

State of the Air in Arkansas

2017



ARKANSAS DEPARTMENT OF
ENVIRONMENTAL QUALITY

2017 State of the Air Report

Purpose

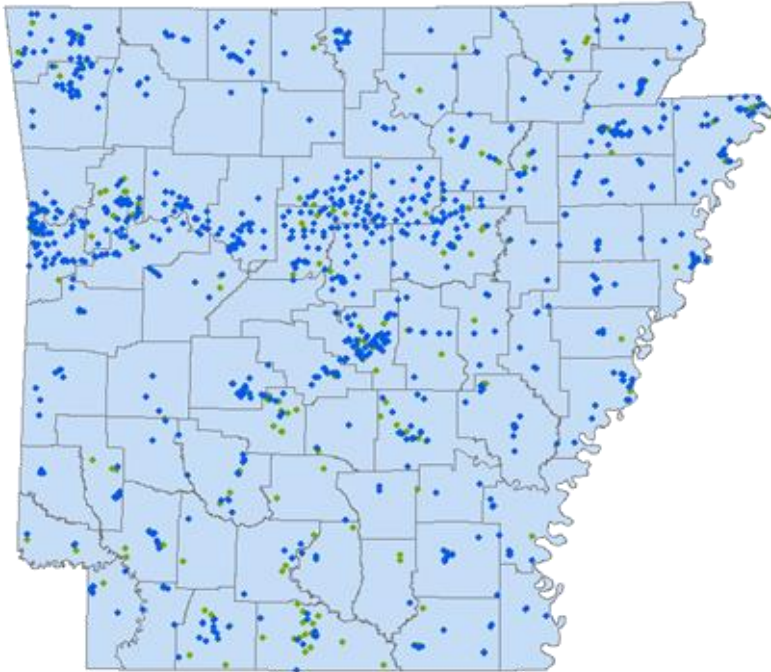
- Present data about the state of air quality in Arkansas
- Provide overview of programs implemented by ADEQ Office of Air Quality
- Highlight key milestones during federal fiscal year 2017
- Document trends in air quality throughout the State

Acknowledgments

- We gratefully acknowledge the contributions of the staff and management of the Office of Air Quality in the production of this report:
 - Iris Pennington, Rhonda Moore, Tricia Treece, Heinz Braun, Thomas Rheume, Demetria Kimbrough, David Clark, Kelly Jobe, and William Montgomery

Permits Branch

~1300 Permitted Facilities

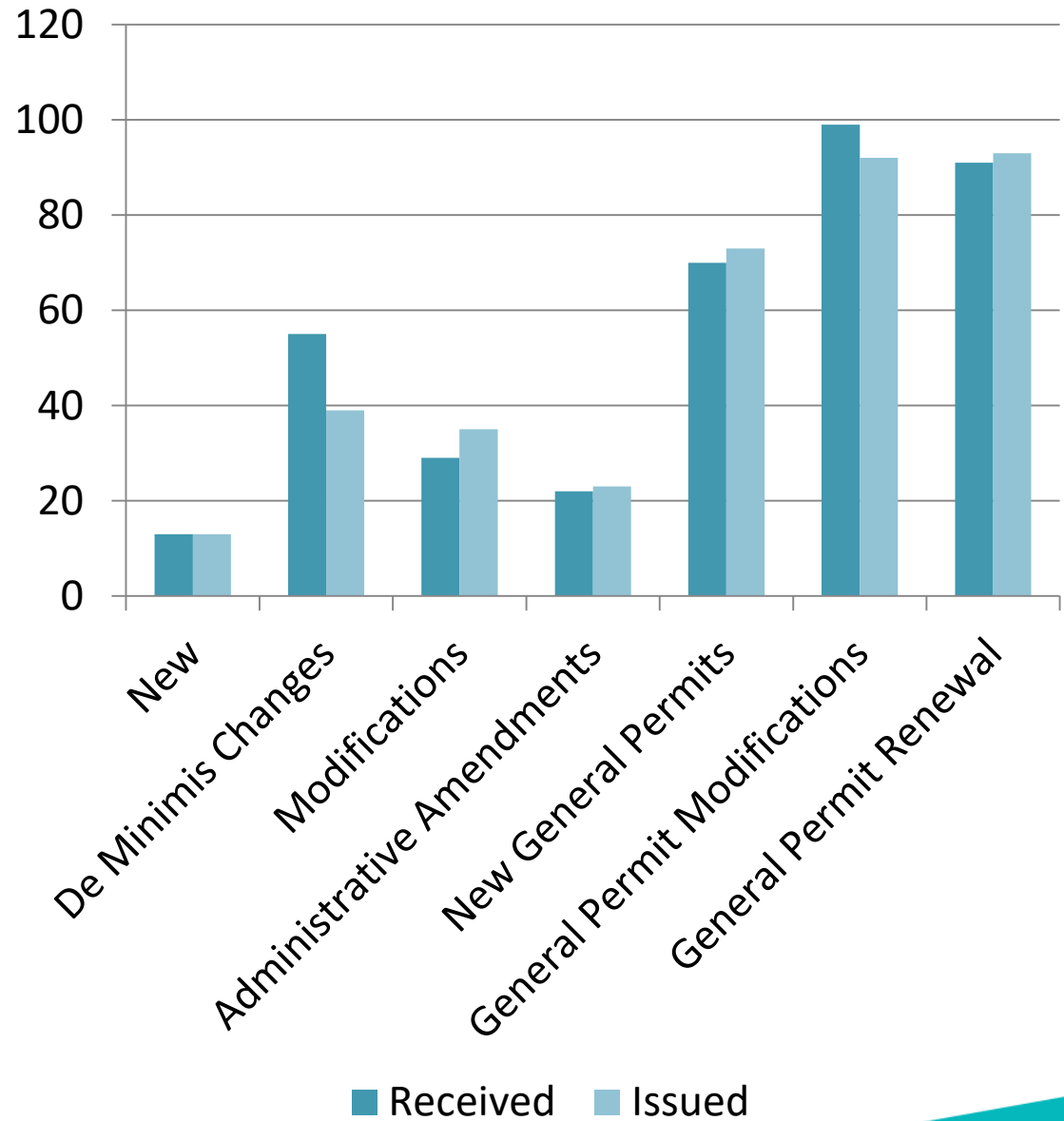


Permits Branch Team

- SENIOR OPERATIONS MANAGER
- ONE SENIOR ASSURANCE ENGINEER
- THREE ENGINEER SUPERVISORS
- FOURTEEN ENGINEERS
- ONE ADMINISTRATIVE ANALYST
- ONE ADMINISTRATIVE SPECIALIST

