

The background of the slide is a photograph of the St. Louis Gateway Arch at sunset. The arch is silhouetted against a dark blue sky, with the sun low on the horizon to the right, creating a bright glow and lens flare. The overall mood is serene and atmospheric.

2015 OZONE SEASON

St. Louis Area
Monitoring Agencies
May 17, 2016



EAST-WEST GATEWAY
Council of Governments

Creating Solutions Across Jurisdictional Boundaries

Ozone Data Sharing Project

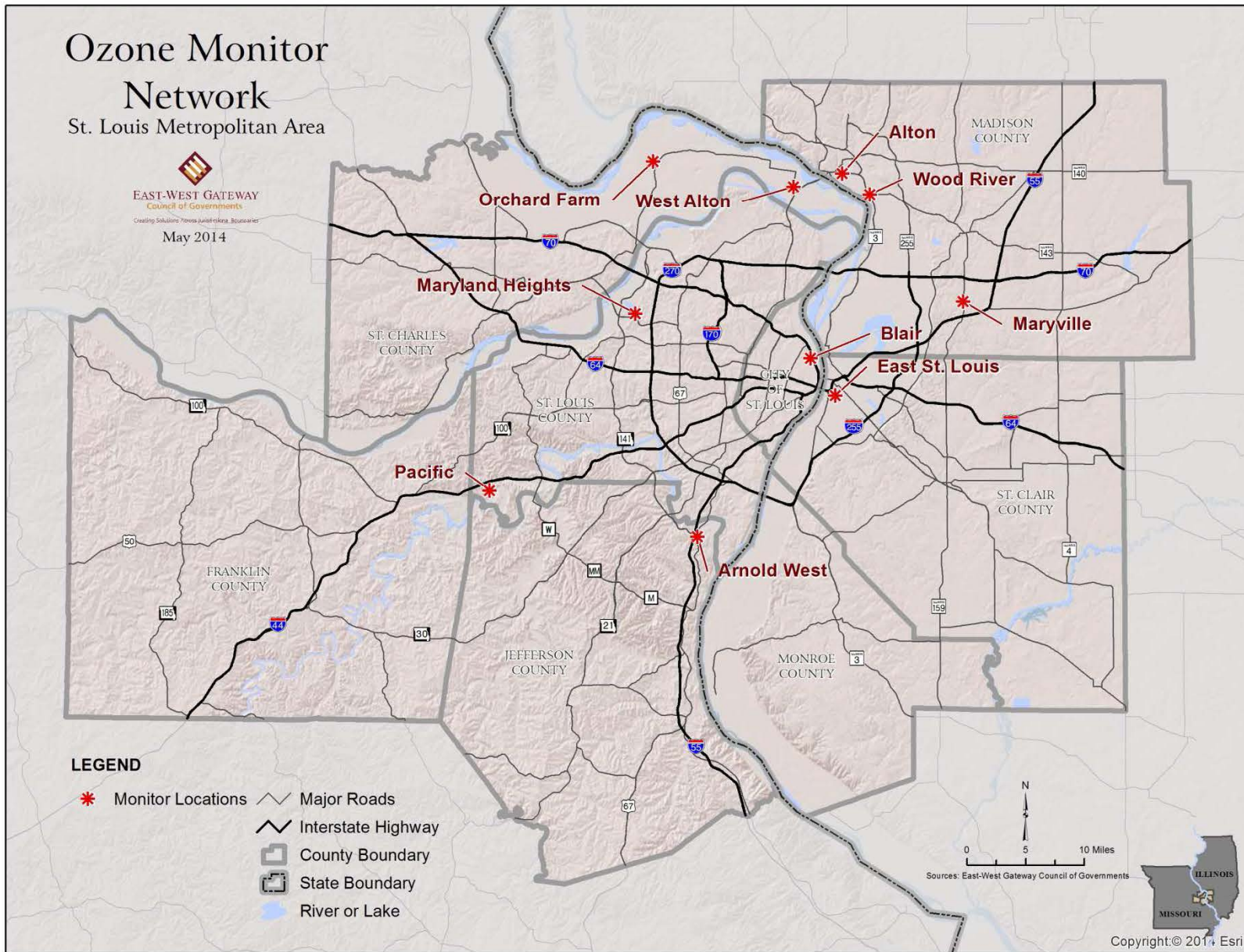
- 2015 Ozone Season - April 1 to October 31
- East-West Gateway acts as a clearinghouse for ozone data
- Initial quality assurance screening
- Prepare reports



