



EPA Revised National Ambient Air Quality Standards (NAAQS) for Ozone 2008



BATON ROUGE, LOUISIANA NOVEMBER 19, 2008



Baton Rouge Nonattainment Area Update for the 1997 Standard

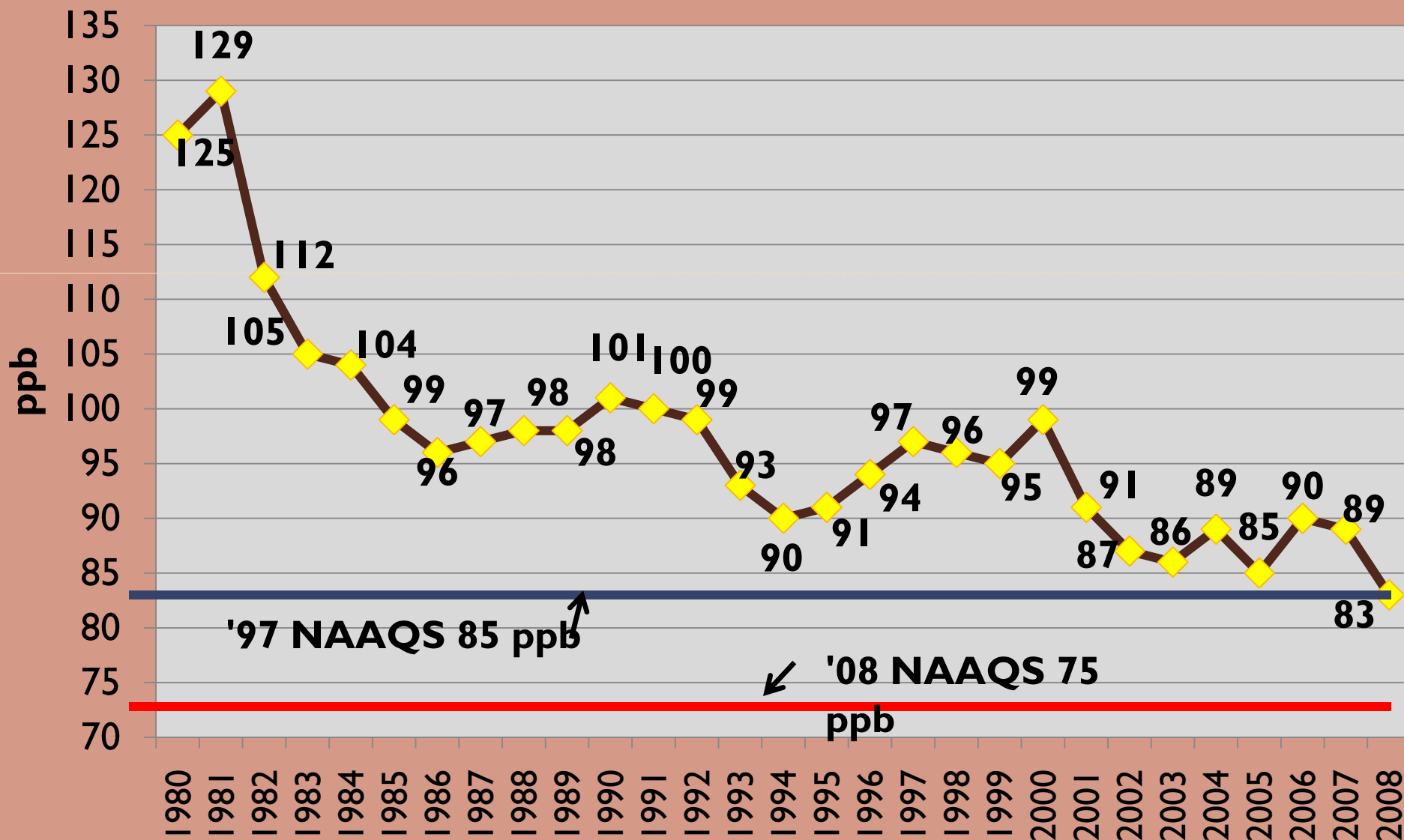
- The air quality in the Baton Rouge area has steadily improved over the years.
- As of 11/17/08 the highest BR area monitor 8-hr design value is 83 ppb at Dutchtown.
- There has been only 1 exceedance of the 1997 standard in the BR area for 2008 – Bayou Plaquemine: 86 ppb on 6/23/08.



Baton Rouge Nonattainment Area Update for the 1997 Standard

- DEQ could petition EPA to re-designate the BR area “attainment” if the year ends without any of the monitors’ design values going over 84 ppb.
- Currently DEQ is working on modeling for the 2009 attainment demonstration that is required by EPA.

Baton Rouge Area Design Values, 8-Hour





THE NEW OZONE STANDARD

How will it affect Louisiana?



8-Hour Ozone Standard: The Revision for 2008

On March 12, 2008, EPA announced a new primary 8-hour ozone standard of 0.075 parts per million (ppm). The secondary standard was set identical to the primary.

26 parishes may potentially be designated nonattainment based on monitor data showing design values* above 0.075 ppm.

*Design Value – the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentration measured at each monitor within an area.

Economic Development Impact

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- Non-attainment represents a “red flag” in the site selection process for both new facilities and expansions, especially for manufacturing prospects
- Non-attainment involves a more complex, expensive environmental permitting process that can reduce the competitiveness of existing business and industry
- Once in non-attainment, there is potential risk of significant increases in economic costs (e.g., emissions controls, penalty fees, RFG) on both industry and consumers if air quality does not improve sufficiently over time

What is the role of the state regulator?

- Work with city-parish leaders and businesses to develop an ozone pollution control strategy
- Work with area businesses and industries to develop an ozone pollution control strategy
- Submit recommendations for designations based on monitor data to EPA
- Rule revisions and promulgation
- Compilation and submittal of State Implementation Plans (SIP) for areas designated nonattainment.