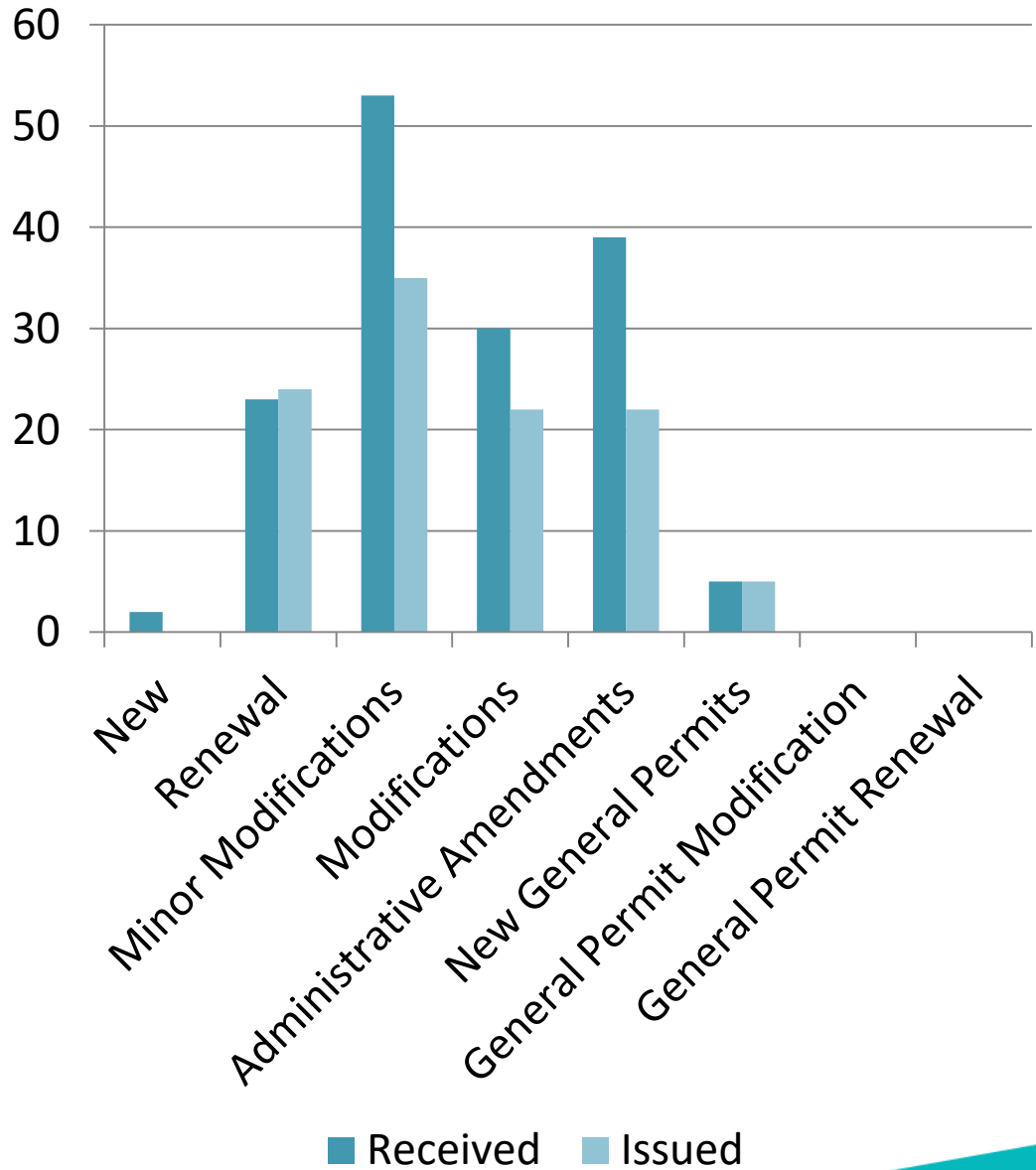
Minor Source Permits

FY 2017
Permitting
Activities

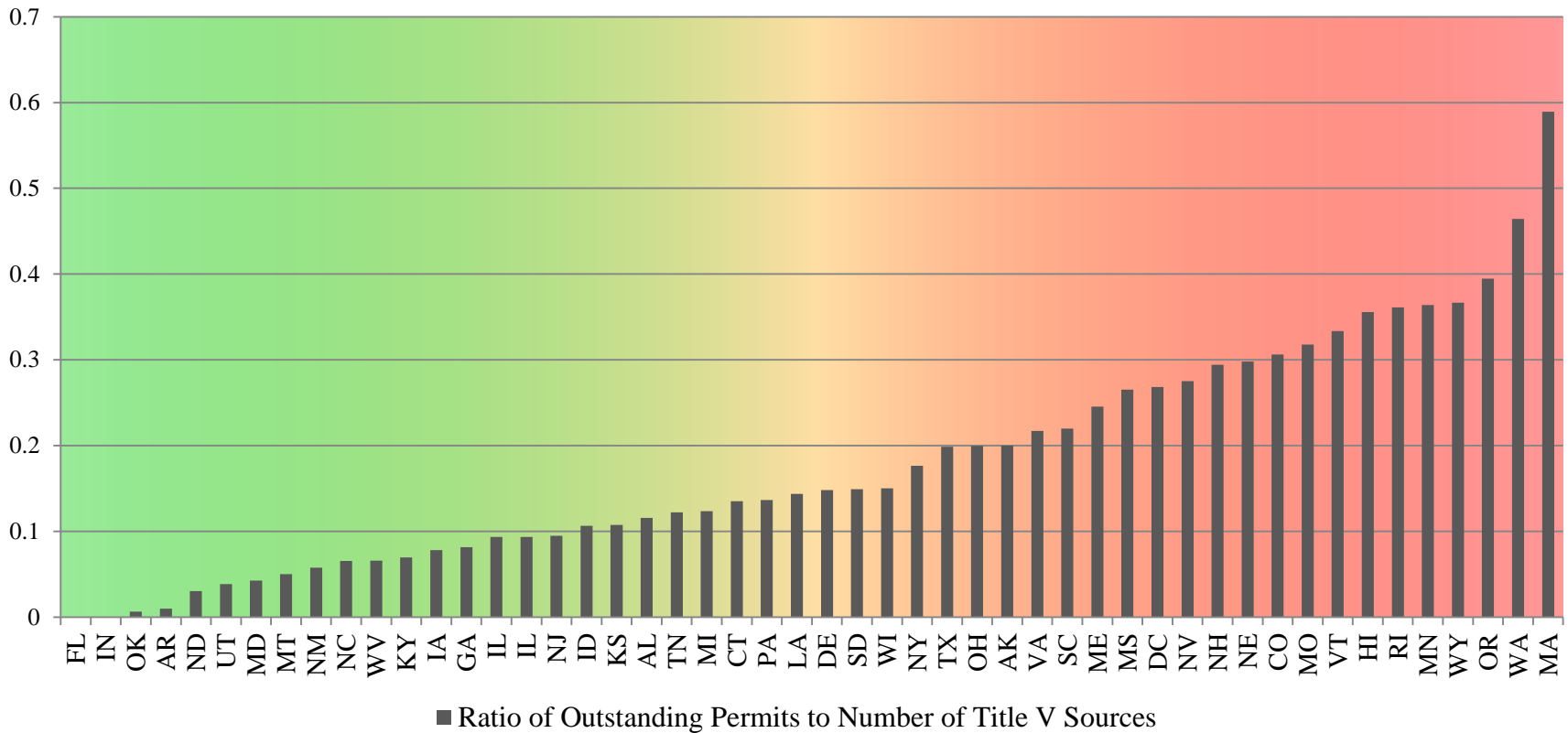


Title V Source Permits

FY 2017
Permitting
Activities

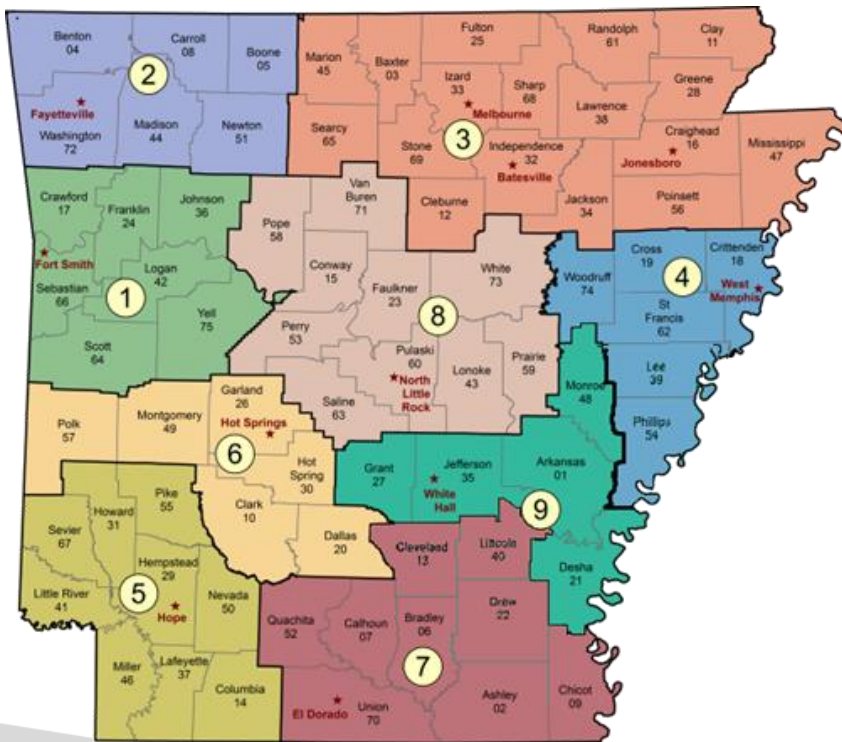


National Title V Permit Renewal Issuance Rankings



Compliance Branch

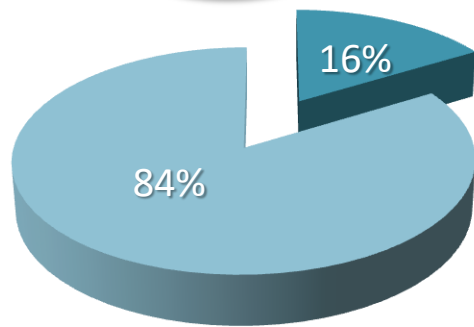
Inspector Districts



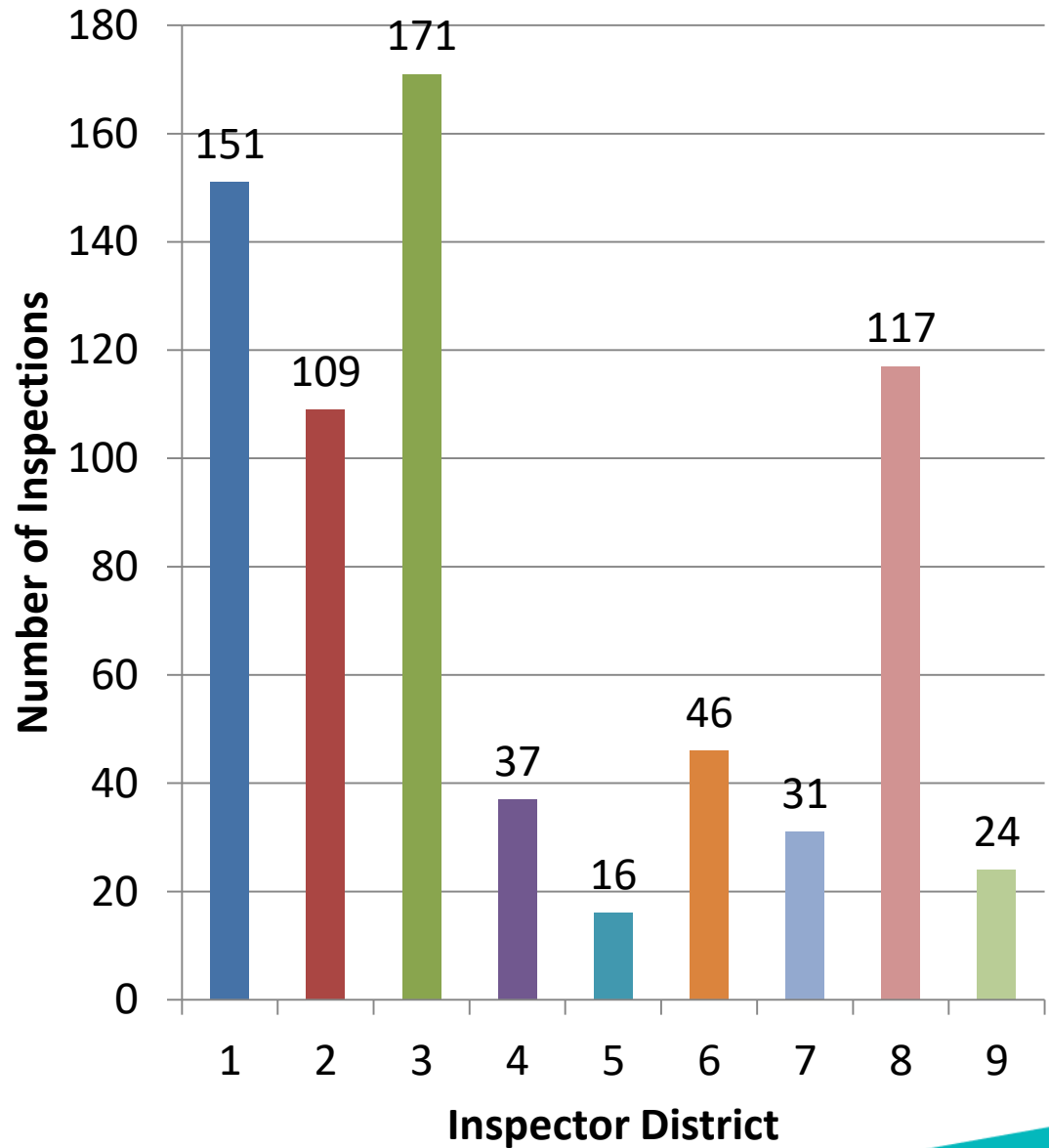
Compliance Branch Team

- ONE BRANCH MANAGER
- FOUR INSPECTOR SUPERVISORS
- NINETEEN INSPECTORS
- TWO ADMINISTRATIVE ANALYSTS

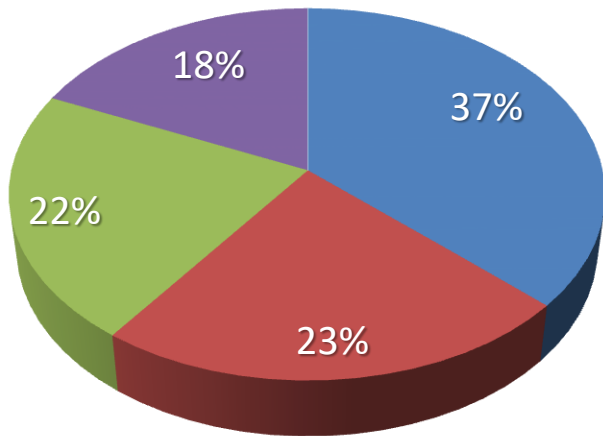
FY 2017 Air Inspections



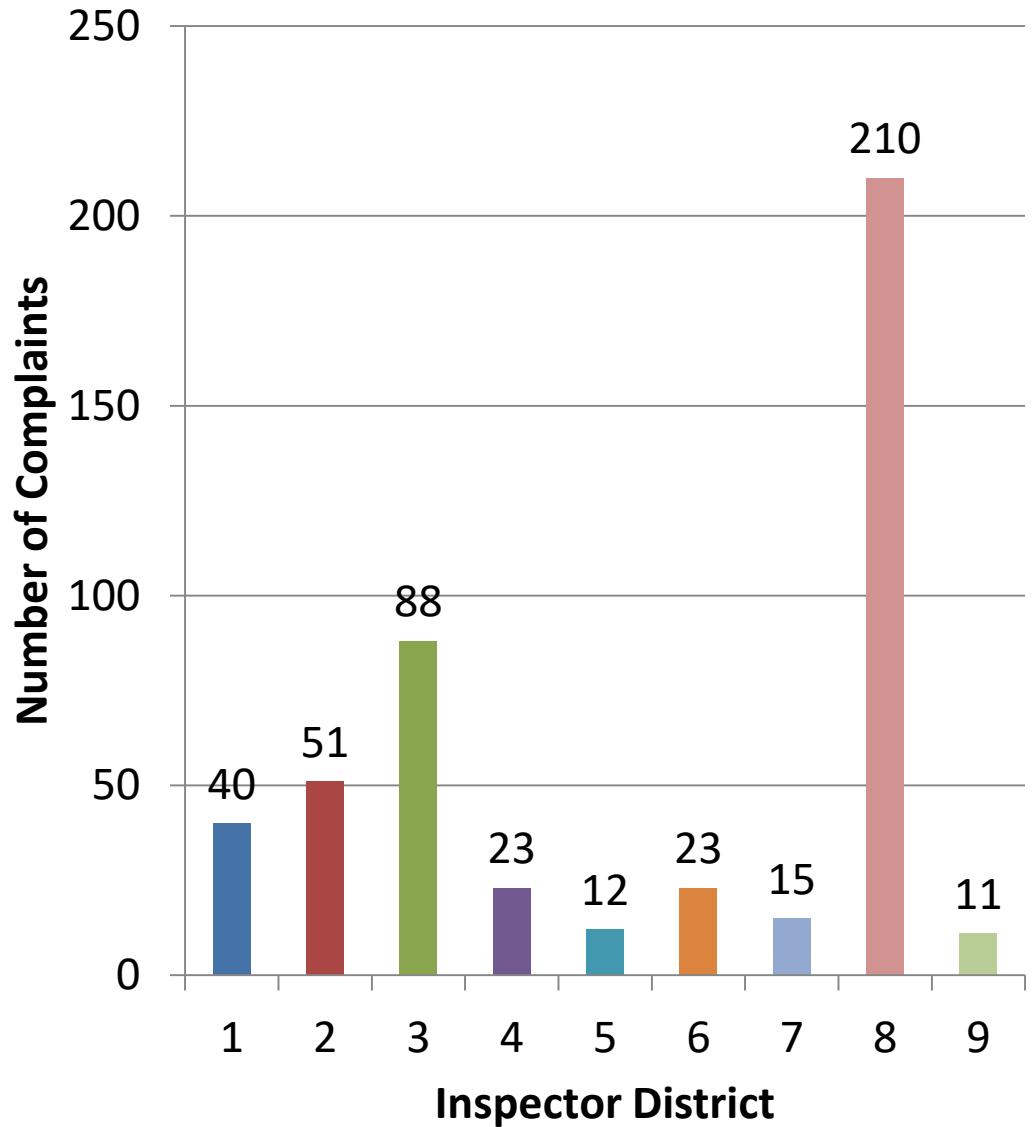
■ Title V ■ Minor Source



