

2014 OZONE SEASON

St. Louis Area
Monitoring Agencies
May 5, 2015



EAST-WEST GATEWAY
Council of Governments

Creating Solutions Across Jurisdictional Boundaries

Ozone Data Sharing Project

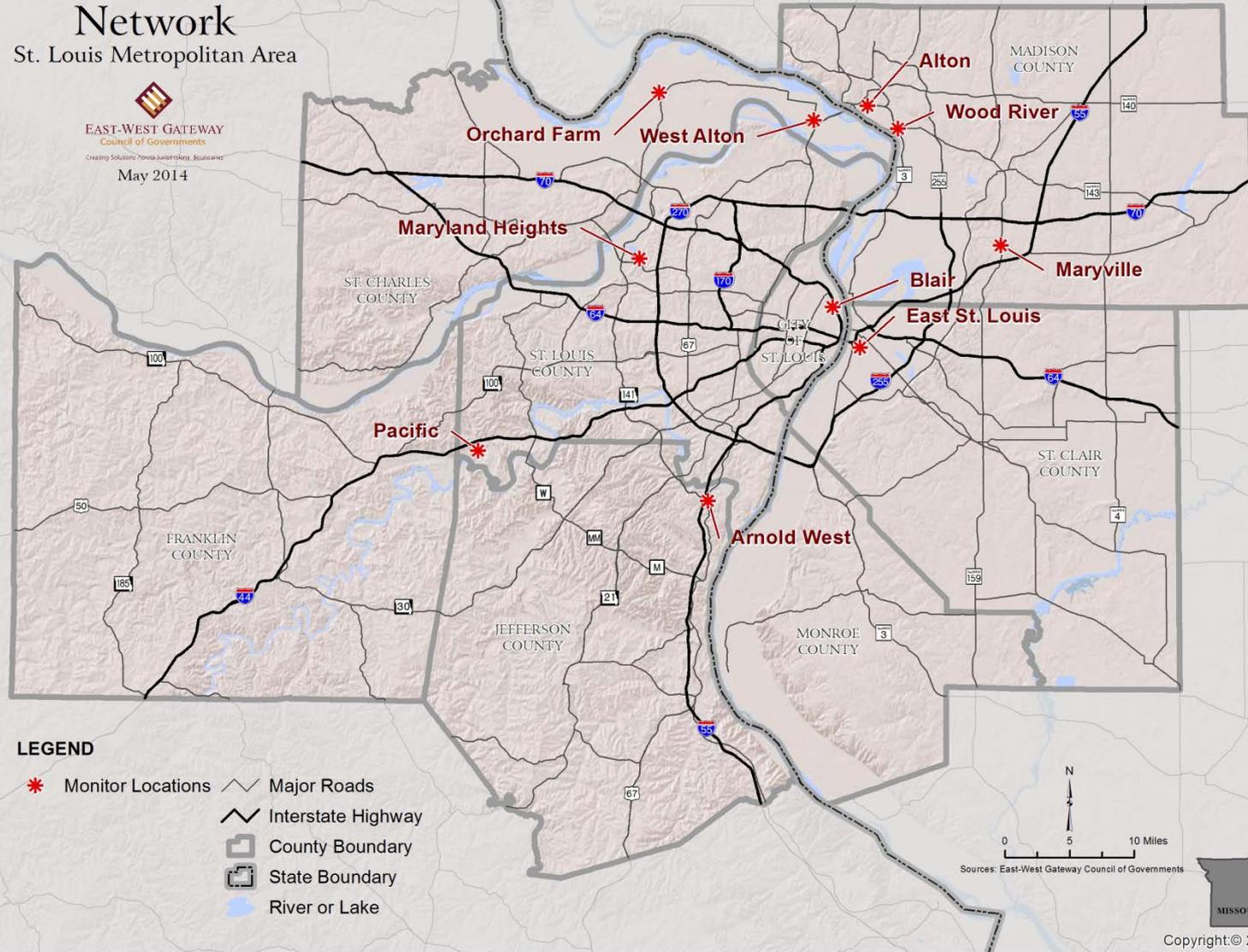
- Ozone Season - April 1 to October 31
- East-West Gateway acts as a clearinghouse for ozone data
- Initial quality assurance screening
- Prepare reports



