

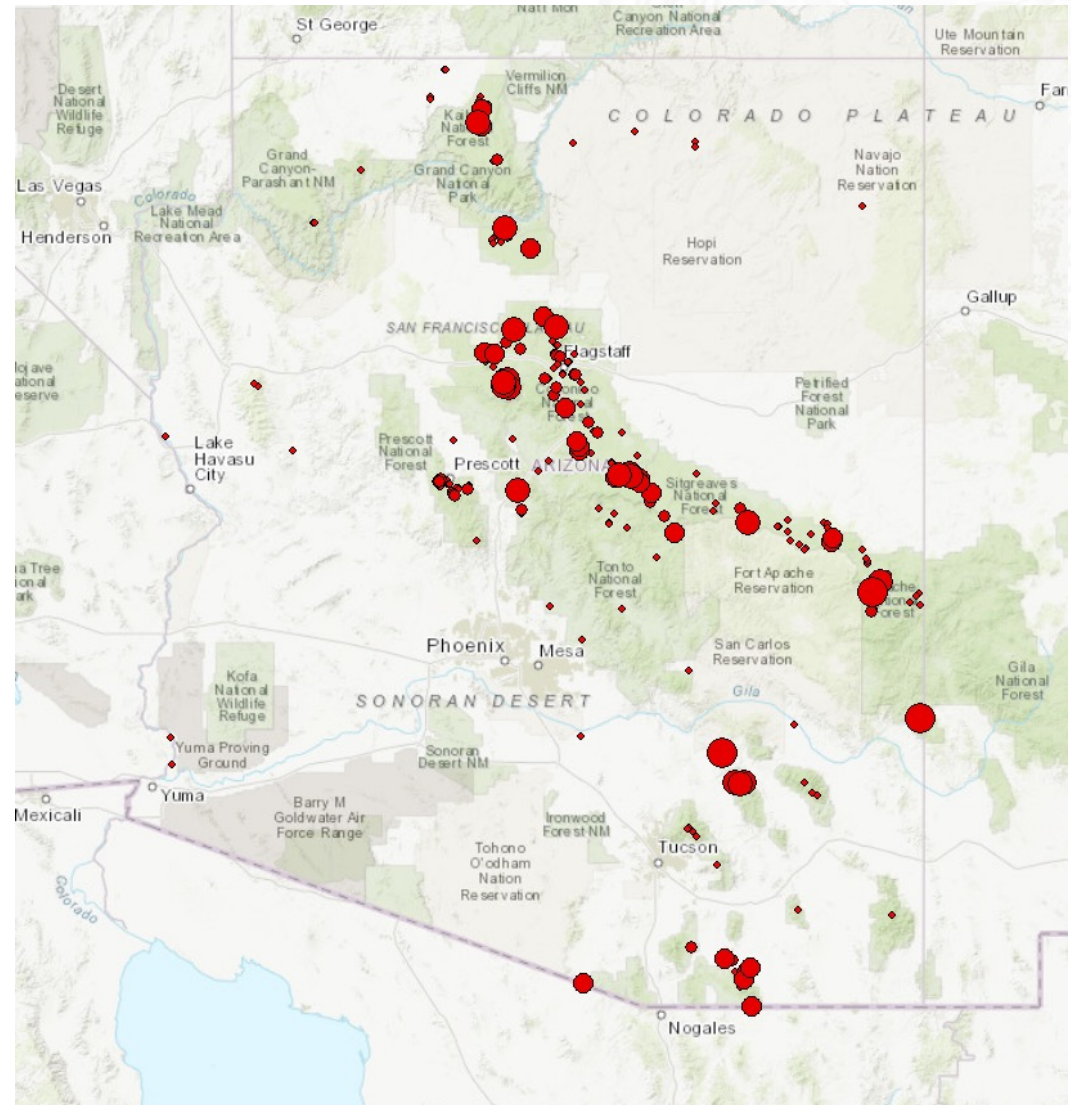
ADEQ Wildfire Smoke Forecast

Daniel Czecholinski, CHMM
Air Quality Division Director

October 20, 2022



- Average: 500-700 burn requests per year
- Approve on average 150,000-225,000 acres per year
- Team of four meteorologists
 - Hourly AQI Forecasts
 - Exceptional Events
 - Support for the agency



