

2013 OZONE SEASON

Metro-East
Community Air Forum
October 18, 2013



EAST-WEST GATEWAY
Council of Governments

Creating Solutions Across Jurisdictional Boundaries

Oxygen in the air

strong sunlight

hydrocarbon emissions

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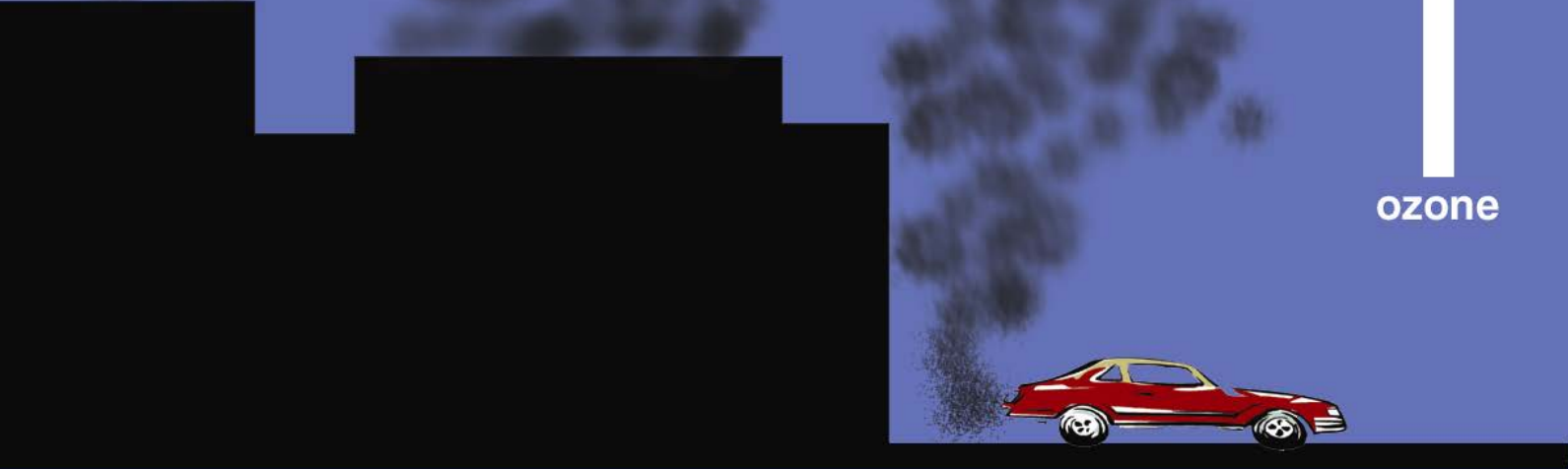
nitrogen oxide emissions