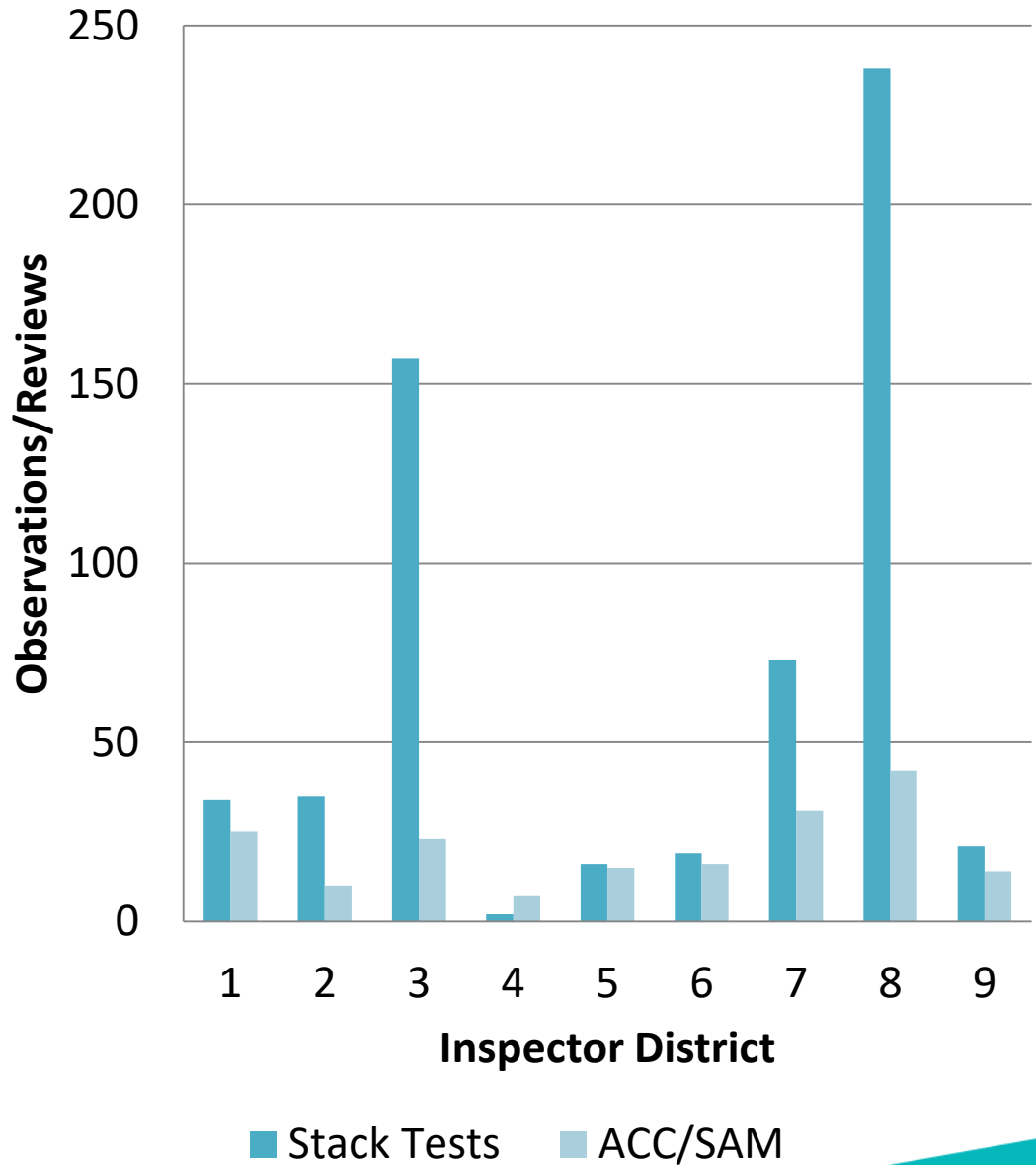
FY 2017 Air Complaints



- Open Burning
- Odor
- Other
- Fugitive Emissions



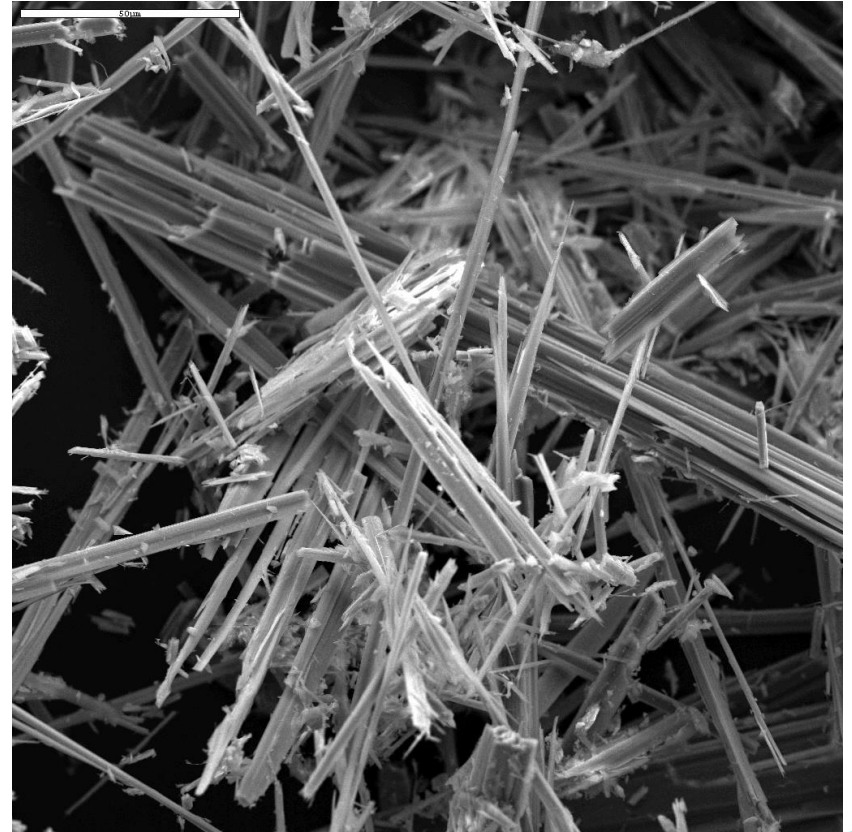
Stack Testing and Reporting



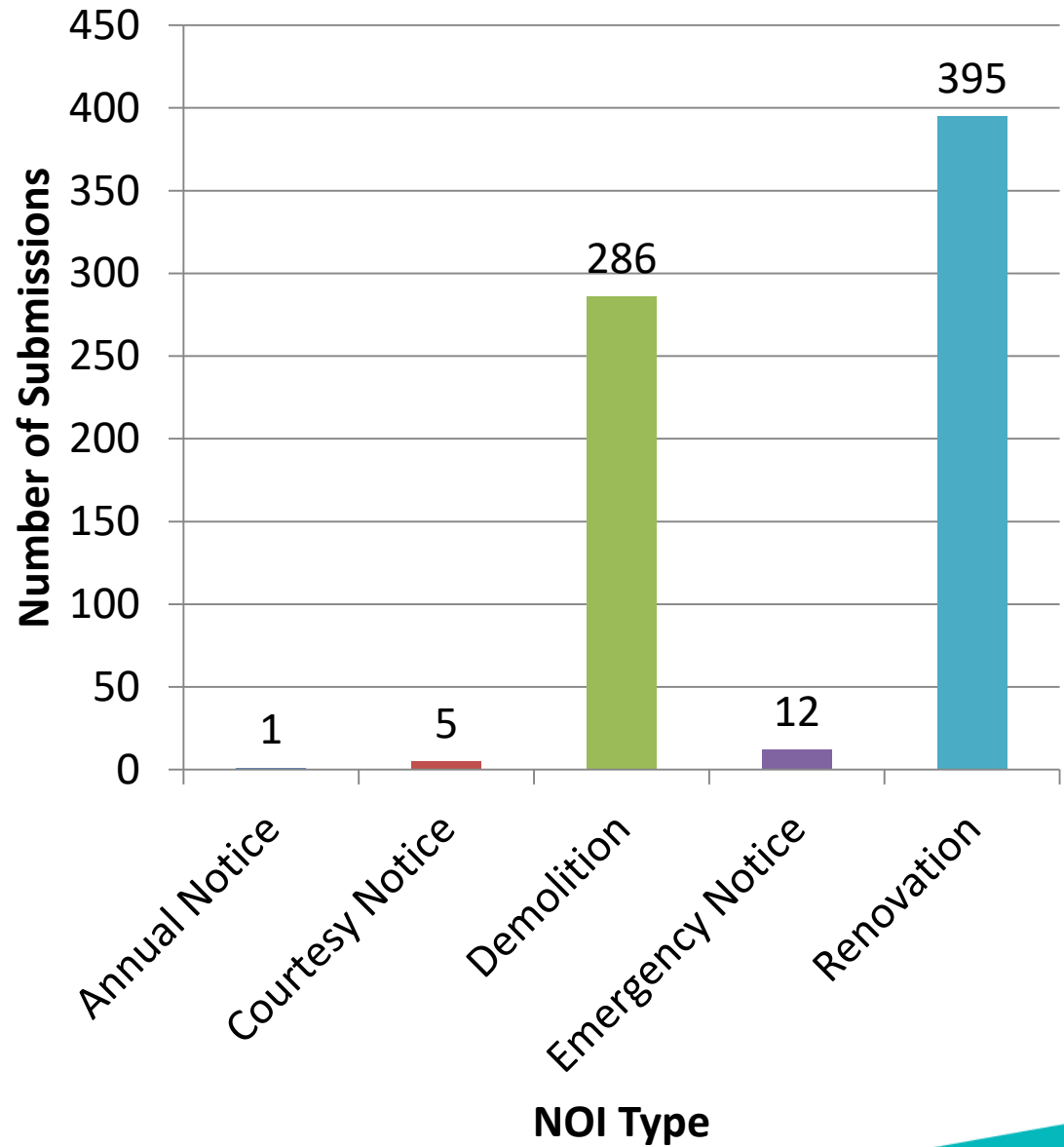
Asbestos Section

Asbestos Team

- ONE BRANCH MANAGER (ALSO MANAGES ENFORCEMENT)
- ONE ENVIRONMENTAL PROGRAM COORDINATOR
- THREE INSPECTORS
- ONE ADMINISTRATIVE ANALYST
- ONE ADMINISTRATIVE SPECIALIST



FY 2017 Asbestos Inspections and Complaints

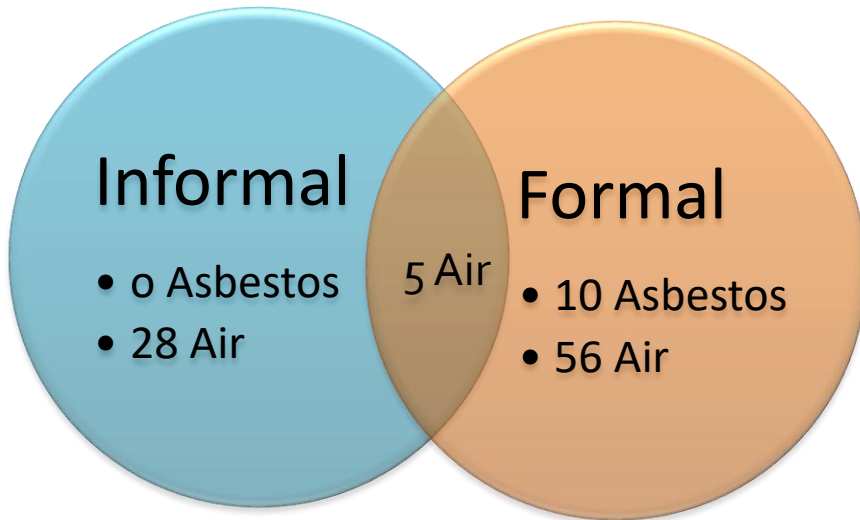


FY 2017 Asbestos Grant

Recipient	Use	Amount
CITY OF ARKADELPHIA	Abatement of asbestos containing material in former Clark County Hospital	\$92,503
