2020 Ozone Season

Air Quality Advisory Committee Meeting

October 27, 2020

Ozone Data Sharing Project

- Ozone Season - March 1 to October 31
- East-West Gateway acts as a clearinghouse for ozone data
- Twelve hour period from 9 AM – 9 PM
- Initial quality assurance screening
- Prepare weekly and monthly reports

Ozone Monitor Network

St. Louis Metropolitan Area

March 2019

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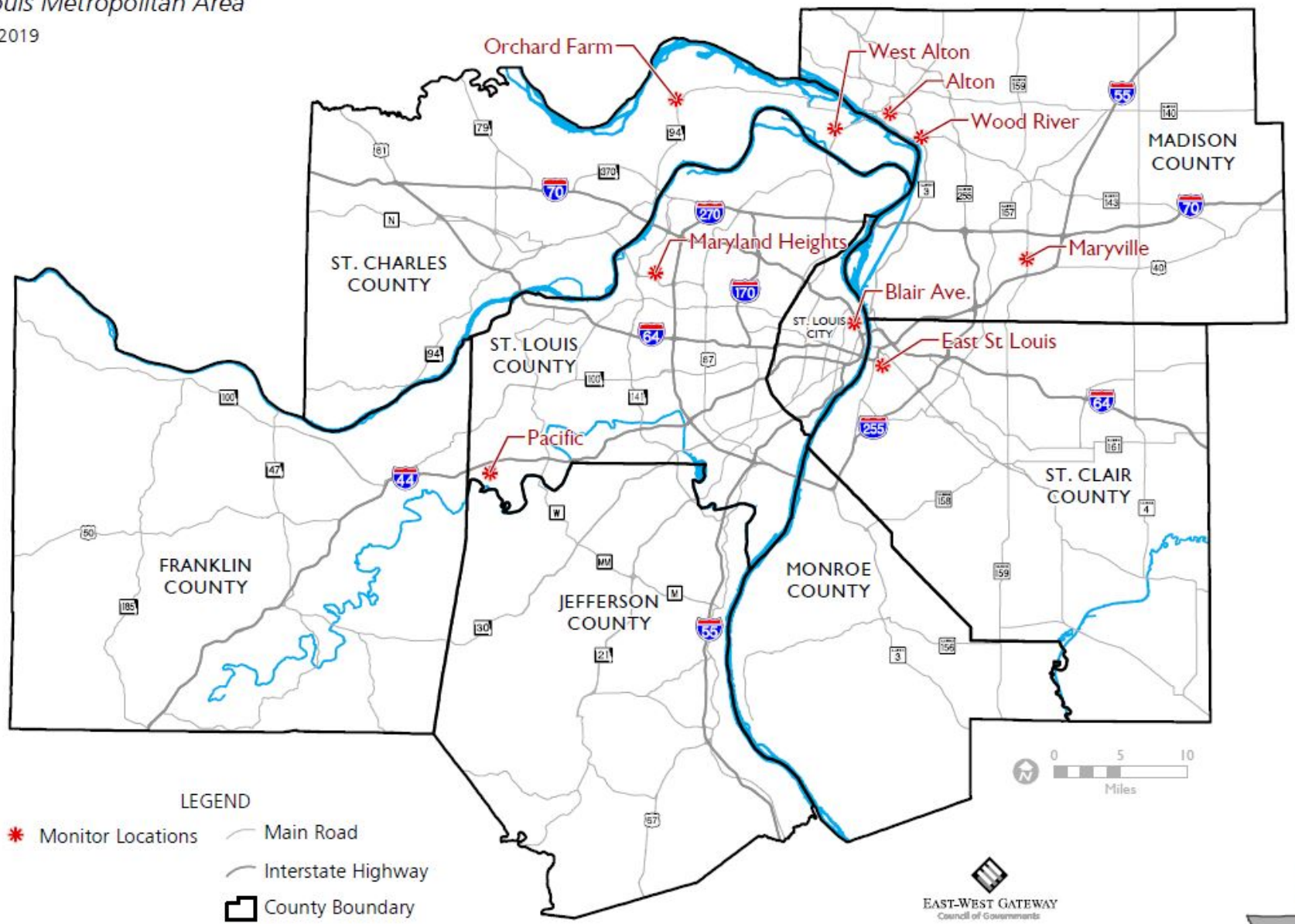

