



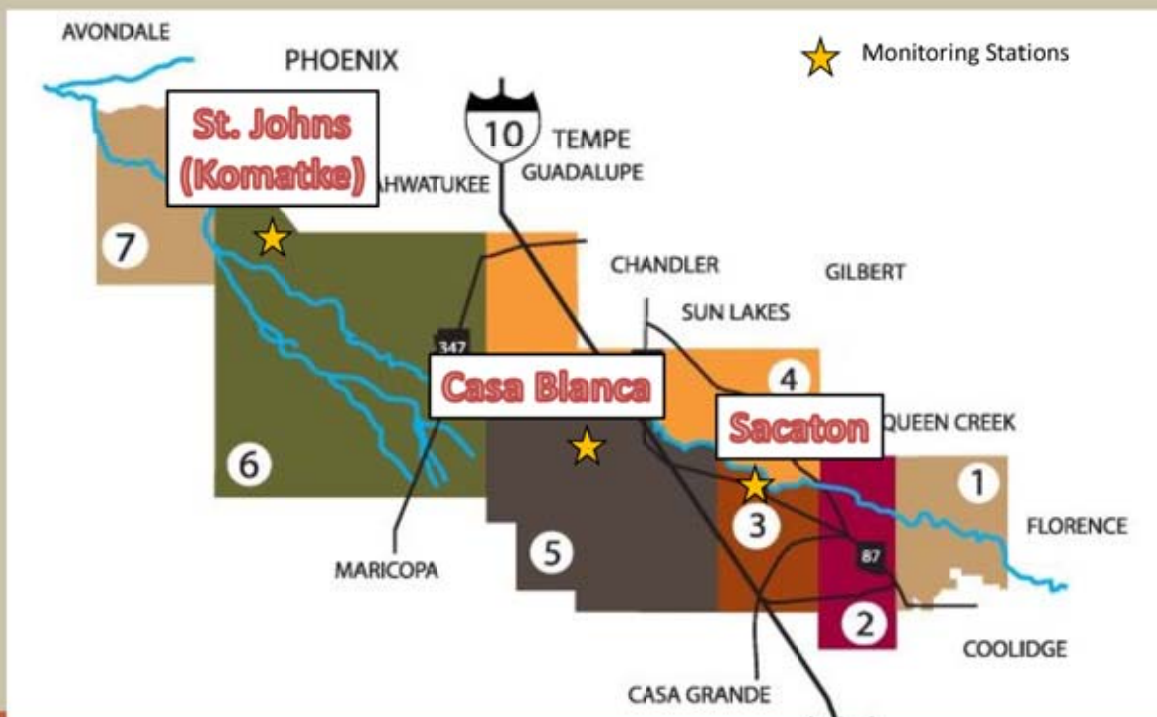
GILA RIVER INDIAN COMMUNITY DEPARTMENT OF ENVIRONMENTAL QUALITY

2020 GRIC Air Monitoring Network Review



GRIC Air Monitoring Network

2





Air Monitoring Network Plan

- Requirement for Regulatory Monitoring
- Includes
 - Description of Air Monitoring Network (AMN)
 - Review of 2020 Performance/Data/Changes
 - Recommendations for 2021 Network Changes
- Requires 30-Day Public Comment Period
- Plan due to US EPA by July 1, 2021



2020 Summary

- 97-100% Data Completeness (Valid Data)
- Seasonal Monitoring for Ozone
 - April – October
- Data Management System Software Upgrades
- Completed 5-Year Air Monitoring Network Assessment



2021 Activities

- No Significant Changes to Network in 2021
- EPA Audit Conducted March 2021
- Revise Quality Assurance Project Plan (QAPP)
- Continue Seasonal Ozone Monitoring
 - (April – October)



The Air Quality Index (AQI)