Ozone Steering Committee

- Statewide Ozone Steering Committee was initiated in April 2008 to assist potential new ozone nonattainment areas with Clean Air Act requirements;
- Composed of representatives from business and industry associations, several state agencies, city/parish governments and environmental groups;
- The committee has no official authority but does have the ability to recommend ideas to the governor.

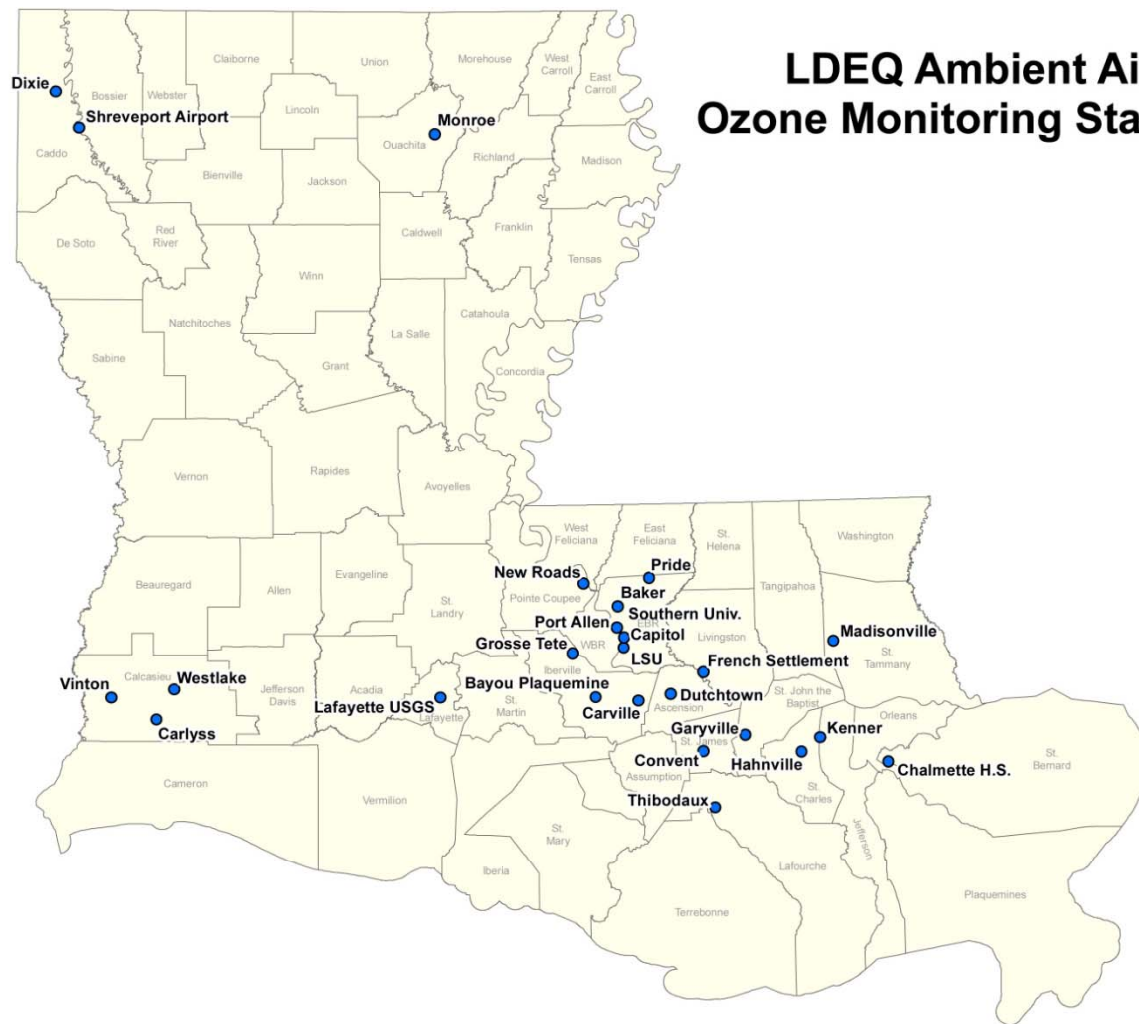
Ozone Steering Committee

- There are 3 sub-committees:
 - Presentation Committee – created ozone presentation that has been given throughout the state to areas could be designated nonattainment.
 - Voluntary Actions Committee – developed voluntary actions that communities can use to either avoid being designated nonattainment or to come into attainment sooner.
 - Clean Air Act Reform Committee – working to reform: (1) nonattainment designations and attainment timelines, (2) standard setting, (3) implementation issues and (4) prescriptive requirements and control measures.

