



2012 OZONE SEASON

**Metro-East
Community Air Forum
November 2, 2012**



EAST-WEST GATEWAY
Council of Governments

Creating Solutions Across Jurisdictional Boundaries

Oxygen in the air

strong
sunlight

hydrocarbon
emissions

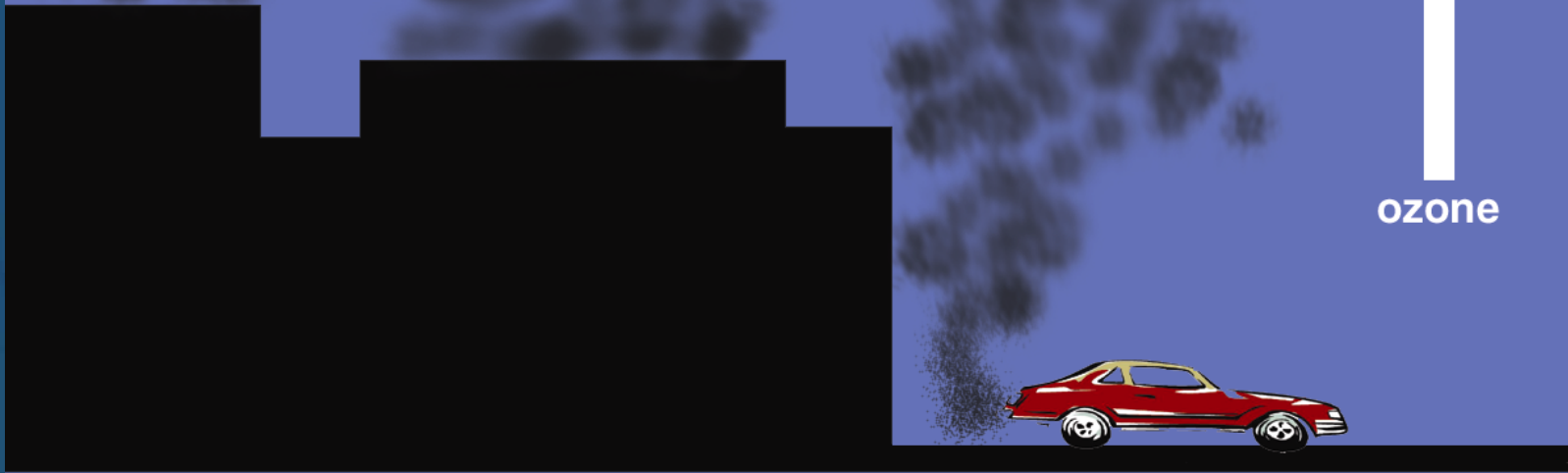
+

nitrogen oxide
emissions

=

smog

↑
ozone

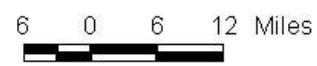
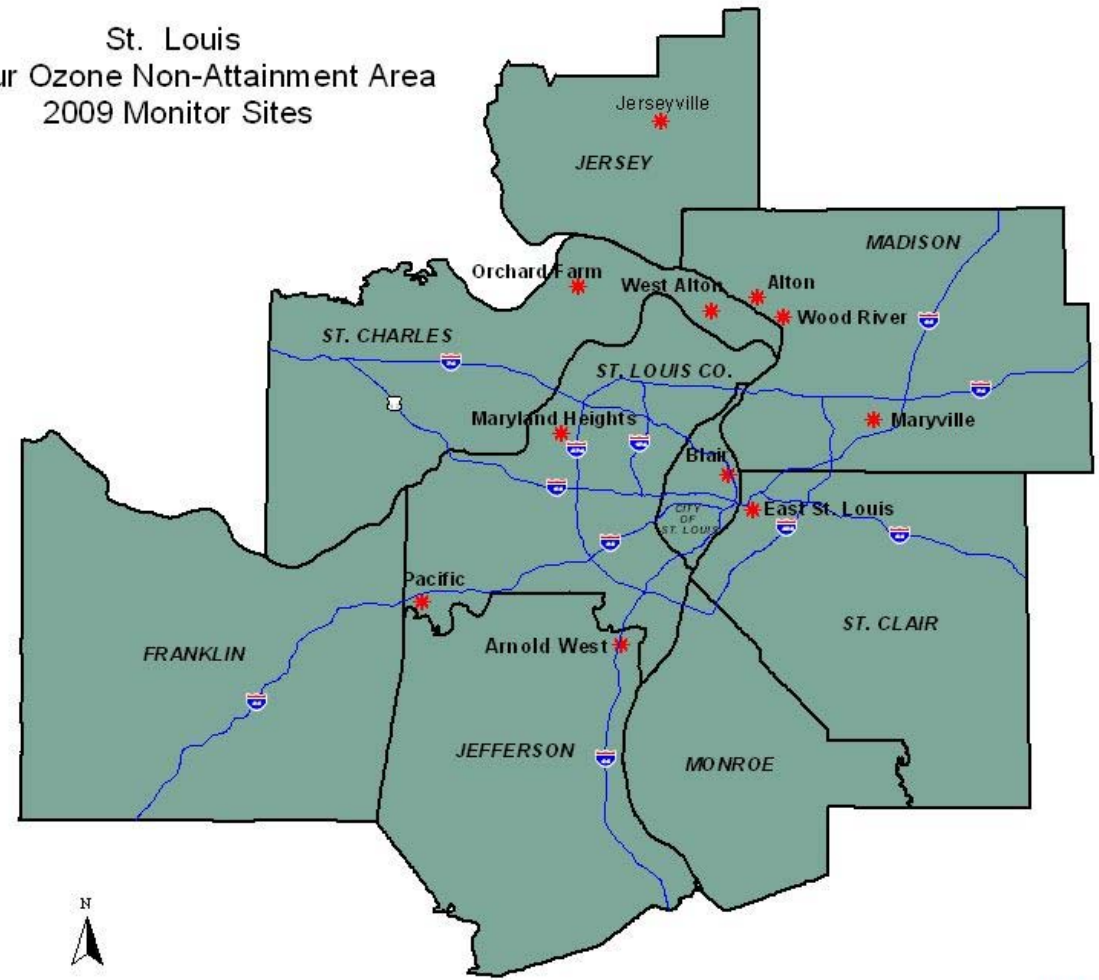


Ozone Data Sharing Project

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



St. Louis
8-Hour Ozone Non-Attainment Area
2009 Monitor Sites



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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



2012 Ozone Season

- 170 Exceedances
- 40 Ozone Days
 - 3 in May
 - 10 in June
 - 16 in July
 - 11 in August