=

smog



ozone

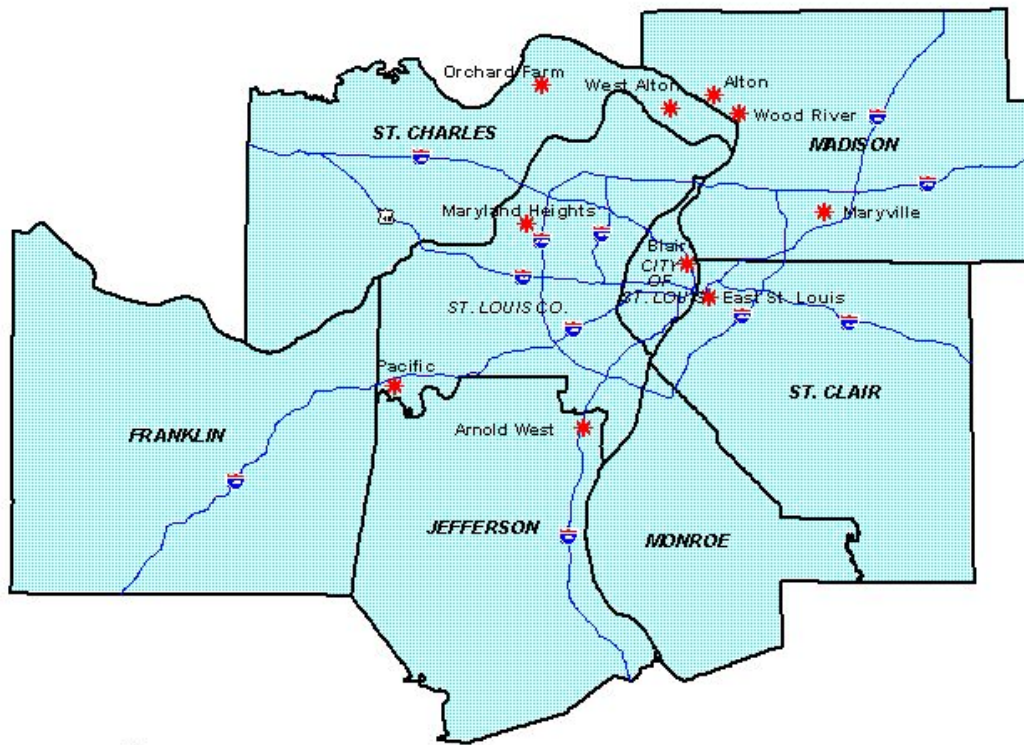


Ozone Data Sharing Project

- Ozone Season - April 1 to October 31
- East-West Gateway acts as a clearinghouse for ozone data
 - 10 monitors in the non-attainment area
- Quality assurance screening
- Prepare reports



Figure 1
St. Louis 2008 8-Hour Ozone Standard Non-Attainment Area
Monitor Network



4 0 4 8 Miles

July 2012



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2008 Ozone Standard

- 75 parts per billion (ppb)
- Exceedance is when an 8-hour average of values is calculated to be > 75 ppb on any given day
