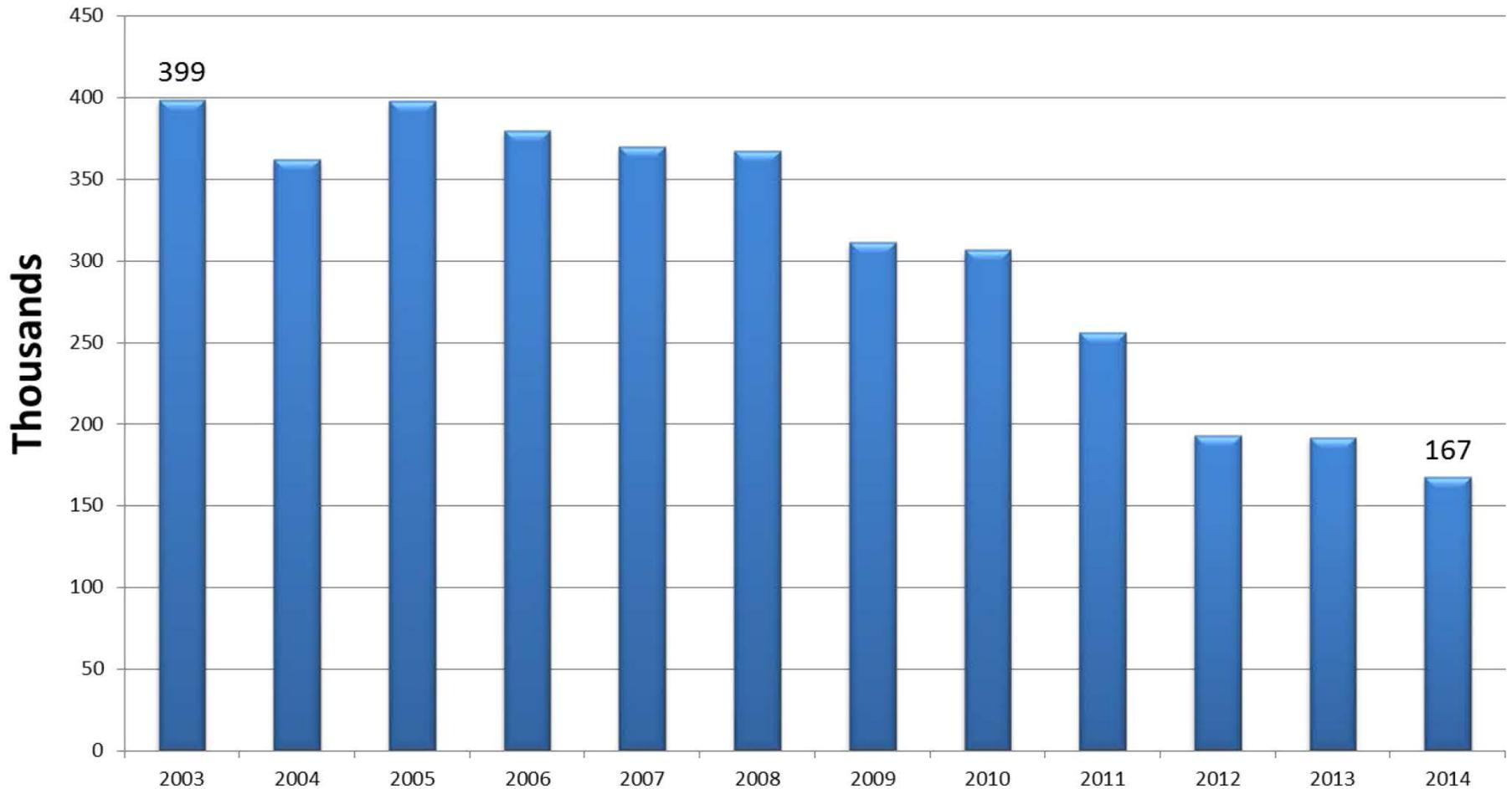
Air Pollution Control Program

# Air Quality Presentation Overview

- SO<sub>2</sub> and Particulate Matter Emissions Inventory and Trends
- Ozone, PM<sub>2.5</sub>, SO<sub>2</sub> Ambient Air Monitoring and Trends
- Website Resources

