

Overview of 2021 Air Quality Monitoring Data for the Austin-Round Rock-Georgetown MSA

Clean Air Force of Central Texas'
Air Quality Professional's Forum

January 13, 2022

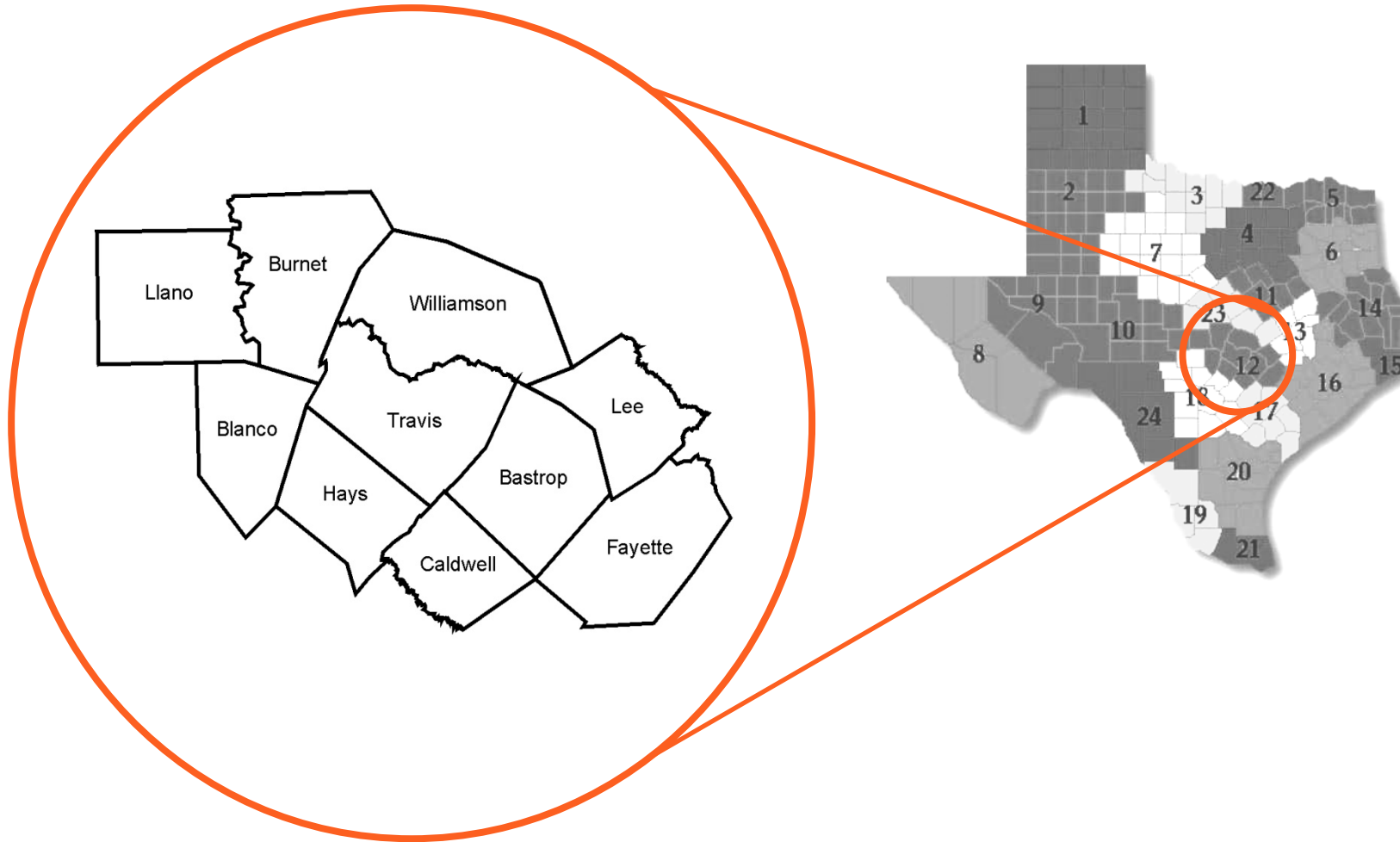


CAPCOG – Regional Planning Commission in Statute; more often called a COG.