- Violation is when a 3-year average of the 4th highest annual average is calculated to be > 75 ppb



2013 Ozone Season Vs. 2012

2013

- 7 ozone days
- 15 exceedances

2012

- 40 ozone days
- 170 exceedances



1999-2013 Exceedances 2008 8-Hour Ozone Standard



Summer Weather Facts

Days with Temperatures	Year		Average Number of Days per Year
	2012	2013	
90° or greater	60	37	36
100° or greater	21	2	2



Compliance with Ozone Standard

- Based on 2011-2013 monitor data
- 1997 Standard – All monitors
- 2008 Standard – Pacific and East St. Louis monitors only



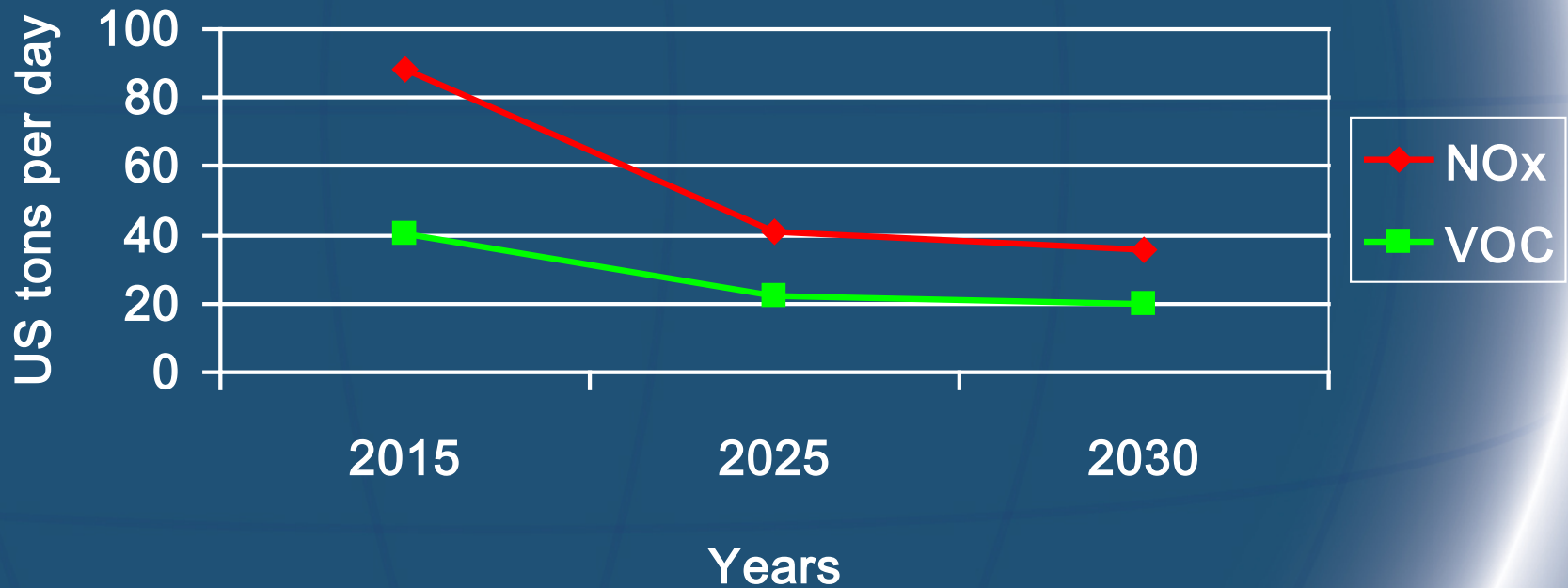
What Happens Next?

