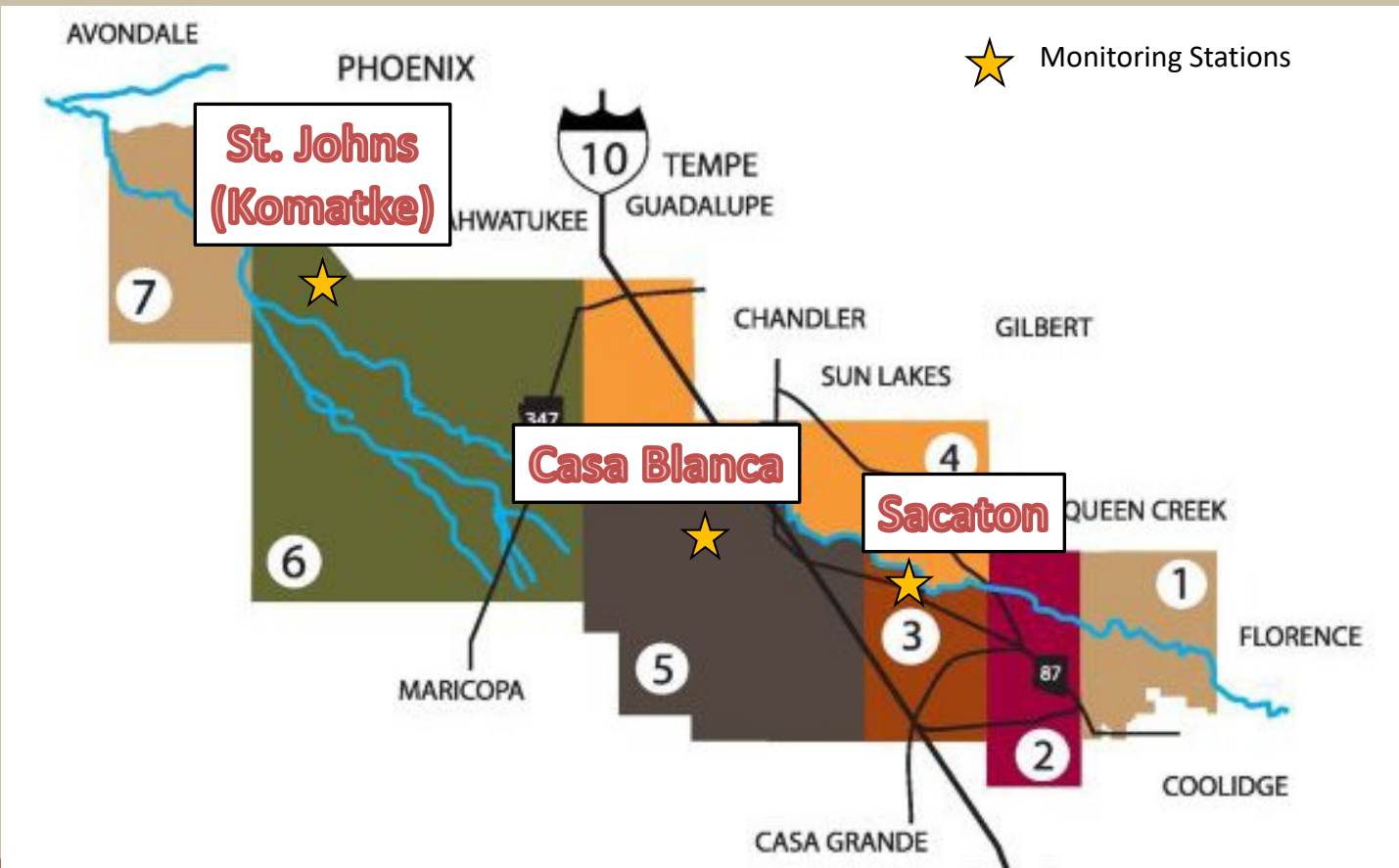


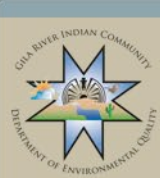


GILA RIVER INDIAN COMMUNITY DEPARTMENT OF ENVIRONMENTAL QUALITY

2021 GRIC Air Monitoring Network Review

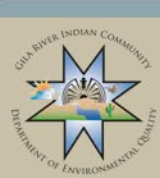
GRIC Air Monitoring Network





Air Monitoring Network Plan

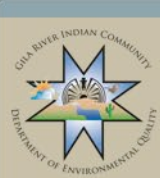
- Requirement for Regulatory Monitoring
- Includes
 - Description of Air Monitoring Network (AMN)
 - Review of 2021 Performance/Data/Changes
 - Recommendations for 2022 Network Changes
- Requires 30-Day Public Comment Period
- Plan due to US EPA by July 1, 2022



2021 Summary

- 98-100% Data Completeness (Valid Data)
- Seasonal Monitoring for Ozone
 - April – October
- Data Management System Upgrades
- EPA audited network March 2021
 - Final report pending

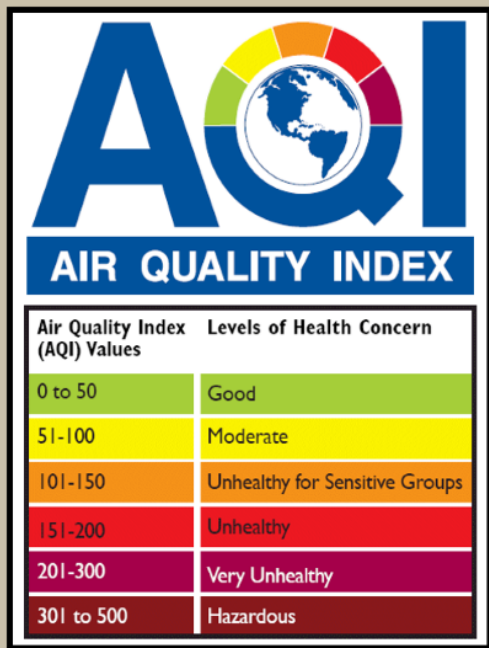




2022 Activities

- Upgrade dataloggers & meteorological sensors
- Revise Quality Assurance Project Plan (QAPP)
- Continue Seasonal Ozone Monitoring
 - (April – October)