Ozone Monitor Network

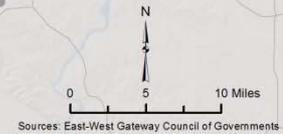
St. Louis Metropolitan Area


EAST-WEST GATEWAY
Council of Governments
Creating Solutions For our Jurisdictions. Boundaries:
May 2014



LEGEND

- * Monitor Locations
- Major Roads
- Interstate Highway
- County Boundary
- State Boundary
- River or Lake



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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 3-year average of 4th highest annual average is calculated to be > 75 ppb



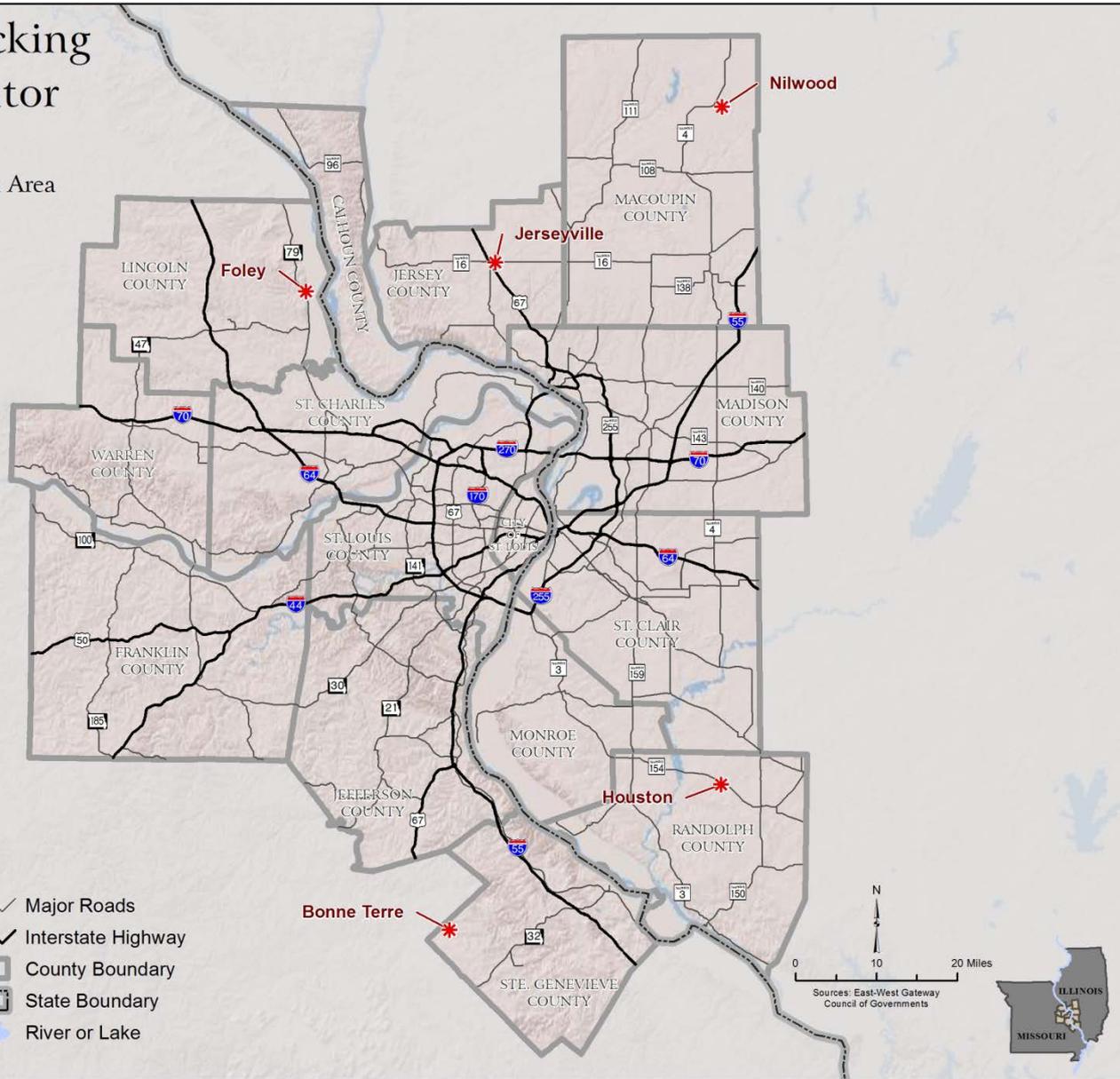
2014 Ozone Season

- 2 Ozone Days and 4 Exceedances
- August 4
 - West Alton - 78 ppb
 - Alton - 80 ppb
 - Wood River - 77 ppb
- September 28
 - Arnold West - 76 ppb