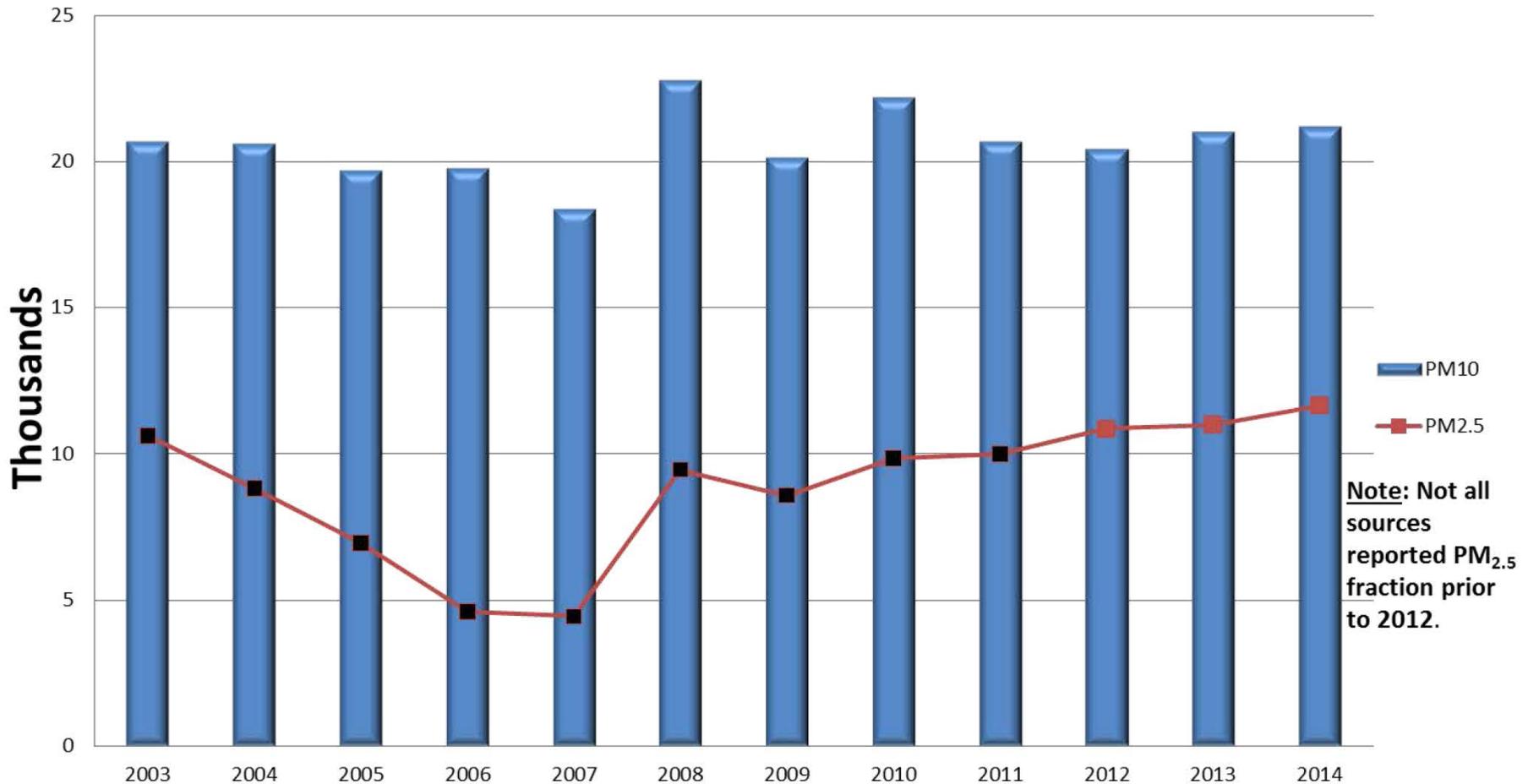


## Sulfur Dioxide (SO<sub>2</sub>) Point Source Emissions Thousand Tons per Year