CITY OF AUGUSTA	Abatement of asbestos containing material in an elementary school building that closed in 2002 and was later vandalized, with a section of the building set on fire.	\$43,997
HOWARD COUNTY	Removal of asbestos containing material from a former county hospital that had its roof damaged following the hospital's closure in 2009 exposing asbestos containing material	\$13,500
TOTAL		\$150,000

Enforcement Section

FY 2017 Actions



Enforcement Team

- ONE BRANCH MANAGER (ALSO MANAGES ASBESTOS)
- ONE ENFORCEMENT SUPERVISOR
- THREE ENFORCEMENT ANALYSTS
- ONE ADMINISTRATIVE ANALYST
- ONE ADMINISTRATIVE SPECIALIST

Policy and Planning

Policy and Planning Team

- ONE BRANCH MANAGER
- TWO SUPERVISORS
- TWO EPIDEMIOLOGISTS
- TWO AIR COMPLIANCE MONITORS
- TWO ENVIRONMENTAL PROGRAM COORDINATORS
- TWO ADMINISTRATIVE SPECIALISTS



2006–2012
Infrastructure
and Transport;
Revisions to
Definition of
VOC; Title V
and PSD
updates

Proposed SIPs

Regional Haze
Electric
Generating
Unit (EGU)
nitrogen oxides
(NO_x)
requirements

Regional Haze
EGU sulfur
dioxide (SO₂)
requirements

2006–2012
Infrastructure
and Transport;
Revisions to
Definition of
volatile organic
compound
(VOC); Title V
and PSD
Updates

Final SIP Submissions

Regional Haze :
EGU NO_x
Requirements

2017 State Plan Actions

2006–2012
Infrastructure
and Transport
SIPs; Revisions
to the
Definition of
VOC Threshold
Revision SIP

