

Update on LDEQ's Recommendations for the 2008 Ozone NAAQS

**AIR AND WASTE MANAGEMENT ASSOCIATION
GONZALES, LA. MARCH 19, 2009**



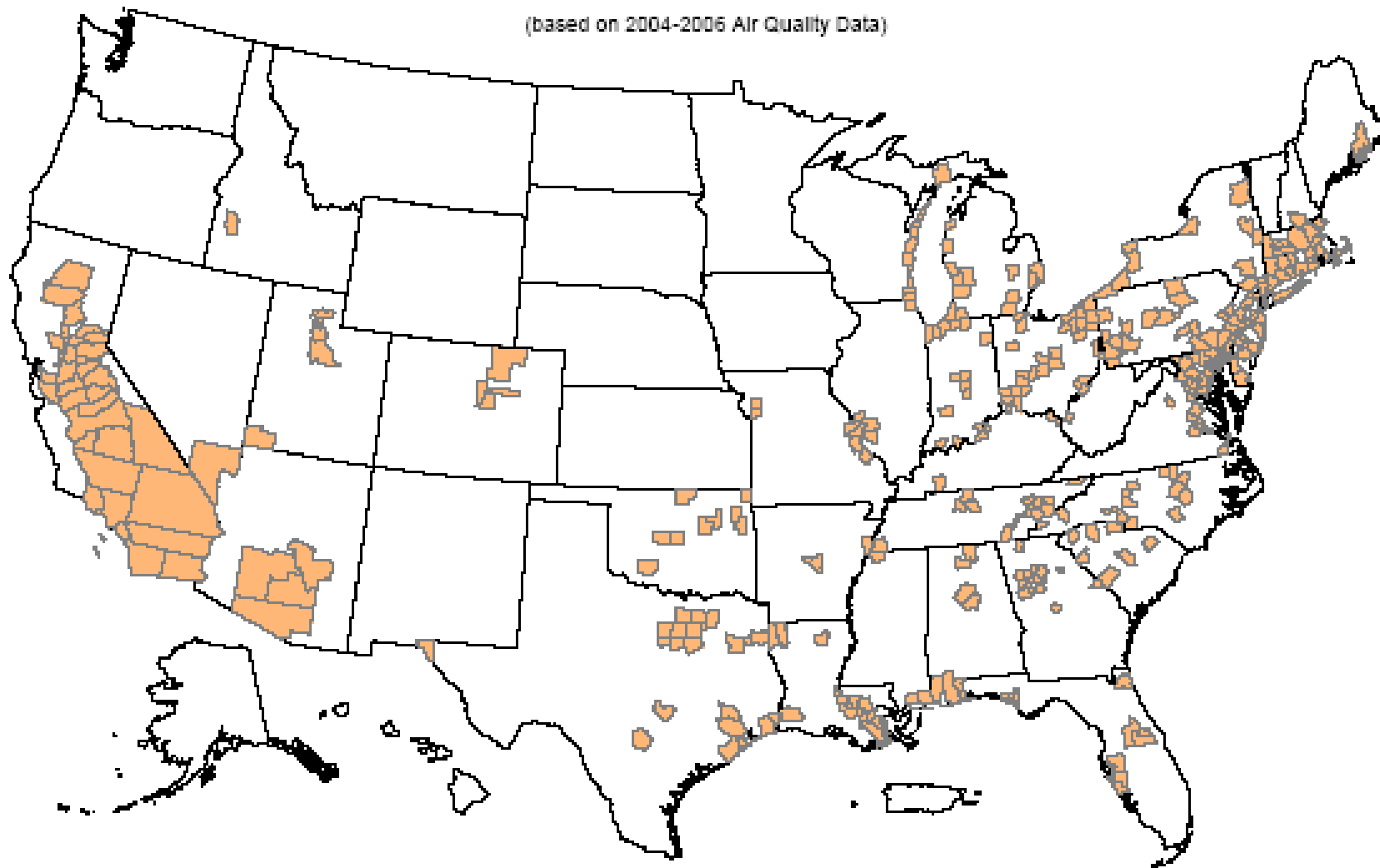
Presented by Vivian Aucoin
Air Quality Assessment Div.

Introduction

- Letter submitted to EPA on March 12, 2009
- 11 parishes were recommended as nonattainment
- 5-parish Baton Rouge Nonattainment Area
- 6 additional parishes (Caddo, Jefferson, Lafayette, Lafourche, Pointe Coupee, and St. John the Baptist)

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

(based on 2004-2006 Air Quality Data)

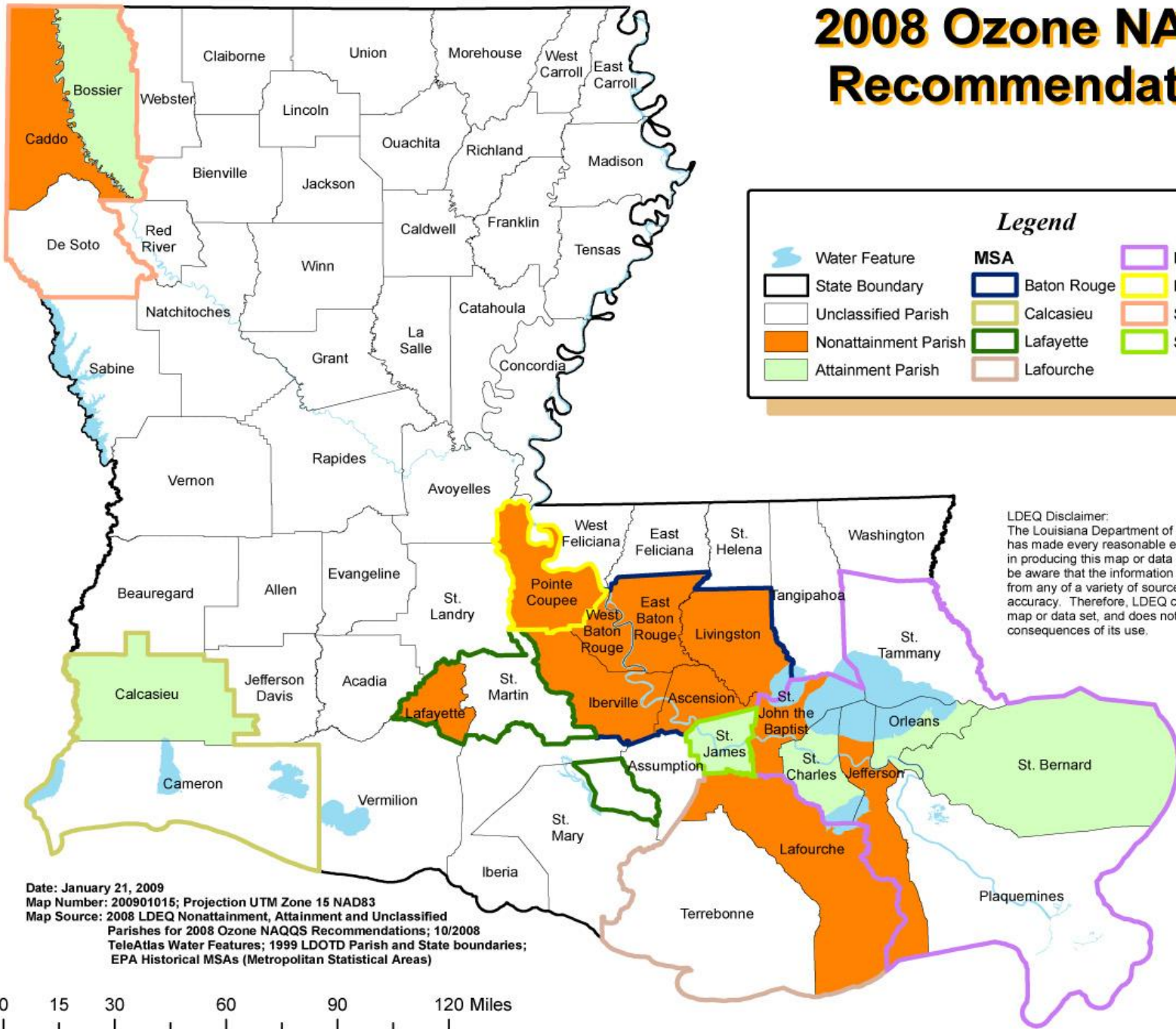


Notes:

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/>³

2008 Ozone NAAQS Recommendations



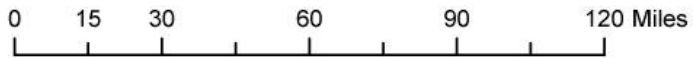
Legend

Water Feature	MSA	New Orleans
State Boundary	Baton Rouge	Pointe Coupee
Unclassified Parish	Calcasieu	Shreveport Bossier
Nonattainment Parish	Lafayette	St. James
Attainment Parish	Lafourche	