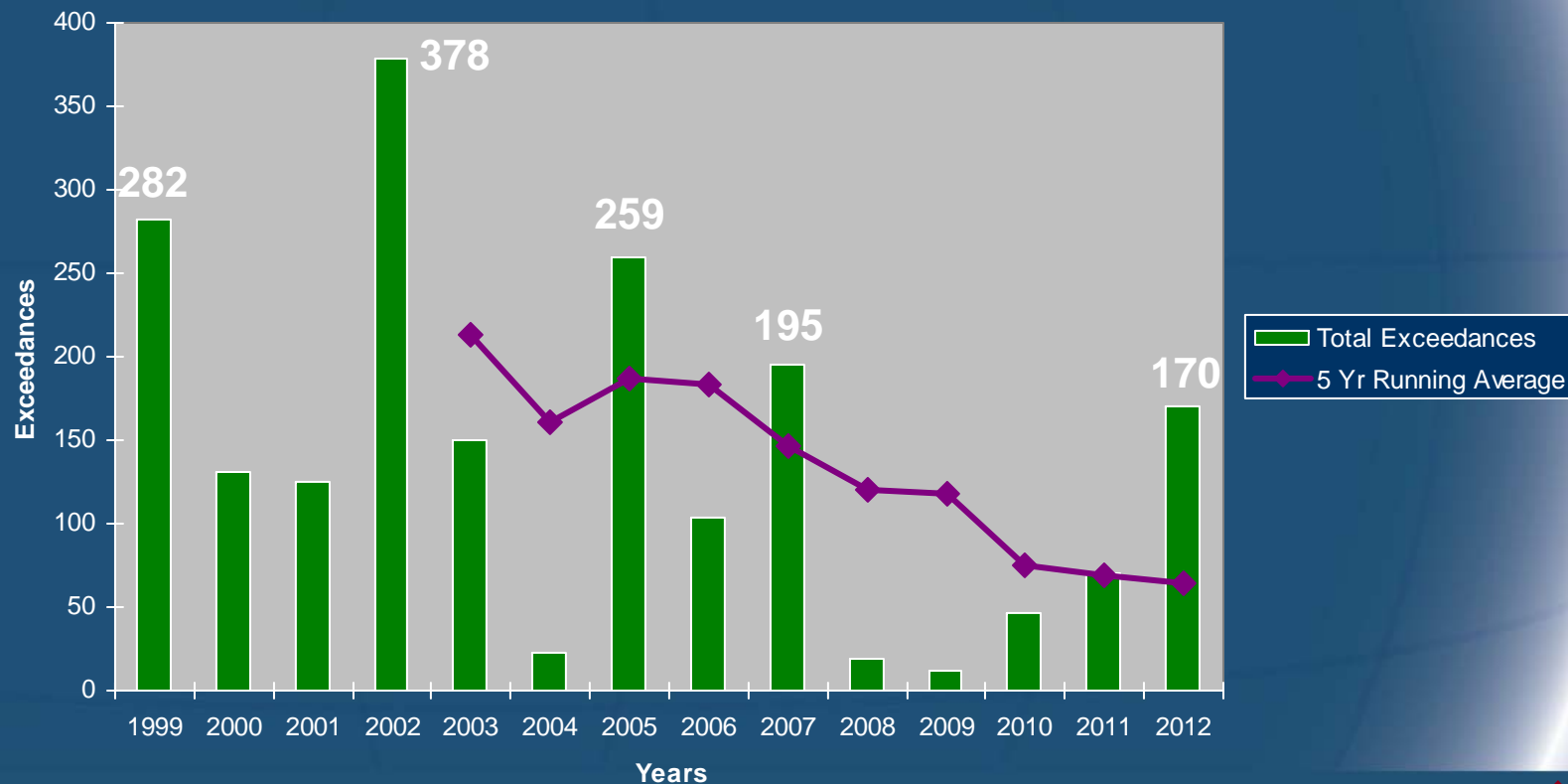


2012 Exceedances by Monitor

- Arnold West – 16
- West Alton – 22
- Orchard Farm – 11
- Maryland Hts – 23
- Pacific – 13
- Blair St (City) - 15
- Wood River – 17
- Maryville – 14
- Alton – 10
- East St. Louis – 15
- Jerseyville - 14



1999-2012 Exceedances 2008 8-Hour Ozone Standard



How Hot Was It?

- 4th warmest summer on record (1901, 1936, 1934)
- 21 days of 100° or higher
- 11 days of 105° or higher (new record)
- 60 days of 90° or higher



What Happens Next?

- Moderate to Marginal
- Violation of 1997 standard
- EPA guidance
- Data verification
- Sanctions



Violation of 1997 Standard

Occurs when the 3-year average of the 4th highest annual average is calculated to be ≥ 85 ppb.

Monitor	4 th Highest Average by Year			3-Year Average
	2010	2011	2012	
West Alton	83	84	92	86

Still to be verified by USEPA



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