Transport Tracking Ozone Monitor Network

St. Louis Metropolitan Area



2014 Ozone Season Transport/Tracking Monitors

- 1 Ozone Day and 1 Exceedance
- September 30
 - Houston IL – 77 ppb

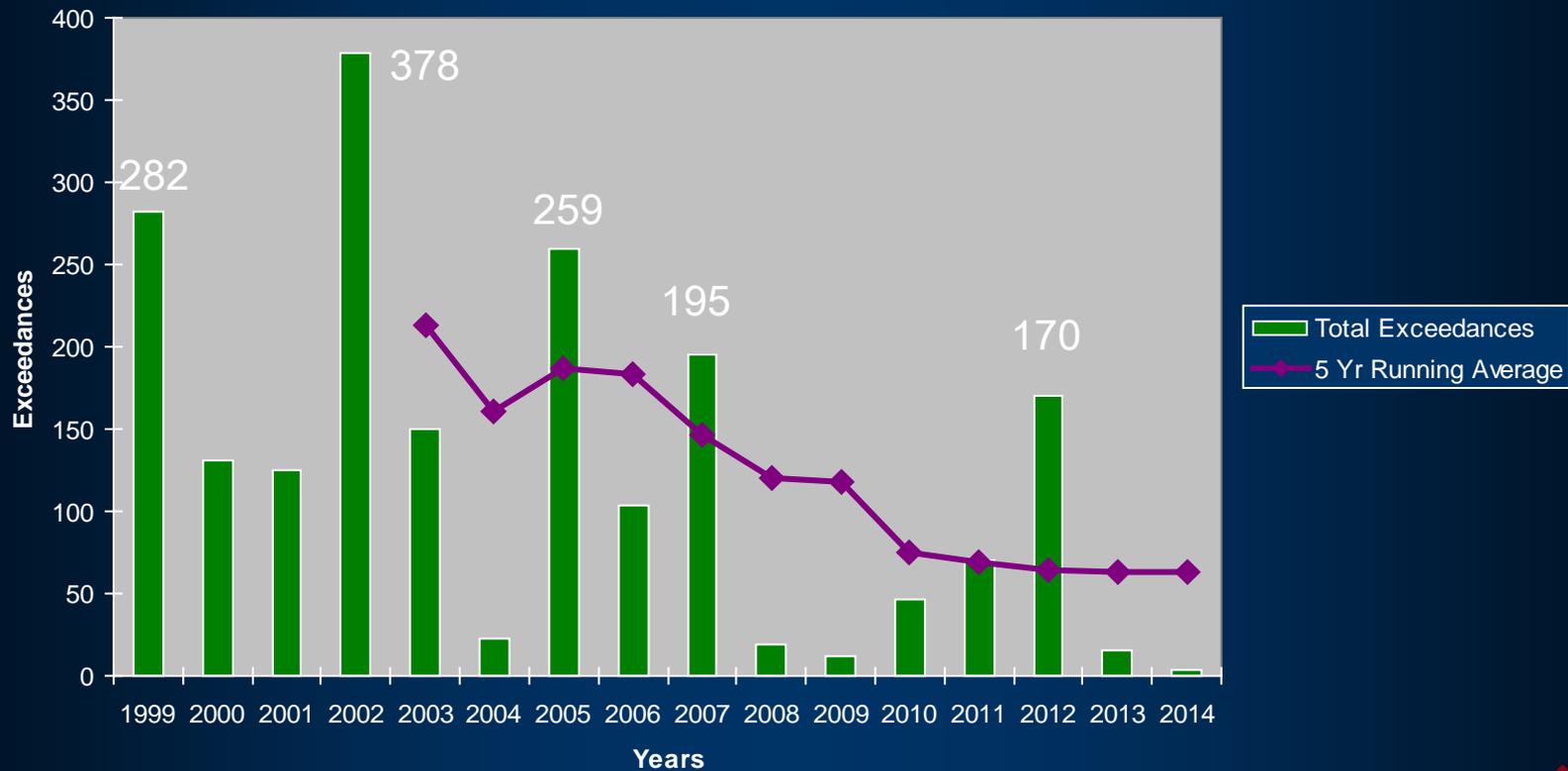


Summer Weather Facts

Days with Temperatures	Years			Average Number of Days per Year
	2012	2013	2014	
90° or greater	60	37	34	36
100° or greater	21	2	1	2

National Weather Service

1999 -2014 Exceedances 2008 8-Hour Ozone standard



Days with Incomplete Data By Monitor

- Four or more hours with no values recorded at a monitor
- Incomplete does not always mean unmonitored
- Causes - equipment malfunction, power outage



Products

- Tables
 - 1-hour ozone values by monitor by day
 - Days with 8-hour exceedances
 - 4 highest 8-hour averages by monitor