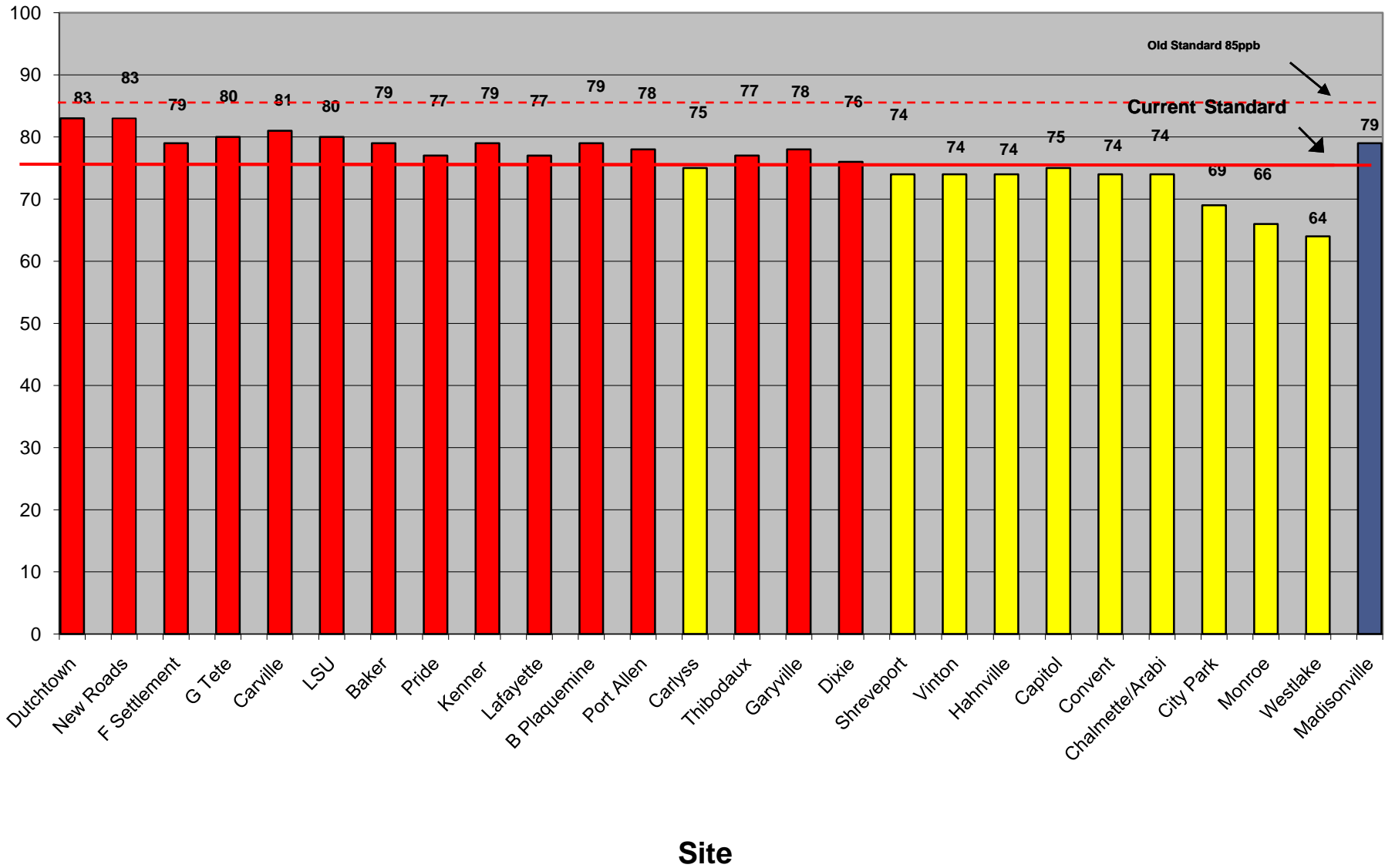
LDEQ Disclaimer:
 The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of accuracy. Therefore, LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any responsibility for the consequences of its use.



Date: January 21, 2009
 Map Number: 200901015; Projection UTM Zone 15 NAD83
 Map Source: 2008 LDEQ Nonattainment, Attainment and Unclassified Parishes for 2008 Ozone NAAQS Recommendations; 10/2008 TeleAtlas Water Features; 1999 LDOTD Parish and State boundaries; EPA Historical MSAs (Metropolitan Statistical Areas)

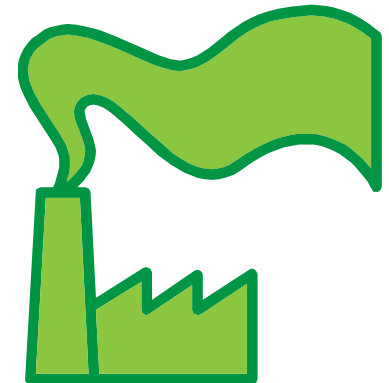
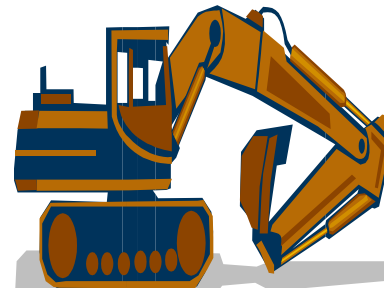


8-Hr Design Value as of December 31, 2008



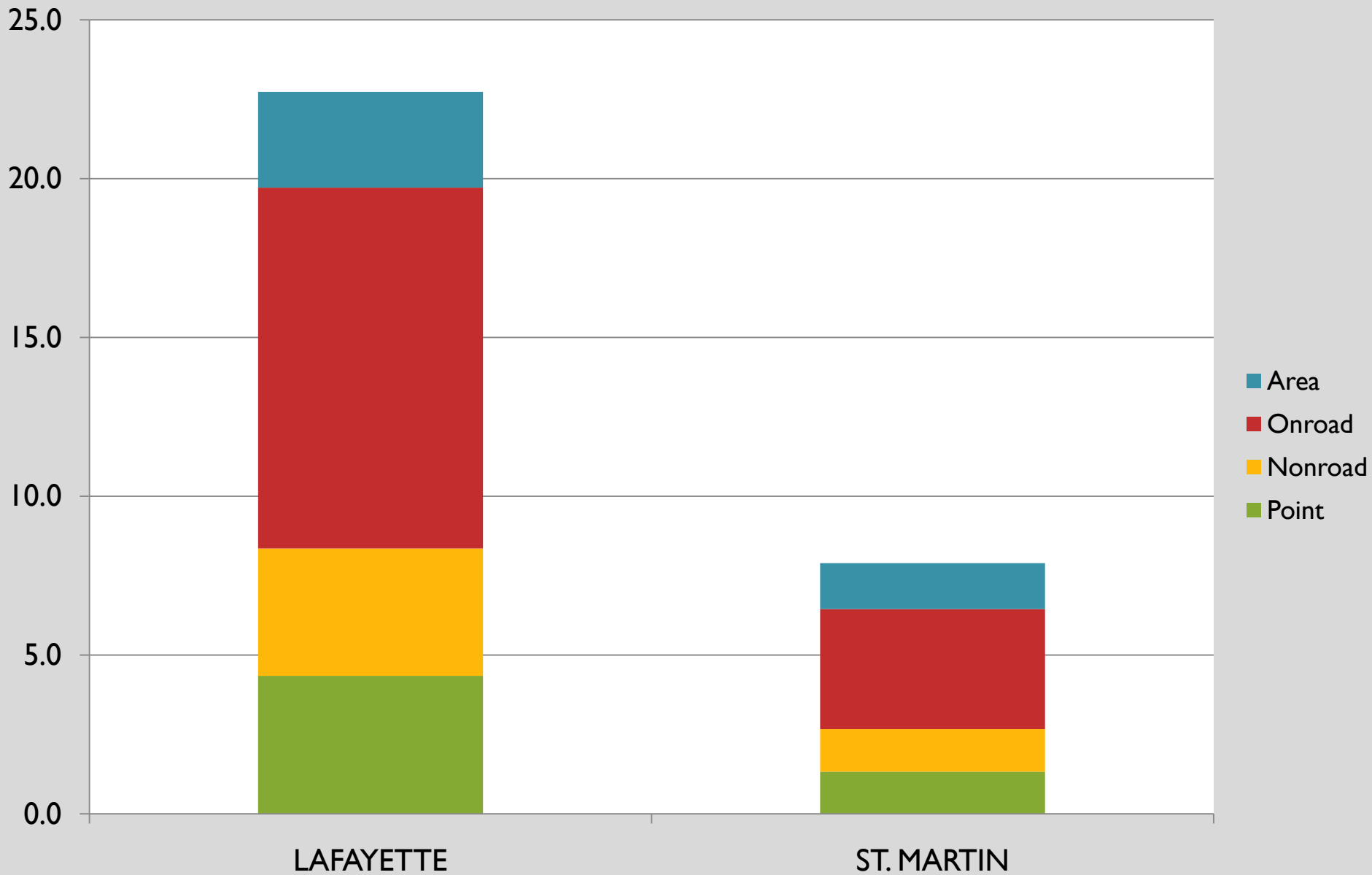
WHAT KIND OF CONTROL STRATEGY WILL WE NEED?