- Moderate to Marginal
- Attainment in 2015
- Implementation guidance
- Data verification

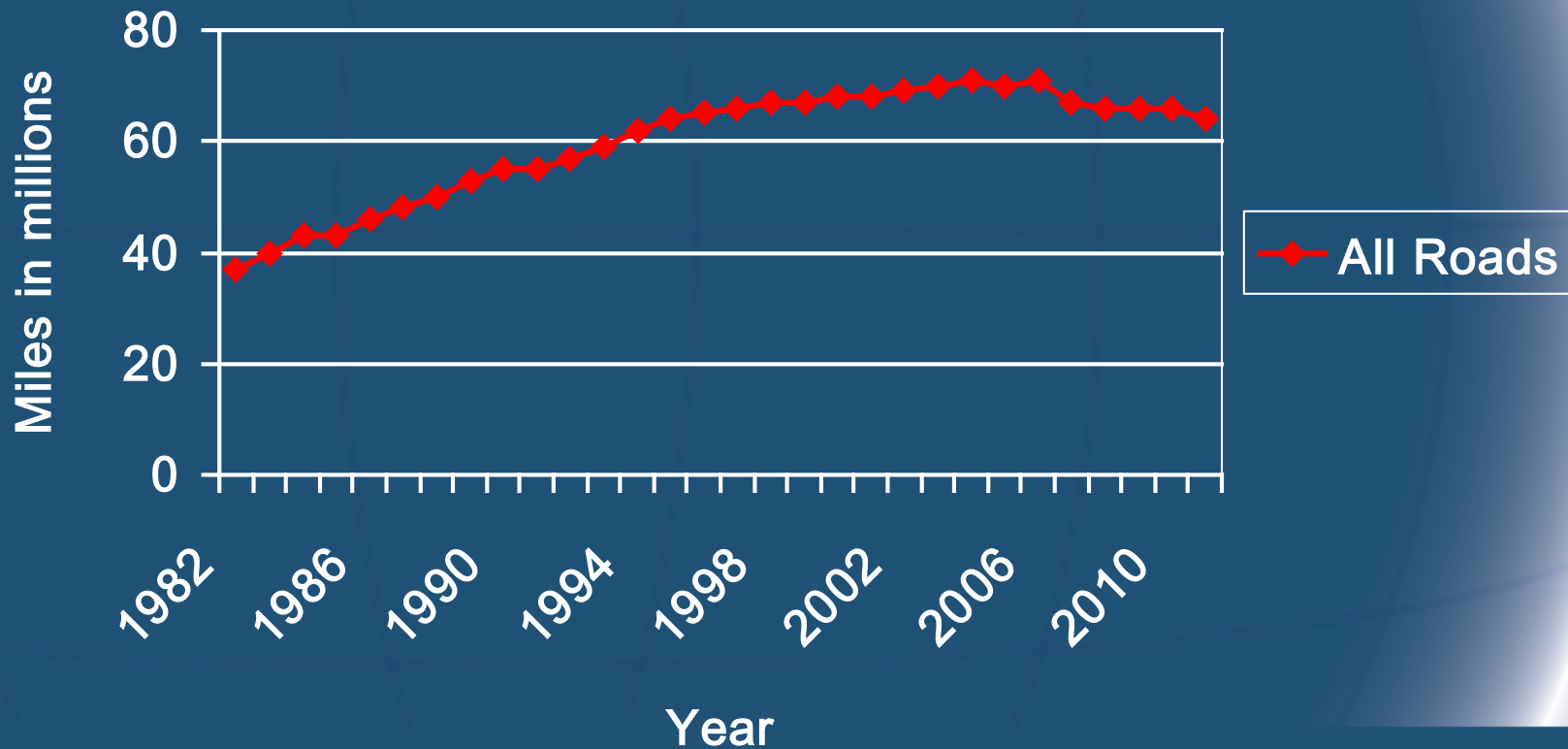


Mobile Sources

Projected Vehicle Emissions



Daily Vehicle Miles Traveled (VMT) St. Louis Region 1982 - 2011

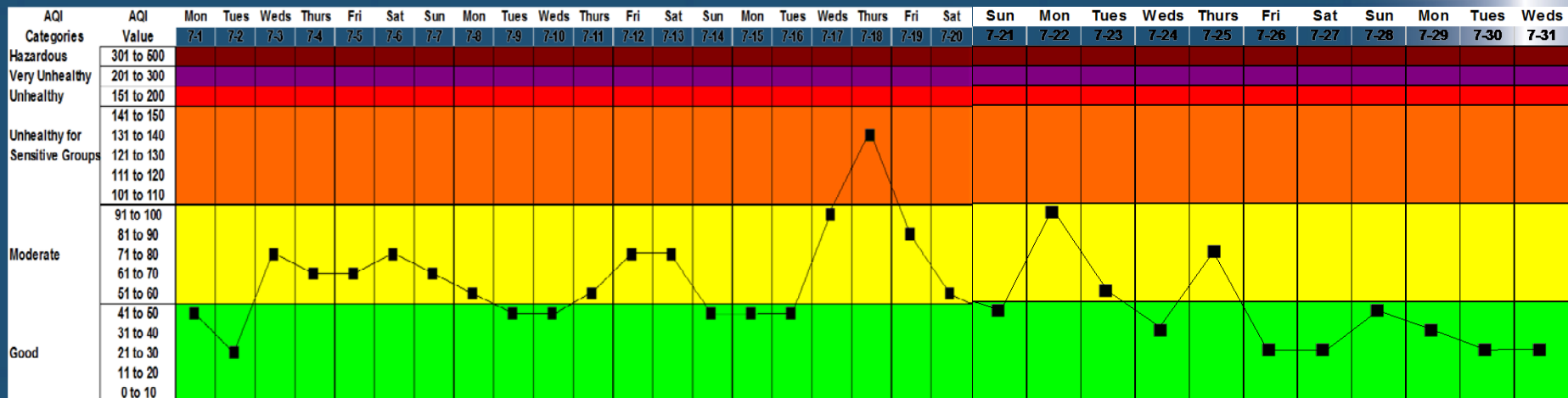


For Additional Information

- On-line Air Quality Resource Center

www.ewgateway.org/environment/aq/aq.htm

July 2013 AQI Calendar



Then and Now



October 28, 1938 looking east along
Pine from 200 block of N. Tucker
St. Louis Post-Dispatch



October 16, 2013 looking east from
SSM St. Mary's Health Center
MDNR Visual Air Pollution Camera