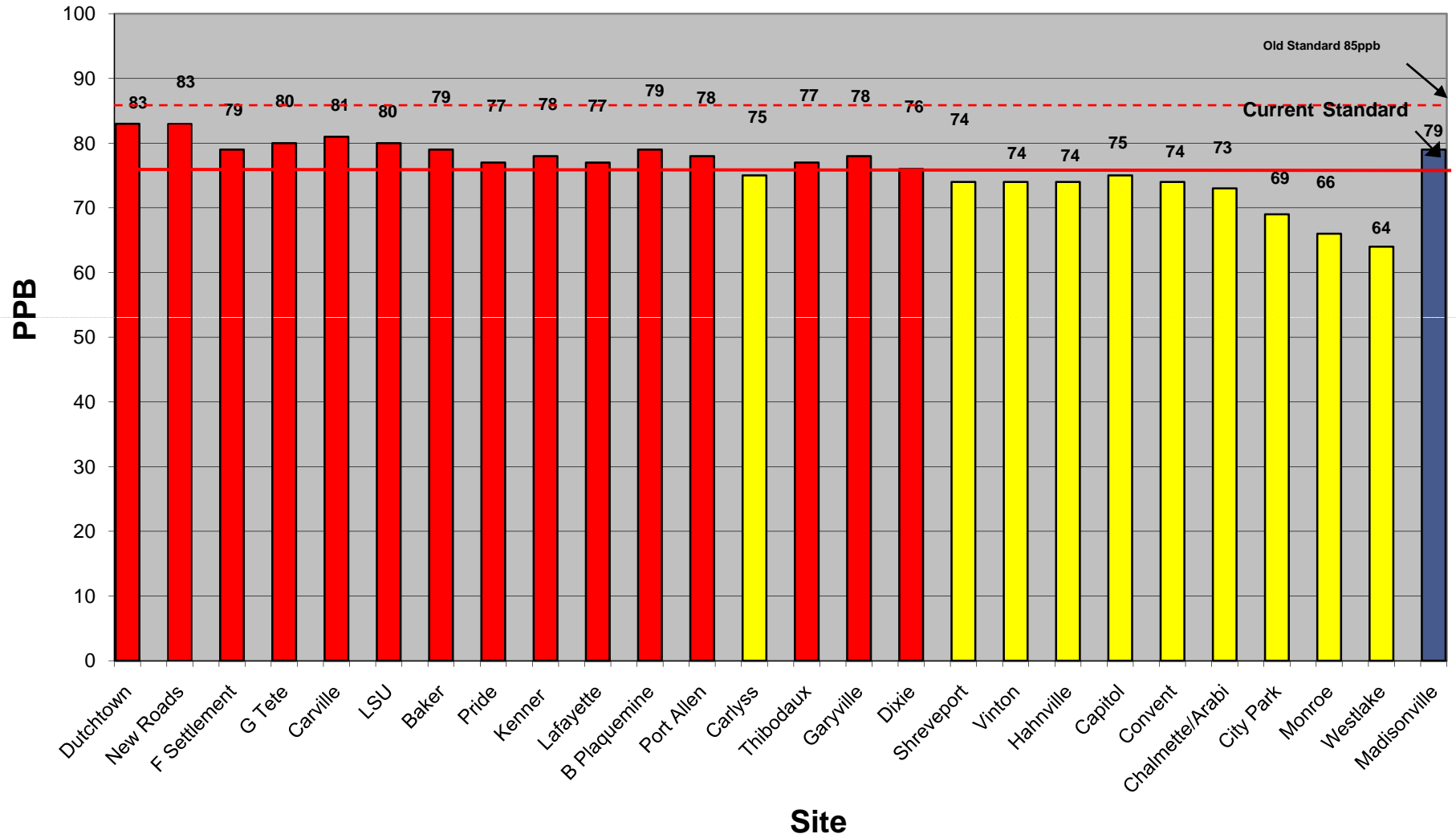
Revised Air Quality Index (AQI)

Category	AQI Value	1997 8-hour (ppm)	2008 8-hour (ppm)
Good	0-50	0.000-0.064	0.000-0.059
Moderate	51-100	0.065-0.084	0.060-0.075
Unhealthy for Sensitive Groups	101-150	0.085-0.104	0.076-0.095
Unhealthy	151-200	0.105-0.124	0.096-0.115
Very Unhealthy	201-300	0.125-0.374	0.116-0.374
Hazardous	301-400	No Change	No Change
	401-500	No Change	No Change

Monitoring sites in Louisiana



8-Hr Design Value as of November 17, 2008



NONATTAINMENT PARISHES AT 0.075 PPM

SHREVEPORT - BOSSIER MSA
(BOSSIER, CADDO, DESOTO)

BATON ROUGE MSA
(ASCENSION, EAST AND WEST BATON ROUGE, IBERVILLE,
LIVINGSTON, EAST AND WEST FELICIANA, ST. HELENA, AND
POINTE COUPEE)

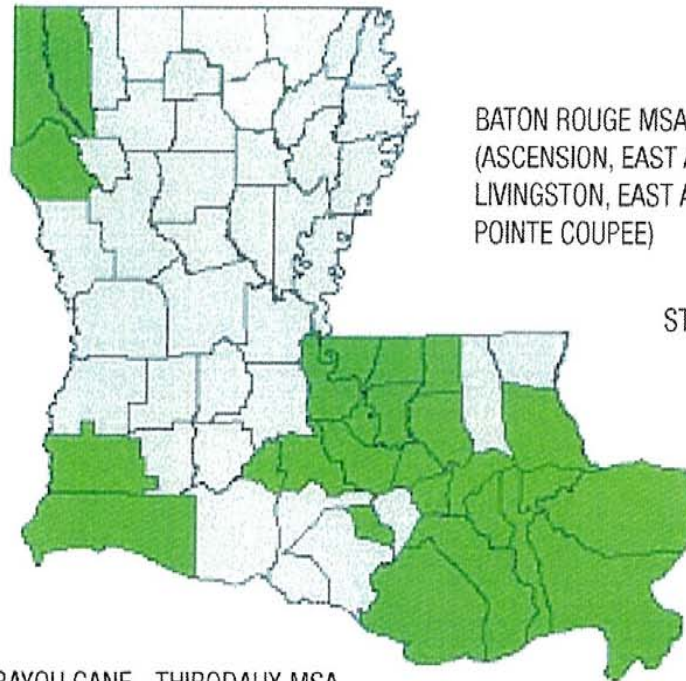
LAFAYETTE MSA
(LAFAYETTE, ST. MARTIN)

ST. JAMES PARISH

LAKE CHARLES MSA
(CALCASIEU, CAMERON)