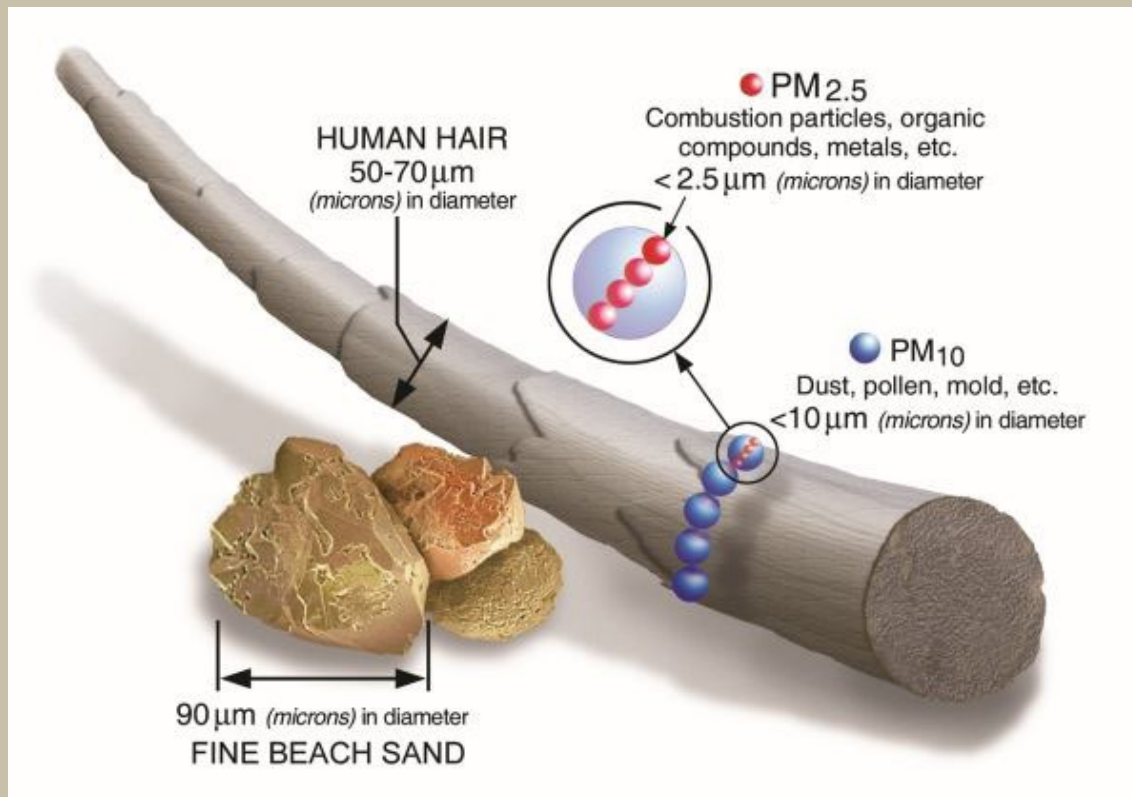
The Air Quality Index (AQI)

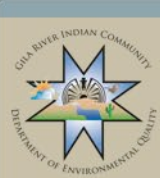


Note: Hazardous is extremely rare and not included in the Flag Program

- 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)

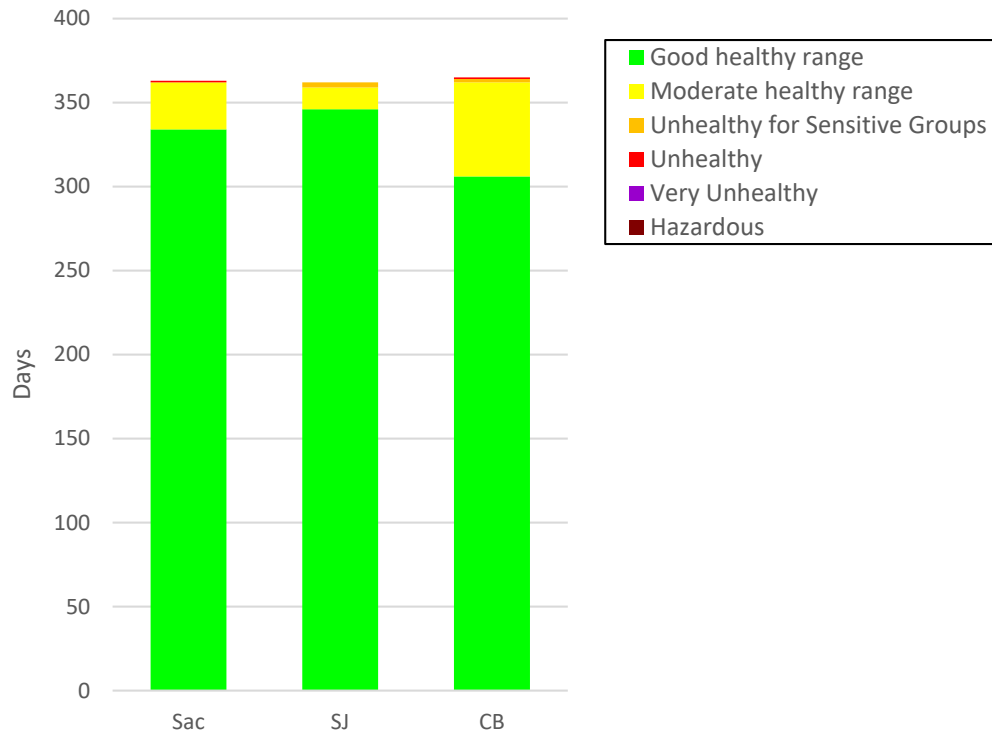
What Is PM10?