Where is all the VOC and NO_x coming from?

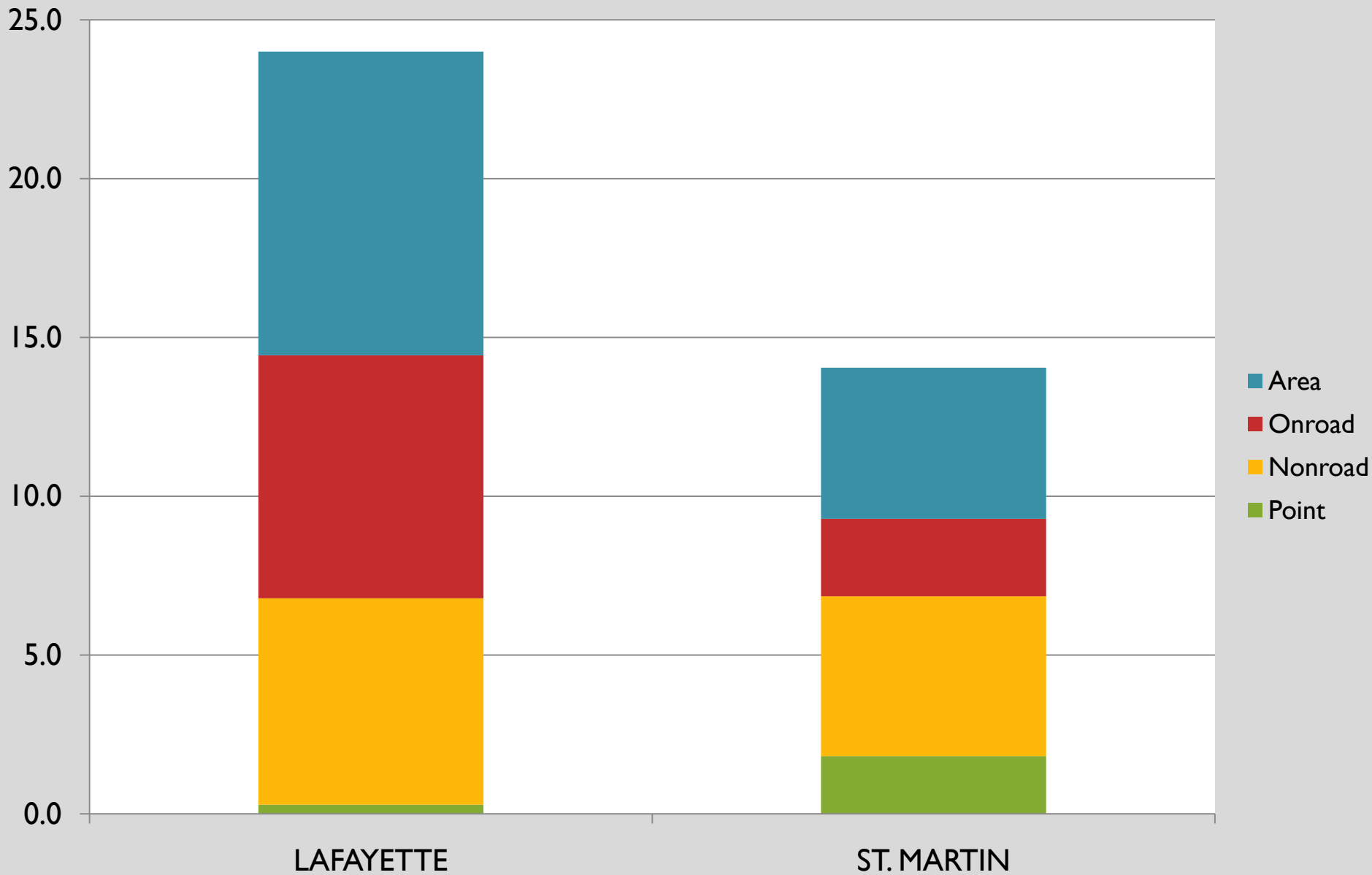


NOX Emissions Summary, Typical 2006

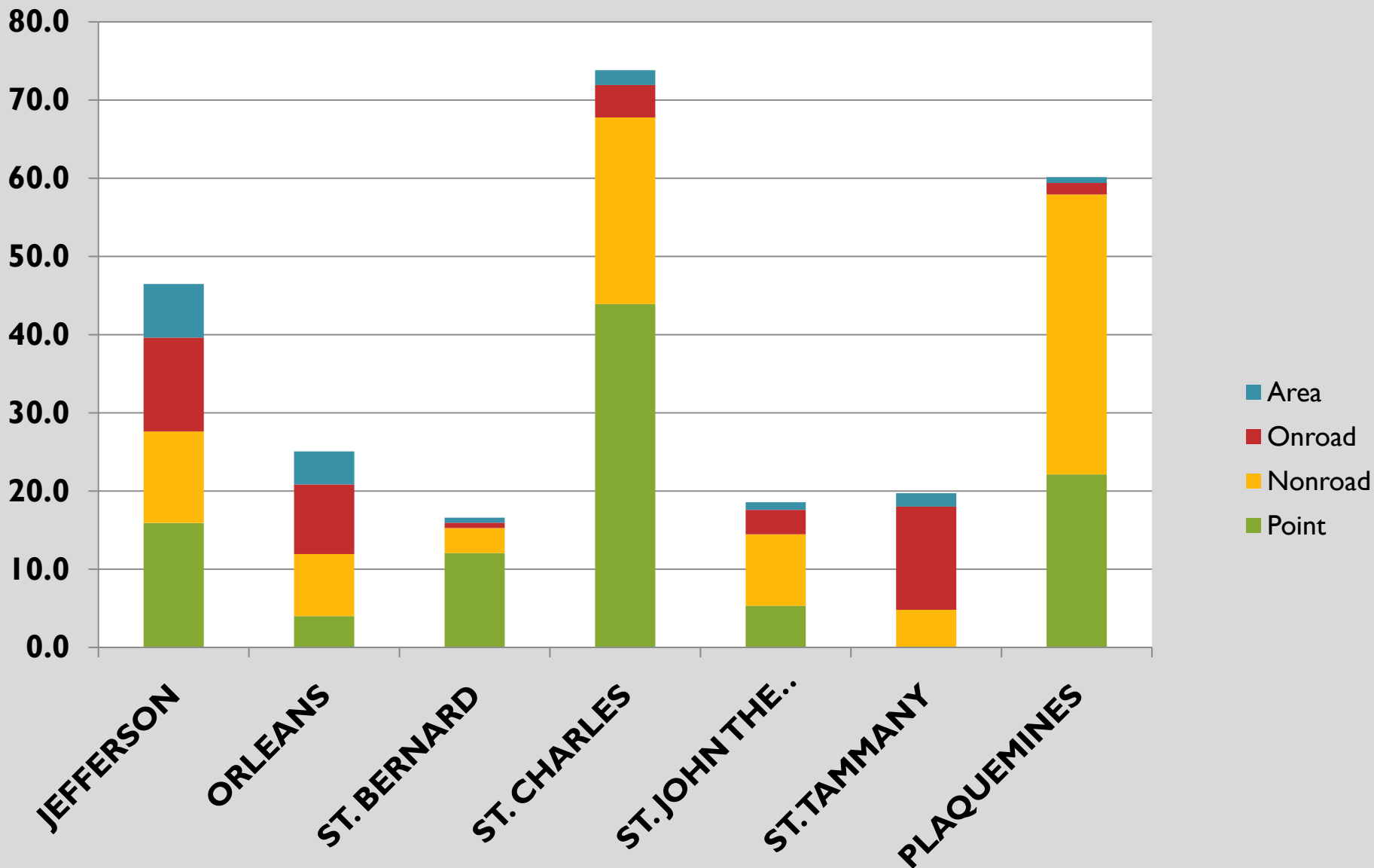
tons/day