Ozone Monitor Network

St. Louis Metropolitan Area


EAST-WEST GATEWAY
 Council of Governments
Creating Solutions For our Jointly Shared Region
 May 2014



LEGEND

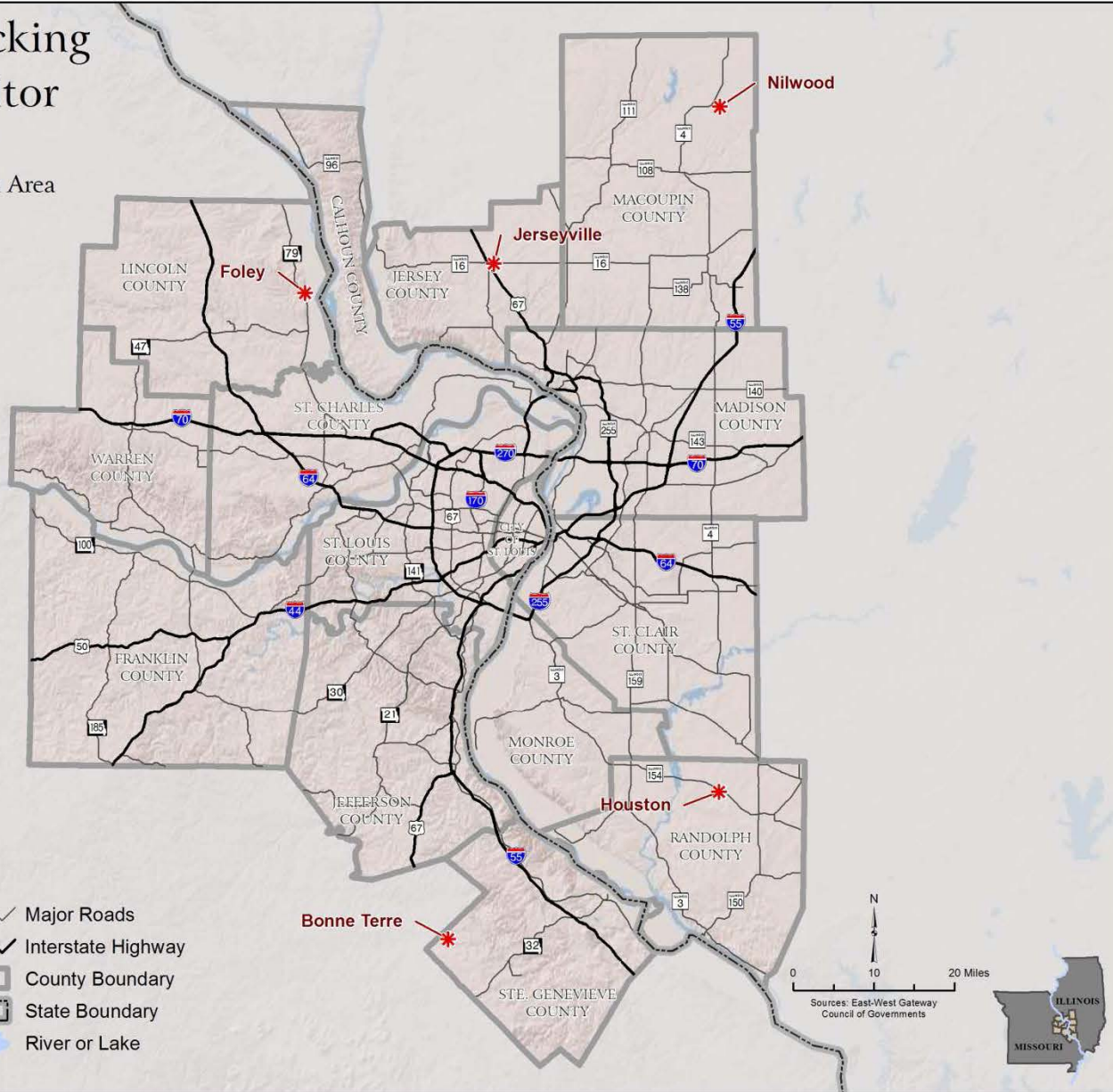
-  Monitor Locations
-  Major Roads
-  Interstate Highway
-  County Boundary
-  State Boundary
-  River or Lake