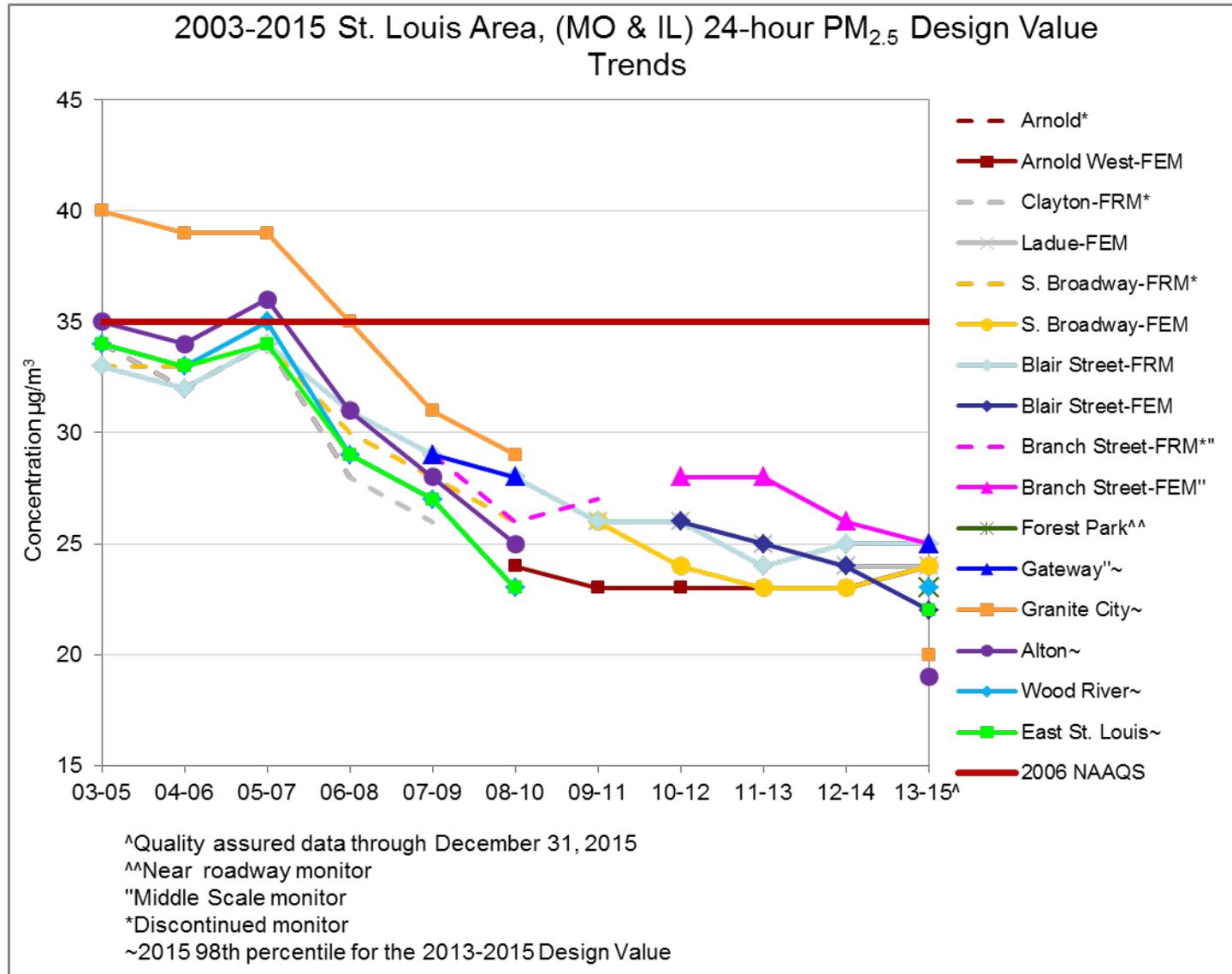
## Particulate Matter (PM<sub>10</sub>) (with PM<sub>2.5</sub> Fraction) Thousand Tons per Year