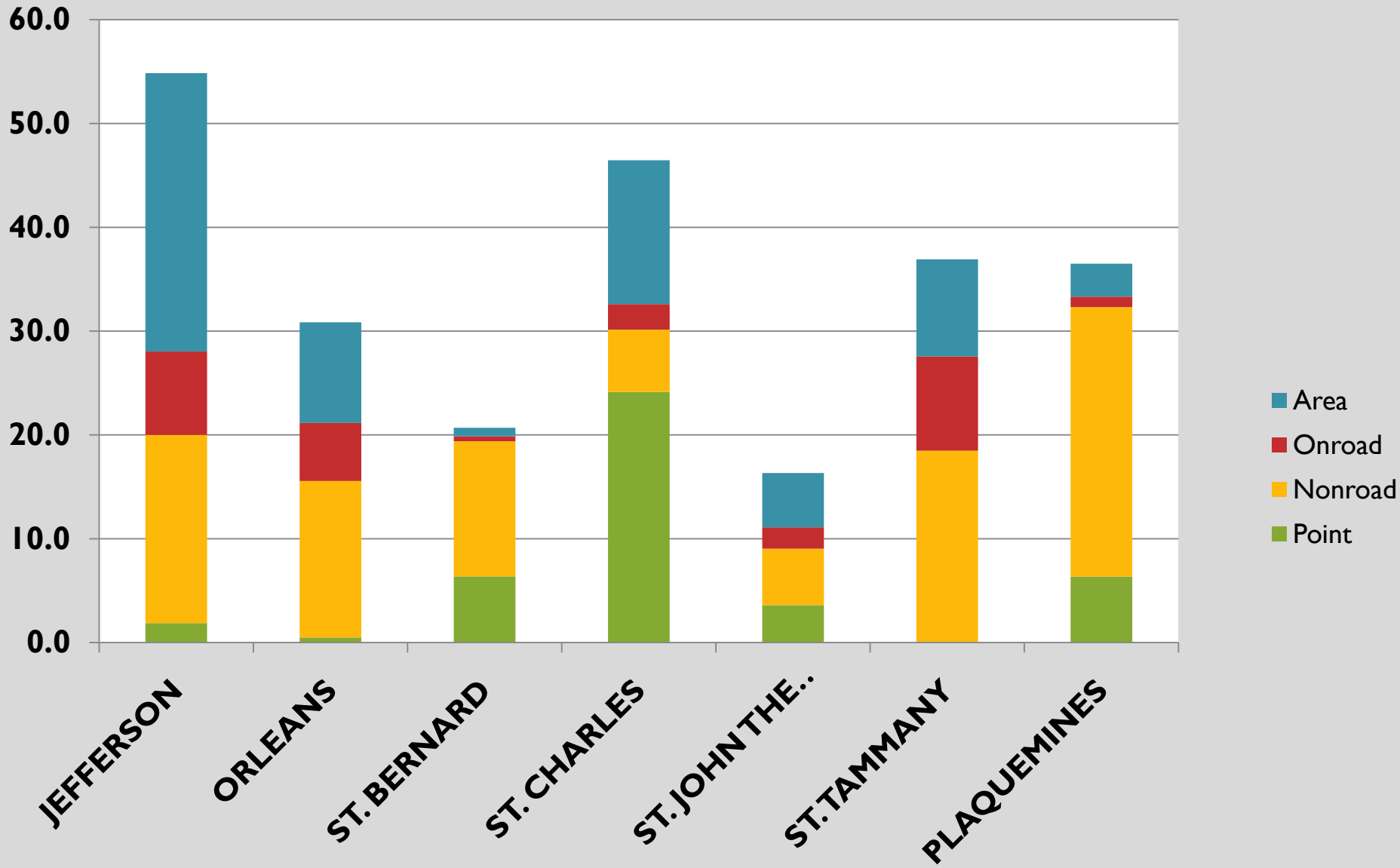
VOC Emissions Summary, 2006 Typical tons/day



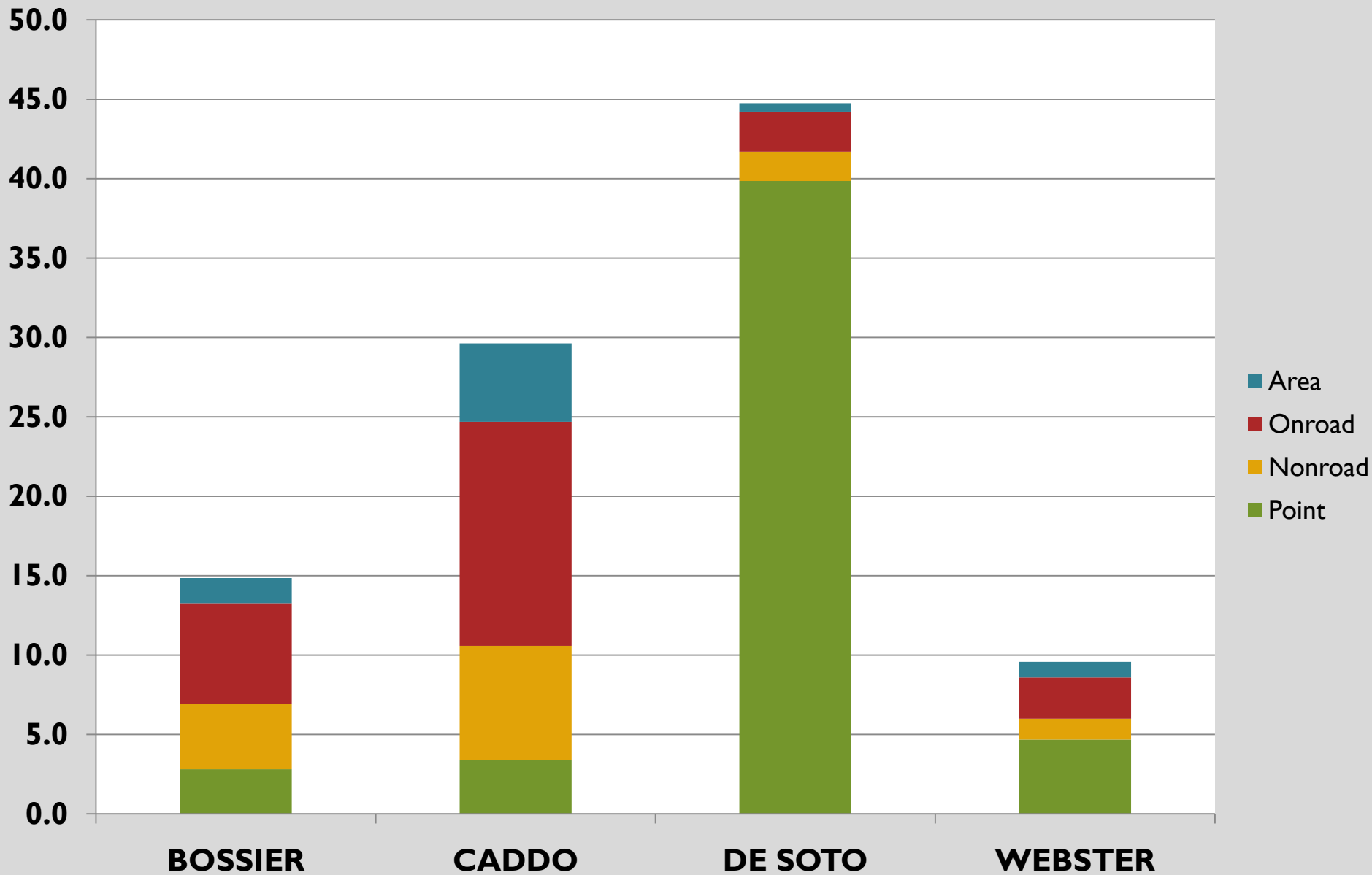
NOX Emissions Summary, 2006 Typical tons/day