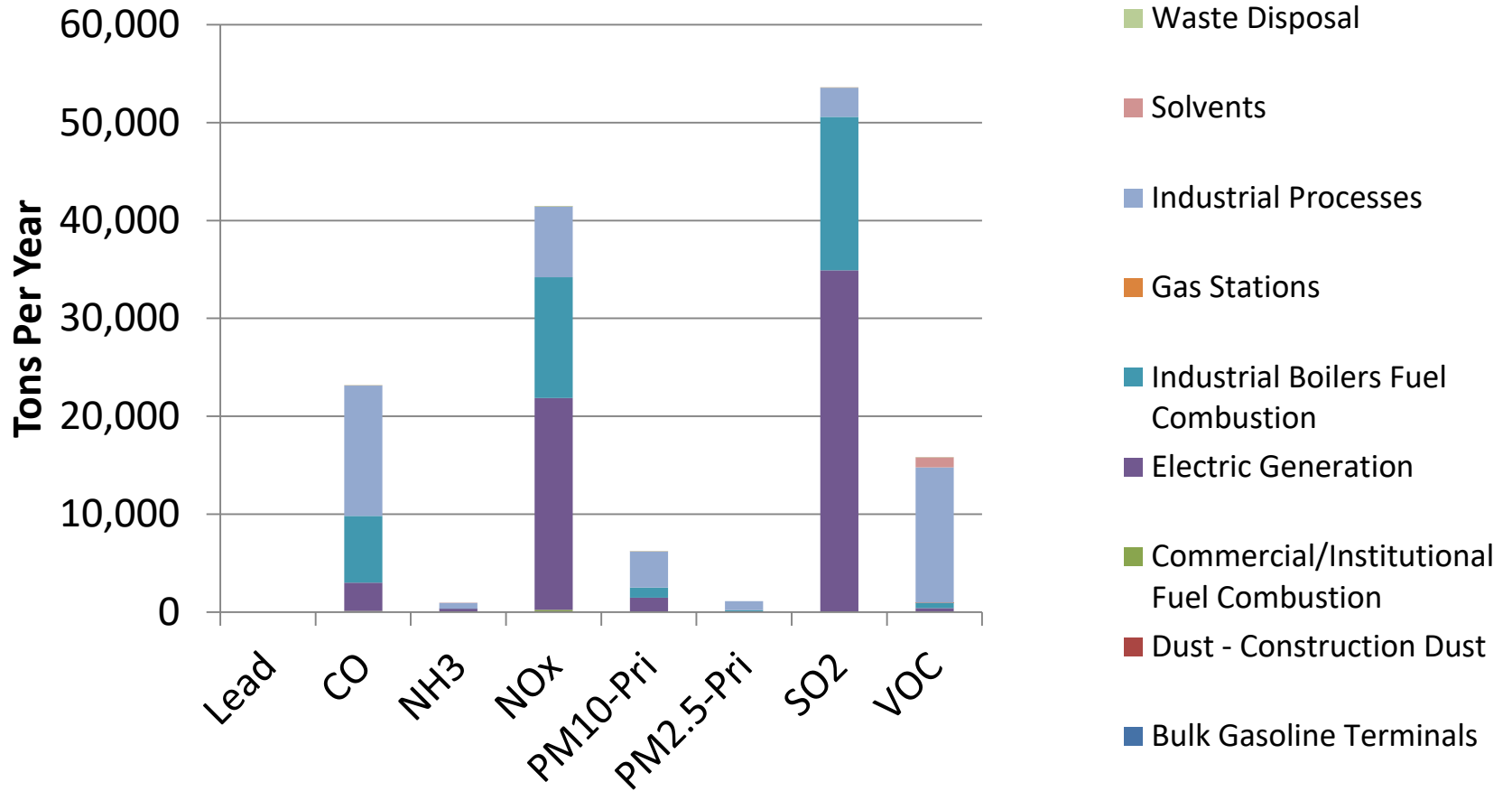
EPA Approvals

Regional Haze
SIP: EGU NO_x
Requirements

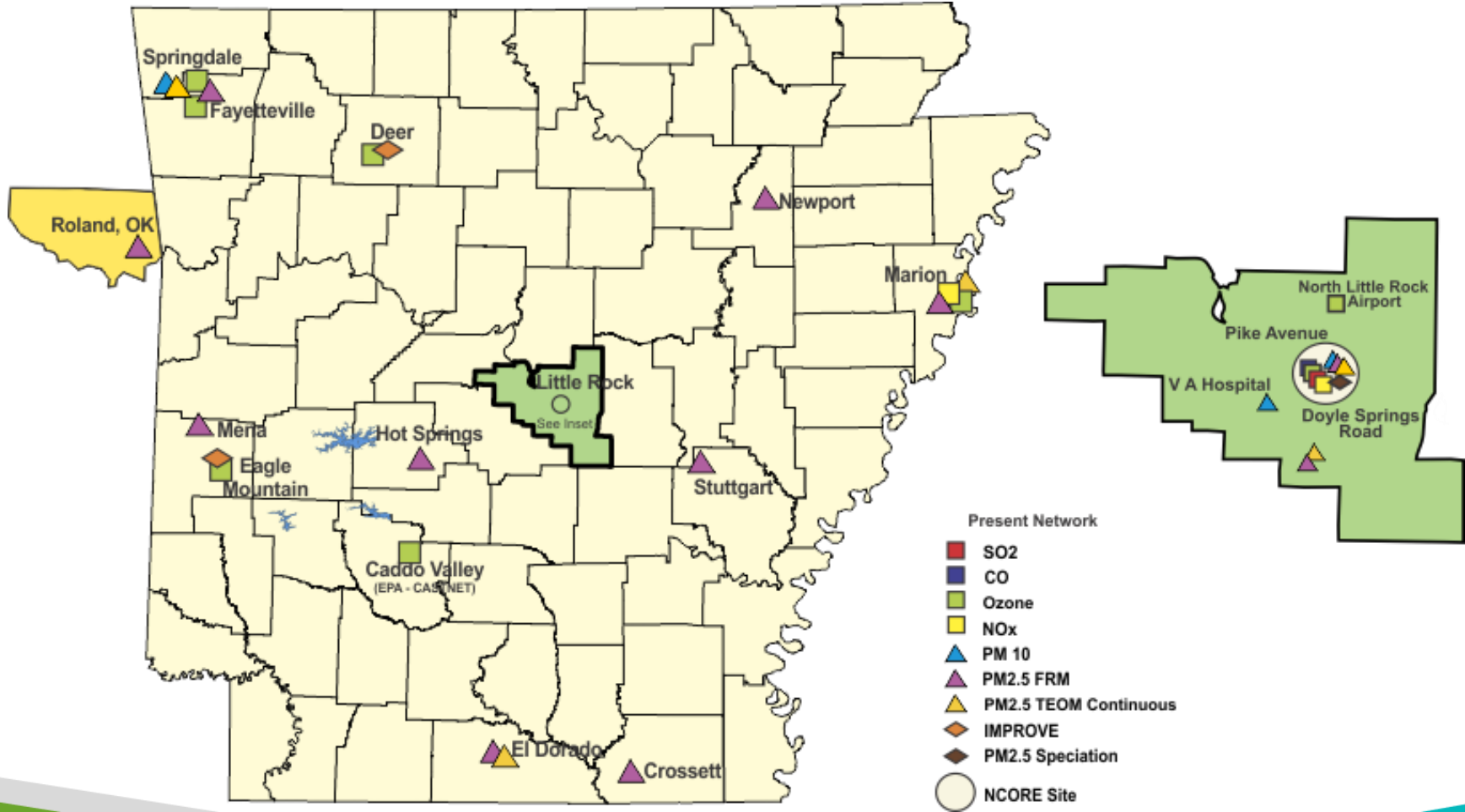
FY 2017 **Go RED!** Awards

Recipient	Use	Amount
CLINTON SCHOOL DISTRICT	Replaced Two School Buses	\$45,000
DOVER SCHOOL DISTRICT	Replaced Two School Buses	\$45,664
COUNTY LINE SCHOOL DISTRICT	Replaced One School Bus	\$19,745
DANVILLE SCHOOL DISTRICT	Replaced One School Bus	\$25,000
YELLEVILLE-SUMMIT SCHOOL DISTRICT	Replaced Two School Buses	\$49,097
JASPER SCHOOL DISTRICT	Replaced Three School Buses	\$50,000
VIOLA SCHOOL DISTRICT	Replaced One School Bus	\$20,000
RIVERSIDE SCHOOL DISTRICT	Replaced One School Bus	\$22,410
SOUTHERN REFRIGERATED TRANSPORTATION	Installed 20 Truck Stop Electrification units	\$50,000
TOTAL		\$326,917