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Transport Tracking Ozone Monitor Network

St. Louis Metropolitan Area



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



2015 Ozone Season

- Non-Attainment Area – 1 Exceedance
 - July 24 at Orchard Farm (78 ppb)
- No exceedances at Transport/Tracking Monitors



Summer Weather Facts

Days with Temperatures	Years				Average Number of Days per Year
	2012	2013	2014	2015	
90° or greater	60	37	34	49	36
100° or greater	21	2	1	1	2

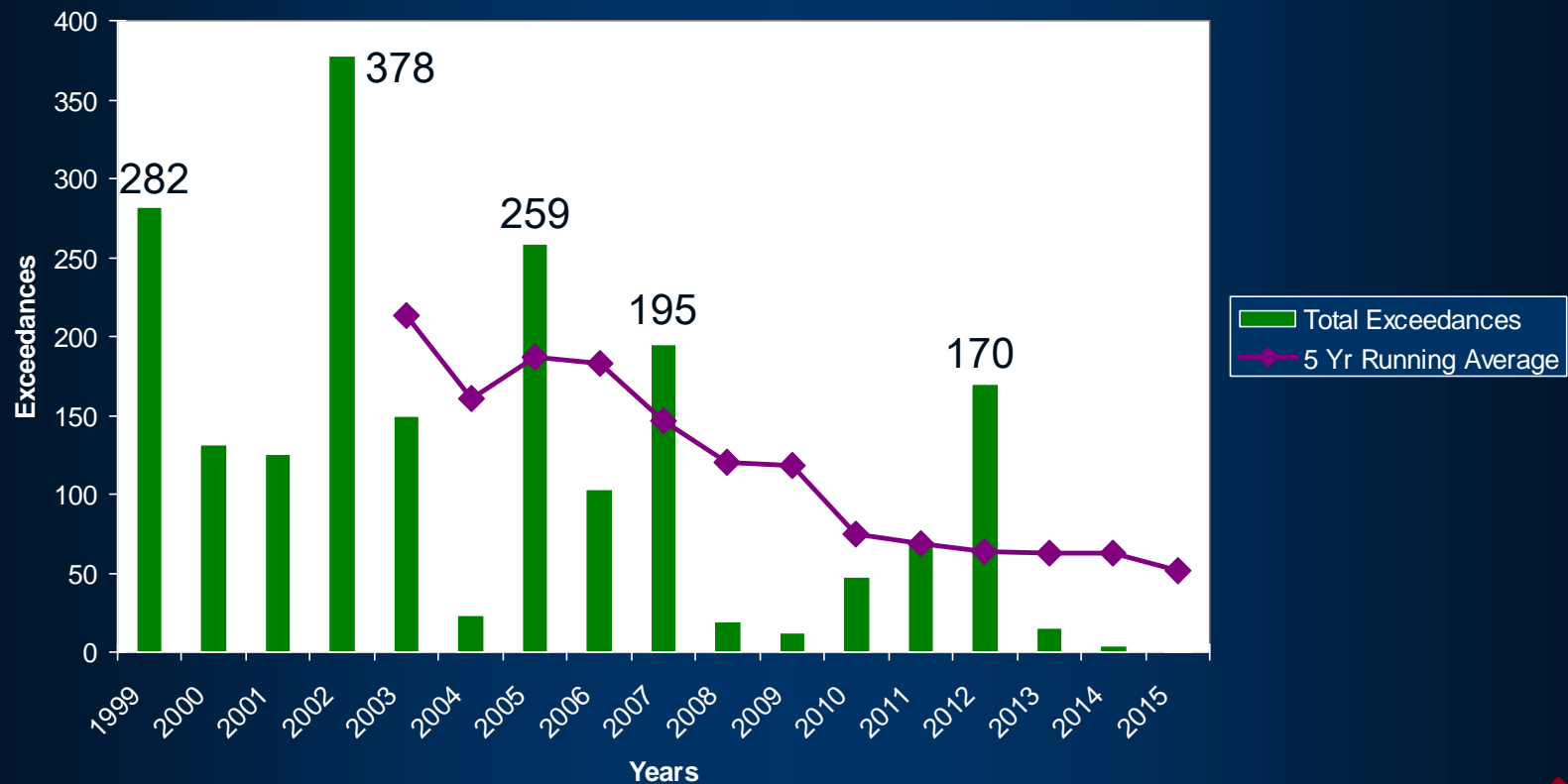
National Weather Service



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1999 - 2015 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, threat of flooding



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, 2015 4 Highest 8-Hour Averages

Monitor	1 st High	2 nd High	3 rd High	4 th High
Arnold West	71	70	69	69
West Alton	72	71	70	70
Orchard Farm	78	72	71	66
Maryland Hts	74	71	69	69
Pacific	75	71	67	66
Blair St.	68	66	63	59
Wood River	75	69	69	69
Maryville	72	71	65	64
Alton	74	71	71	69
East St. Louis	75	69	66	66



Trends

- Moderate to Marginal classification July 2012
- Area is in attainment of 2008 standard
- Missouri and Illinois have started the process to have area re-designated to attainment