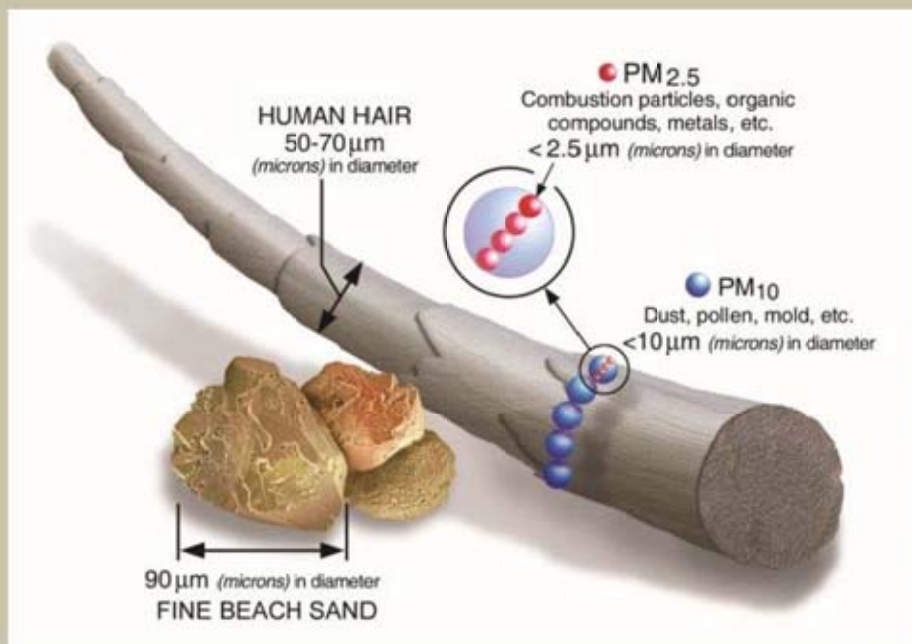


Note: Hazardous is extremely rare and not included in the Flag Program

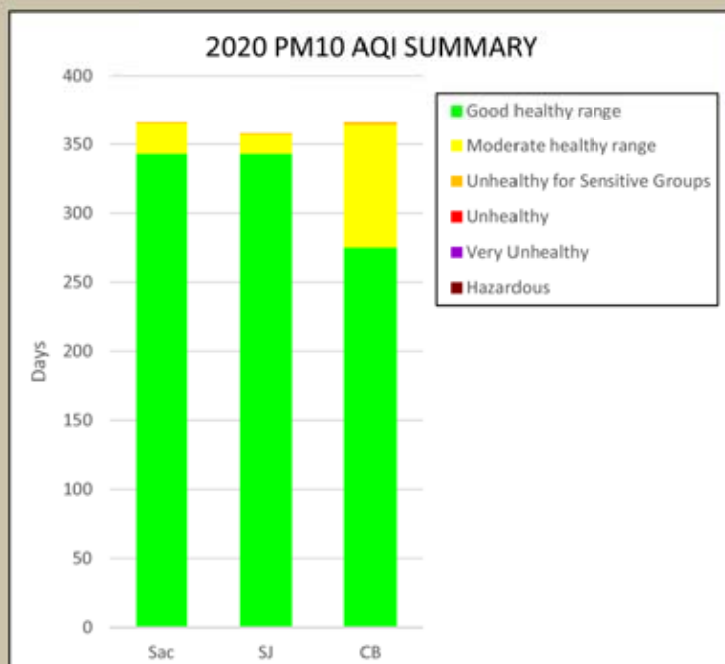
- Indicator of how clean (or polluted) the air is
- Colors associated with health affects/action steps
- Orange ~ Exceedance of National Ambient Air Quality Standard (NAAQS)



What Is PM10?