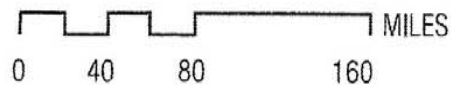
NEW ORLEANS - METAIRIE - KENNER MSA
(JEFFERSON, ORLEANS, PLAQUEMINE,
ST. BERNARD, ST. CHARLES, ST. JOHN,
ST. TAMMANY)

HOUMA - BAYOU CANE - THIBODAUX MSA
(LAFOURCHE, TERREBONNE)



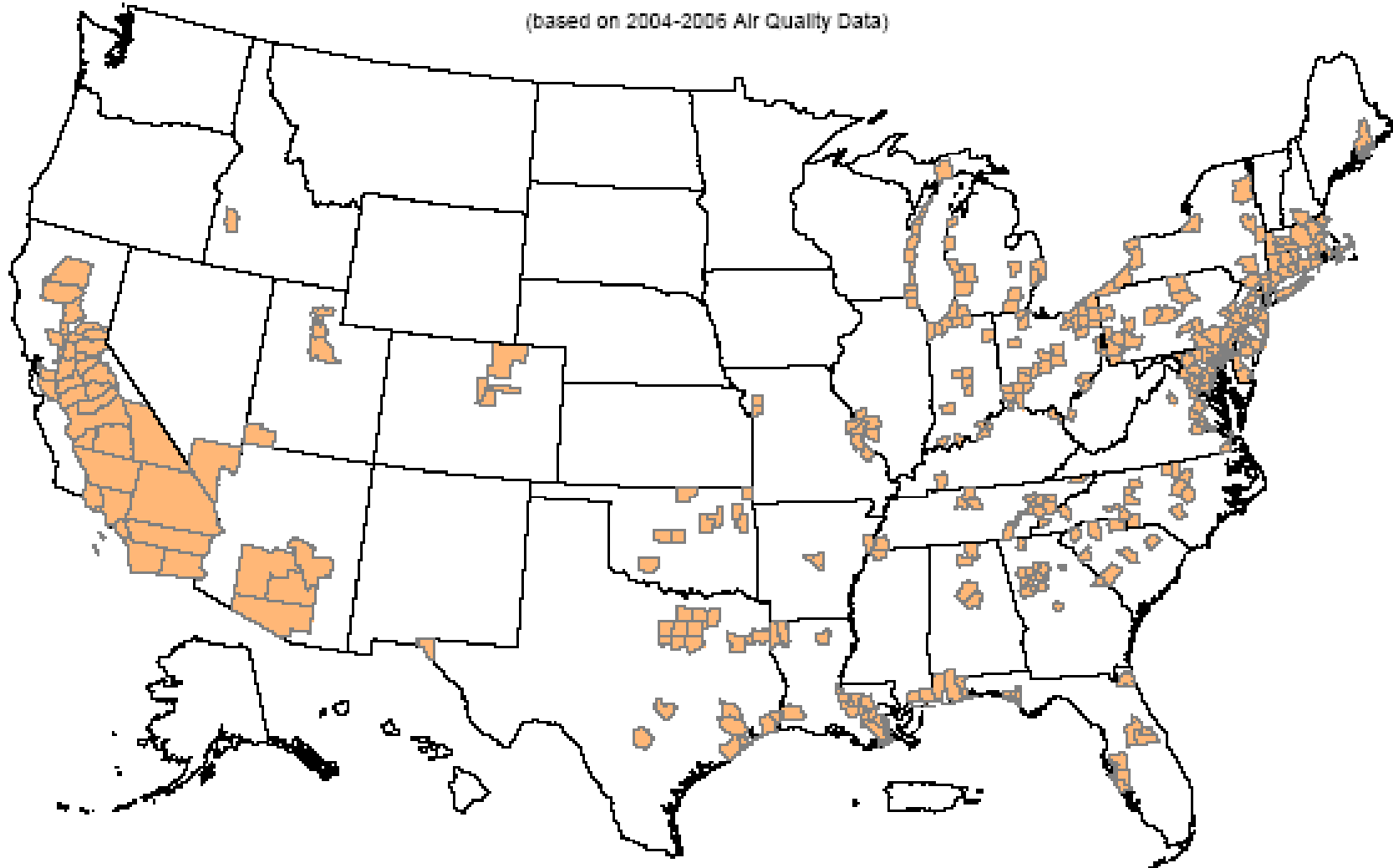
AFFECTED PARISHES

 NONATTAINMENT PARISHES



Counties with Monitors Violating the 2008 8-Hour Ozone Standard of 0.075 parts per million (ppm)

(based on 2004-2006 Air Quality Data)



Notes:

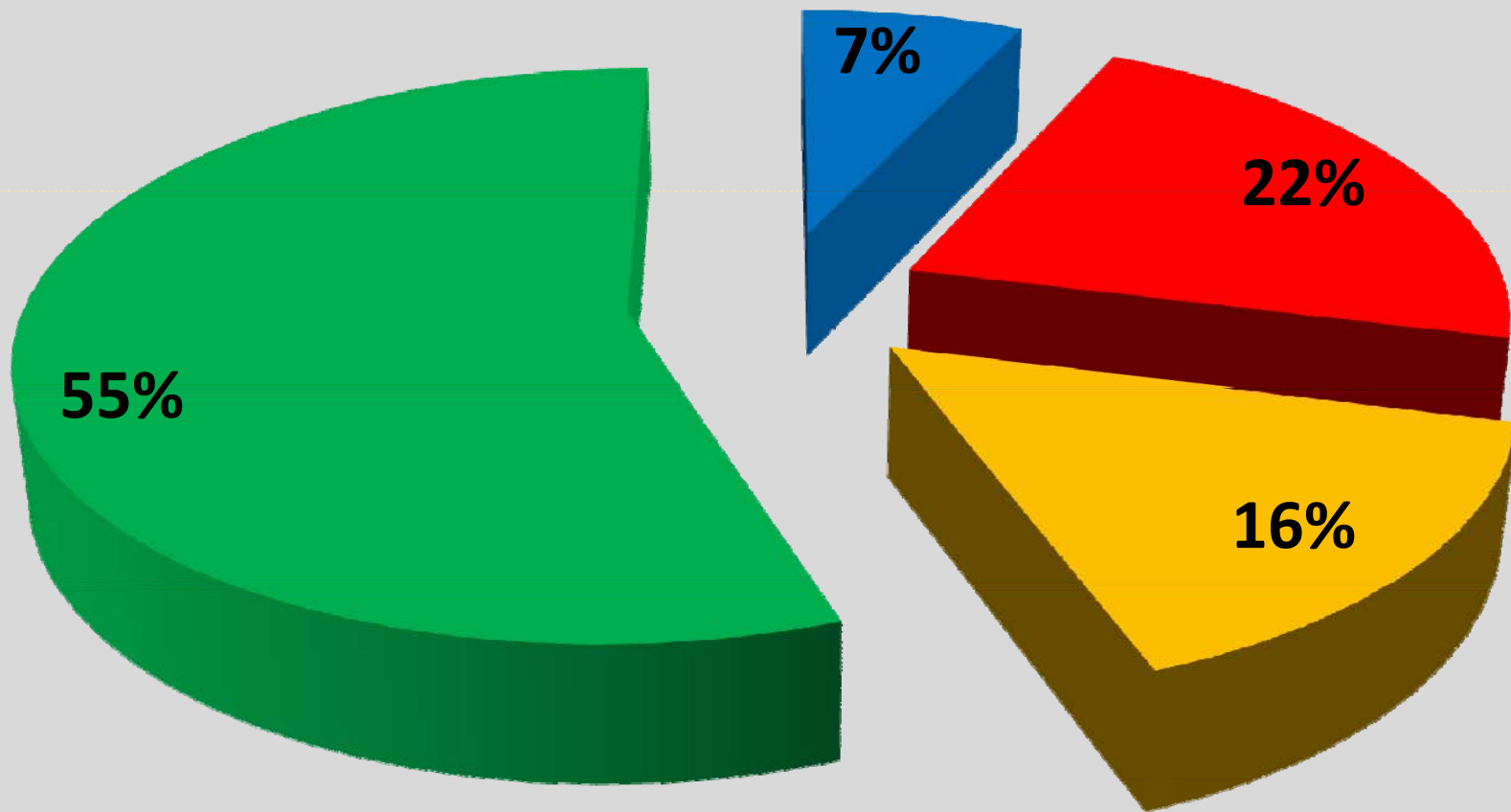
¹ 345 monitored counties violate the 2008 8-hour ozone standard of 0.075 parts per million (ppm).

² Monitored air quality data can be obtained from the AQS system at <http://www.epa.gov/ttn/airs/airsaqs/>⁵