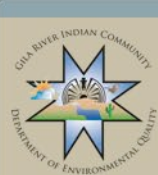


2021 PM10 Results

2021 PM10 AQI SUMMARY



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



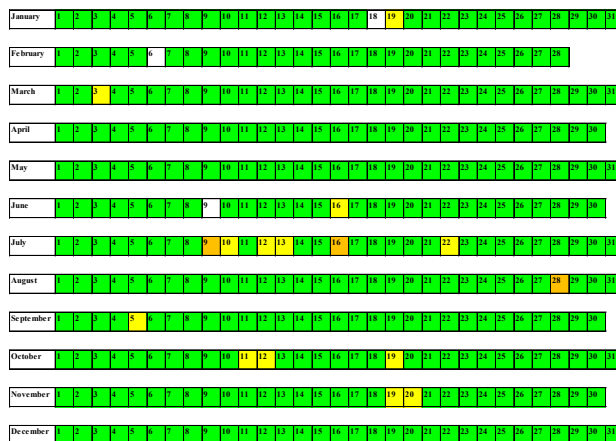
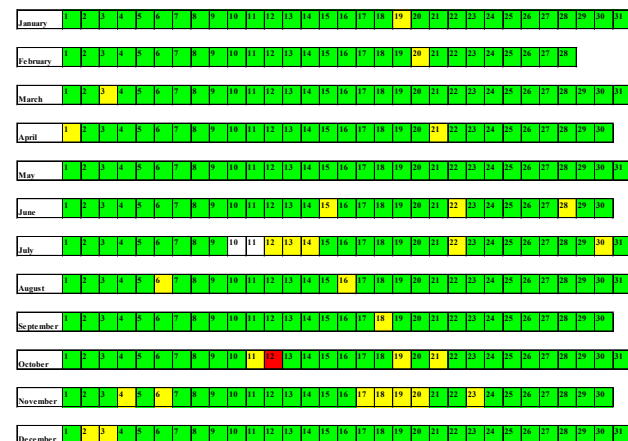
2021 PM10 Results

2021 PM10 AQI

SACATON

ST. JOHNS

CASA BLANCA

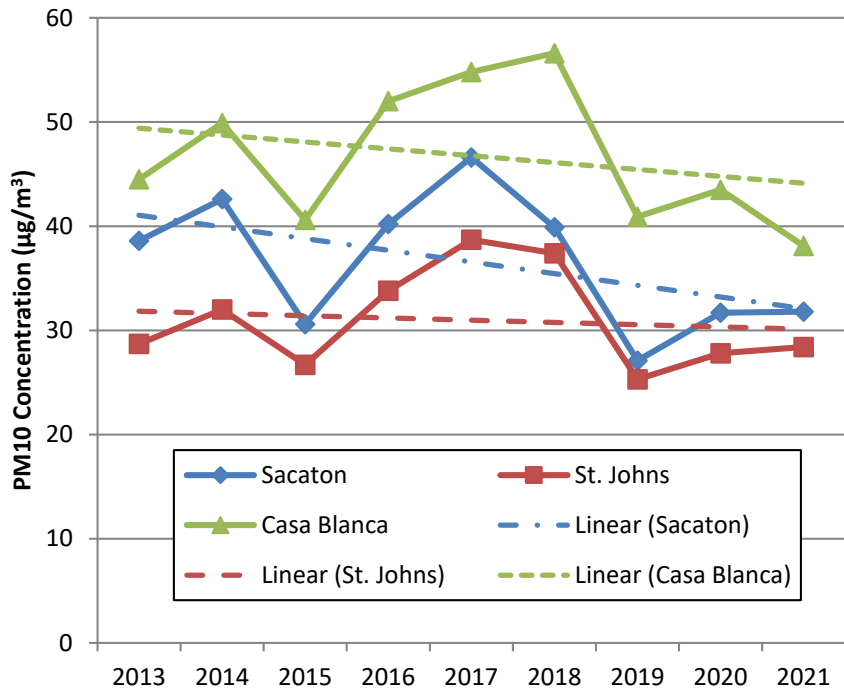


AQI Index	Concentration
Good/healthy range	0-54 $\mu\text{g}/\text{m}^3$
Moderate/healthy range	55-154 $\mu\text{g}/\text{m}^3$
Unhealthy for Sensitive Groups	155-254 $\mu\text{g}/\text{m}^3$
Unhealthy	255-354 $\mu\text{g}/\text{m}^3$
Very Unhealthy	355-454 $\mu\text{g}/\text{m}^3$
Hazardous	455-604 $\mu\text{g}/\text{m}^3$
Less than 75% data capture	

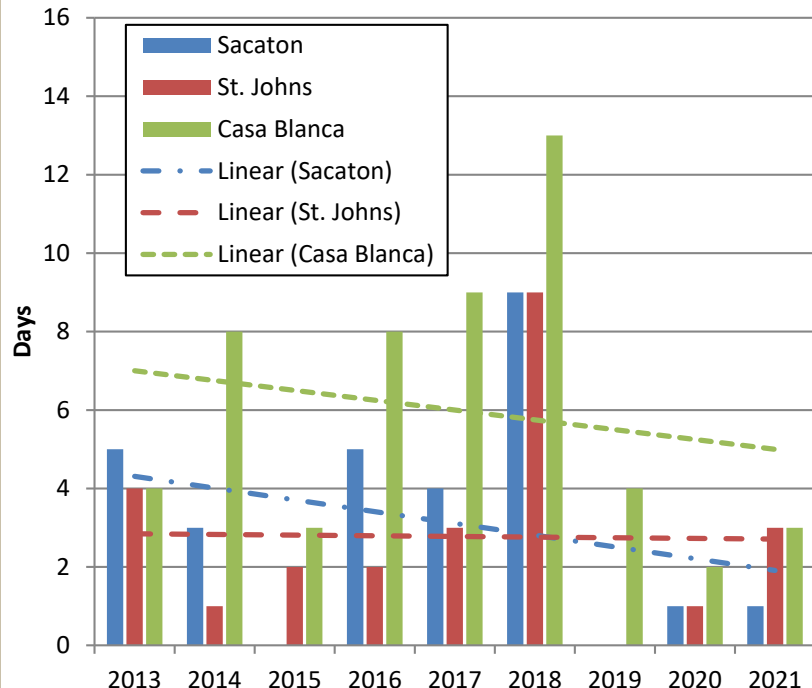
The NAAQS for PM10 is 150 $\mu\text{g}/\text{m}^3$