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- Area Agency on Aging/Aging & Disability Resource Center
- Homeland Security Planning & Training
- Regional Law Enforcement Academy
- Air Quality Planning
- Solid Waste Planning
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- Transportation Planning

Ten – county service area; State of Texas planning region 12



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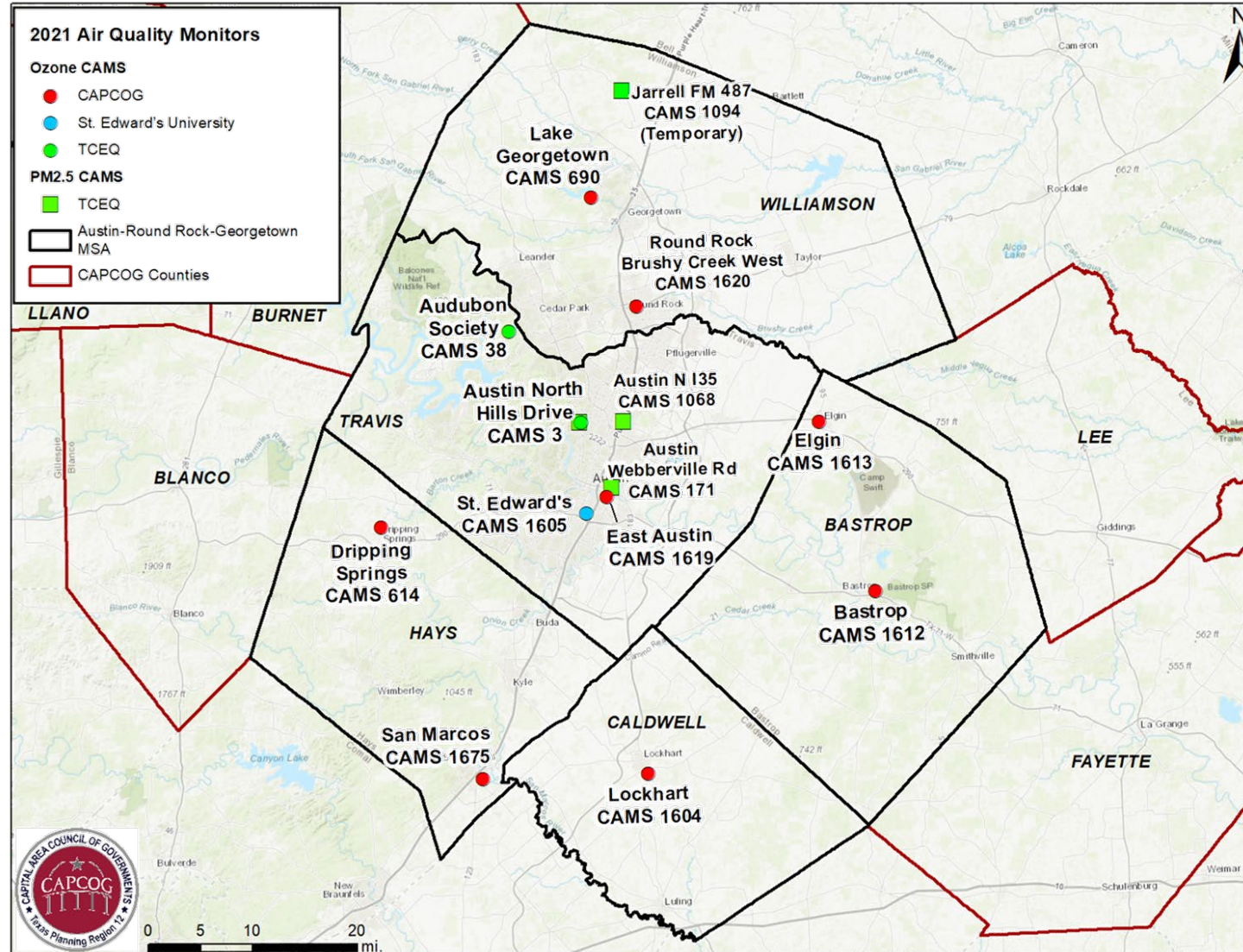
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Overview



- Focus on Ozone (O₃) and Fine Particulate Matter (PM_{2.5}) as those are the two pollutants of concern to the Austin-Round Rock-Georgetown MSA for the National Ambient Air Quality Standards (NAAQS)
 - Map of 2021 O₃ and PM_{2.5} Monitors in the MSA
 - Overview of the Air Quality Index (AQI)
 - 2021 AQI Days by Month, Pollutant, and Monitor
 - Preliminary 2019-2021 Design Values for O₃ and PM_{2.5}