Source: East-West Gateway Council of Governments

Transport Tracking Ozone Monitor Network

St. Louis Metropolitan Area

March 2019

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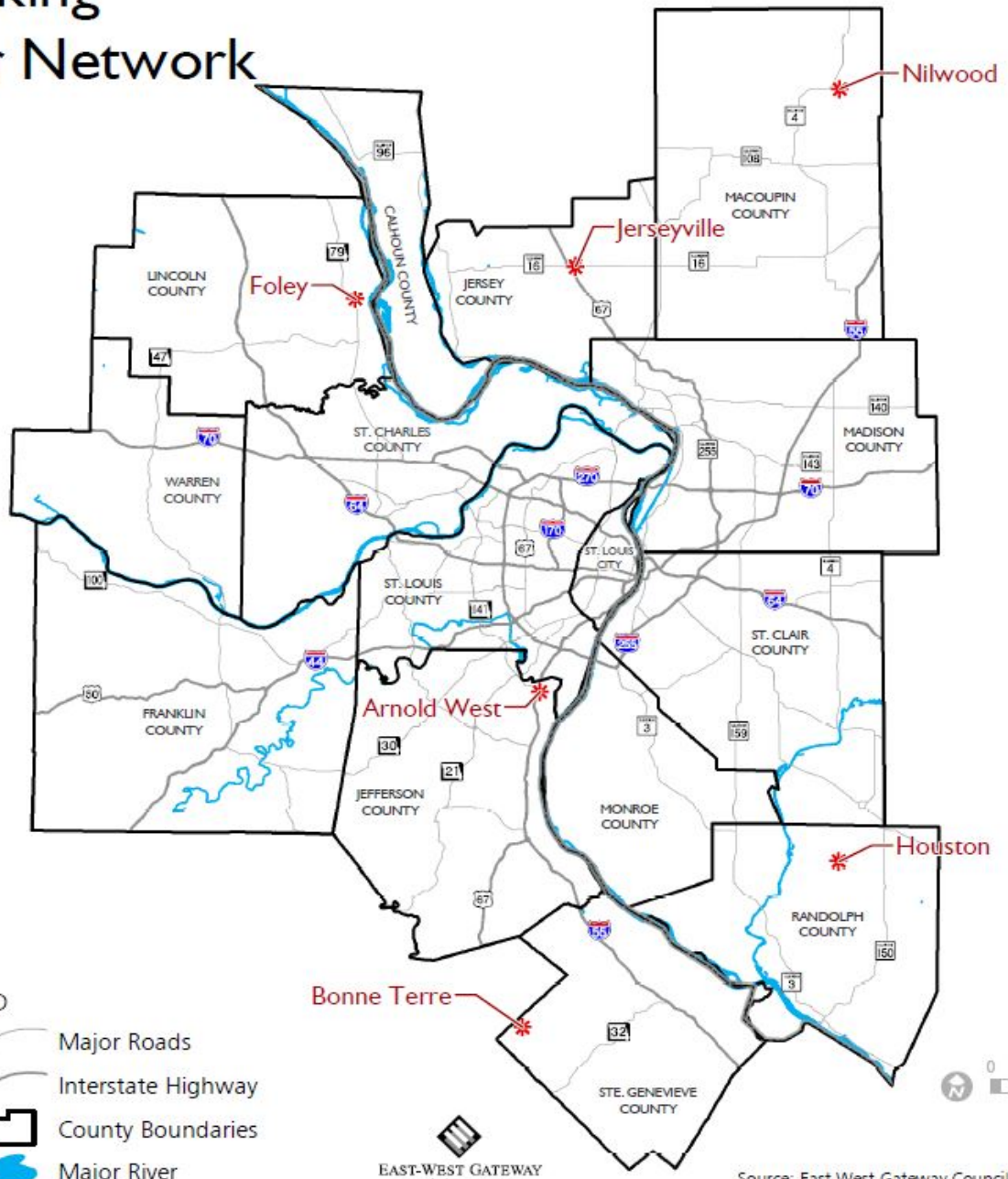

LEGEND

- Monitor Locations
- Major Roads
- Interstate Highway
- County Boundaries
- Major River

0 5 10
Miles

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Source: East-West Gateway Council of Governments