PM10 Trends

PM10 Annual Averages



PM10 Annual Exceedances



Normal vs. Exceedance Day

Normal Day (SJ) – 8/15/20



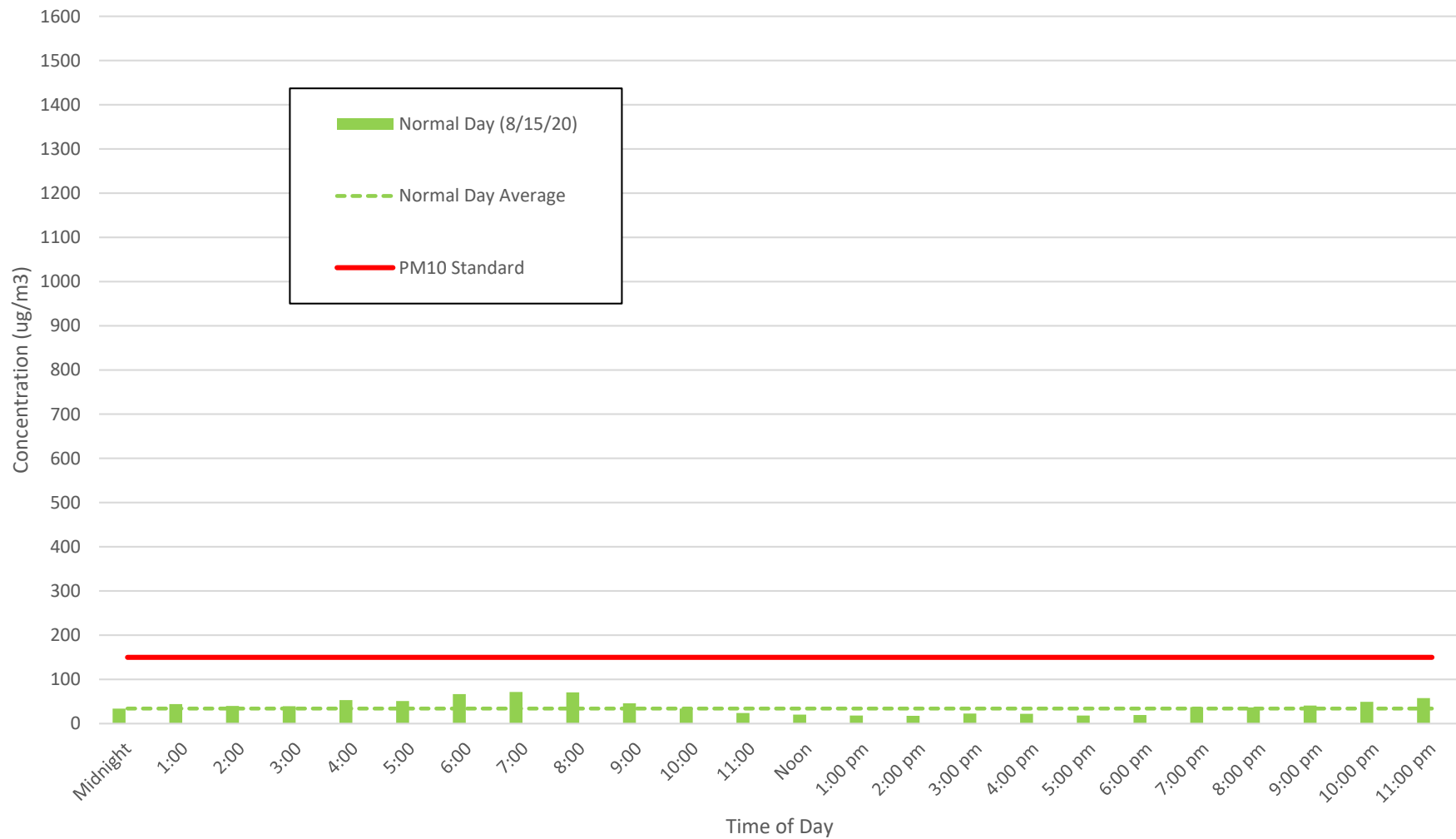
6:40pm

