

Air Pollution Control Program Updates

Part 3

Josh Vander Veen, Air Quality Analysis Section Chief

REGFORM

Missouri Air Compliance Seminar

November 6, 2024

Air Quality Analysis Section

Josh Vander Veen
Section Chief

Data Management Unit

- **Brenda Wansing**
- Jeanne Brown
- Clare Foster
- John Pelton
- Becky Rookwood
- Erin Stevens
- Jeffrey Stevens
- Terry Stock

Monitoring Unit

- **Kurt Heine**
- Jerry Downs
- Eric Giroir
- Michael Maddux
- Vacant

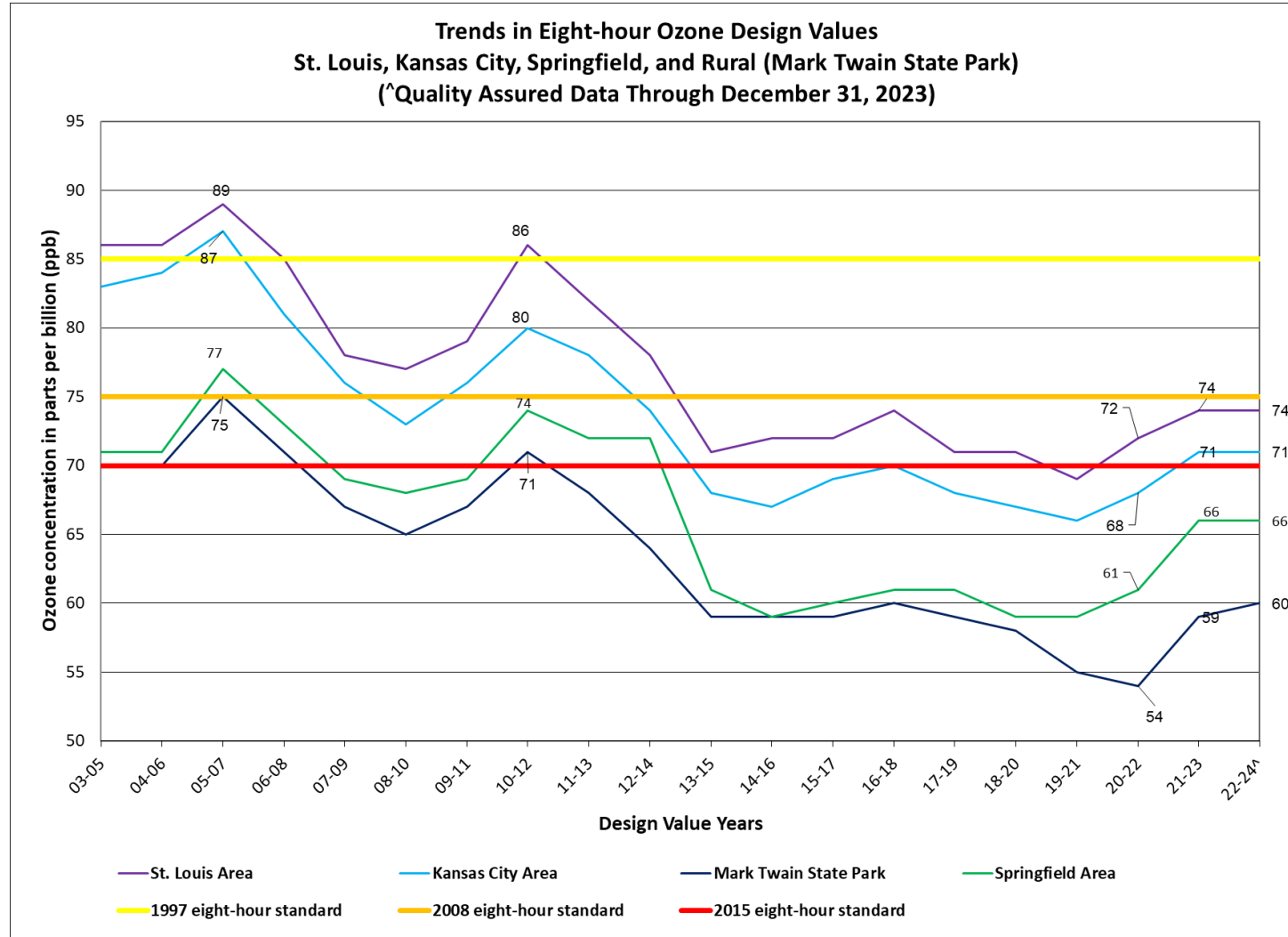
Small Business Compliance Assistance

- Bob Randolph

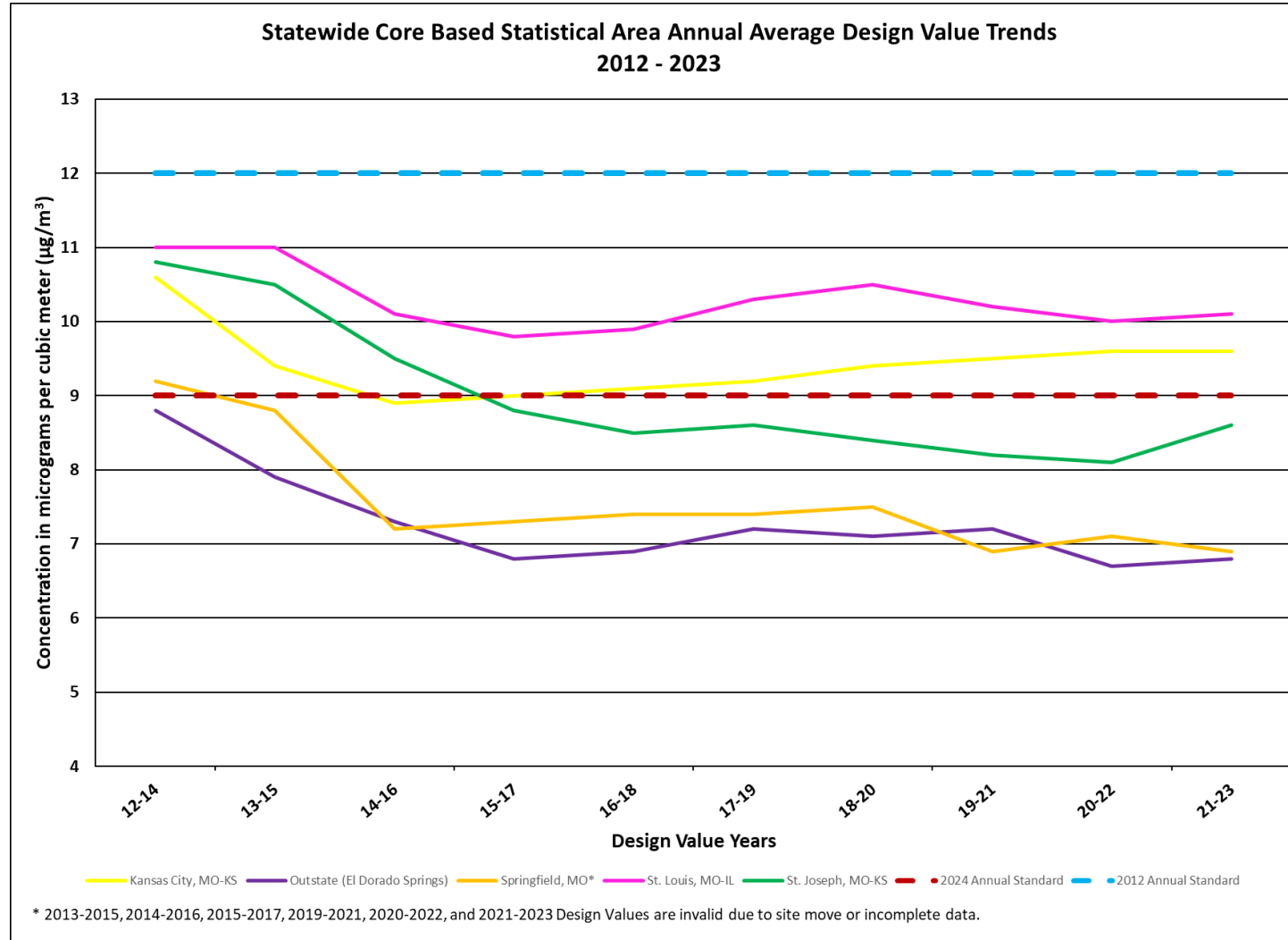
File Room