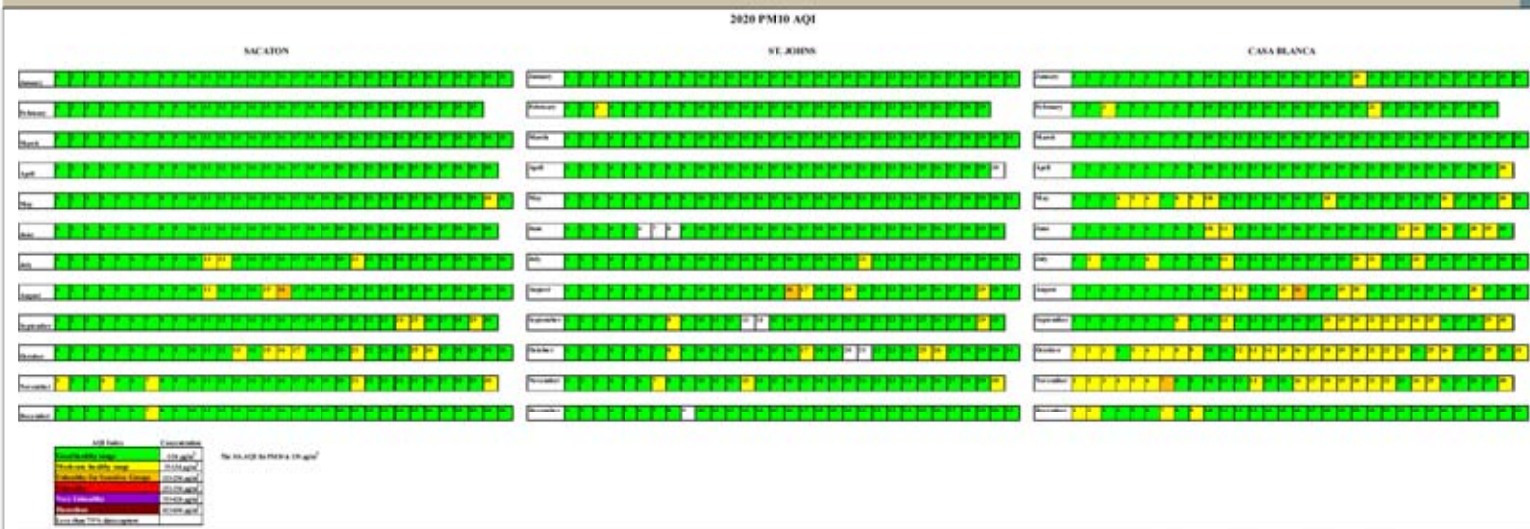
2020 PM10 Results



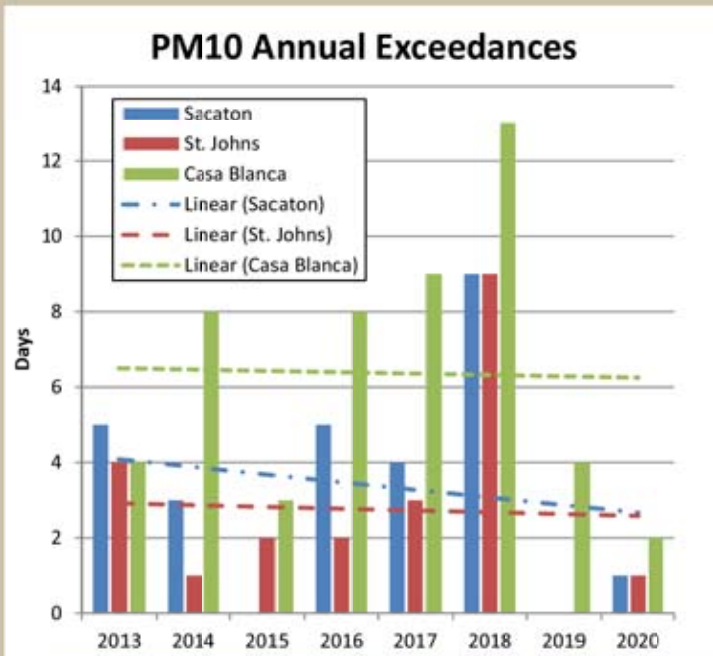
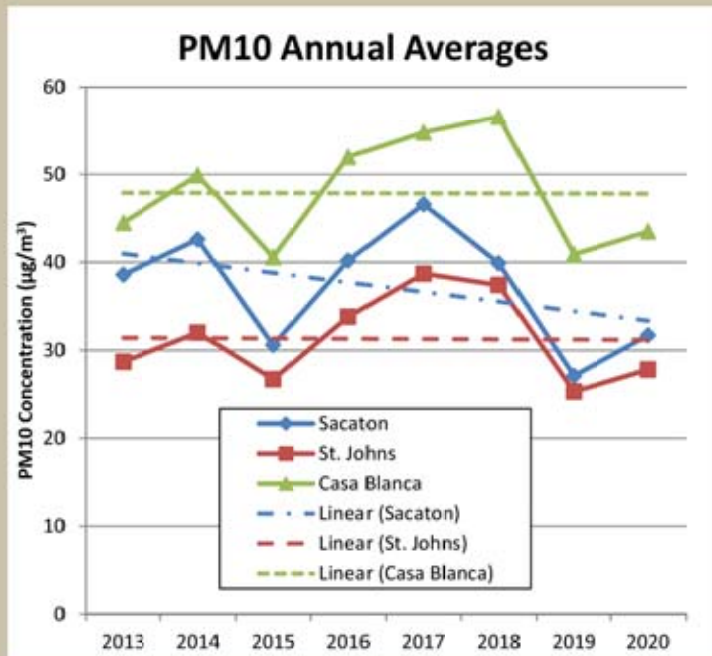
- Most days good/moderate
- CB has more moderate days due to surrounding agricultural activities