Exceedance Day (SJ) – 8/16/20

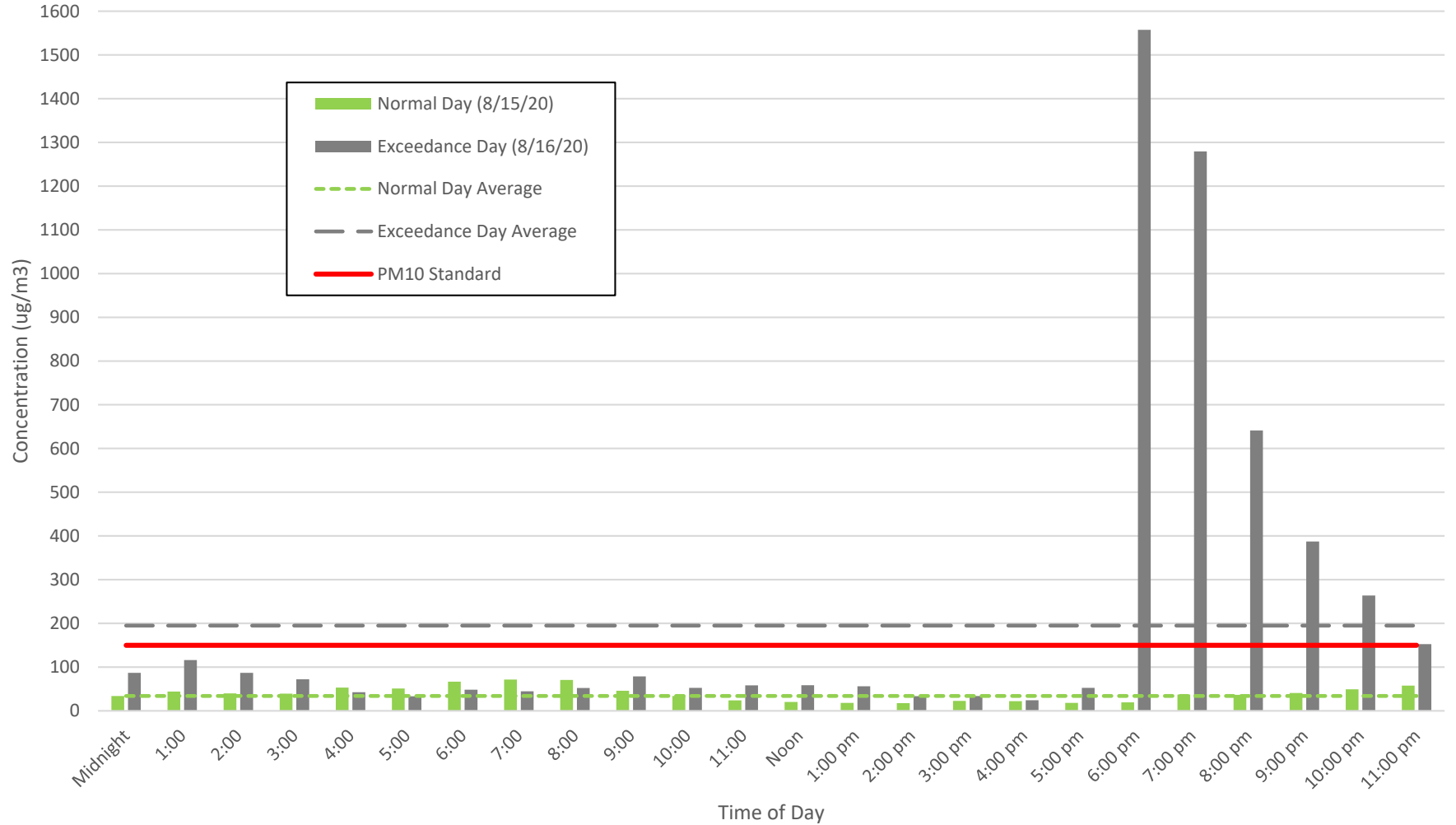


5:35pm 5:45pm 5:50pm 6:00pm 6:10pm 6:20pm 6:30pm 6:40pm 6:50pm 7:00pm 7:10pm 7:20pm 7:30pm