2015 Ozone Standard

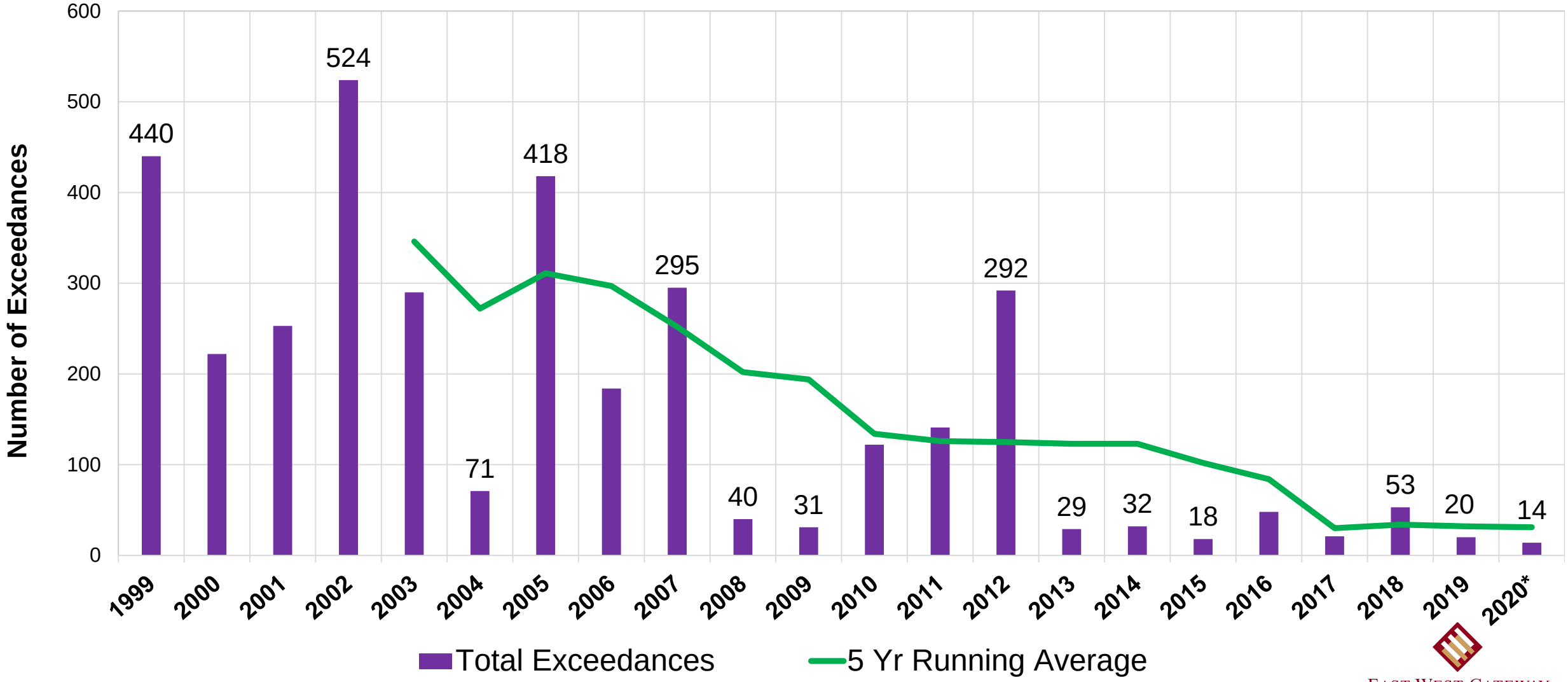
- Standard is 70 parts per billion (ppb)
- Exceedance is when an 8-hour average for a monitor is >70 ppb
- Violation is when 3-year average of 4th highest annual average for a monitor is > 70 ppb

Days With Exceedances In **Missouri** March - October 2020								
Date	**6-6**	**6-7**	**6-18**	**6-25**	**7-6**	**7-7**	**8-25**	**Total Days by Monitor**
Missouri Monitors	Ozone Values in ppb							
West Alton		72	74			72	71	**4**
Orchard Farm								
Maryland Heights	76	77			74	78		**4**
Pacific								
Blair Street						73		**1**
Total By Day	**1**	**2**	**1**		**1**	**3**	**1**	**9**

Days With Exceedances In **Illinois** March - October 2020								
Date	**6-6**	**6-7**	**6-18**	**6-25**	**7-6**	**7-7**	**8-25**	**Total Days by Monitor**
Illinois Monitors	Ozone Values in ppb							
Wood River				74		72	72	**3**
Maryville						72		**1**
Alton				72				**1**
East St. Louis								
Total By Day				**2**		**2**	**1**	**5**