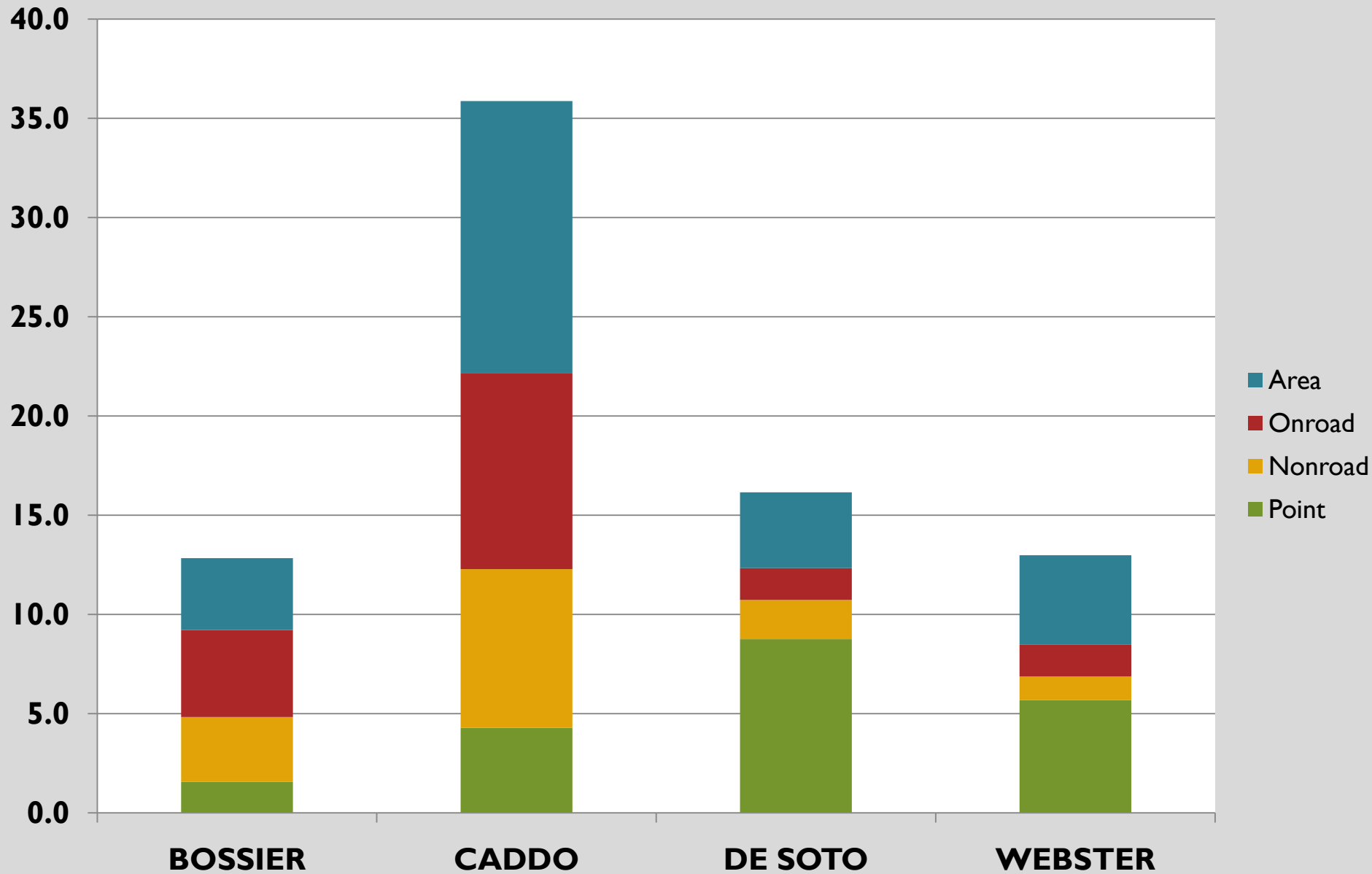
VOC Emissions Summary, 2006 Typical tons/day



NOX Emissions Summary, 2006 Typical tons/day



VOC Emissions Summary, 2006 Typical tons/day

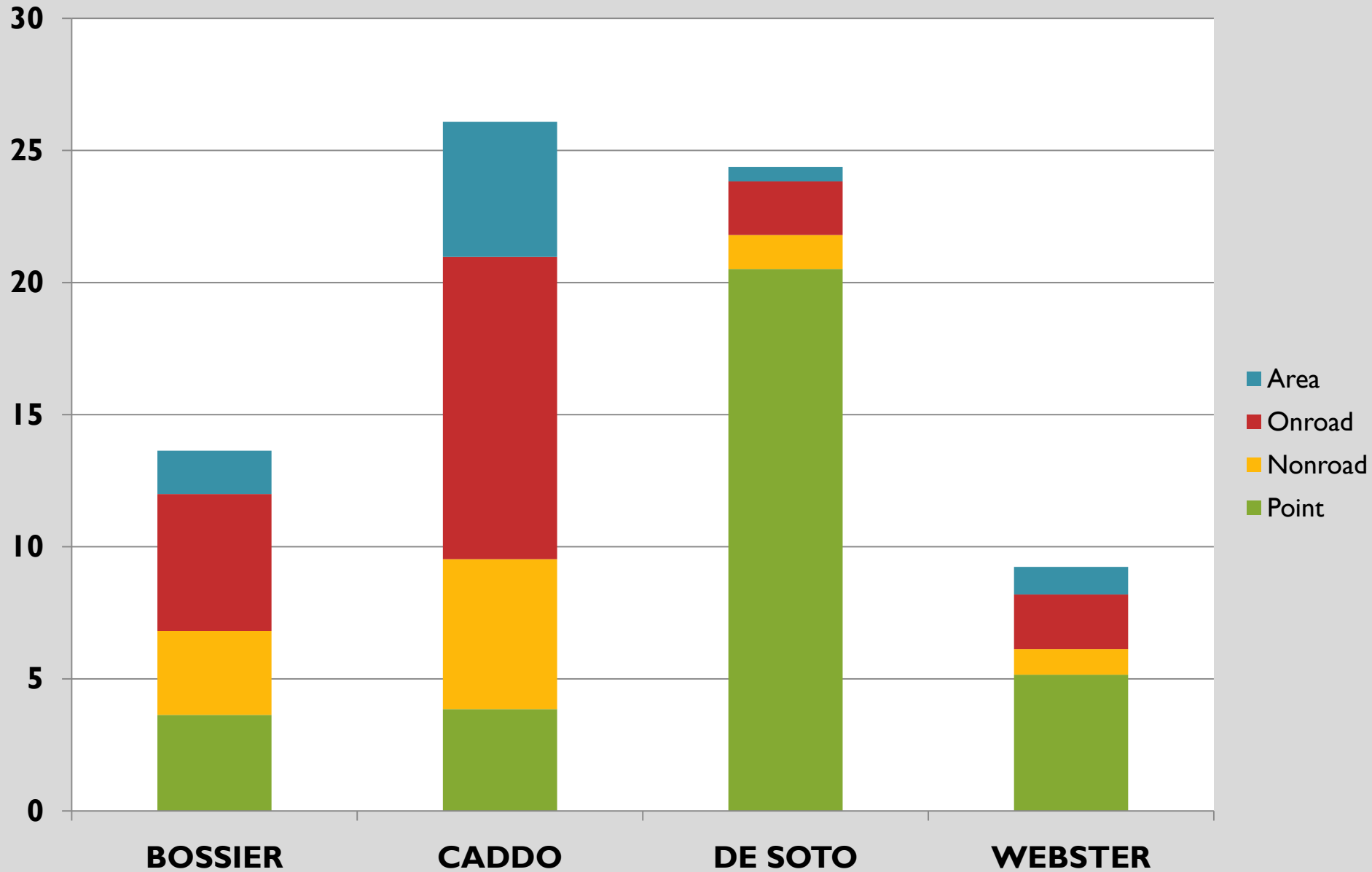


How do we fare in the future?