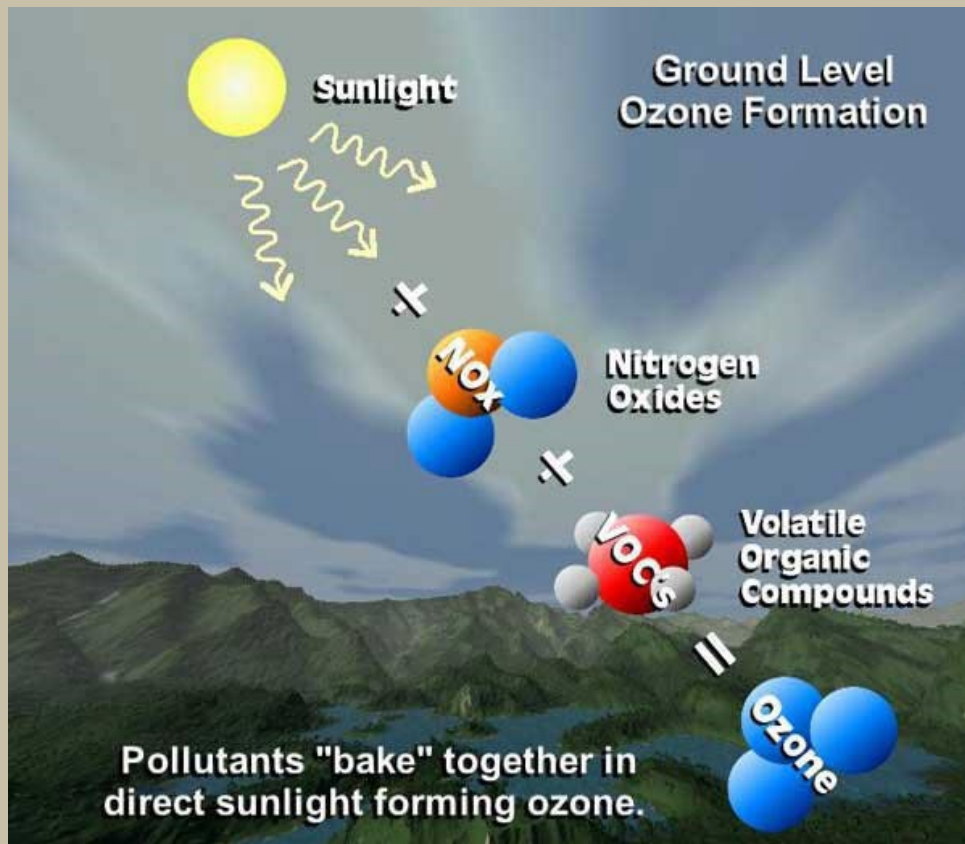
Normal vs. Exceedance Day at St Johns



Normal vs. Exceedance Day at St Johns

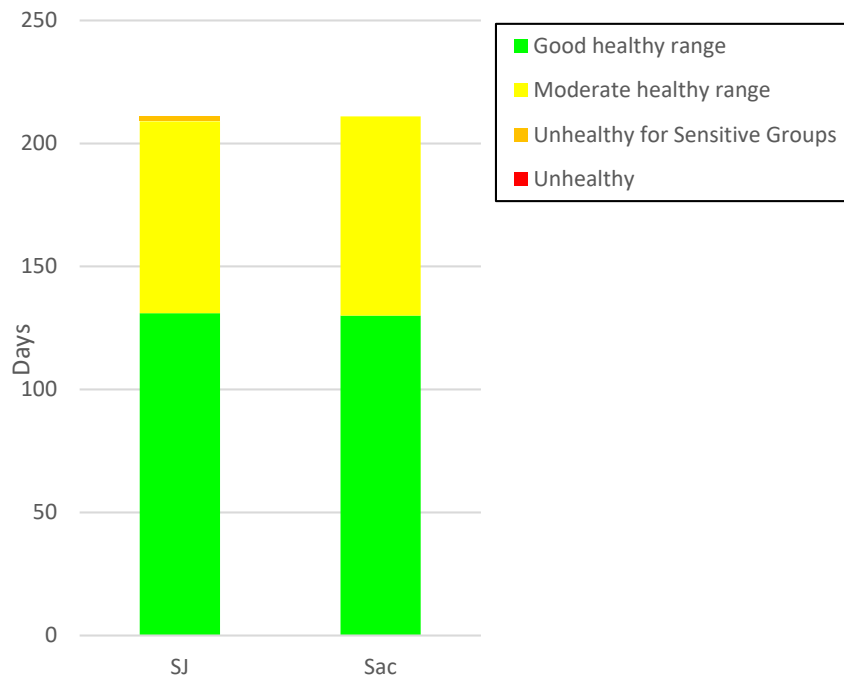


What Is Ozone?



2021 Ozone Results

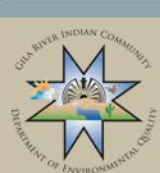
2021 OZONE AQI SUMMARY



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

BUT...

- GRIC borders Phoenix Metro Area



2021 Ozone Results

2021 Ozone AQI

ST. JOHNS

January	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
February	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
March	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
April	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
August	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
September	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
October	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
November	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
December	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

SACATON

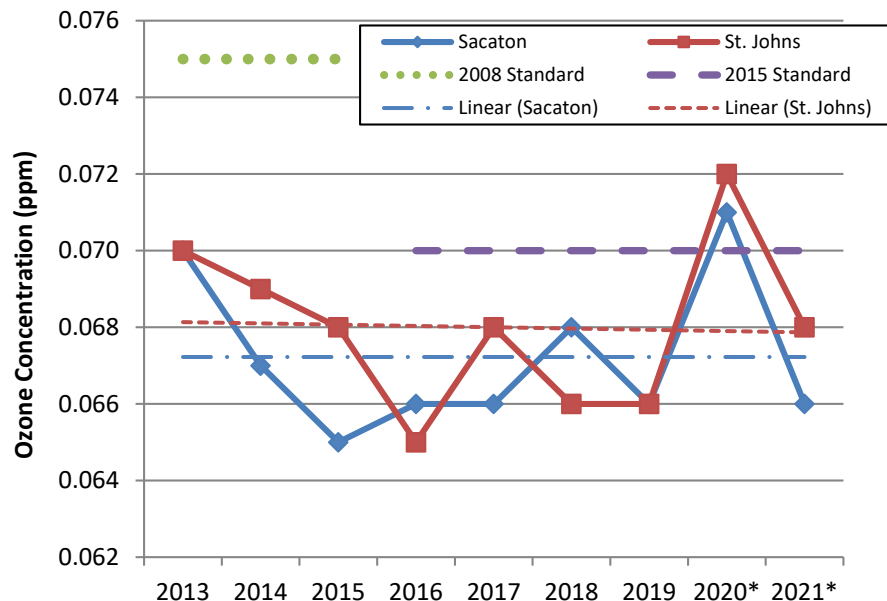
January	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
February	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
March	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
April	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
August	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
September	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
October	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
November	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
December	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

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 - 0.105 ppm
Less than 75% data capture	