2016 Large Permitted Source Emission Inventory



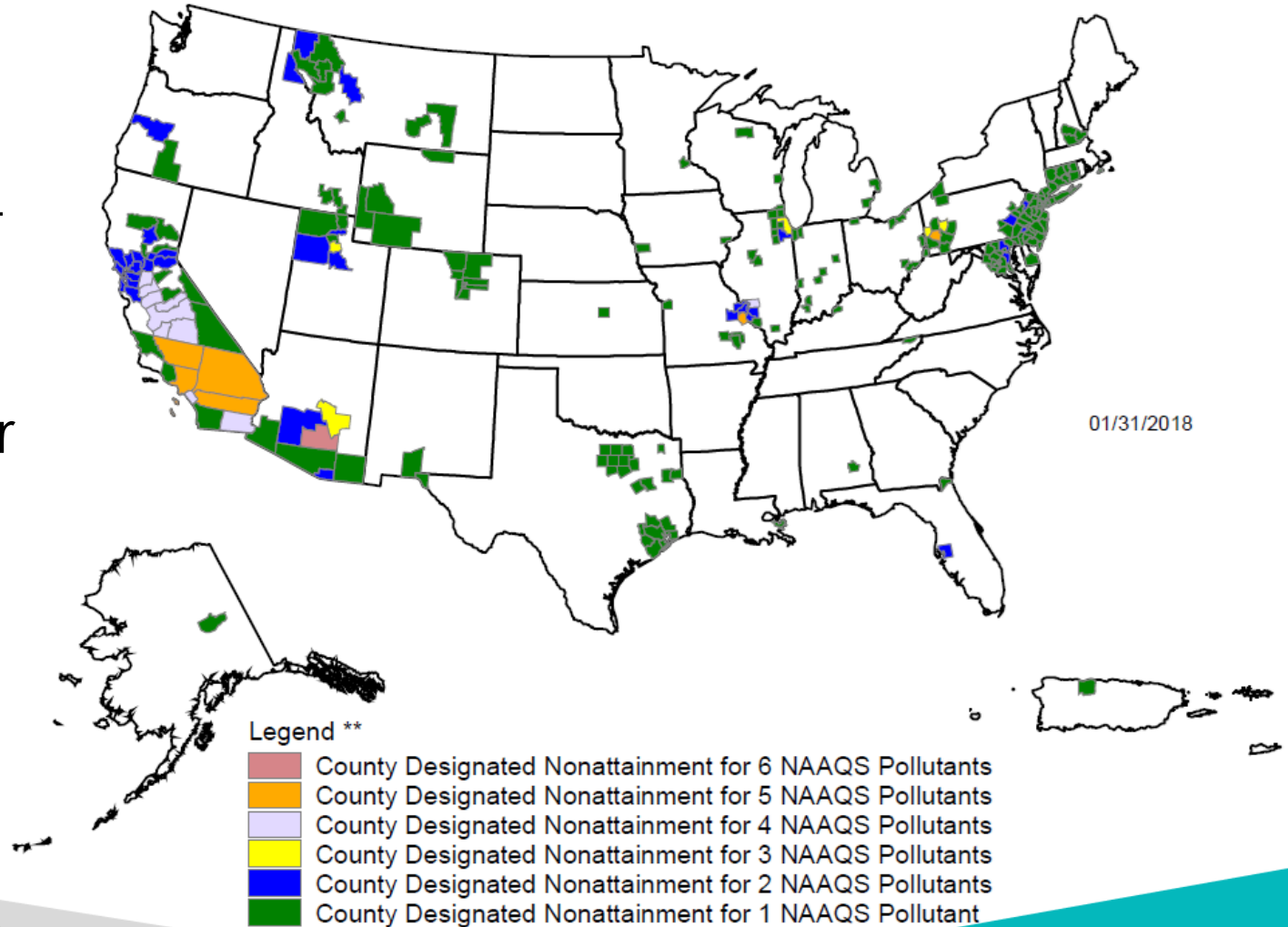
Monitoring



Attainment Status

Arkansas is in attainment with all national ambient air quality standards (NAAQS)

Counties Designated "Nonattainment"
for Clean Air Act's National Ambient Air Quality Standards (NAAQS) *

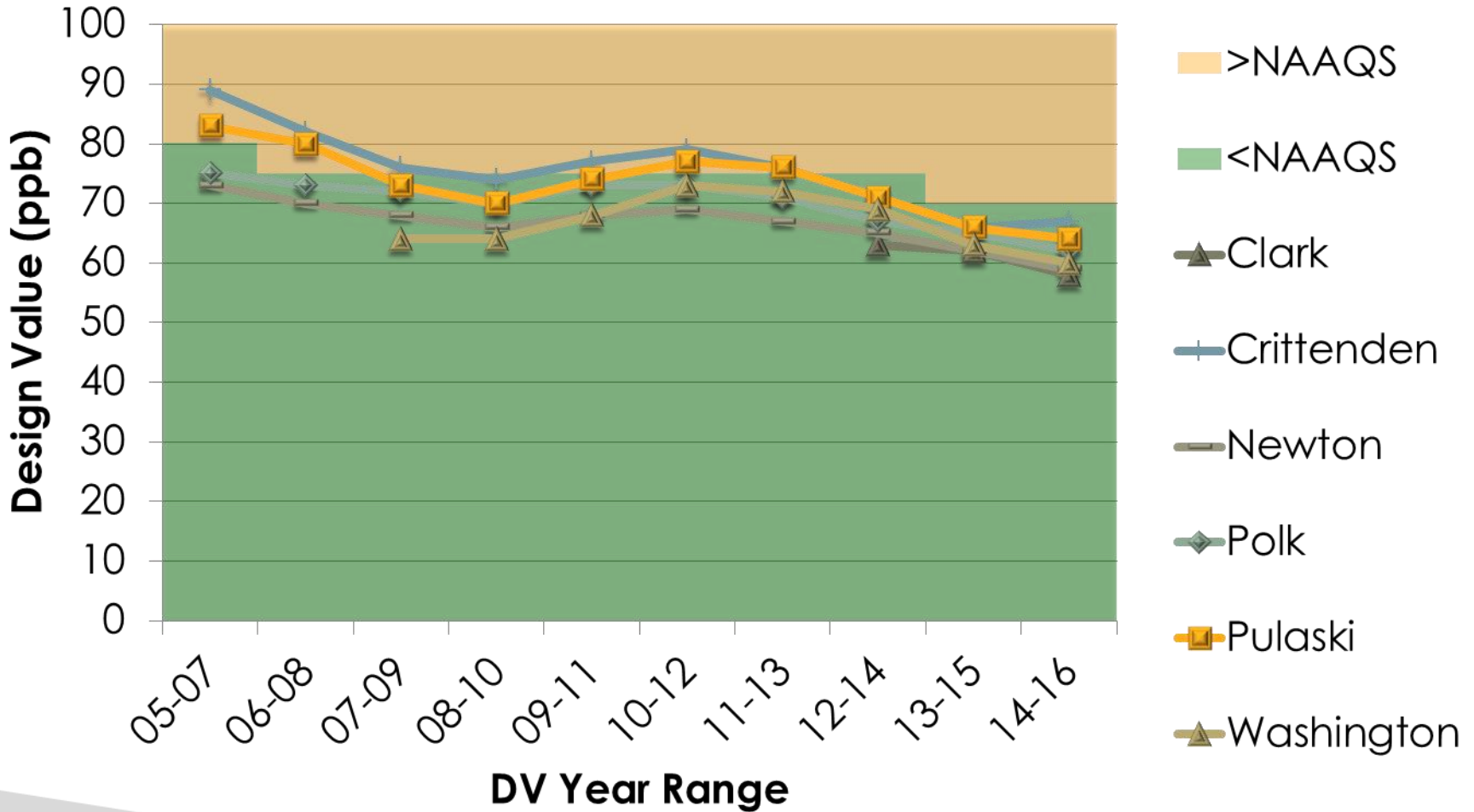


Ozone



- ✓ Monitors located in Clark, Crittenden, Newton, Polk, Pulaski, and Washington counties and Roland, Oklahoma