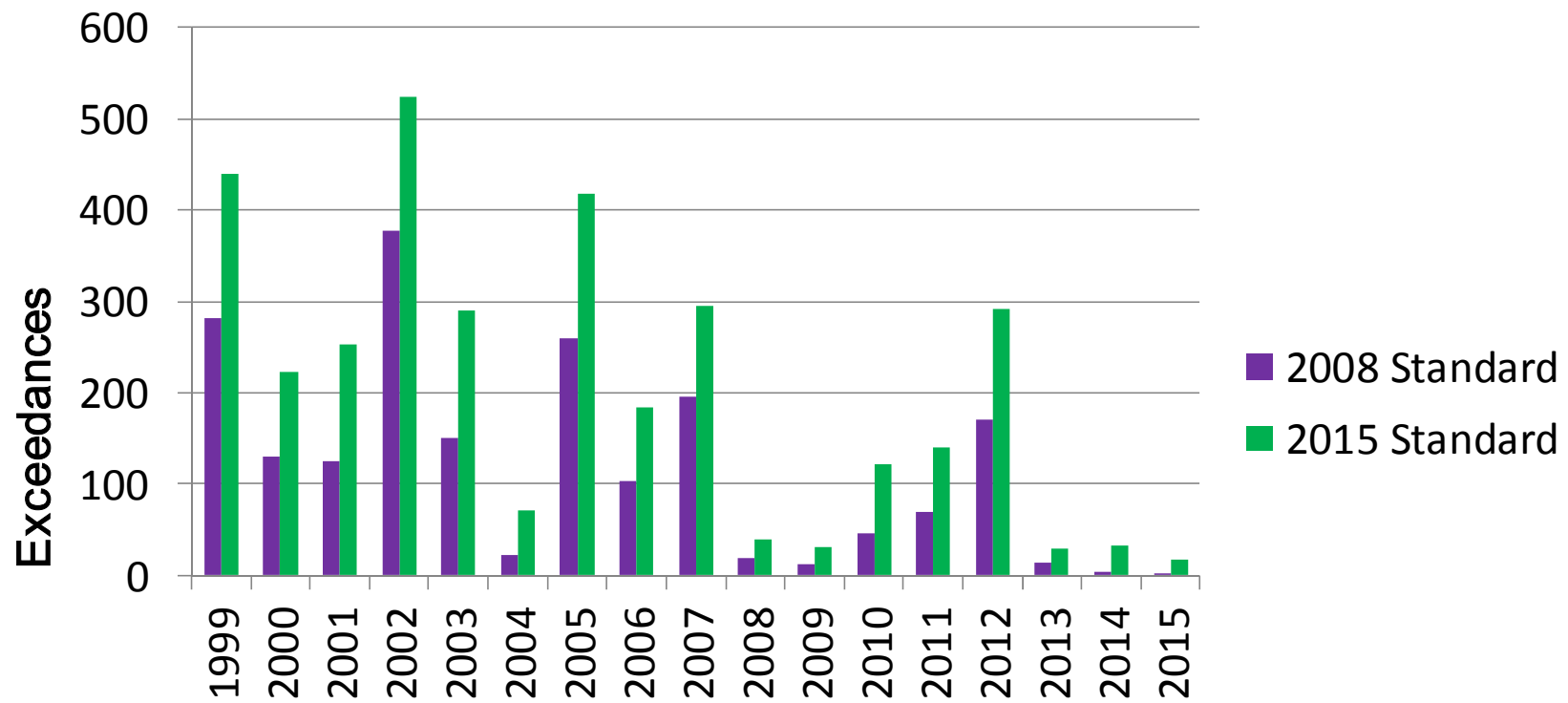


October 1, 2015 Ozone Standard

- EPA strengthened standard to 70 ppb
- Exceedance is when an 8-hour average is >70 ppb
- Violation is when 3-year average of 4th highest annual average is > 70 ppb



Exceedances based on 2008 and 2015 Standards



2016 Ozone Season & Beyond

- Will use 2015 standard to track exceedances and prepare AQI calendar
- In 2017, ozone season will start March 1 and run through October 31