The NAAQS for Ozone is 0.070 ppm

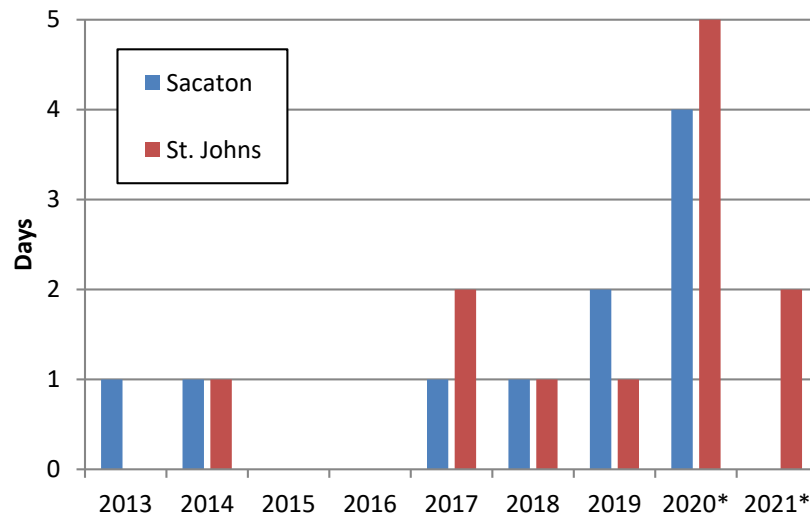
Ozone Trends

Annual 4th Highest Ozone Concentration



*Includes Data Flagged as Exceptional Events

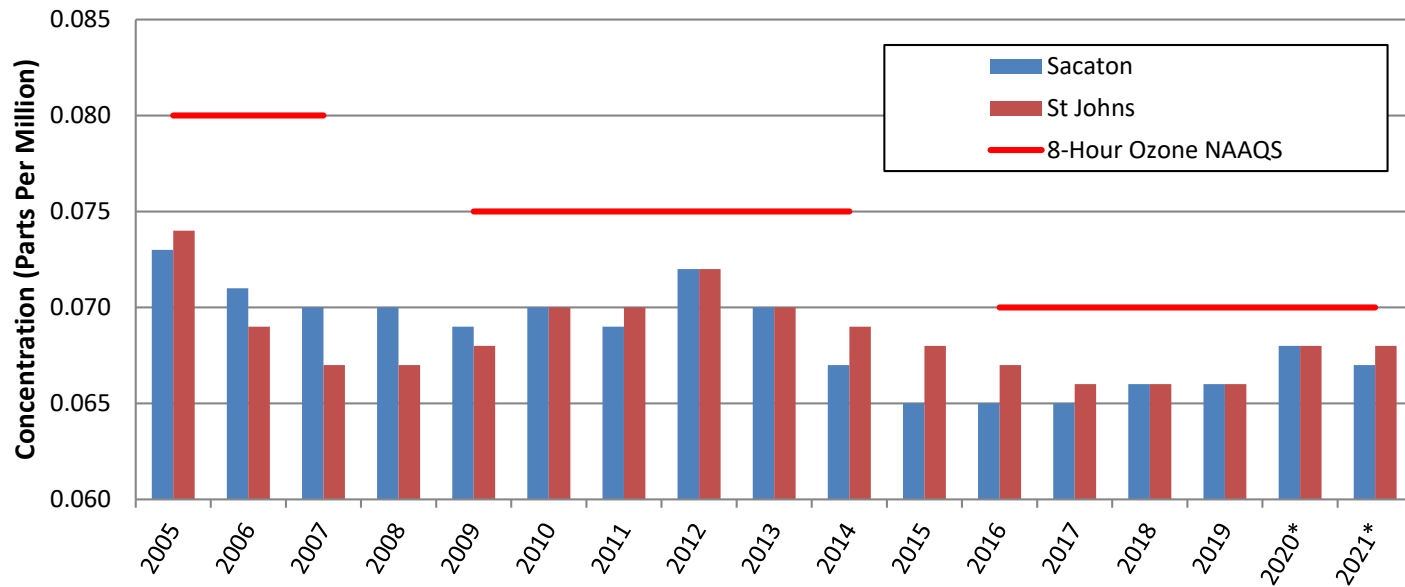
Days With at Least One 8-Hour Average Ozone Concentration Above the NAAQS



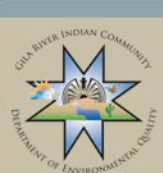
*Includes Data Flagged as Exceptional Events

Ozone Design Value

GRIC Air Monitoring Network's Ozone Design Values, 2005-2021



*Includes Data Flagged as Exceptional Events



www.gricdeq.org

DEQ RELOCATION

ABOUT GRIC DEQ

Learn how we can help

EVENT CALENDAR

Discover what's coming up >

[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



CHUCKWALLA
TRANSLOCATION
SOUTH MOUNTAIN
CHUCKWALLAS
RELOCATED DUE TO
CONSTRUCTION



BALD EAGLES
BALD EAGLE
OUTFITTER WITH
TRANSMITTER



WHAT IS THAT
RED LIQUID?



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



PUBLIC NOTICE

PUBLIC NOTICES

WILDLIFE

2022 GRIC FERAL HORSE MANAGEMENT PLAN INFO SHEET

2022 GRIC FERAL HORSE MANAGEMENT PLAN FREQUENTLY ASKED QUESTIONS

PESTICIDE

PUBLIC COMMENT: 2022 DRAFT Pesticide Ordinance

2022 Pesticide Ordinance White Paper

Moratorium - Aerial Application of Pesticides and Fertilizers

WATER QUALITY PROGRAM

Public Meeting Announcement:

None scheduled at this time

AIR QUALITY PROGRAM

Pursuant to 40 Code of Federal Regulations (CFR) 568.10 Gila River Indian Community (GRIC) Department of Environmental Quality (DEQ) Air Quality Program (AQP) will make its annual monitoring network plan available for public inspection prior to submission to the United States Environmental Protection Agency. The Annual Ambient Monitoring Network Review and Data Summary present changes to and data collected from the air quality monitoring network during calendar year 2019. This document will be available for review at the GRIC DEQ office located at 168 Skill Center Dr. Sacaton, AZ 85147, and on the AQP website at www.gricdeq.org under Public Notices.

Public comments may be submitted in writing to GRIC DEQ Air Quality, P.O. Box 97, Sacaton, Arizona, 85147. Additional information is available from GRIC DEQ Air Quality, 168 Skill Center Dr. Sacaton, AZ 85147; the AQP website (www.gricdeq.org under Air), or by calling 520-652-2234.