 - Days with incomplete data
- East-West Gateway website
 - Maximum 8-hour values by monitor
 - AQI Calendar



April 1 – October 31, 2014

4 Highest 8-Hour Averages

Monitor	1 st High	2 nd High	3 rd High	4 th High
Arnold West	76	74	73	72
West Alton	78	75	73	72
Orchard Farm	74	73	73	72
Maryland Hgts	75	73	72	72
Pacific	67	66	66	65
Blair St.	71	69	67	66
Wood River	77	73	72	70
Maryville	75	75	71	70
Alton	80	74	74	72
East St. Louis	74	69	67	67

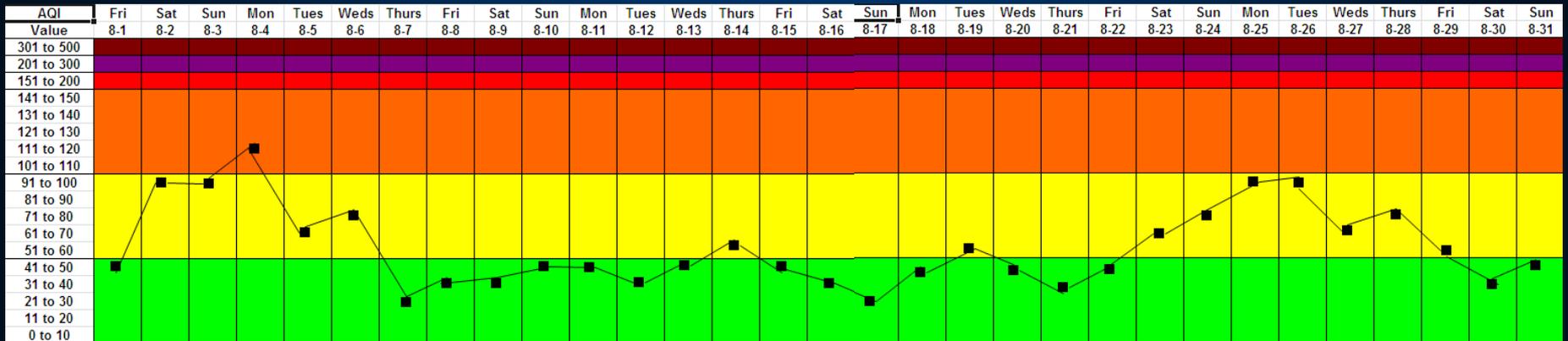


For Additional Information

On-line Air Quality Resource Center

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

August 2014 AQI Calendar



Then and Now



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



April 29, 2015 looking east from
SSM St. Mary's Health Center
MDNR Visual Air Pollution Camera