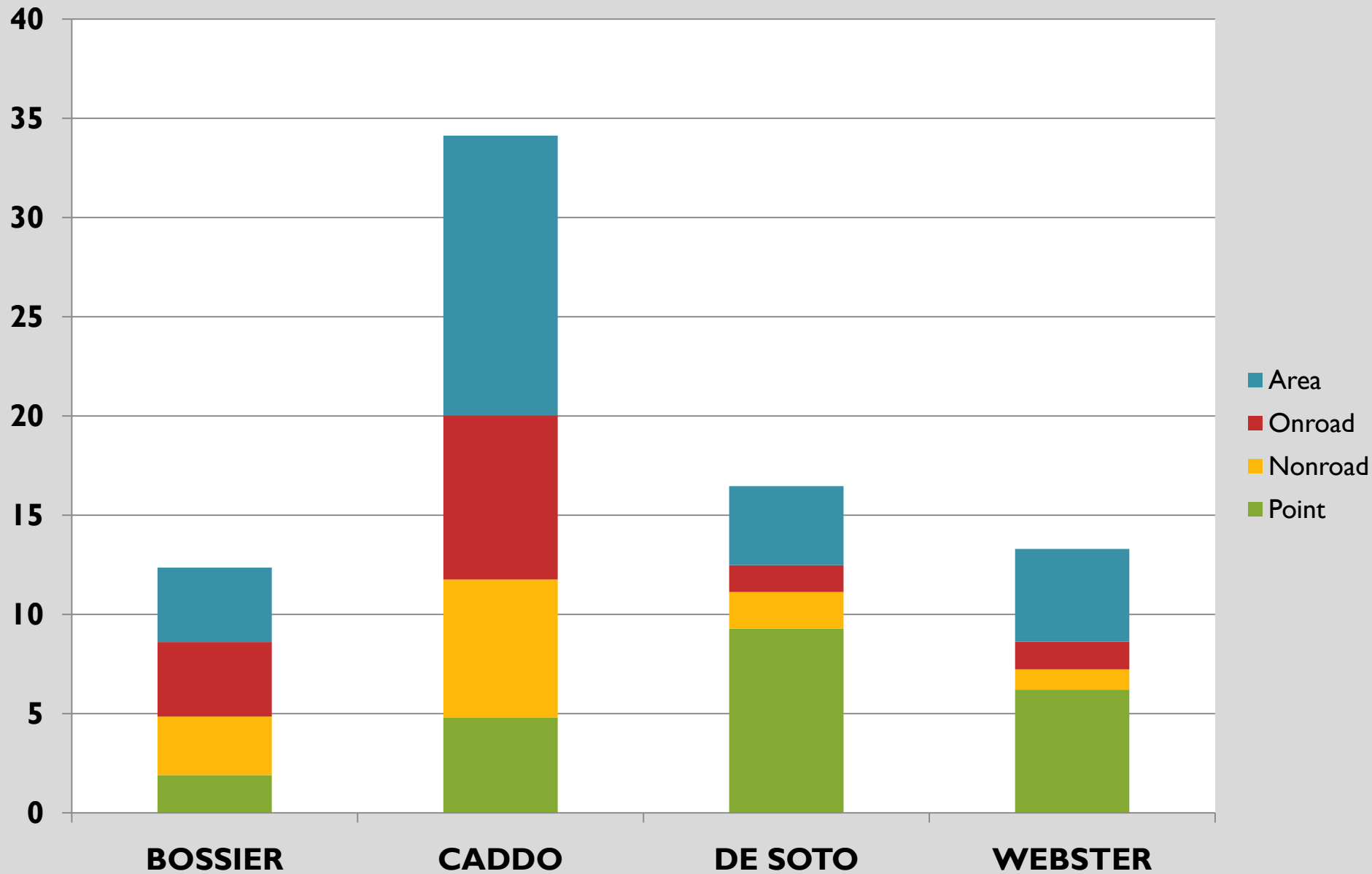


2009 GROWTH EI PROJECTIONS

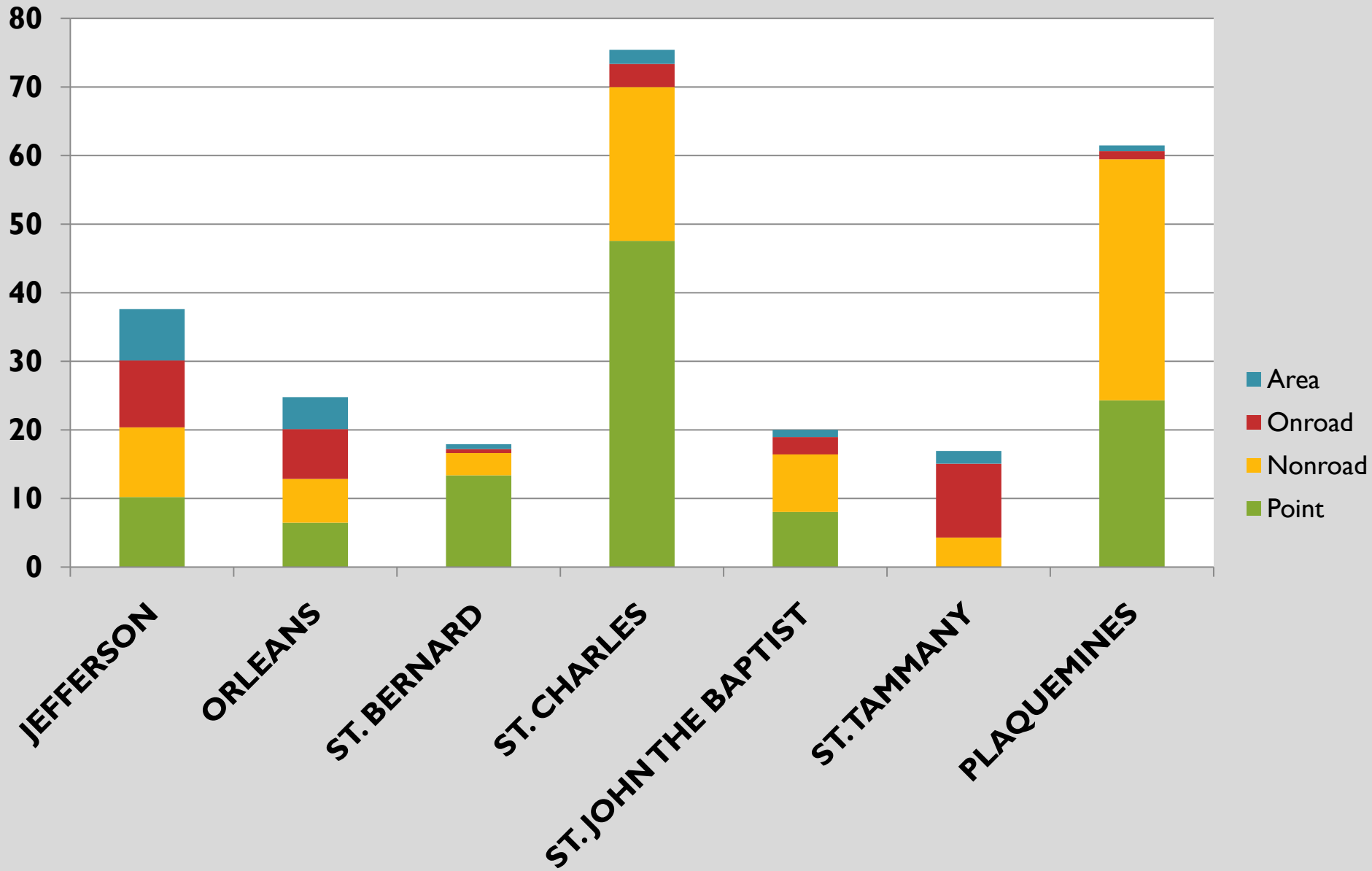
NOX Emissions Summary, 2009 Typical tons/day



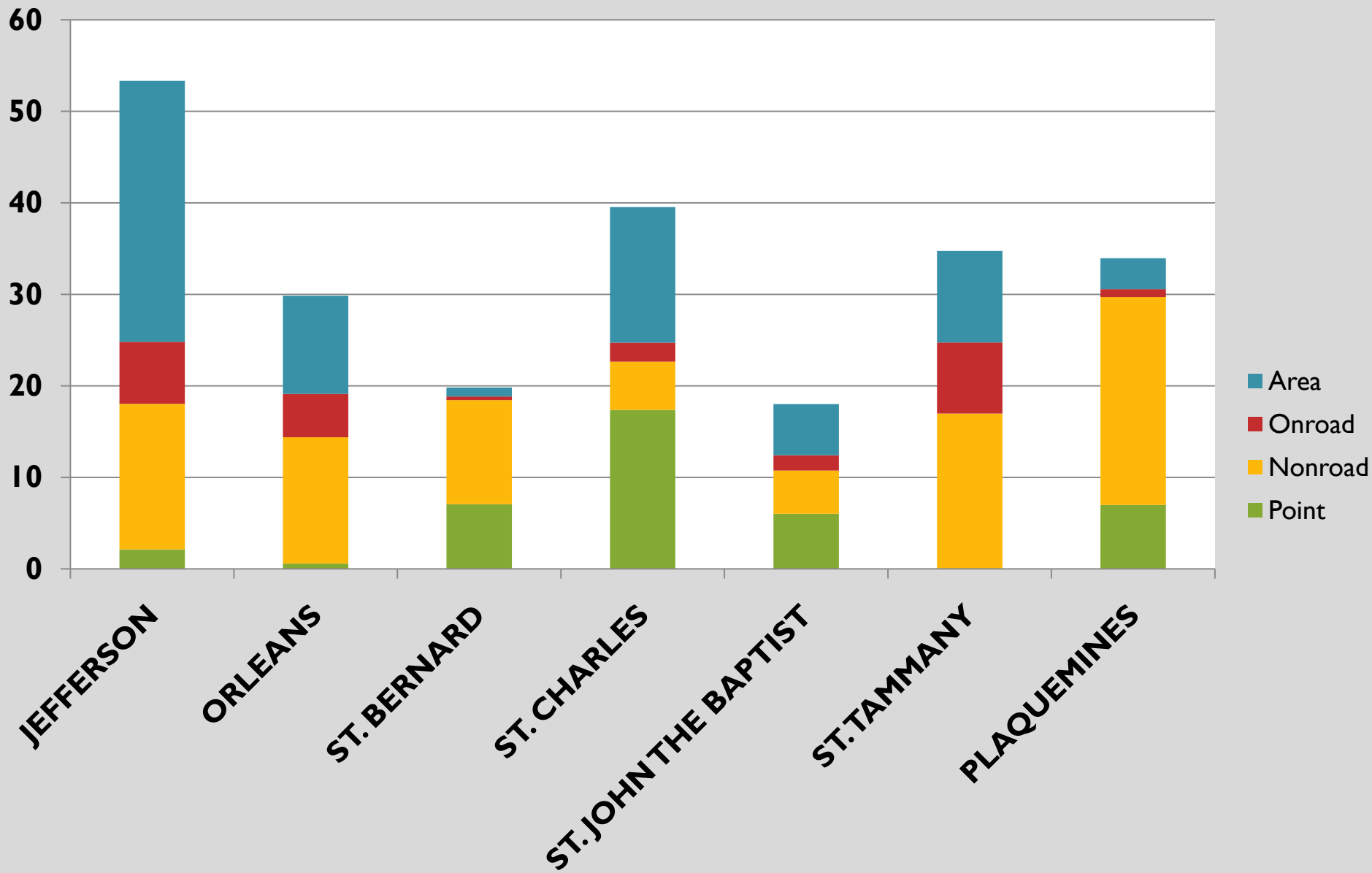
VOC Emissions Summary, 2009 Typical tons/day