- Sara Green

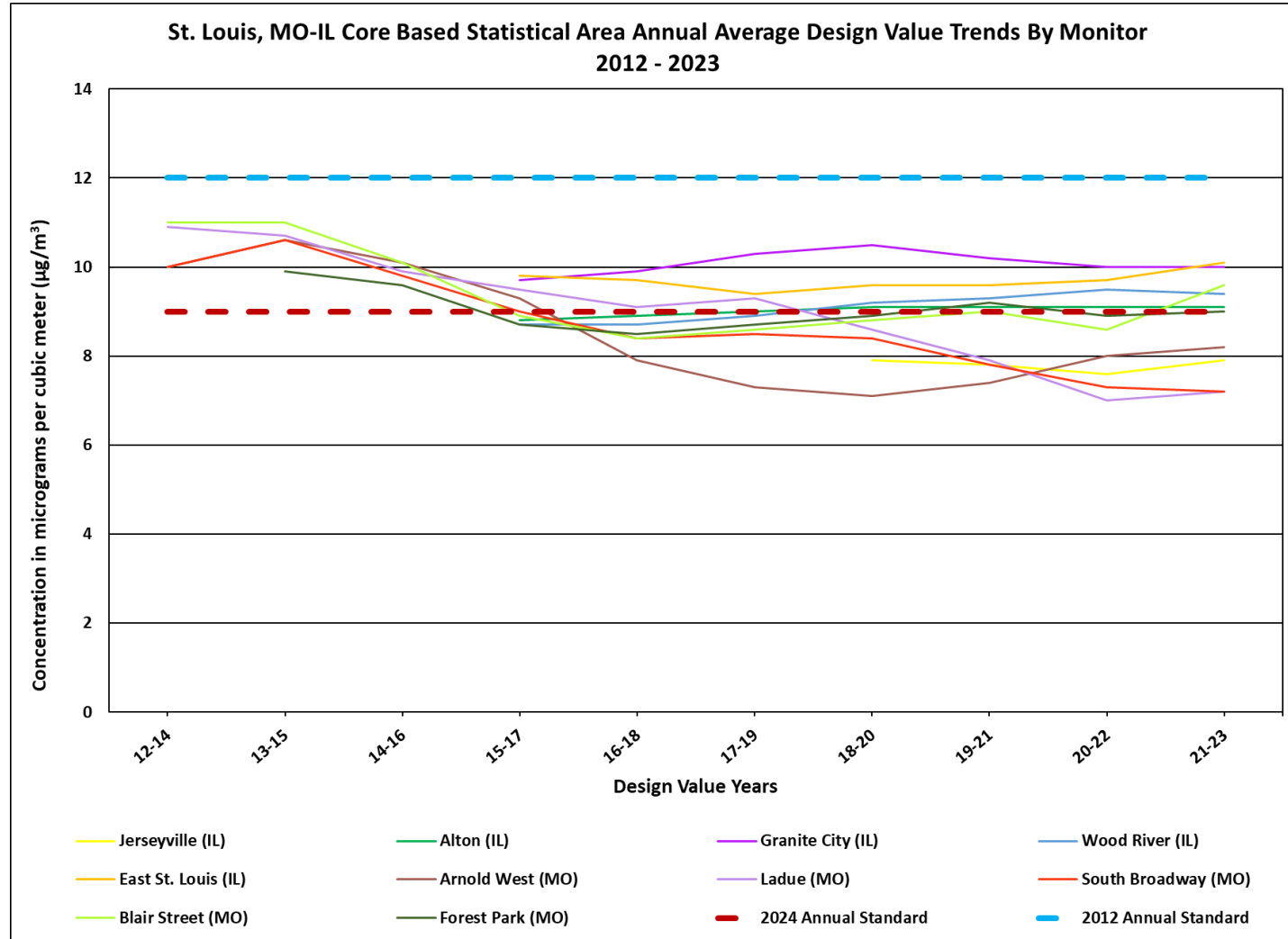
Ozone Trends



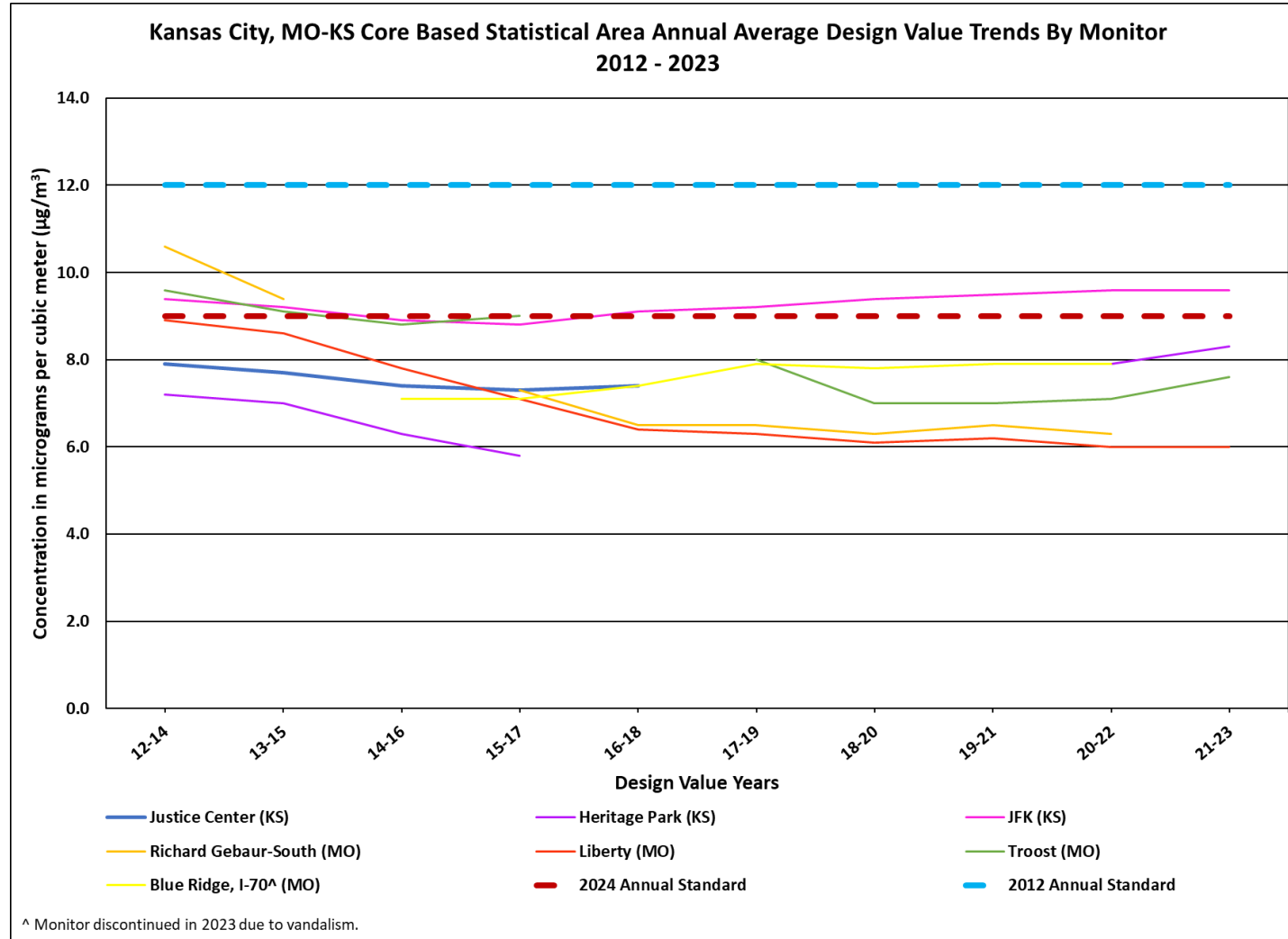
PM_{2.5} Trends



PM_{2.5} Trends



PM_{2.5} Trends



2023 Ozone Exceptional Event Feasibility Analysis Update

Ozone Exceptional Event Feasibility Analysis

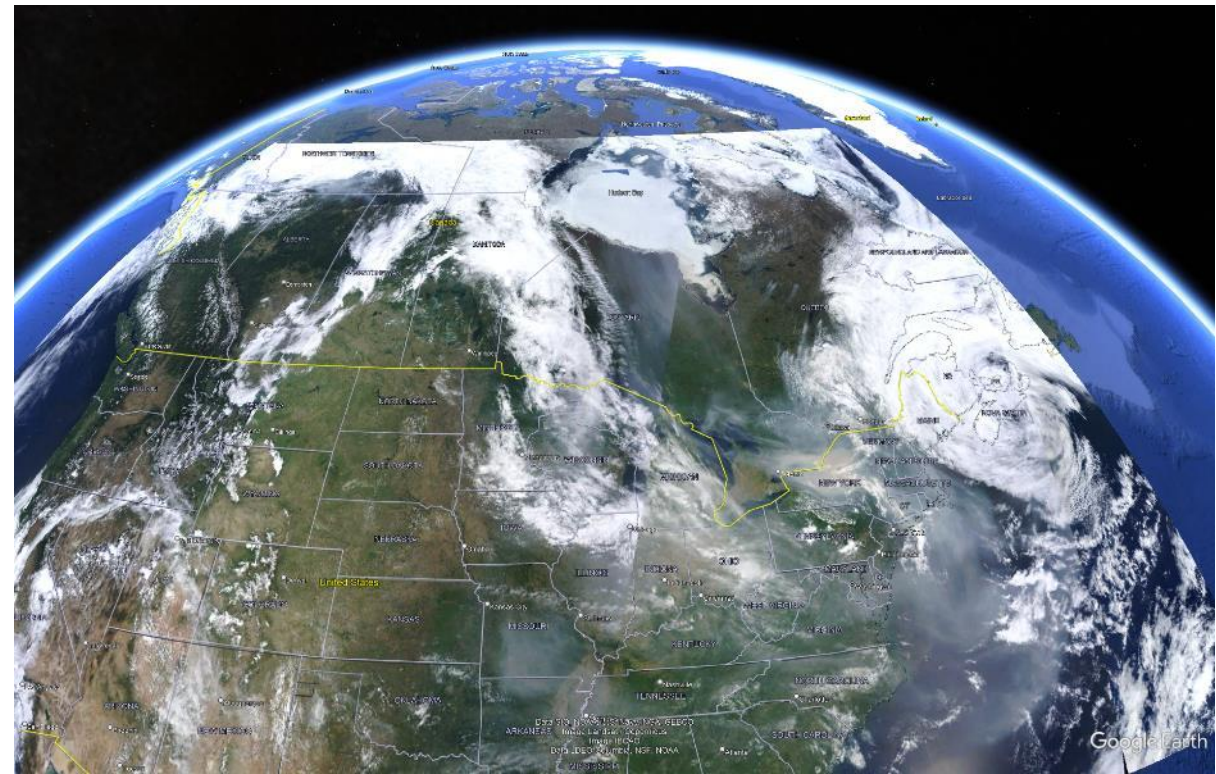
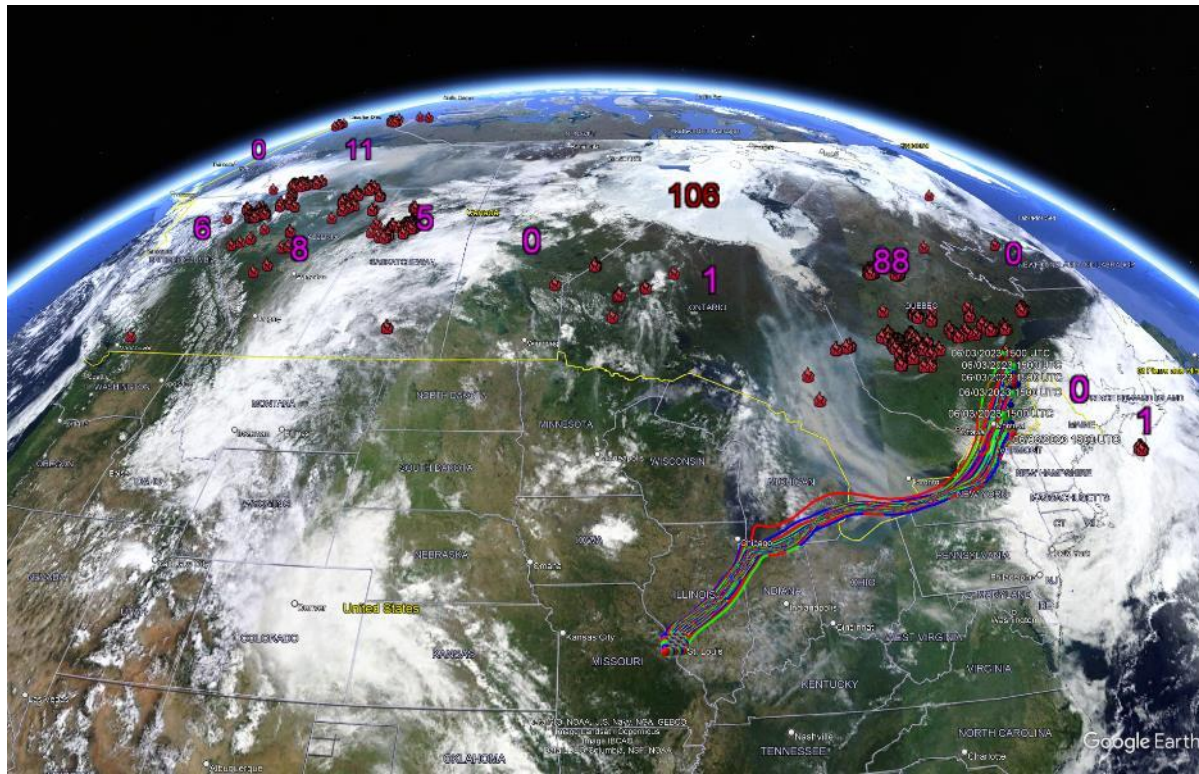
Number of Ozone Monitors in Missouri in Excess of 70ppb on an Exceedance Day																			
Number of Days the Ozone Monitor Exceedance Count Fell Within a Specified Range																			