1999-2020 Exceedances

Based on 2015 Standard



* 2020 data is preliminary and still needs to be quality assured

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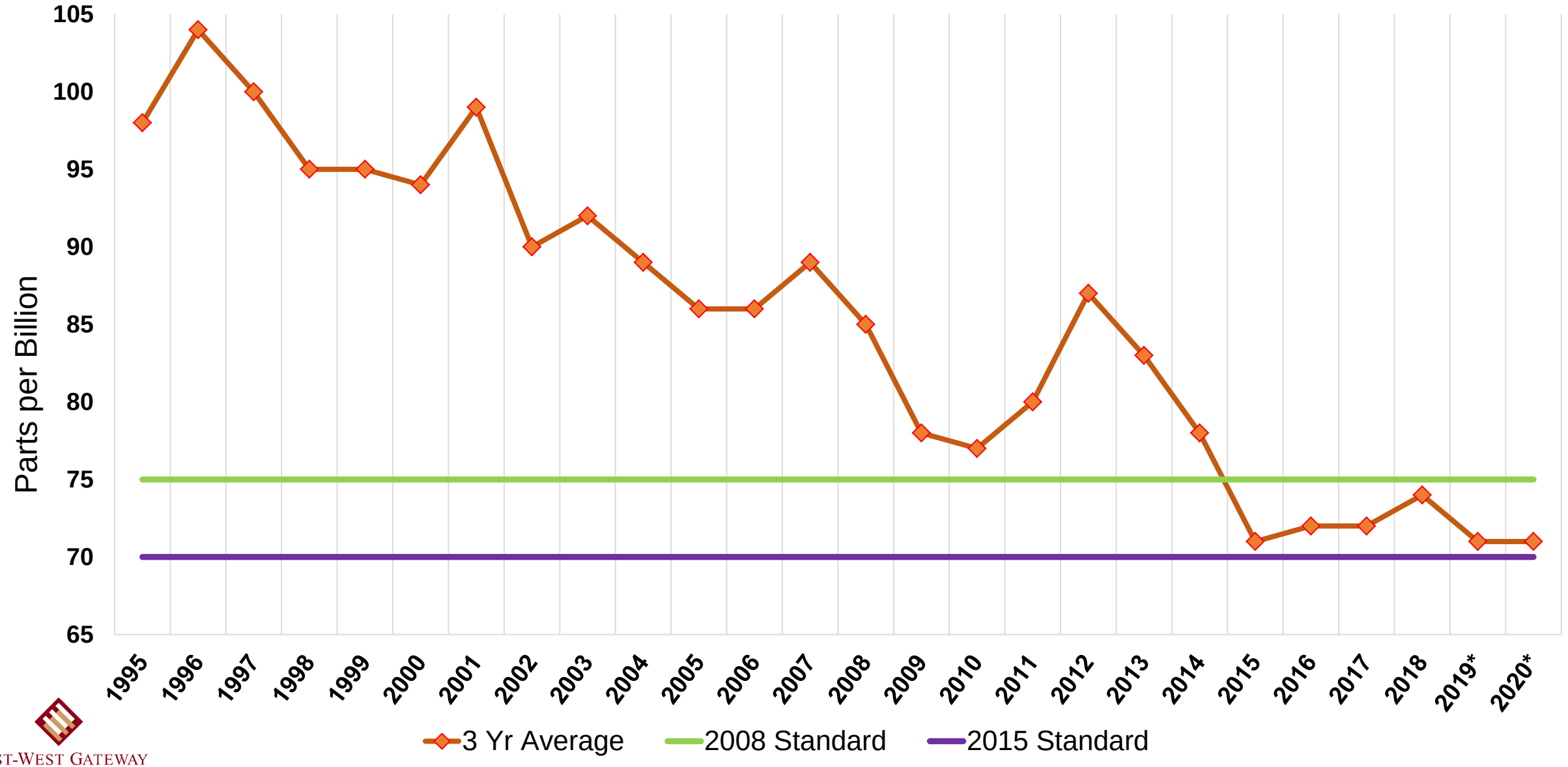
General Ozone Trends