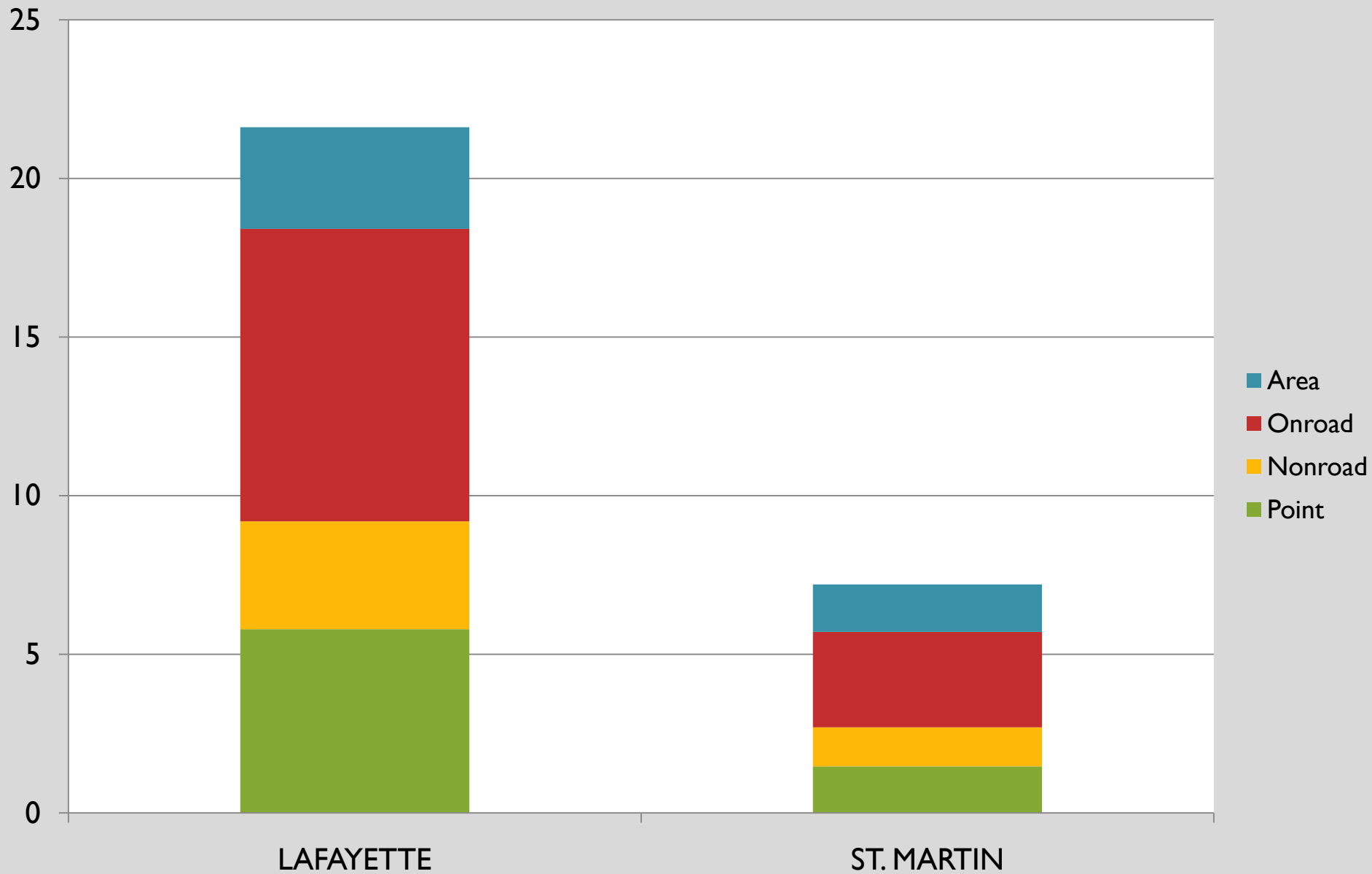
NOX Emissions Summary, 2009 Typical tons/day



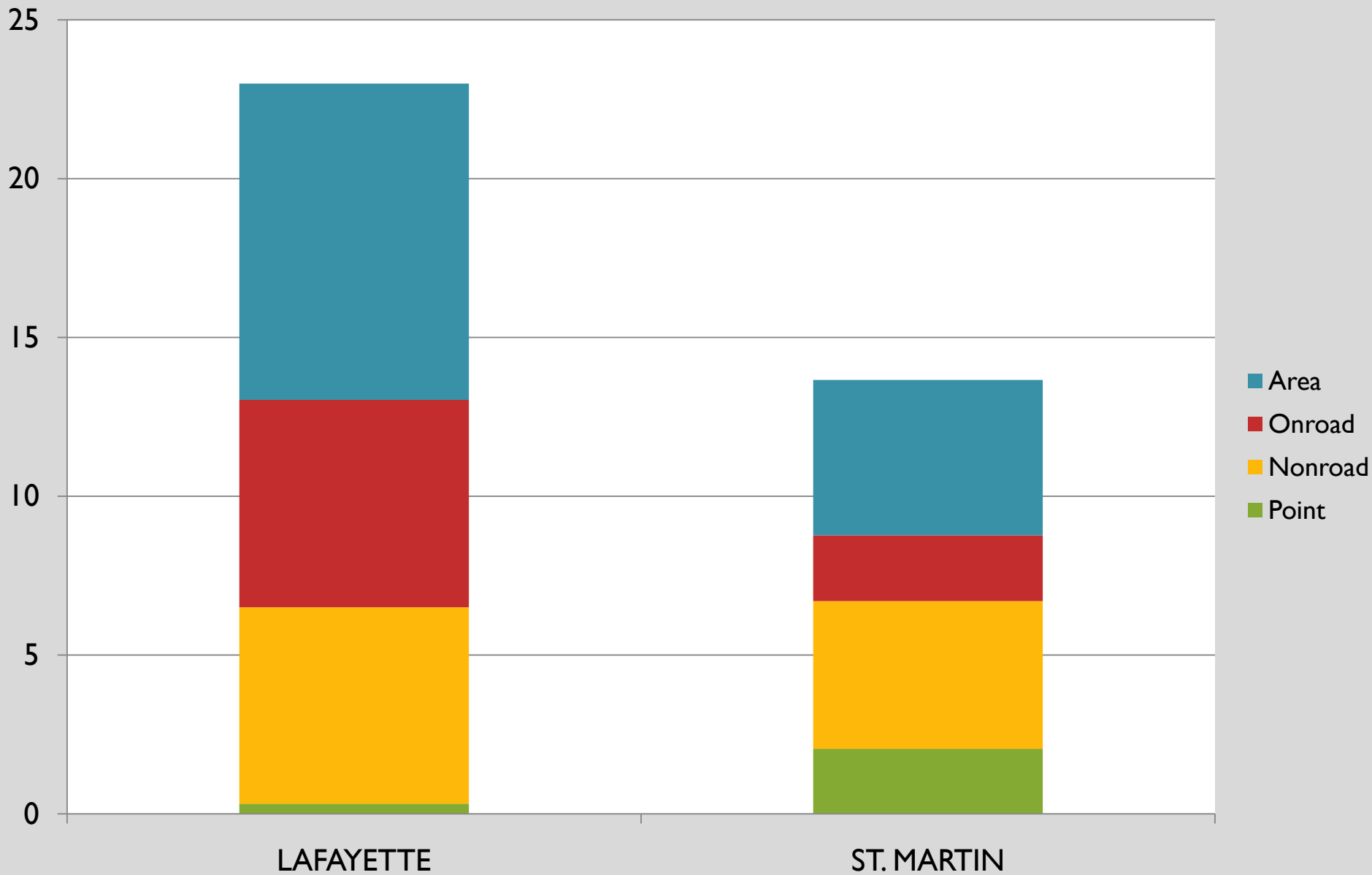
VOC Emissions Summary, 2009 Typical tons/day