1 <= Monitors <= 5	3	1 <= Monitors <= 5	2	1 <= Monitors <= 5	18	1 <= Monitors <= 5	12	1 <= Monitors <= 5	19	1 <= Monitors <= 5	8	1 <= Monitors <= 5	6	1 <= Monitors <= 5	9	1 <= Monitors <= 5	11		
6 <= Monitors <= 10	0	6 <= Monitors <= 10	0	6 <= Monitors <= 10	1	6 <= Monitors <= 10	0	6 <= Monitors <= 10	2	6 <= Monitors <= 10	0	6 <= Monitors <= 10	0	6 <= Monitors <= 10	0	6 <= Monitors <= 10	0	6 <= Monitors <= 10	
11 <= Monitors <= 15	0	11 <= Monitors <= 15	0	11 <= Monitors <= 15	0	11 <= Monitors <= 15	0	11 <= Monitors <= 15	0	11 <= Monitors <= 15	0	11 <= Monitors <= 15	0	11 <= Monitors <= 15	0	11 <= Monitors <= 15	0	11 <= Monitors <= 15	
Monitors > 15	0	Monitors > 15	0	Monitors > 15	0	Monitors > 15	0	Monitors > 15	0	Monitors > 15	0	Monitors > 15	0	Monitors > 15	0	Monitors > 15	0	Monitors > 15	
Number of Ozone Monitors Exceeding 70ppb on a Given Day																			
2014		2015		2016		2017		2018		2019		2020		2021		2022		2023	
5/21/2014	1	6/9/2015	1	5/22/2016	1	5/13/2017	1	5/10/2018	1	4/9/2019	1	6/6/2020	1	6/14/2021	3	3/3/2022	1	5/22/23	2
8/4/2014	1	7/24/2015	1	5/23/2016	2	5/15/2017	1	5/23/2018	1	6/29/2019	1	6/7/2020	4	6/16/2021	3	6/4/2022	1	5/24/23	8
9/28/2024	1			6/8/2016	1	5/26/2017	1	5/24/2018	5	7/13/2019	4	6/18/2020	1	6/17/2021	1	6/5/2022	1	5/25/23	9