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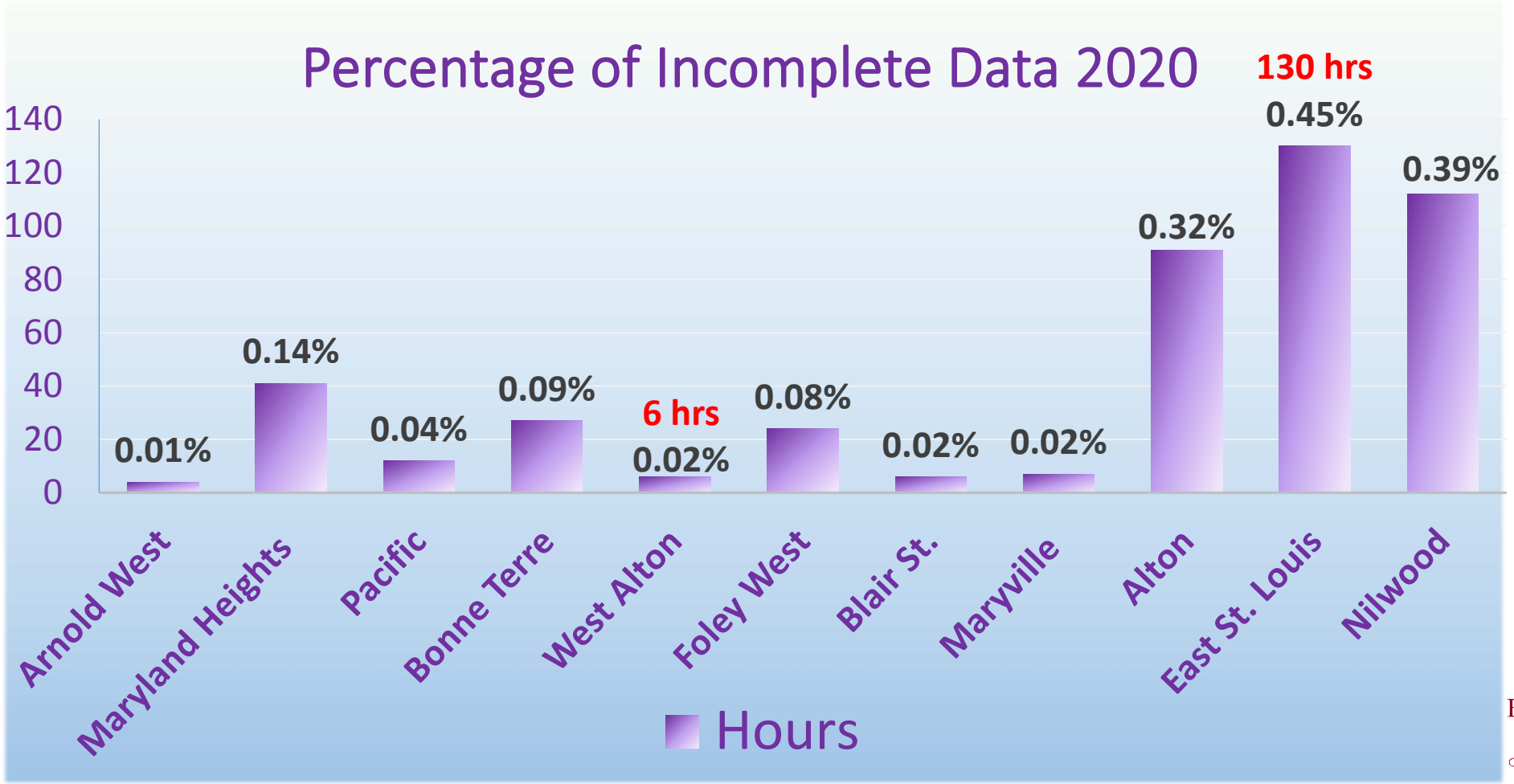
* 2018 – 2020 average still to be quality assured

Incomplete Data

- Four or more hours in one day with no values recorded at a monitor
- Incomplete does not always mean unmonitored
- Causes are provided by our partner agencies



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Air Quality Index

An **exceedance** of the 2015 ozone standard occurs at **71 ppb and higher**

The equivalent on the **AQI scale** is **101 and higher**

Ozone Concentration (ppb)	Levels of Health Concern	AQI Values
0 - 54	Good	0 – 50
55 - 70	Moderate	51 – 100
71 - 85	Unhealthy for Sensitive Groups	101 – 150
86 - 105	Unhealthy	151 – 200
106 - 200	Very Unhealthy	201 – 300
201 +	Hazardous	301 – 500