2020 PM10 Results



PM10 Trends





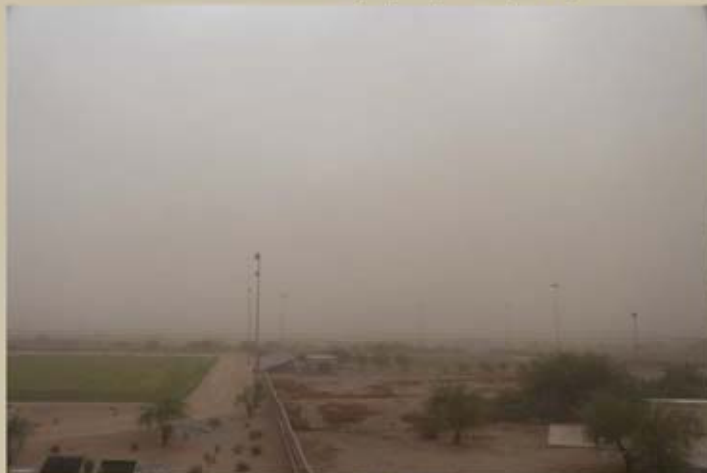
Normal vs. Exceedance Day

Normal Day (SJ) – 8/15/20



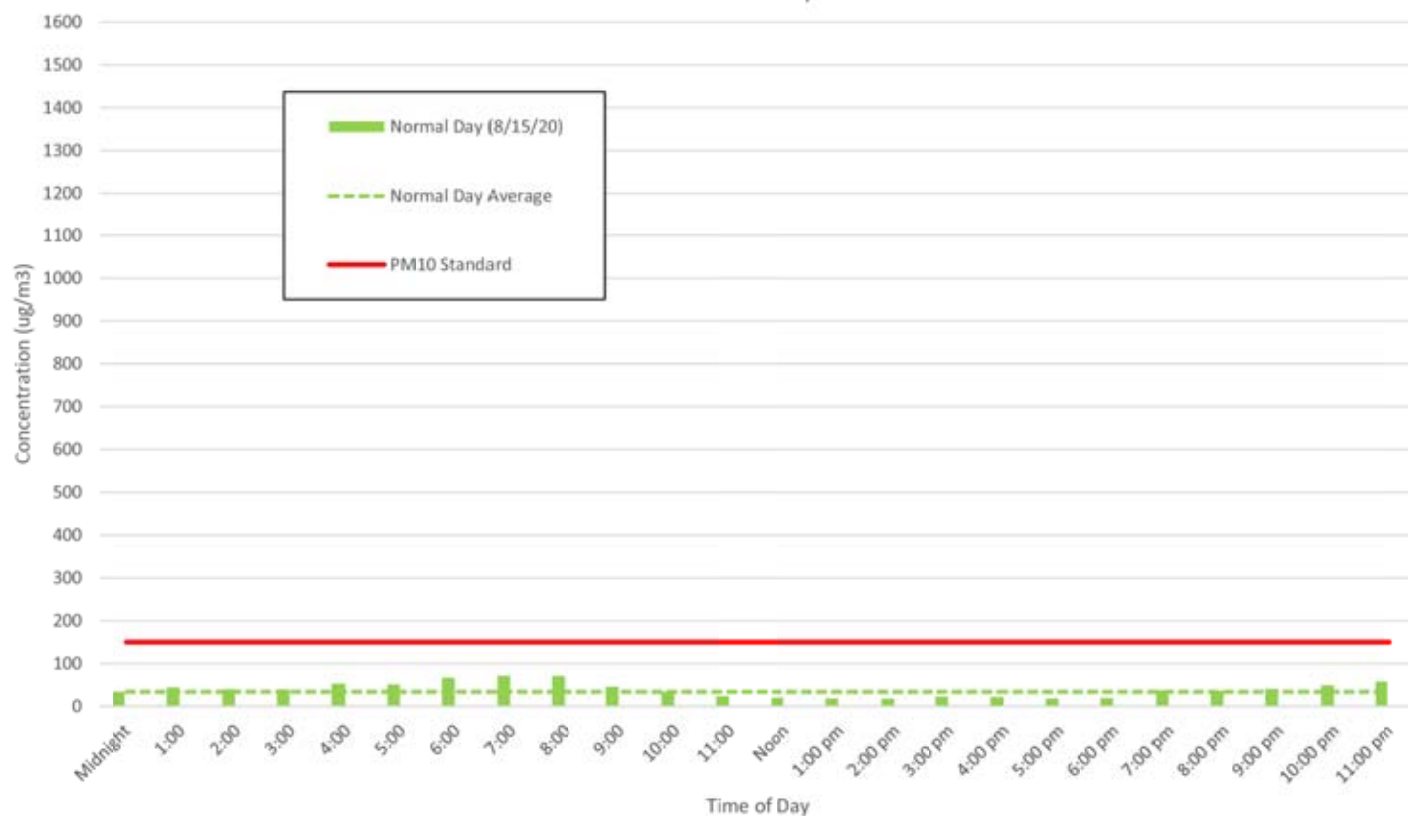
6:40pm