# PM<sub>2.5</sub> 24-hour Average Ambient Air Monitoring Trends

➤ MO sites in Compliance

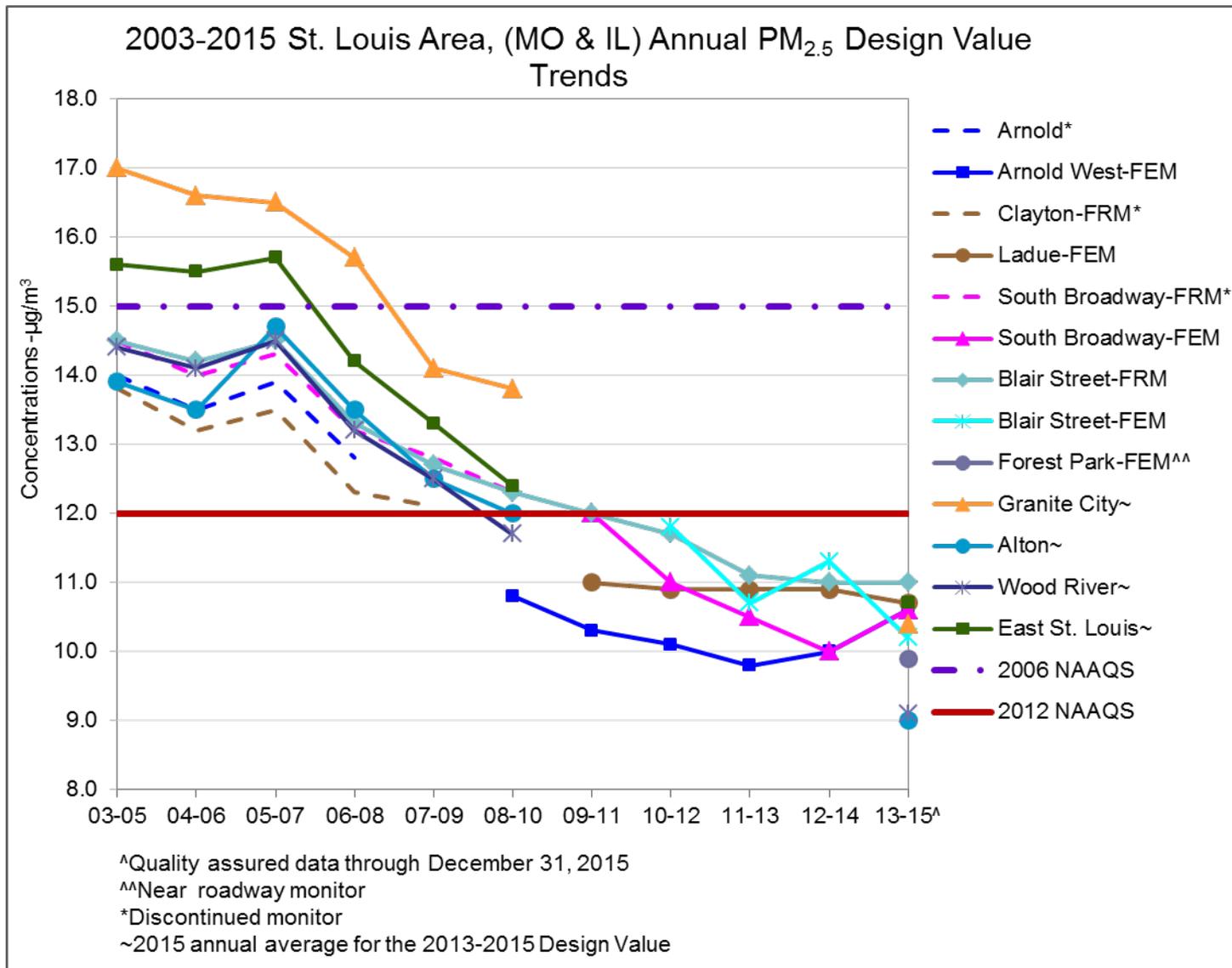
➤ Illinois sites monitoring for compliance (2015-2017)