Baton Rouge Area Nox Emissions Summary, 2006 typical tons/day

■ Area ■ Nonroad ■ Onroad ■ Point

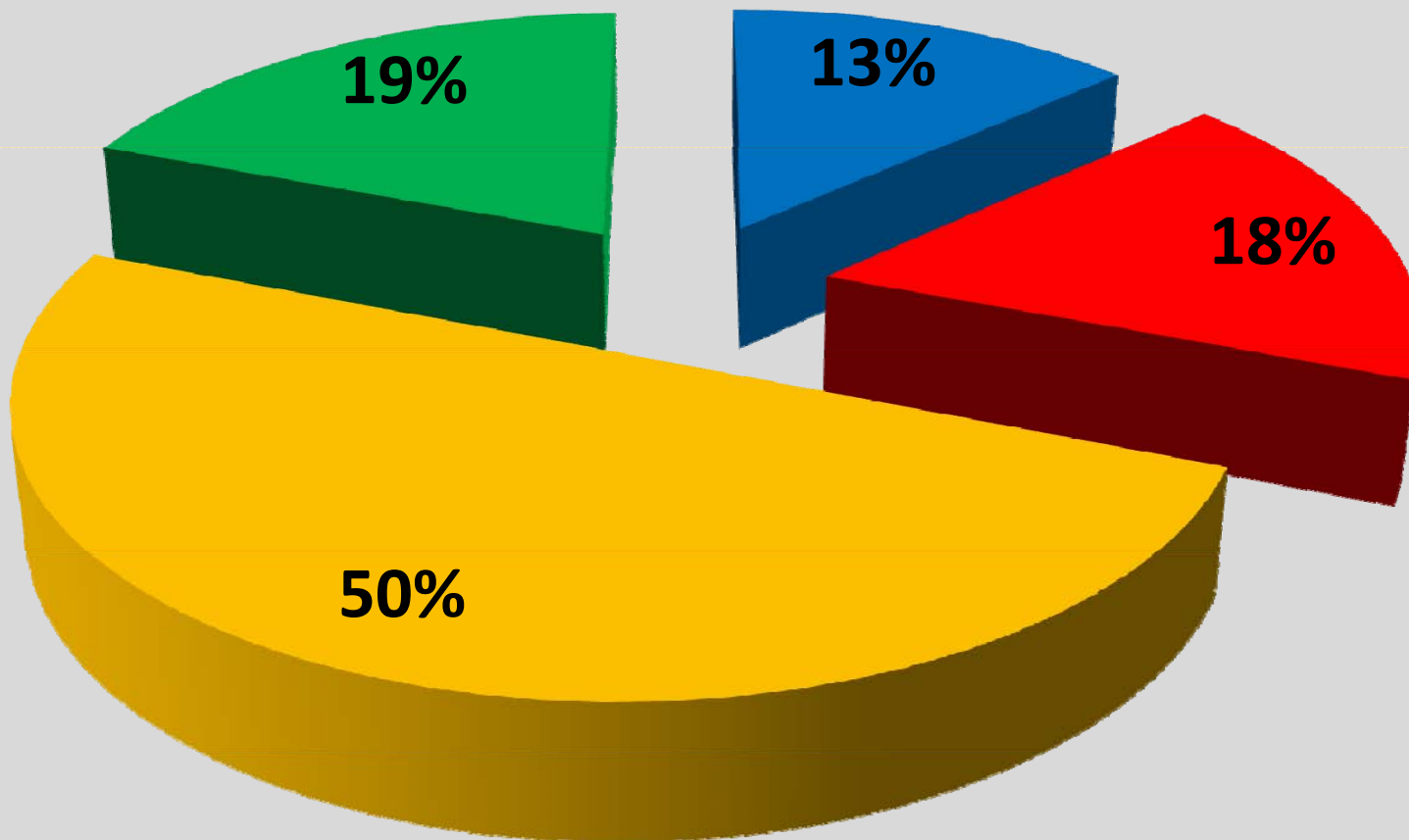
*Does not include biogenic emissions



Lafayette Area Nox Emission Summary, 2006 typical tons/day

■ Area ■ Nonroad ■ Onroad ■ Point

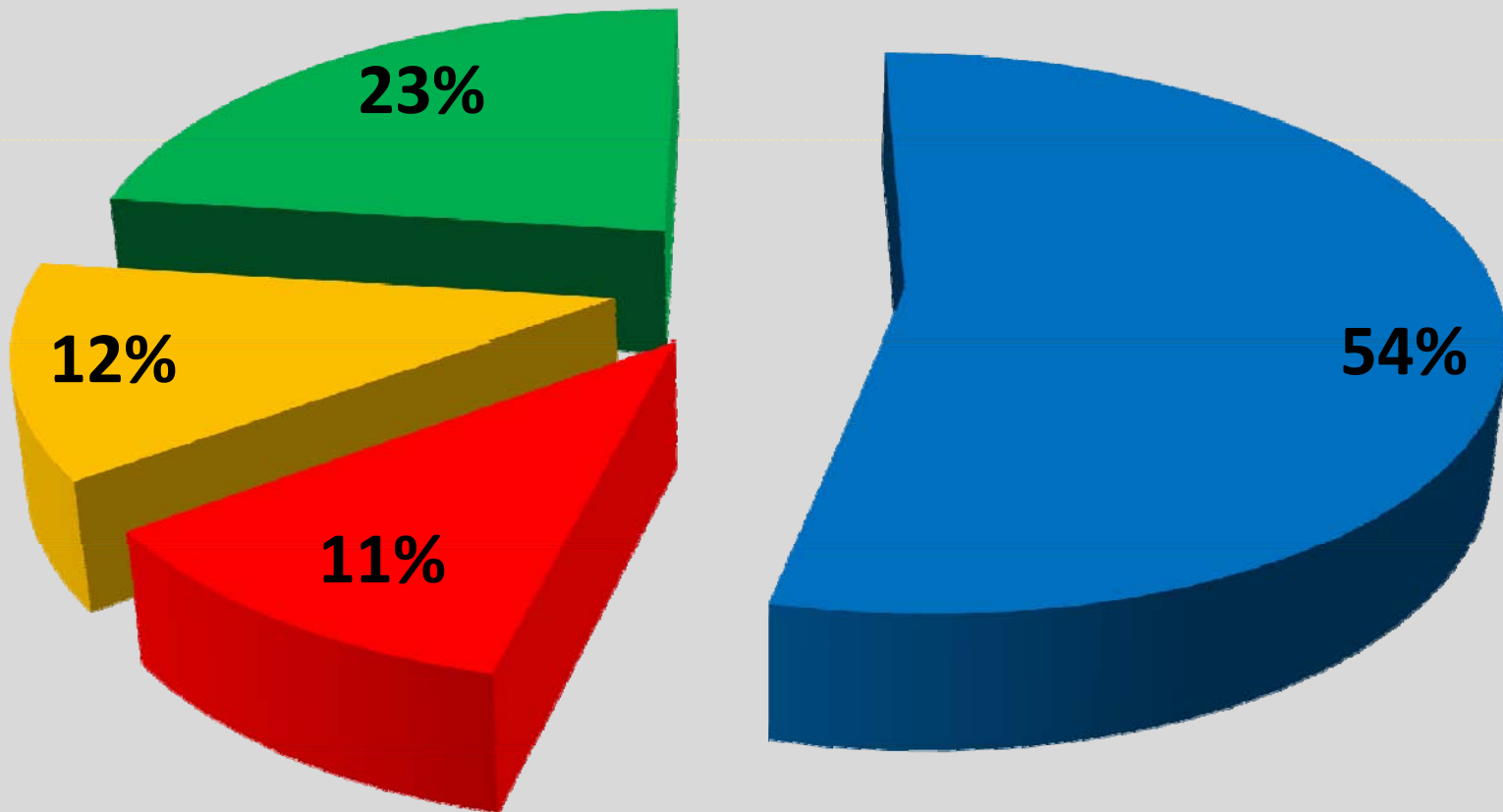
*Does not include biogenic emissions



Baton Rouge Area VOC Emissions Summary, 2006 typical tons/day

■ Area ■ Nonroad ■ Onroad ■ Point

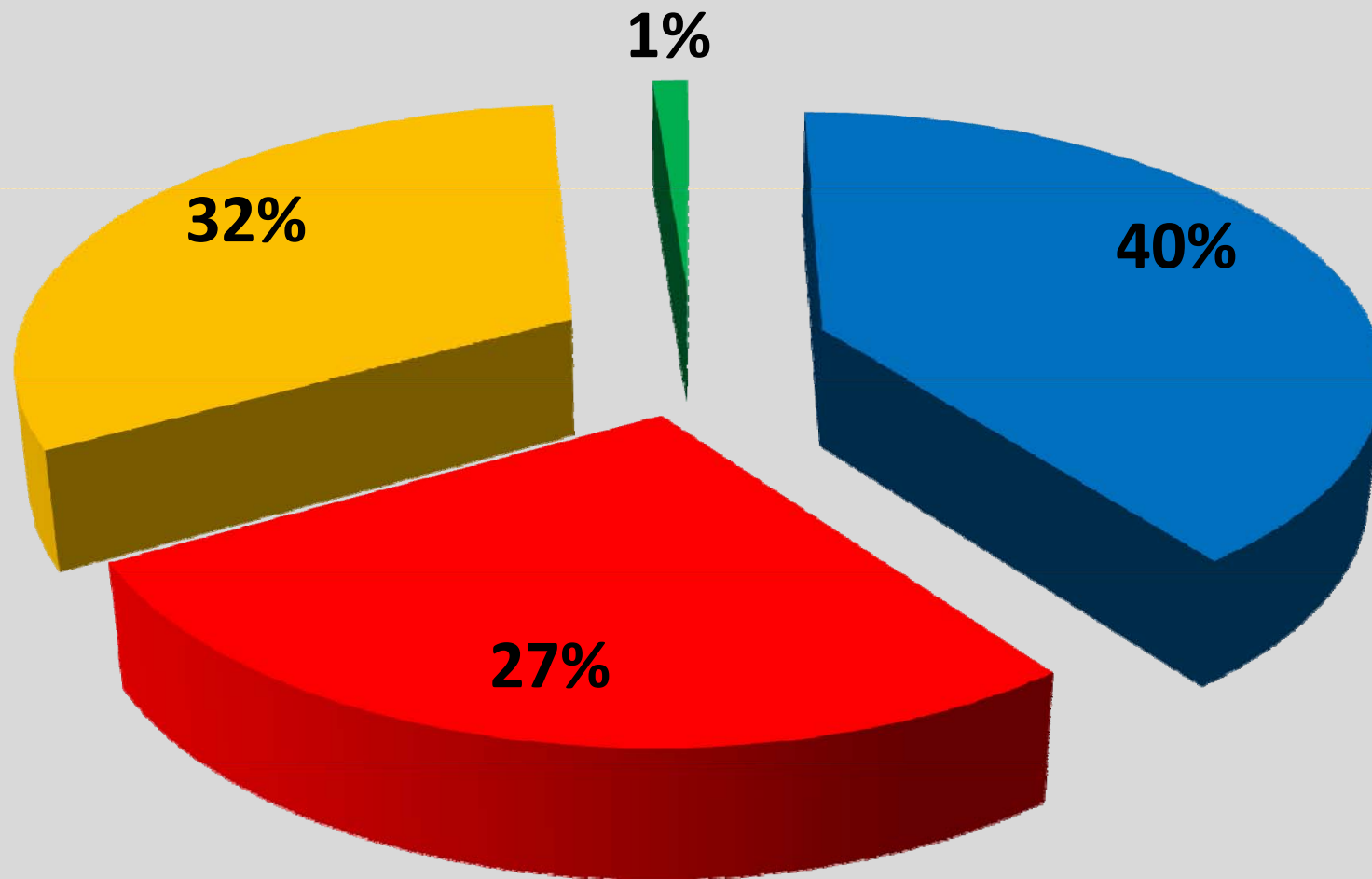
*Does not include biogenic emissions



Lafayette Area VOC Emissions Summary, 2006 typical tons/day