Exceedance Day (SJ) – 8/16/20

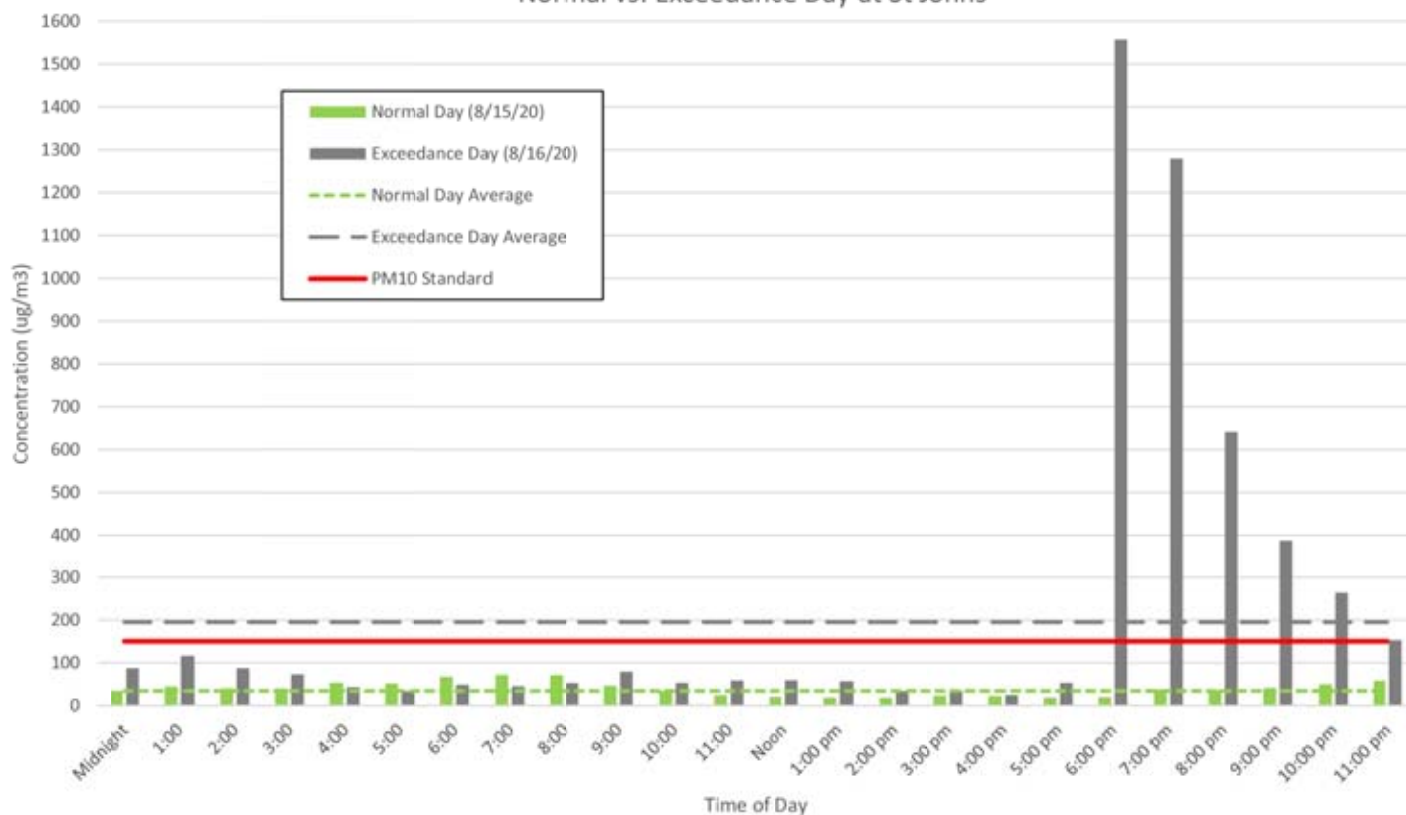


6:40pm

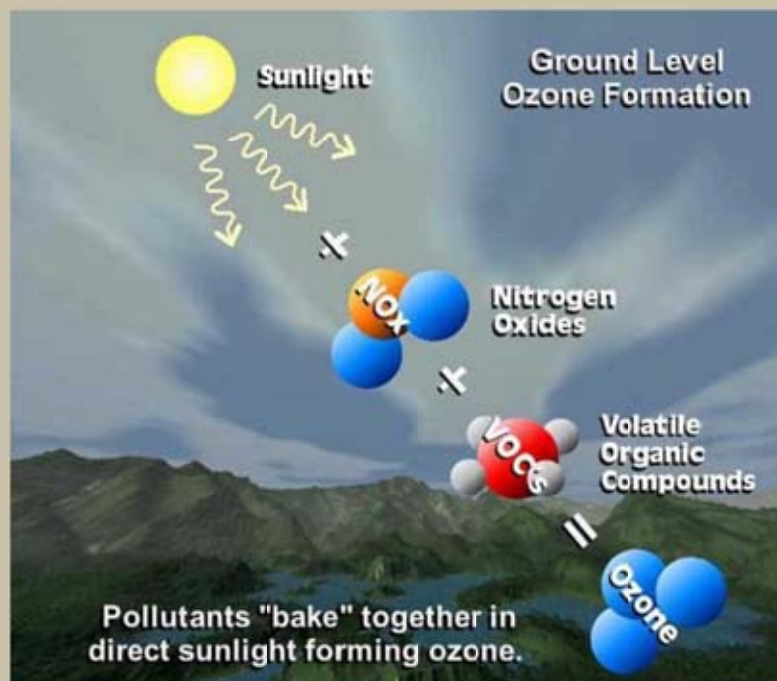
Normal vs. Exceedance Day at St Johns



Normal vs. Exceedance Day at St Johns