				6/9/2016	1	6/2/2017	5	5/28/2018	5	8/2/2019	1	7/6/2020	1	7/22/2021	4	6/19/2022	2	5/28/23	1
				6/10/2016	2	6/3/2017	2	5/29/2018	1	8/5/2019	3	7/7/2020	4	7/26/2021	1	6/20/2022	1	5/29/23	6
				6/13/2016	1	6/5/2017	1	5/30/2018	3	8/19/2019	1	8/25/2020	1	7/27/2021	2	6/24/2022	1	5/30/23	7
				6/16/2016	4	6/8/2017	2	6/1/2018	3	9/18/2019	1			7/28/2021	4	6/29/2022	2	5/31/23	4
				6/18/2016	7	7/16/2017	1	6/5/2018	3	9/19/2019	3			7/17/2021	1	6/30/2022	1	6/2/23	5
				6/27/2016	1	7/17/2017	3	6/6/2018	8					9/28/2021	2	7/14/2022	2	6/3/23	17
				7/20/2016	1	7/24/2017	1	6/8/2018	3							7/22/2022	5	6/4/23	11
				7/23/2016	1	7/25/2017	1	6/15/2018	1							8/1/2022	1	6/5/23	2
				8/4/2016	2	9/14/2017	1	7/9/2018	1									6/6/23	21
				8/9/2016	3			7/11/2018	2									6/7/23	6
				8/10/2016	2			7/12/2018	7									6/9/23	10
				9/20/2016	1			7/13/2018	4									6/10/23	11
				9/21/2016	2			8/1/2018	2									6/14/23	8
				9/22/2016	2			8/2/2018	2									6/15/23	12
				9/23/2016	5			8/3/2018	2									6/16/23	2
				9/24/2016	1			8/6/2018	2									6/17/23	6
								9/13/2018	1									6/20/23	12
								9/14/2018	1									6/23/23	9
																		6/24/23	1
																		6/28/23	2
																		6/30/23	2
																		9/2/23	1
																		9/15/23	1