■ Area ■ Nonroad ■ Onroad ■ Point

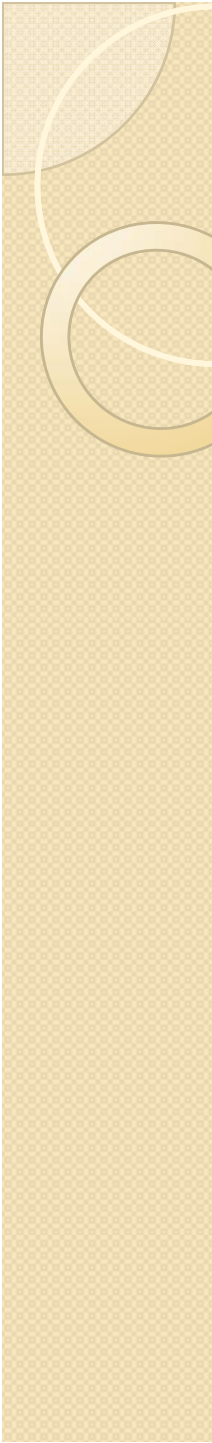
*Does not include biogenic emissions



Implementation of the New Standard's Timeline



- The anticipated implementation schedule for this new standard is as follows:
 - State Recommended Designations March 12, 2009
 - EPA Final Designations March 12, 2010
 - Classification/Rules March 2009 – April 2010
 - SIPs Due 2013
 - Attainment Dates 2013 – 2030 (depends on severity of problem)
- It should be noted that this schedule is subject to change due to on going litigation.