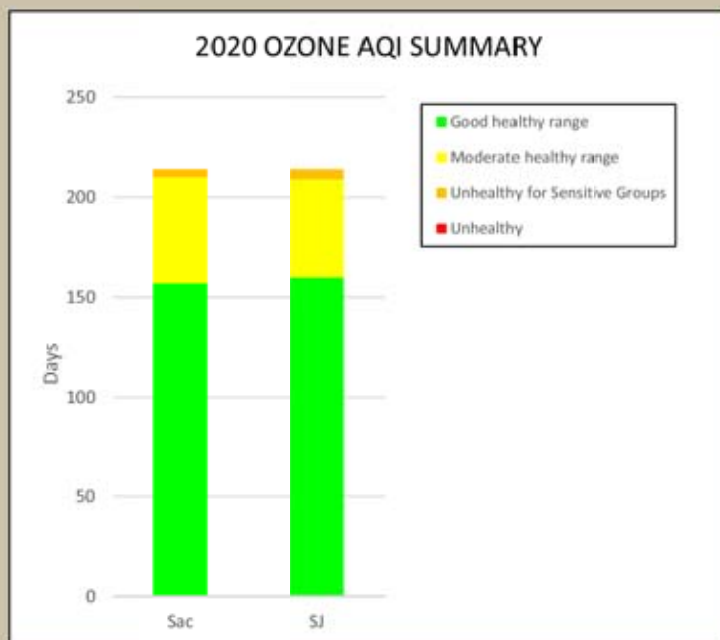


What Is Ozone?





2020 Ozone Results



- Most days good/moderate
- Ozone not historically a problem for Community

BUT...