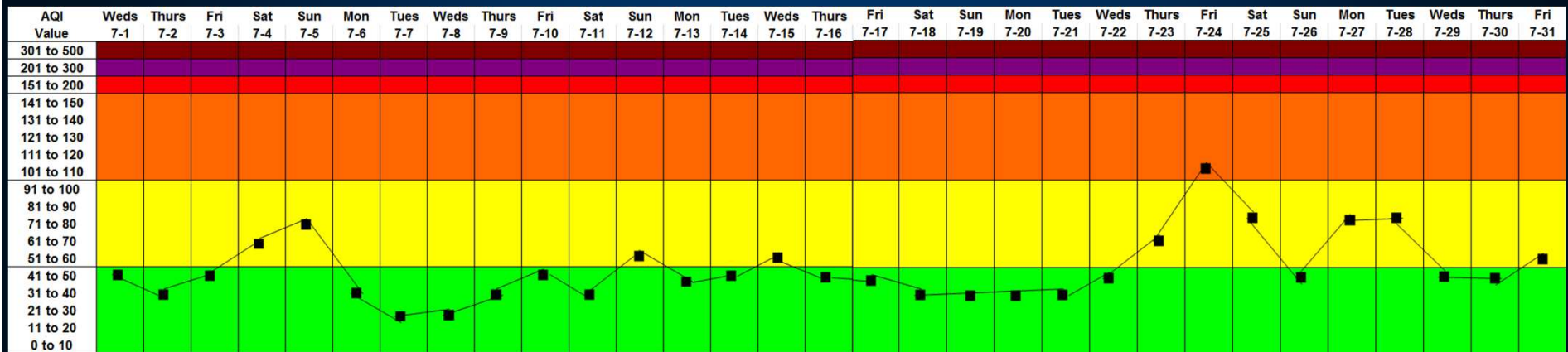


For Additional Information

On-line Air Quality Resource Center

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

July 2015 AQI Calendar – 2008 Standard



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St. Louis Visual Air Pollution Camera 2016-05-04 15:15:23



May 4, 2016 – Looking east from SSM St. Mary's Health Center
MDNR Visual Air Pollution Camera