[2020 Ambient Air Monitoring Network Review →](#)
[2020 Ambient Air Monitoring Network Review Fact Sheet →](#)
[2020 Ambient Air Monitoring Network Presentation →](#)

GILA RIVER INTERPRETIVE
TRAIL

AIR QUALITY FLAG PROGRAM

WINTER BIRD COUNT

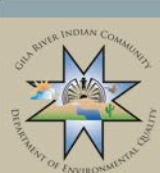
EARTH DAY

COMPOSTING

CAUTION COYOTE

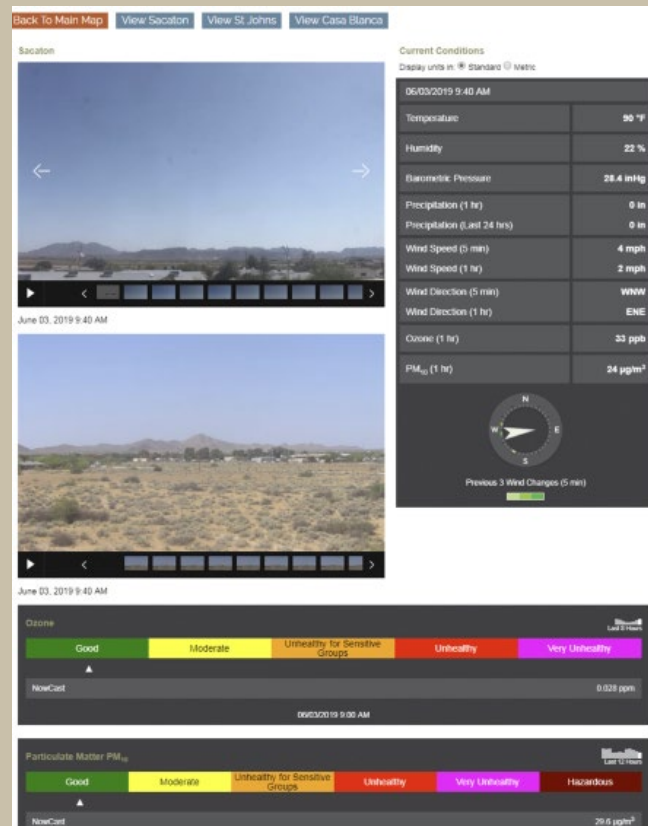
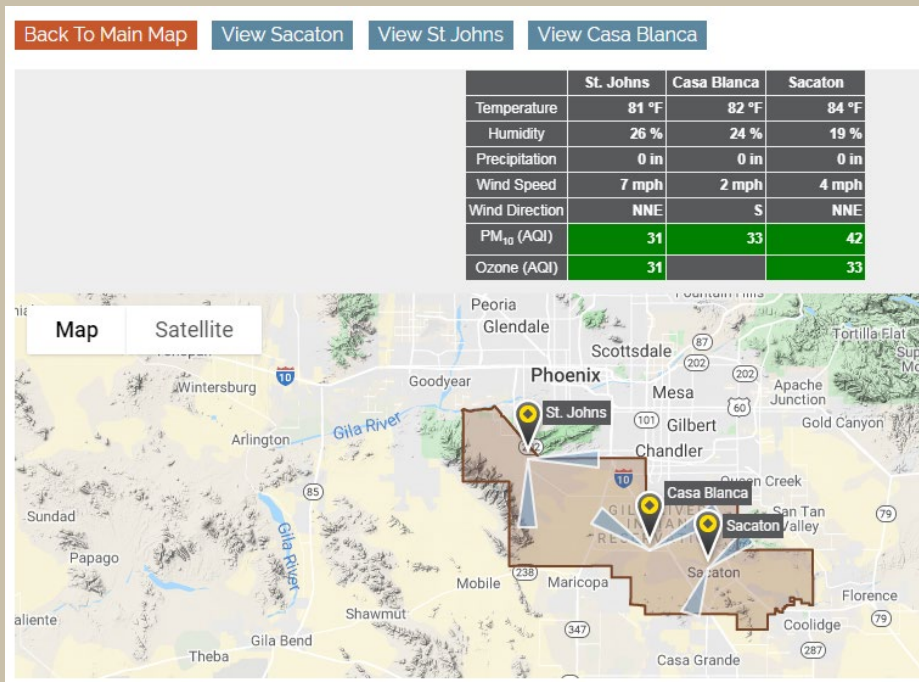
WATER QUALITY OUTREACH

PUBLIC NOTICES



Realtime Air Quality Info

www.gricdeg.org → Air → Ambient Air Monitoring OR





Air Quality Notifications (EnviroFlash)

AirNow
EnviroFlash

[EnviroFlash Home](#)
[EnviroFlash Challenge](#)
[EnviroFlash Fact Sheet \(PDF\)](#)
Learn how EnviroFlash works!
Free AirNow iPhone & Android Apps! [iPhone App](#) | [Android App](#)
[EnviroFlash on Twitter!](#)
[AirNow RSS Feeds](#)
[EnviroFlash Toolkit](#)
Available to AirNow partner agencies
[About the Air Quality Index \(AQI\) \(PDF\)](#)
[Today's National Air Quality Forecast](#)
[Recommend to a friend](#)
[About EnviroFlash](#)

Subscribe to EnviroFlash **Manage Your Account**

Sign up and Start Receiving Your Air Quality Forecast Today!
Fill out the form below to get started.

Subscriber Information

Email Address: * [Receive as a text message?](#)
Confirm Email: *
First Name:
Last Name:
ZIP Code: *
** required fields*

City Selection [Change City](#)

Nearest EnviroFlash City:

Email Preferences

Format
☒ HTML ☐ Text Only ☐ Short

Receive Action Day Notifications: ☒
Receive Forecasts: ☐ *Forecasts are unavailable for this city.*
Receive Current Conditions: ☐ *Current Conditions are unavailable for this city.*

<http://www.enviroflash.info/signup.cfm>

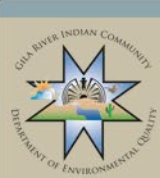
Need help signing up? Contact:

Tison Gill

Education/Outreach Specialist

Tison.Gill.DEQ@gric.nsn.us

520-610-9950



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 Rd.

Sacaton, AZ 85147

air@gric.nsn.us

www.gricdeq.org