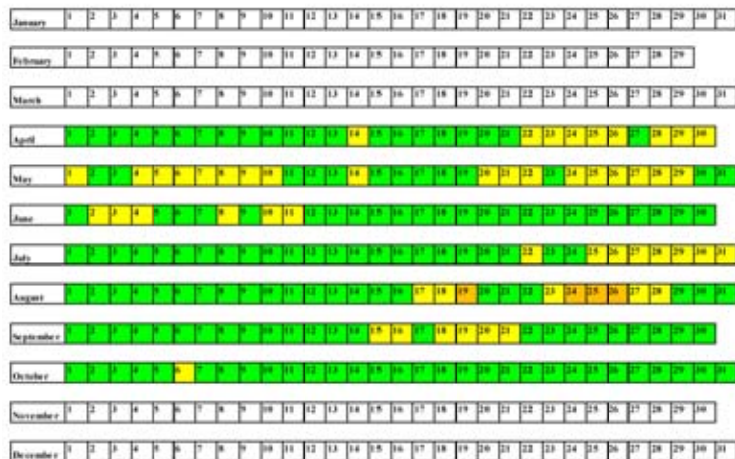
- GRIC borders Phoenix Metro Area



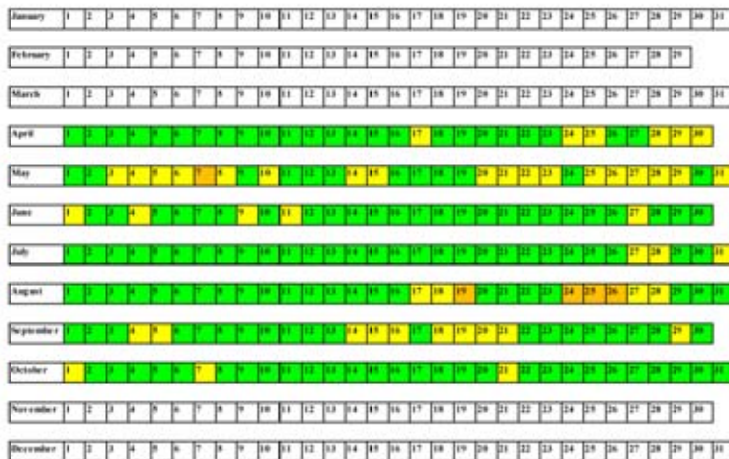
2020 Ozone Results

2020 Ozone AQI

SACATON



ST. JOHNS



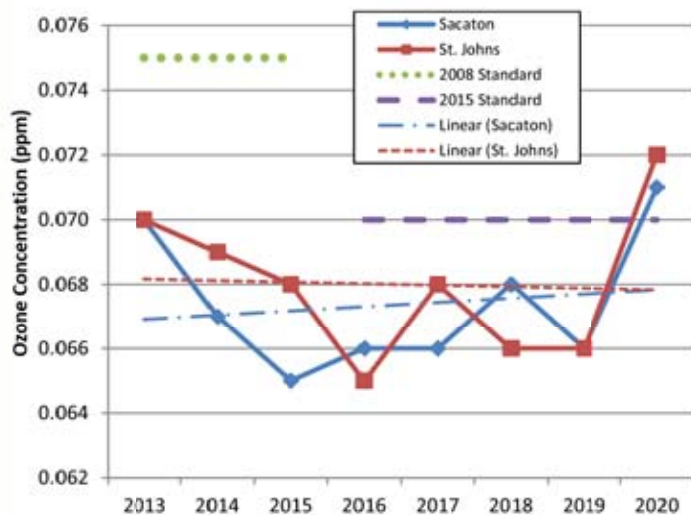
AQI Index	Concentration
Good healthy range	0 - 0.054 ppm
Moderate healthy range	0.055 - 0.070 ppm
Unhealthy for Sensitive Groups	0.071 - 0.085 ppm
Unhealthy	0.086 - 0.104 ppm
Less than 75% data capture	

The NAAQS for Ozone is 0.070 ppm.

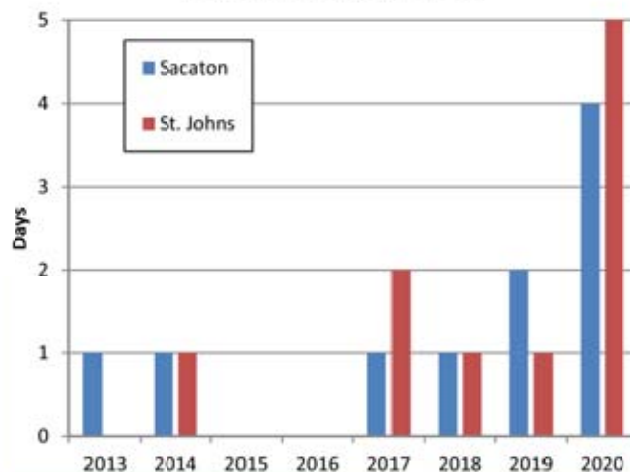


Ozone Trends

Annual 4th Highest Ozone Concentration



Days With at Least One 8-Hour Average Ozone Concentration Above the NAAQS



www.gricdeq.org

DEQ RELOCATION

ABOUT GRIC DEQ

EVENT CALENDAR

EDUCATION & OUTREACH

AIR QUALITY PROGRAM

PESTICIDE CONTROL PROGRAM

WASTE PROGRAM

WATER QUALITY PROGRAM

WILDLIFE PROGRAM

NEWS & HIGHLIGHTS



EARTH DAY 2020
MESSAGE FROM
GOV. LEWIS & DEQ



CHUKWALLA
TRANSLLOCATION
SOUTH MOUNTAIN
CHUKWALLA
RELOCATED DUE TO
CONSTRUCTION



BALD EAGLES
BAITED WITH
TELEMETRY



WHAT IS THAT
RED LIQUID?