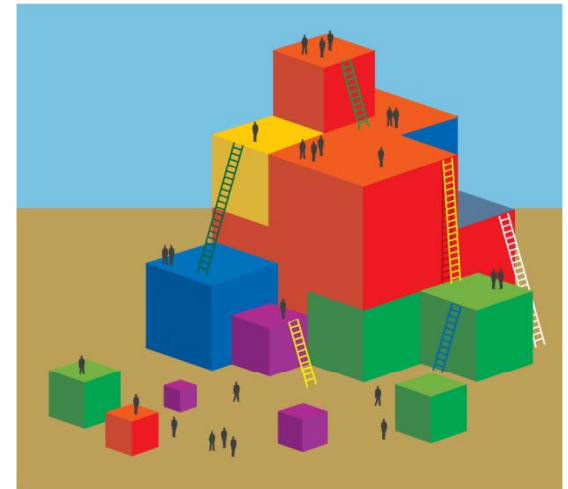
Impacts of the 2008 Standard on New Nonattainment Parishes, Local Governments, Industries and Businesses

- Changed Emission Inventory Requirements
- Lowered Major Source Thresholds
- New Source Review

- Emission Offsets
- RACT Requirements
- Transportation Conformity/General Conformity
- Automobile Inspection/Maintenance
- Regulations on small businesses (bakeries, dry cleaners, paint shops, etc.)

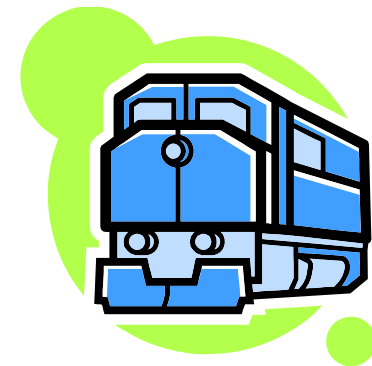
What are the next steps?

- Implementation of national rules
- Implementation of state rules to comply with the Clean Air Act requirements
- Implementation of Ozone Action Day
- Voluntary Measures
- Education and Awareness



Federal Rules in Progress

- National Refinery Initiative
- Clean Air Visibility Rule
- Ultra Low Sulfur Diesel Rule
- Heavy Duty Diesel Rule
- Locomotive and Marine Vessel Rule
- Small Spark-Ignition Engine Rule



Reductions through State Rulemaking

Add Chapter 21 VOC Controls

- Extend Controls Statewide
- VOC Storage Tank Emissions
- Limit Use of Flares for Non-Emergency Venting
- Use of Infrared Camera To Audit for Leaks

Add Chapter 22 NO_x Controls

- Extend Rule to Areas Outside of BR MSA
- Tighten Emission Factors
- Limit Use of Averaging and Credits
- Eliminate Some Exemptions



Transportation Reduction Measures

- Vehicle Emission Reduction Activities
 - Ridesharing
 - Bicycle Lanes
 - Compressed Workweek, Flex-Hours
 - Telecommuting
 - Mass Transit: Buses, Light Rail, Vanpools



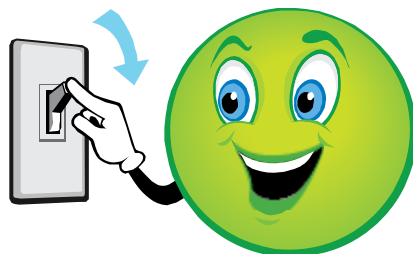
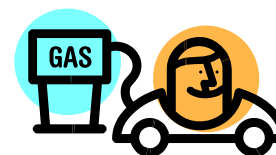
Reduction thru Voluntary Measures

- Open Burning Restrictions
- Engine Idling Restrictions
- Truck Stop Electrification
- Vehicle Scrappage Program
- Ozone Action Day Incentives
- Clean City Coalition Programs
- Port and Marine Vessel Emission Reductions



Ozone Action Day Reduction Measures

- ❑ Maintain your vehicle properly
- ❑ Trip chain, combine errands and limit daytime driving
- ❑ Ride public transportation or carpool to work
- ❑ Take your lunch to work
- ❑ Walk or ride a bicycle for short trips.
- ❑ Refuel when its cool - after 6 p.m. Don't top off your tank –
- ❑ Avoid prolonged idling and jackrabbit starts - "Drive Emission-wise".
- ❑ Wait until the evening (6 p.m.) to mow your lawn or use gas powered lawn equipment
- ❑ Barbecue with electric starter or use a chimney, not fluid starter.
- ❑ Conserve energy in your home
- ❑ Spread the word! Talk to your coworkers and neighbors about the Ozone Action Program.



Path Forward



- Meet with stakeholders in potential nonattainment areas
- Work with EPA on Implementation Rules
- Work through Clean Cities to promote voluntary measures
- Promote Air Quality Awareness
- Build on the work in the BR Nonattainment area to help other areas with implementation.



Statewide Ozone Steering Committee

SWEPCO/AEP

LA Municipal Association (LMA)

LA Association of Business and Industry (LABI)

LA Chemical Association (LCA)

Baton Rouge Clean Air Coalition

Police Jury Association of Louisiana

LA Environmental Action Network (LEAN)

LA Pulp and Paper

LA Independent Oil and Gas Association (LIOGA)

LA Mid-Continent Oil and Gas Association (LMOGA)

LA Oil Marketers & Convenience Store Operators (LOMCSA)

LA Department of Environmental Quality

LA Department of Economic Development

EPA Region 6

Sierra Club

City of Shreveport

City of Lafayette

Greater New Orleans, Inc.

Questions? Ask our DEQ experts!

- Jennifer Mouton jennifer.mouton@la.gov
- James Orgeron james.orgeron@la.gov
- Yasoob Zia yasoob.zia@la.gov
- Vivian Aucoin vivian.aucoin@la.gov
- Timothy Bergeron timothy.bergeron@la.gov
- Maurice Oubre maurice.oubre@la.gov



For More Information:

Statewide Ozone Steering Committee Website:

[http://www.deq.louisiana.gov/portal/tabid/2849/
Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2849/Default.aspx)

EPA Ozone website:

<http://www.epa.gov/air/ozonepollution/>

Lawnmower buy back program:

<http://www.epa.gov/oar/recipes/smallen.html>

<http://www.epa.gov/oar/recipes/mowers.html>