O₃ and PM_{2.5} 2021 Monitoring Locations

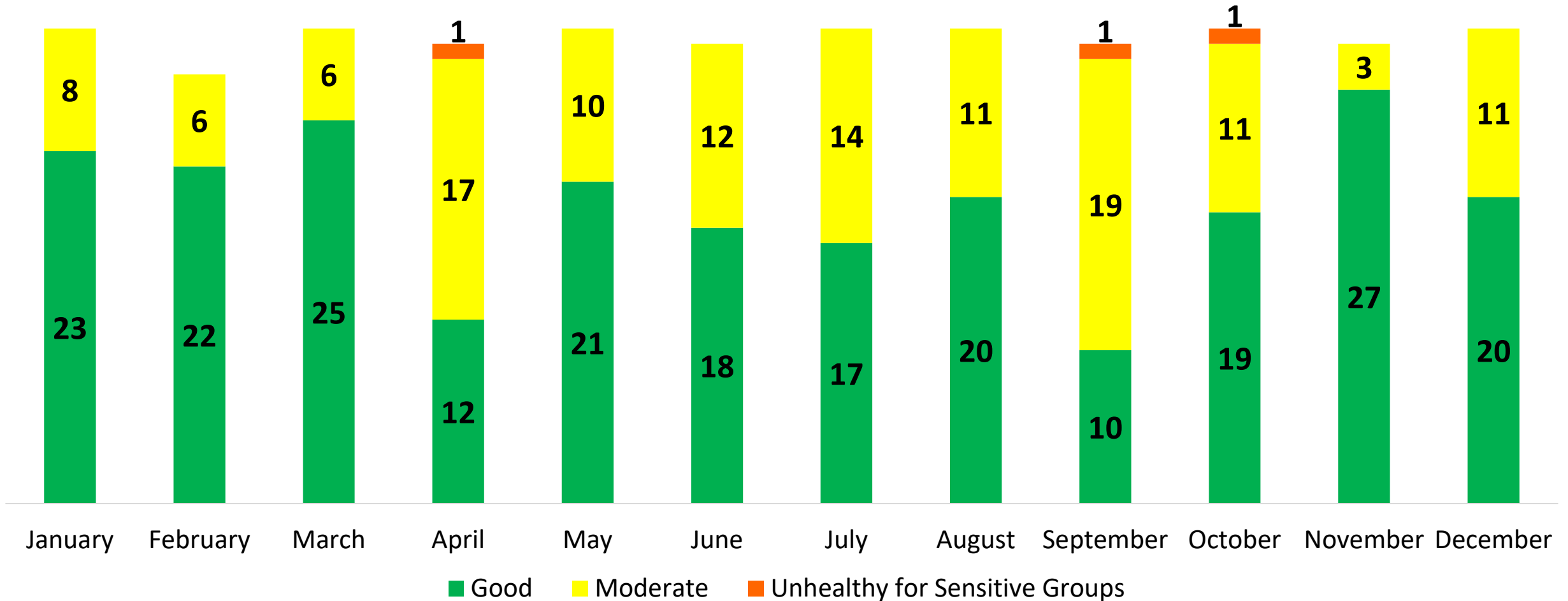


Air Quality Index (AQI)