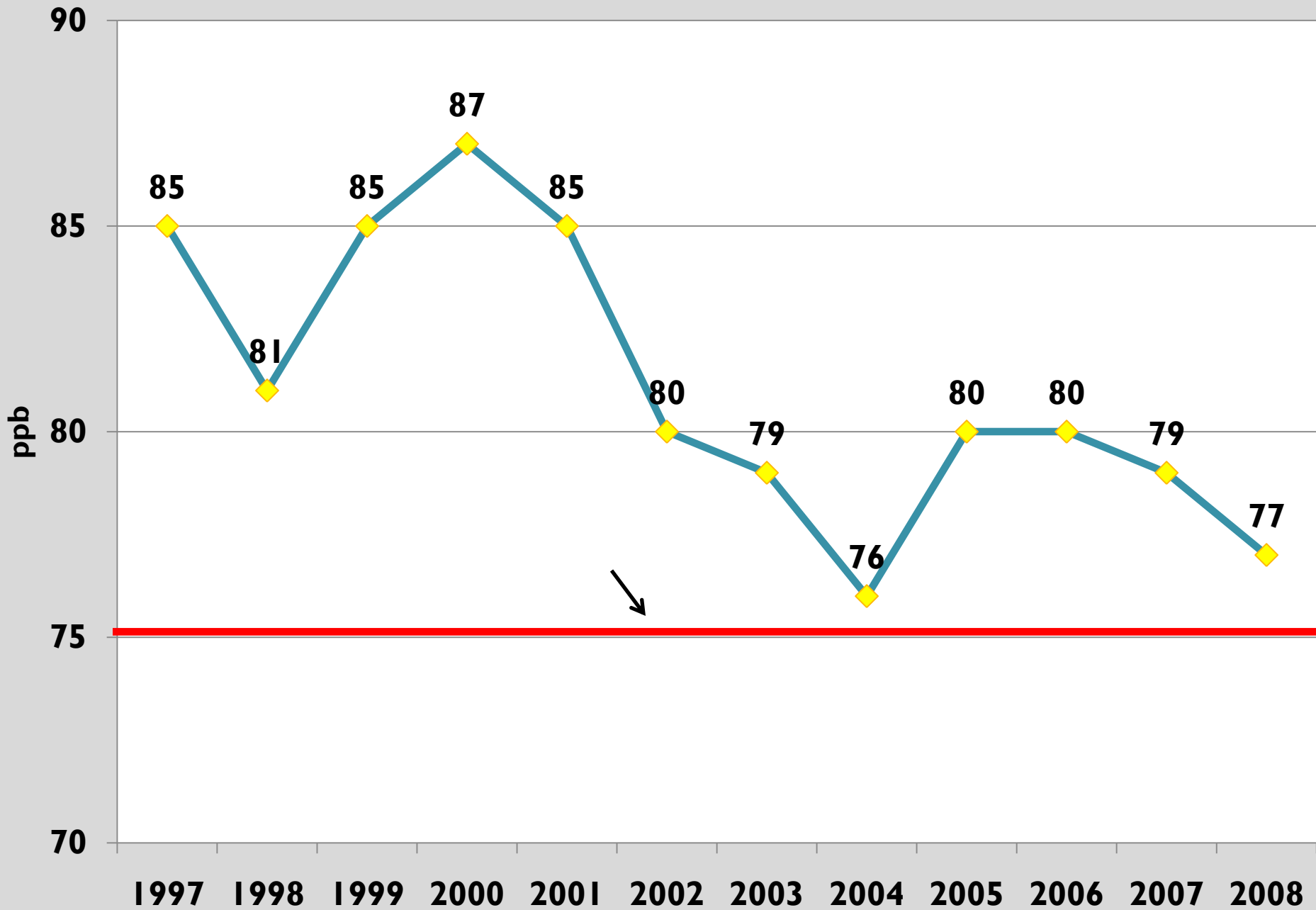
NOX Emissions Summary, 2009 Typical tons/day



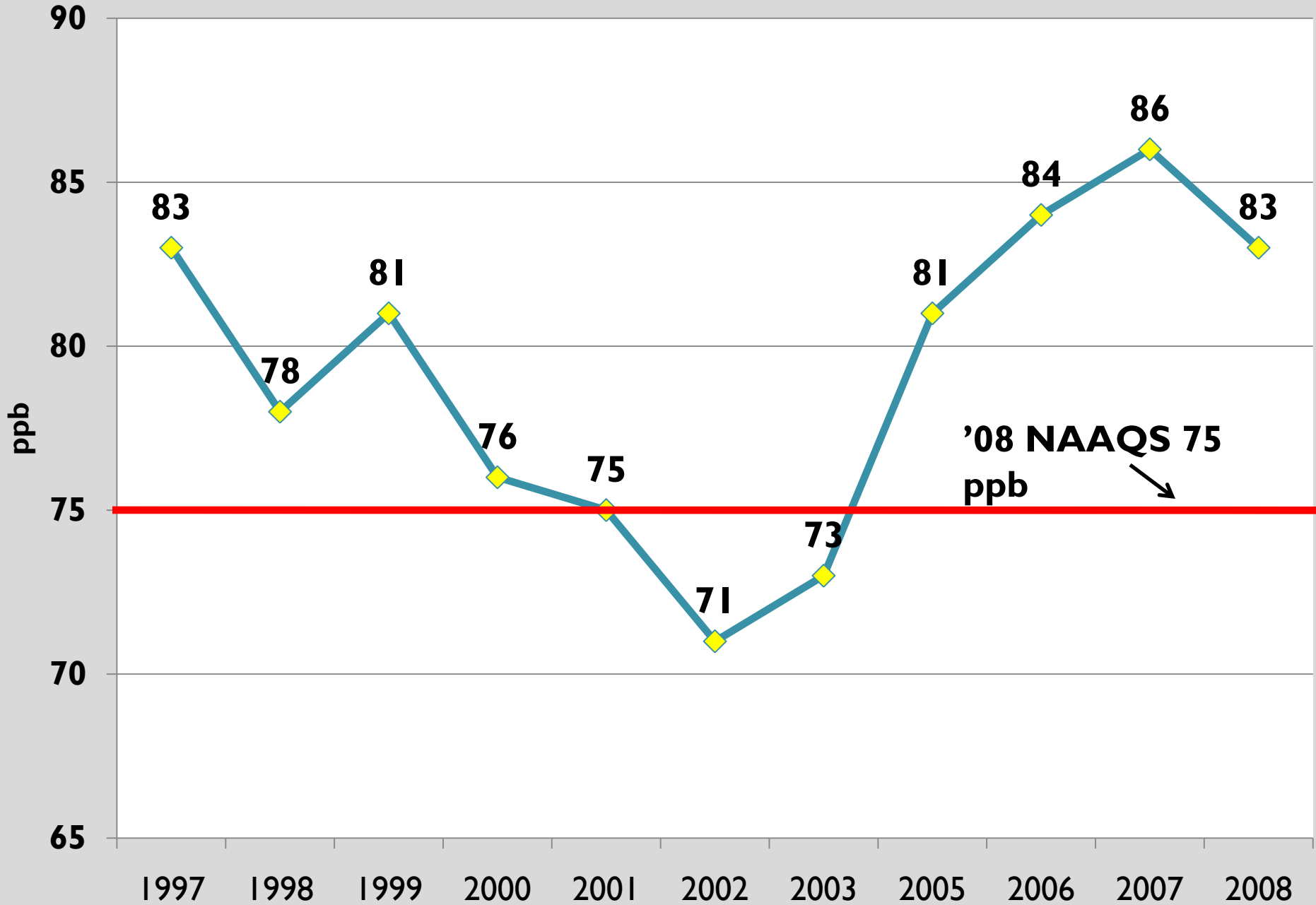
VOC Emissions Summary, 2009 Typical tons/day



Typical Design Value Graph



Atypical Design Value Graph



Trigger Values (Magic Numbers)

- Caddo 84 ppb (2008 4th high 72)
- Jefferson 72 ppb (2008 4th high 70)
- Lafayette 79 ppb (2008 4th high 73)
- Lafourche 78 ppb (2008 4th high 74)
- Point Coupee 70 ppb (2008 4th high 77)
- St. John 75 ppb (2008 4th high 71)

Trigger Value for nonattainment using future 2009 monitoring data is 4th highest

The New Ozone Standard

- How will it affect Louisiana?



Economic Development Impact

- Nonattainment represents a “red flag” in the site selection process for both new facilities and expansions, especially for manufacturing prospects
- Nonattainment involves a more complex, expensive environmental permitting process that can reduce the competitiveness of existing business and industry
- Once in nonattainment, 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.



A photograph of a modern staircase with perforated metal steps and railings. A person is walking up the stairs, their figure blurred. The staircase is set against a brick wall on the right and a light-colored wall on the left. The text "What are the next steps?" is overlaid on the lower part of the stairs.

**What are the
next steps?**

Federal Rules in Progress

- National Refinery Initiative
- Clean Air Interstate 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 (RACT)

- 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 (RACT)

- 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



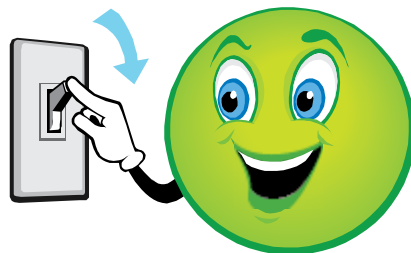
Reduction thru Voluntary Measures

- 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



- Met with stakeholders in recommended nonattainment areas
- Work with EPA on Implementation Rules
- Work through Clean Cities to promote voluntary measures
- Promote Air Quality Awareness
- Use the work from the Baton Rouge Nonattainment Area to help craft the new SIP revisions