2019 RECYCLING
CALENDAR
DON'T MISS YOUR PICK
UP DATE!



PUBLIC NOTICE

EDUCATION & OUTREACH

PUBLIC NOTICES

GENERAL

Documents for Public Comment

Public Meeting Announcement

None scheduled at this time

PESTICIDE

Public Meeting Announcement

None scheduled at this time

WATER QUALITY PROGRAM

Public Meeting Announcement

None scheduled at this time

AIR QUALITY PROGRAM

Documents for Public Comment

- 1. Draft 2019 Annual Monitoring Network Review (AMNR) →
- 2. Support Document - 2019 AMNR Presentation →
- 3. Support Document - Frequently Asked Questions →

GILA RIVER
INTERACTIVE TMAP

AIR QUALITY FLAG
PROGRAM

WINTER BIRD COUNT

EARTH DAY

COMPOSTING

CAUTION COYOTE

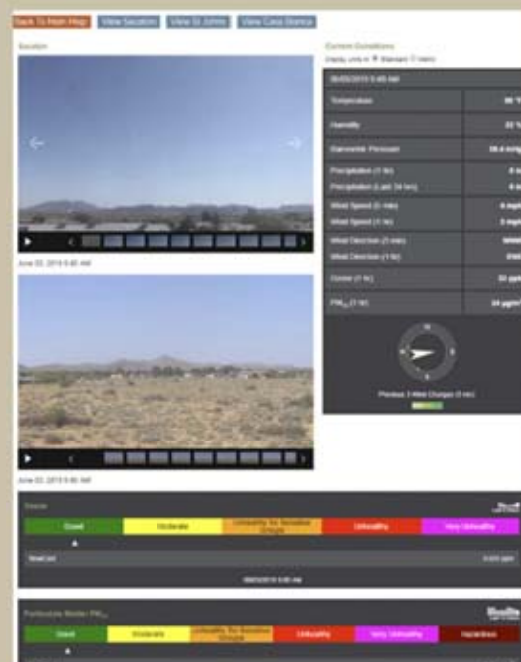
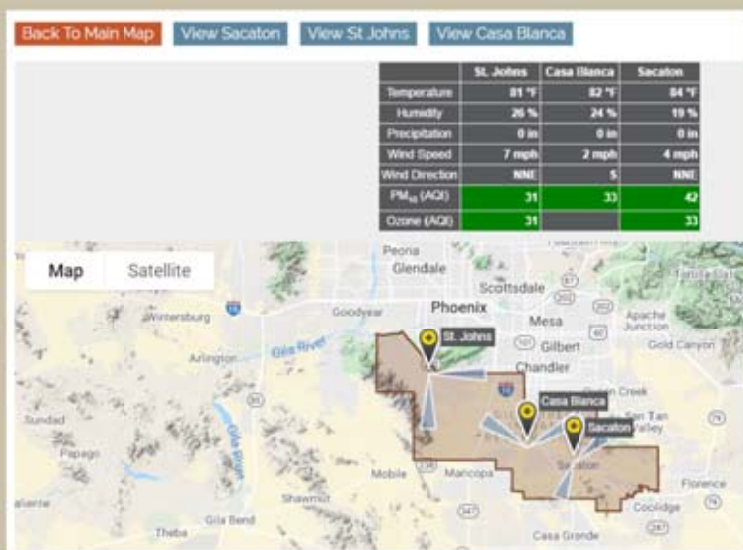
WATER QUALITY
OUTREACH

PUBLIC NOTICES



Realtime Air Quality Info

www.gricdeq.org → Air → Ambient Air Monitoring **OR**



Contact Information

Ryan Eberle
Air Quality Program
(520) 562-2234
Ryan.Eberle@gric.nsn.us

Leroy Williams
Air Monitoring Network Review
(520) 562-2234
Leroy.WilliamsJR@gric.nsn.us

DEQ Air Quality Office:
168 Skill Center Dr.
Sacaton, AZ 85147
air@gric.nsn.us
www.gricdeq.org