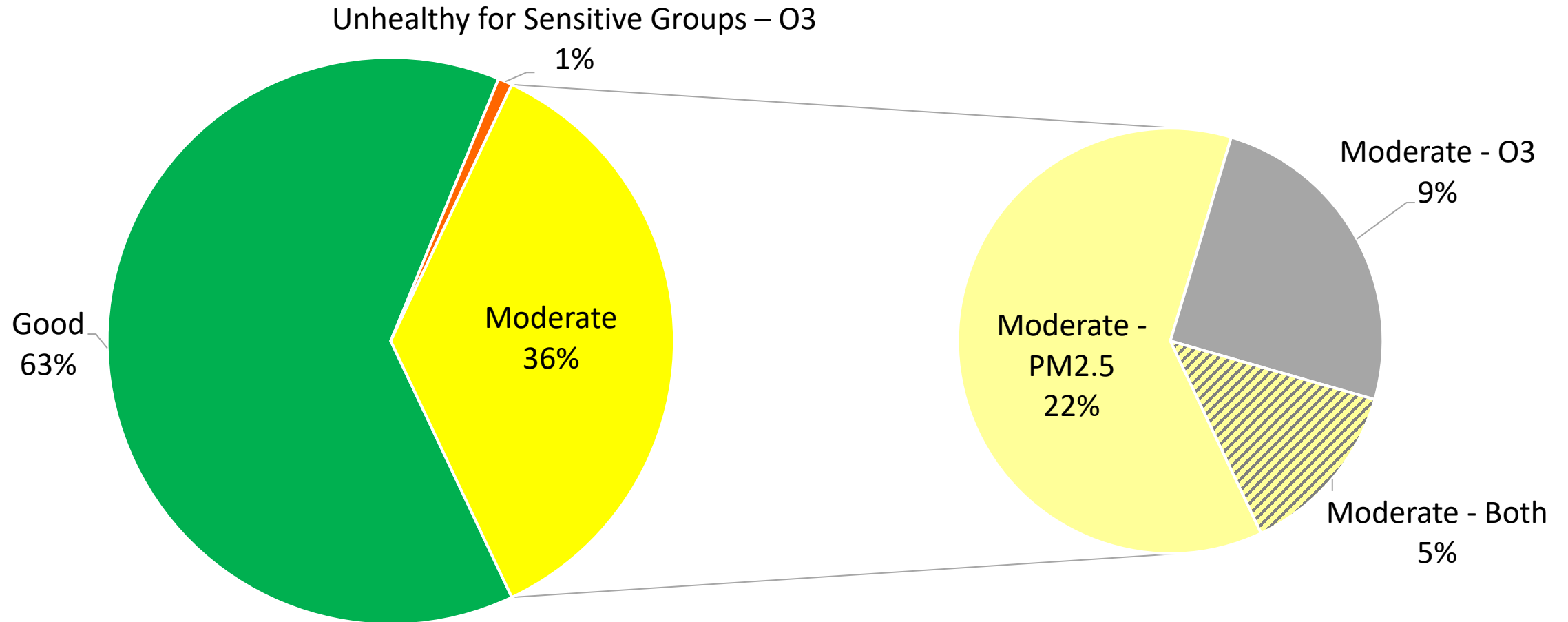


Daily AQI Color	Levels of Concern	Values of Index	Description of Air Quality
Green	Good	0 to 50	Air quality is satisfactory, and air pollution poses little or no risk.
Yellow	Moderate	51 to 100	Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution.
Orange	Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is less likely to be affected.
Red	Unhealthy	151 to 200	Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects.
Purple	Very Unhealthy	201 to 300	Health alert: The risk of health effects is increased for everyone.
Maroon	Hazardous	301 and higher	Health warning of emergency conditions: everyone is more likely to be affected.