# PM<sub>2.5</sub> Annual Average Ambient Air Monitoring Trends

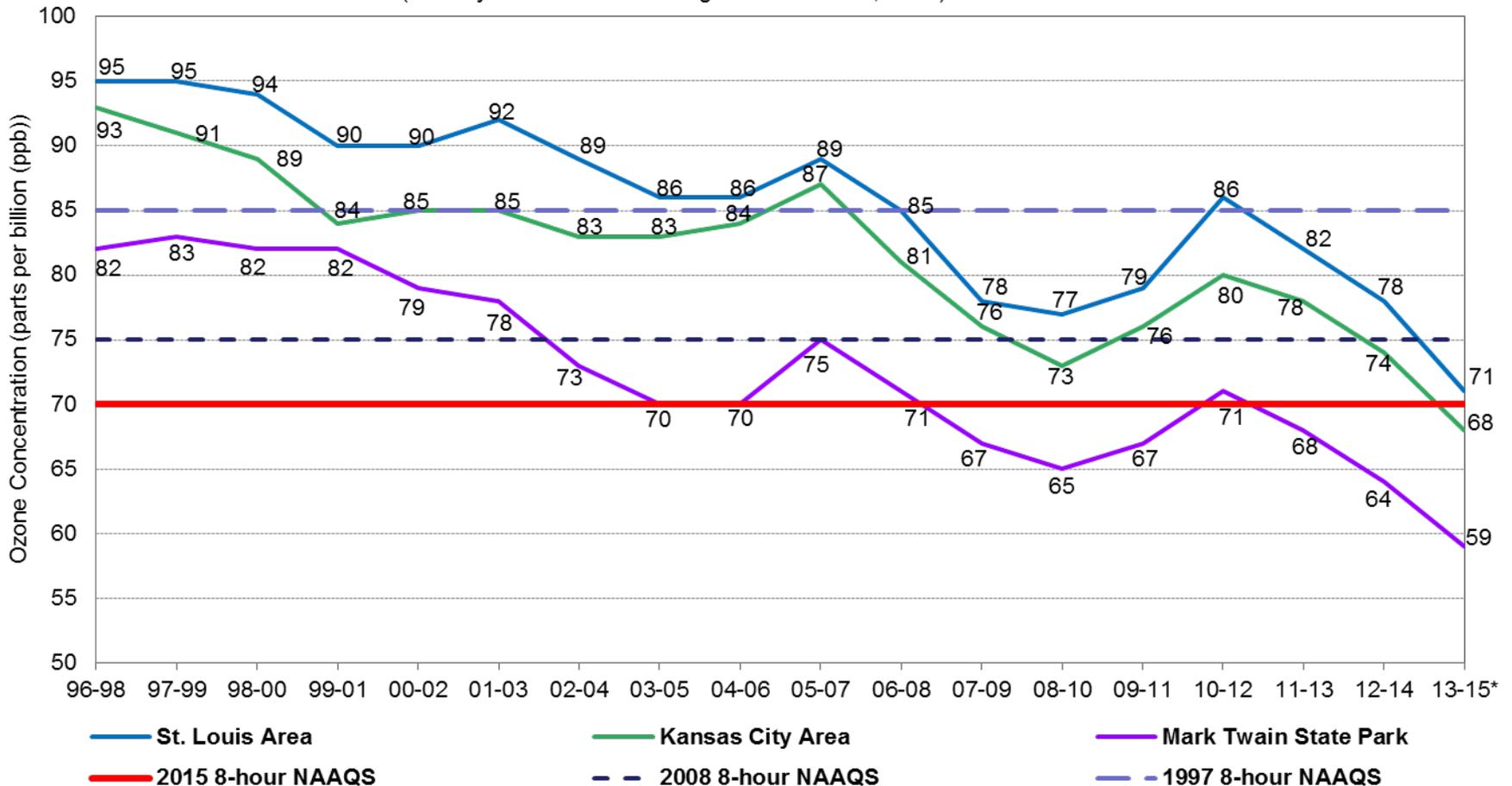
➤ MO Sites in Compliance

➤ Illinois Sites monitoring for compliance (2015-2017)



# Ozone (O<sub>3</sub>) Ambient Air Monitoring

1996-2015 8-hour Ozone Design Value Trends  
St. Louis & Kansas City Areas  
(\*Quality Assured Data Through December 31, 2015)



# SO<sub>2</sub> Design Values

## 1-HOUR Sulfur Dioxide (SO<sub>2</sub>)<sup>a</sup>

Report Date 2/29/2016

Site	County	99th Percentile 1-hour Average (ppb)					CV - 75	# of Exceedances 75 ppb (2010 Std) 2016 <sup>c</sup>	Design Value Year-to-Date		
		2012	2013	2014	2015 <sup>b</sup>	2016 <sup>cd</sup>			12-14	13-15 <sup>b</sup>	14-16 <sup>bc</sup>
<b>St. Louis</b>											
Herc. Mott	Jefferson	268	143	18	38	9	172	0	143	66	22
Blair Steet	St. Louis City	56	42	41	24	5	163	0	46	36	23
Margaretta Valley*	St. Louis City	36	20	22	17	8	189	0	26	20	16
Northwest*	Franklin				30	0	N/A	0	***	***	***
Natchez^	St. Charles				28	5	N/A	0	***	***	***
Weaver^	Jefferson				9	10	N/A	0			***
	Jefferson				3	7	N/A	0			***
<b>Kansas City</b>											
Troost	Jackson	167	156	125	142	7	CV exceeded	0	149	150	91
<b>Springfield</b>											
Wildwood Lane	Greene	52	29	†			N/A	0	***	***	***
James River South	Greene	36	27	34	16	3	178	0	32	26	18
South Charleston	Greene	41	31	33	14	2	181	0	35	26	16
<b>Outstate</b>											
Buick Northeast	Iron	91	85	52	42	36	134	0	76	60	43
Mark Twain S.P.**	Monroe	8	8	9	6	3	213	0	***	8	6
								<b>0</b>			