Ozone Exceptional Event Feasibility Analysis

June 6, 2023 72-hour Hysplit Back Trajectory
(2023.06.03 15:00 – 2023.06.06 14:00)

June 3, 2023 Satellite Imagery, Q/D, and Fire Locations

June 6, 2023 Satellite Imagery

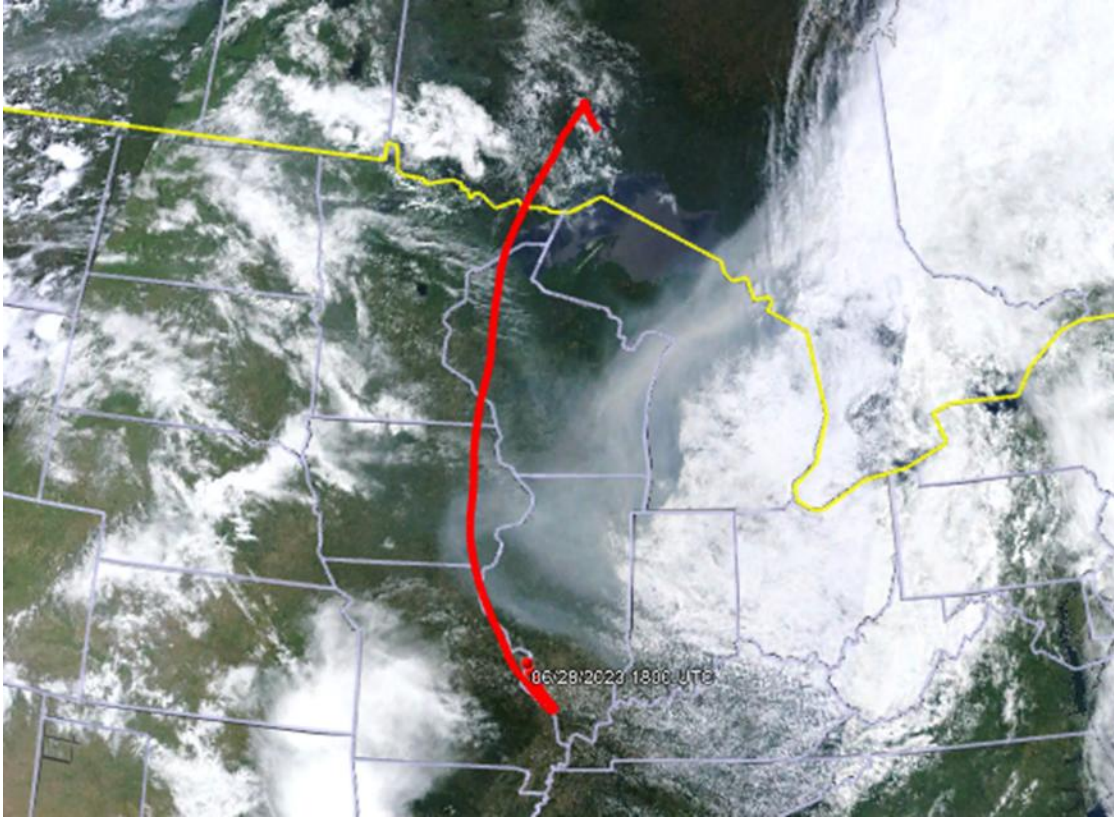


2023 PM_{2.5} Exceptional Event Feasibility Analysis Update

PM_{2.5} Exceptional Event Feasibility Analysis

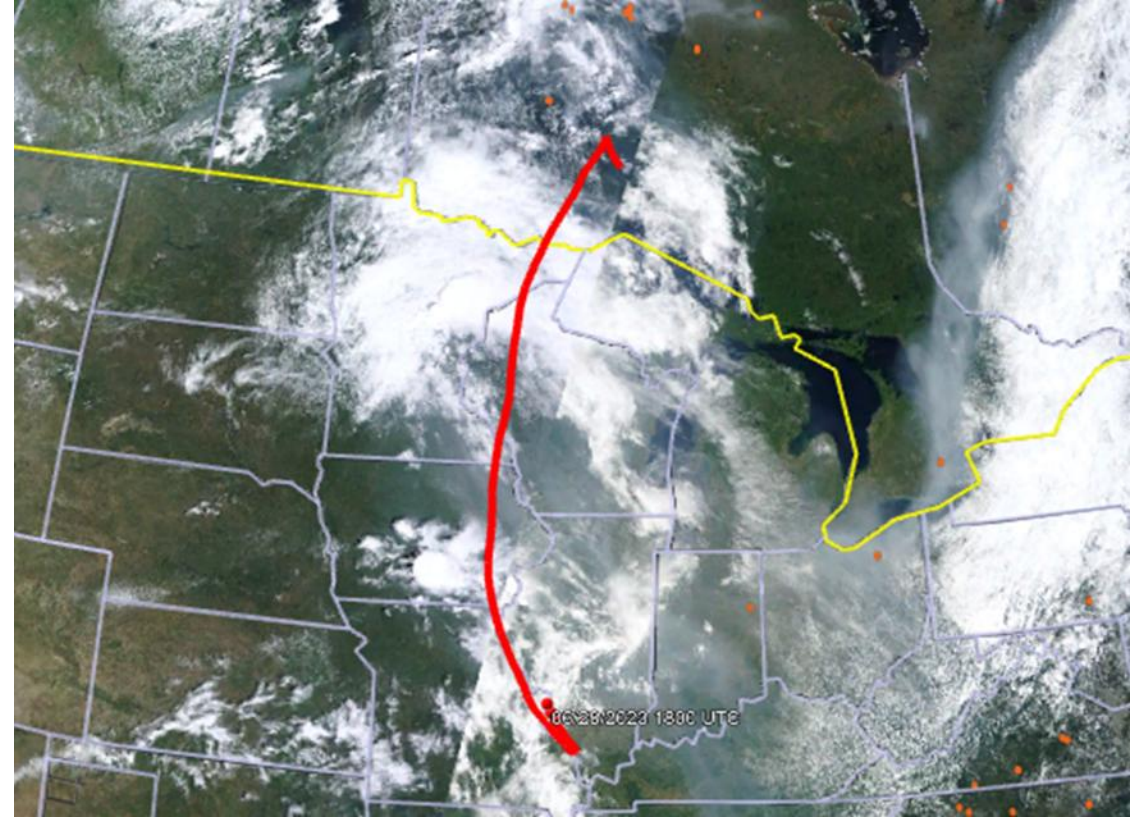
June 28, 2023 72-hour Hysplit Back Trajectory
(2023.06.25 15:00 – 2023.06.28 14:00)

June 27, 2023 Satellite Imagery



June 28, 2023 72-hour Hysplit Back Trajectory
(2023.06.25 15:00 – 2023.06.28 14:00)

June 28, 2023 Satellite Imagery



Questions?

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Air Pollution Control Program
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Find us on the web at <https://dnr.mo.gov/air>