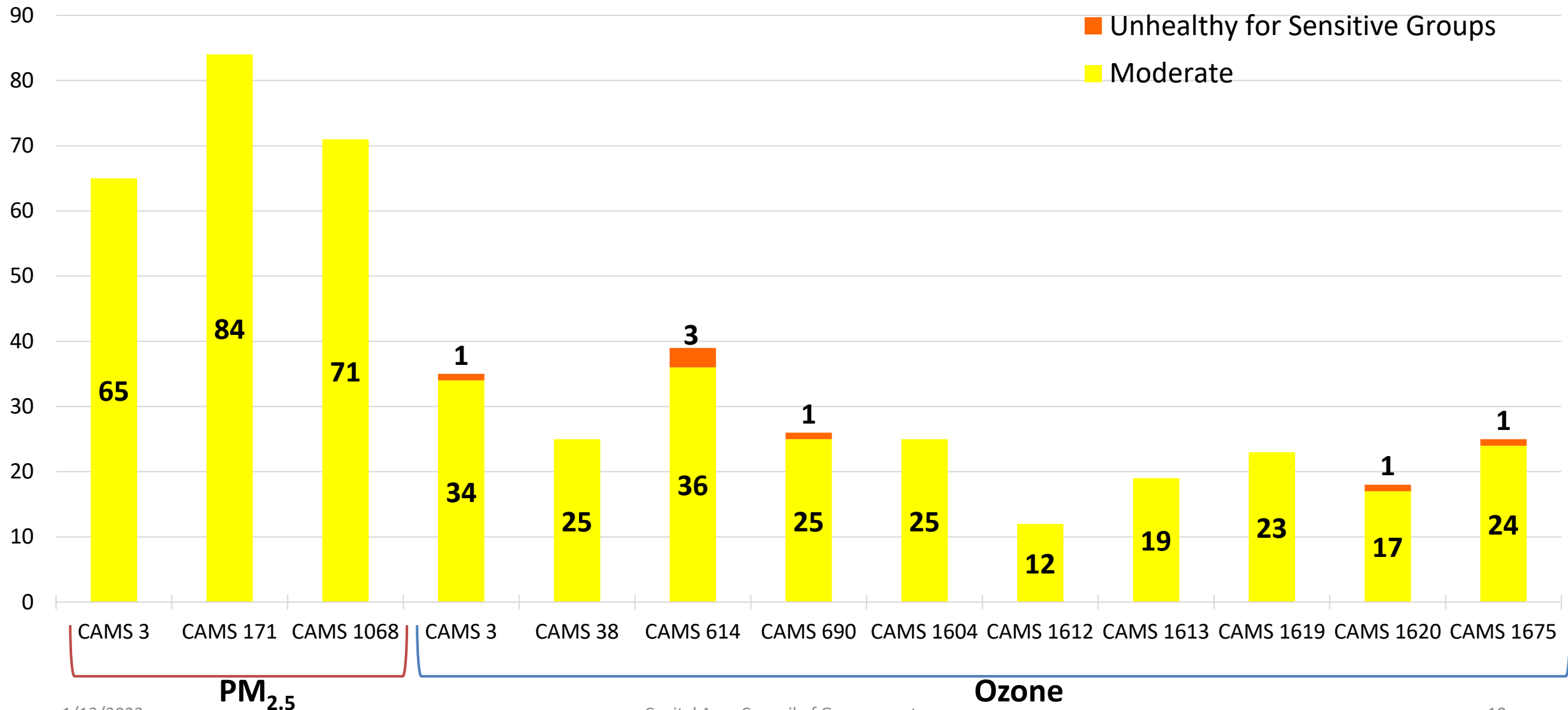
2021 AQI Days by Month



2021 AQI Days Percentage by Pollutant



2021 Moderate or Worse AQI Days by Monitor





Preliminary* O₃ Design Value for 2019-2021

TCEQ Monitor	2019 4 th High MDA8 O ₃ (ppb)	2020 4 th High MDA8 O ₃ (ppb)	2021 4 th High MDA8 O ₃ (ppb)	Preliminary 2019-2021 O ₃ Design Value (ppb)
CAMS 3 (Austin North Hills Dr.)	65	Not Valid	66	Not Valid
CAMS 38 (Austin Audubon Society)	63	63	65	63

- *EPA determines the final 2019-2021 design values in the spring.
- The O₃ NAAQS is 70 parts per billion (ppb).
 - *For now* - There is a reconsideration of the 2015 O₃ NAAQS underway by EPA.
- Since CAMS 3 was not operational for the majority of 2020, the region will be using CAMS 38's data to determine compliance with the O₃ NAAQS until 2023.



Preliminary* Annual PM_{2.5} Design Value for 2019-2021

TCEQ Monitor	2019 Annual Mean (µg/m ³)	2020 Annual Mean (µg/m ³)	2021 Annual Mean (µg/m ³)	Preliminary 2019-2021 PM _{2.5} Design Value (µg/m ³)
CAMS 3 (Austin North Hills Dr.)	N/A	Not Valid	8.29	Not Valid
CAMS 171 (Webberville Rd.)	9.40	9.53	9.46	9.5
CAMS 1068 (Austin N I35)	9.48	9.39	8.89	9.3

- *EPA determines the final 2019-2021 design values in the spring.
- The annual PM_{2.5} NAAQS is 12 micrograms per cubic meter (µg/m³).
 - *For now* - There is a reconsideration of the 2012 annual PM_{2.5} NAAQS underway by EPA.
- Since CAMS 3 was not operational for the majority of 2020, the region will be using CAMS 171 or CAMS 1068 data to determine compliance with the annual PM_{2.5} NAAQS until 2023.

Thank You



Capital Area Council of Governments

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