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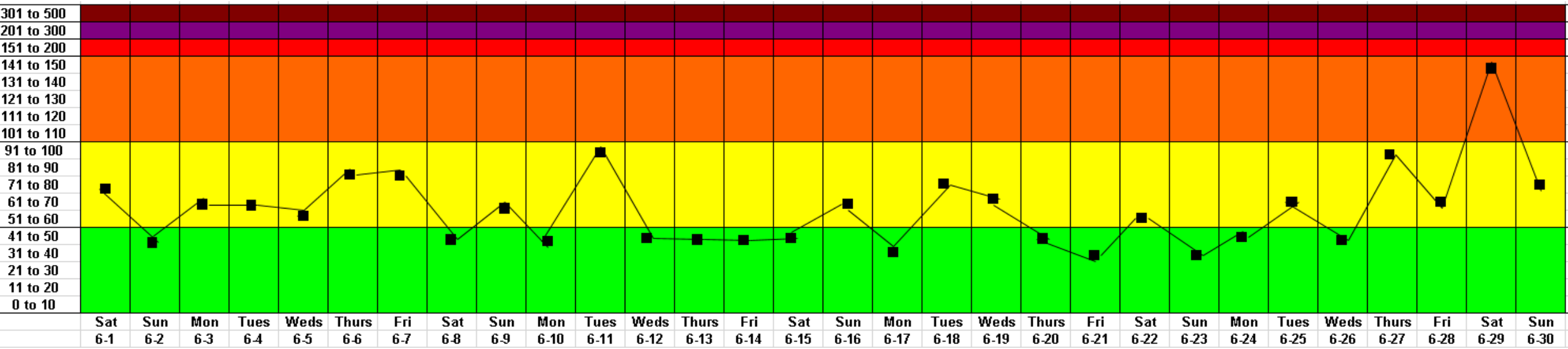
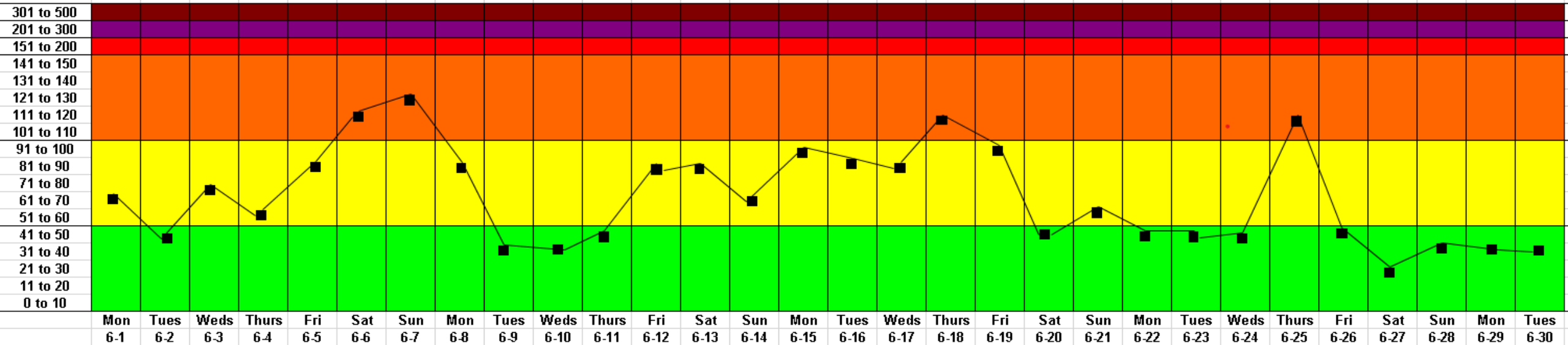
June 2019 AQI Calendar



June 2020 AQI Calendar



More Information

- East-West Gateway
  - https://www.ewgateway.org/community-planning/environmental/air-quality/ozone-monitoring/
- Missouri Department of Natural Resources
  - https://dnr.mo.gov/env/apcp/
- Illinois Environmental Protection Agency
  - https://www2.illinois.gov/epa/topics/air-quality/outdoor-air/Pages/default.aspx
- U.S. Environmental Protection Agency
  - https://airnow.gov/

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Questions?

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