Ozone 8-Hour NAAQS Design Values

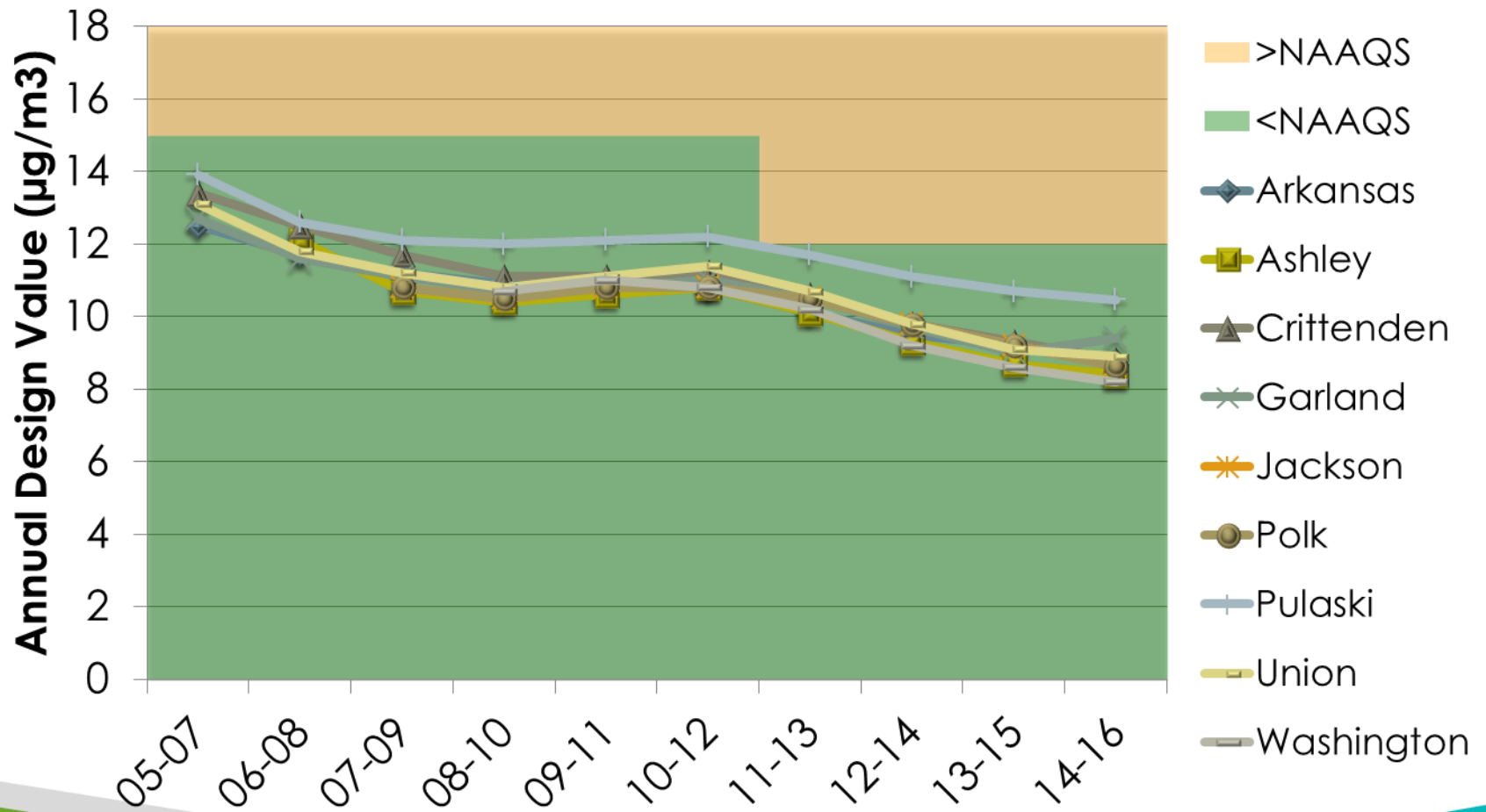


Fine Particulate Matter (PM_{2.5})

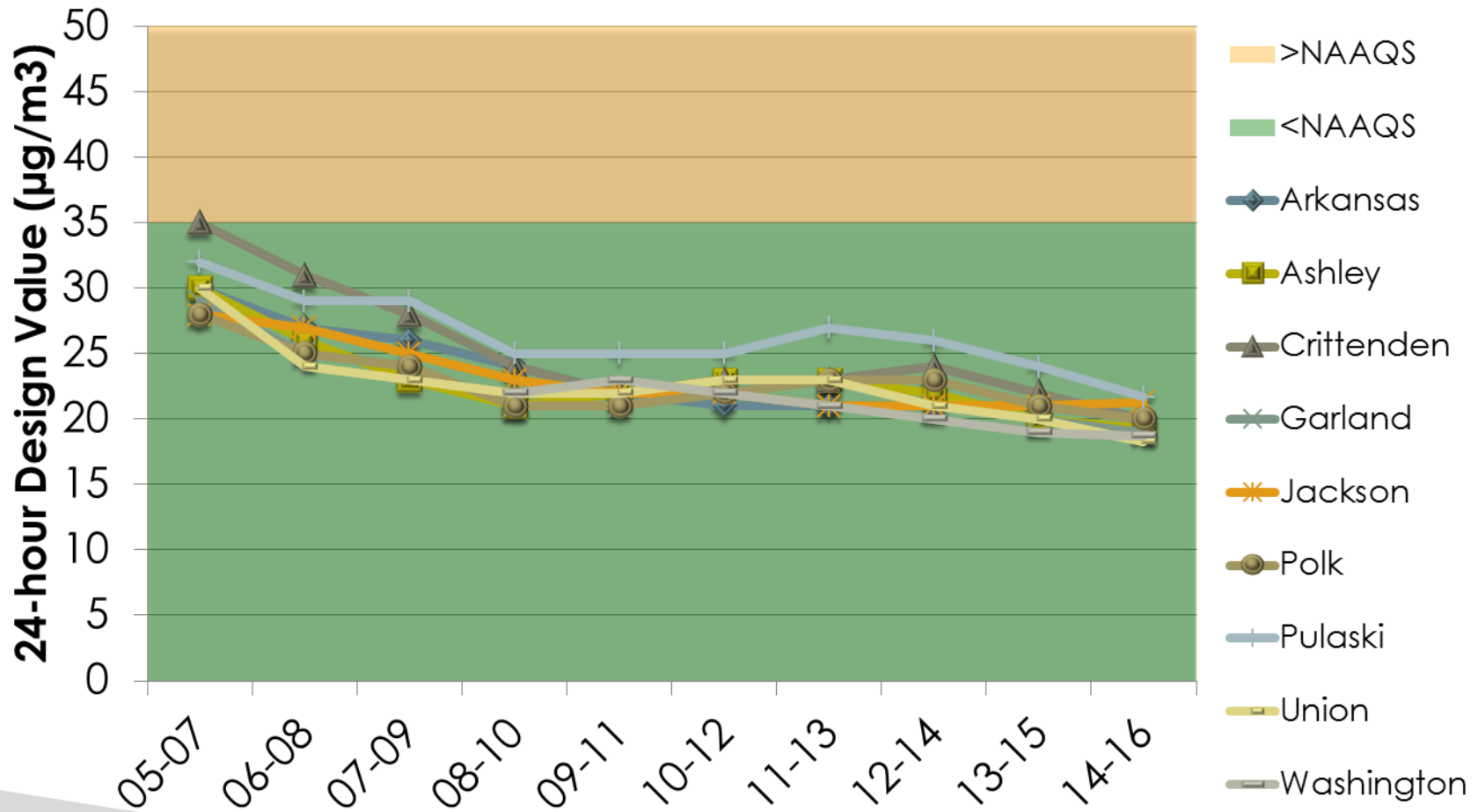


- ✓ Monitors are located in Arkansas, Ashley, Crittenden, Jackson, Polk, Pulaski, Washington, Union counties and in Roland, OK.

PM_{2.5} Annual NAAQS Design Values at Arkansas Monitors



PM_{2.5} 24-Hour Design Values at Arkansas Monitors



Well Below NAAQS Limits

- **Carbon Monoxide**
monitor in Pulaski County
- **Nitrogen Oxides**
monitors in Crittenden,
Pulaski counties
- **Sulfur Dioxide**
monitors in Pulaski, Union counties
- **PM₁₀**
monitor in Pulaski County
- **Lead**
monitor in Pulaski County



Report Conclusions

Office of Air Quality is working hard to protect air quality to enhance the lives and health of all Arkansans and visitors to the state, while fostering responsible economic expansion opportunities.

All areas of the state meet federal air quality standards.

Air quality in Arkansas continues to improve as a result of the implementation of State and federal programs.

Office of Air Quality is continuing to realize efficiencies and improvements as it carries out its duty of protecting and improving air quality in Arkansas.



Will Montgomery,
montgomery@adeq.state.ar.us
Tricia Treece,
treecep@adeq.state.ar.us

See the full report at

<https://www.adeq.state.ar.us/air/state-of-air/>