Not reporting due to flood damage.

# Website Resources



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## Air Pollution Control Program

Home » Department of Environmental Quality

Our mission is to maintain the purity of Missouri's air to protect the health, general welfare and property of the people. The Air Pollution Control Program has more than 6 million customers. Whether an urban citizen or someone far removed from other people, everyone who lives in Missouri needs and deserves clean air. This home page will help you to find out more about the services available to help us protect air quality.



As part of the Division of Environmental Quality, the Air Pollution Control Program works diligently to improve air quality in Missouri. Missouri Skies Now and Then offers a glimpse into some of the progress we have made towards better air in Missouri.

### EPA regulatory actions related to ground-level ozone

#### Credit card con

Effective July 1, 2012, a \$1.00 service charge will be charged to all customer credit cards. Vendor, Collector

#### Transaction

\$0 - 50

\$50.01 - \$75

\$75.01 - \$100

## Monitoring Information- 'Bookmark'

- Design Value Reports
- Preliminary hourly data reports
- Monitoring Network Plans and more
- More improvements coming...

- Program Home Page
- Air Conservation Commission
- Air Pollutants**
- Air Program Advisory Forum
- Air Quality
- Asbestos
- Clean Power Plan
- Forms and Applications
- Gateway Vehicle Inspection Program
- Laws and Regulations
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- State Plans
- Vapor Recovery Information and Compliance Requirements



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# Other Air Issues

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- Missouri Air Conservation Law – Statutes:  
<http://www.moga.mo.gov/mostatutes/ChaptersIndex/chaptIndex643.html>
  - 643.055 – Missouri regulations can be no stricter or sooner than federal regulations.
- Federal Clean Air Act: <http://www.epa.gov/clean-air-act-overview>
- Missouri Code of State Regulations – Air Conservation Commission:  
<http://www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-10>

# Clean Power Plan

- Rule finalized August 3, 2015
- Supreme Court issued stay of rule on February 9, 2016
- 21 affected sources in Missouri



Get Updates  
on this  
Issue

- <http://dnr.mo.gov/env/apcp/cpp/index.html>



# Air Fees

- Emission Fee
  - \$48 per ton - Effective January 1, 2016 (for calendar 2015 emissions)
- 2015 Fee Stakeholder Meetings:
  - Focused on Permit and Asbestos Fees
  - Commission Approved (public hearing/adoption)
  - Proposed fees effective Jan 1, 2017
  - Will send out information on fee changes

# Other

- Department's E3 Initiative
  - E3: Enhancing Effectiveness and Efficiency
- 40 CFR Part 51 - Appendix W
  - Modeling Guidance
  - EPA revising – final this summer?

# How To Stay Informed

Public notices – rules, permits, state plans:

<http://dnr.mo.gov/env/apcp/public-notices.htm>

Air Program Advisory Forum :

<http://dnr.mo.gov/env/apcp/airadvisory/apcpstakeholder.htm>

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**Get Updates  
on this  
Issue**

# Air Program Contact Information

Air Program's web page:

<http://www.dnr.mo.gov/env/apcp/index.html>

- [firstname.lastname@dnr.mo.gov](mailto:firstname.lastname@dnr.mo.gov)
- Front Desk (573) 751-4817

Kyra L. Moore

MDNR Air Pollution Control Program

1659 E. Elm Street

Jefferson City, MO 65102

(573) 751-7840

(573) 751-0303 direct line

[kyra.moore@dnr.mo.gov](mailto:kyra.moore@dnr.mo.gov)

Division of Environmental Quality Director: Leanne Tippett Mosby

Date: March 3, 2016

Nothing in this document may be used to implement any enforcement action or levy any penalty unless promulgated by rule under chapter 536 or authorized by statute.