- **Problem Statement**

- Wildland fire smoke forecasts are only completed and distributed to the public by USFS Air Resource Advisors (ARA's) and are only available for some, not all, significant wildland fires. In 2019, 50% of significant wildfires in Arizona had ARA's assigned. Out of those, 75% had air quality impacts before the ARA arrived. ***This means smoke impacts are not communicated to the public in a timely and effective way, 87% of the time.***



THE KEY IS COMMUNICATING ACCURATE INFORMATION



COMMUNICATION

ADEQ Wildfire Smoke Forecast

ADEQ

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Wildfire Smoke Forecast

[Updated On: 06/10/2021 - 7:55 AM](#) | [Valid Until: 06/11/2021 - 9:00 AM](#)
[Forecaster\(s\): M. Pace \(ADEQ\), R. Sherron \(USFS\)](#)

Mescal and Telegraph Fires Overview

The Mescal Fire grew by approximately 2,000 acres yesterday, bringing it to ~73,000 acres. The Telegraph is now at ~85,000 acres with a growth yesterday of around 400 acres.

Smoke Synopsis

Smoke production on the Telegraph fire overnight into this morning is less compared to what we have seen over the past few days. Smoke that is being produced is resulting in light to at times moderate impacts to the Globe-Miami area. Smoke that has settled into the region is expected to lift by 10 am.

Winds today and tomorrow will be lighter, and later this afternoon have a westerly component to them. As a result, smoke is expected to disperse ENE today, with light to moderate impacts possible to the Globe-Miami area due to the proximity to the fire. Other areas that have been seeing moderate impacts further north and east of the fire, such as Cibola, Show Low, and Eagar, may see smoke move overhead or through the region; however, impacts are expected to remain light. Whiteriver and the San Carlos/Peridot areas may see short periods of moderate smoke impacts, but for the most part, only light impacts are expected.

Overnight into tomorrow, forecasting similar smoke impacts to what is being seen this morning and what will be seen later today.

Arizona Bureau of Land Management - Arizona Department of Emergency Management - Arizona Department of Forestry and Fire Management - Arizona Department of Health Services - Wildfire Smoke and Your Health - Arizona Emergency Information Network - Arizona Emergency Wildfire Prevention - Arizona State Land Department - Inland Fire Station System - Arizona - NWSA Operations and Information Services - National Collaborative Wildland Fire Management Strategy - National Interagency Fire Center - National Fire Incident Reporting System - National Fire Protection Association - USFS Forest Service Active Fire Mapping Program

Forecast

Click the name of the city to view smoke forecast

Superior

Globe

San Carlos

Safford

Whiteriver

San Carlos

Images shown are for reference only. | [See Legend >](#)

Smoke Forecast:

Saturday

Smoke overhead with moderate smoke in the evening.

Saturday Night

Moderate to heavy smoke possible overnight

Sunday

Moderate smoke in the morning

Activity Meter

Legend: ■ - Stay Smoke Aware ■ - Minimize Outdoor Activity ■ - Stay Inside

Note: No matter what the Forecast indicates, if you feel like you are having health effects from smoke exposure, take extra care to stay indoors or only get to an area with better air quality. Please contact your healthcare provider with specific concerns.

Useful Links

[Mescal Fire IncWeb](#) | [View Page >](#)
[Telegraph Fire Incweb](#) | [View Page >](#)
[Air Resource Advisor Smoke Forecast](#) | [View Page >](#)
[ADEQ Portable PM-2.5 Monitors](#) | [View Page >](#)
[USFS Portable PM-2.5 Monitors](#) | [View Page >](#)

Fire Information Contact

Phone: Mescal: 602-428-5397 Telegraph: 480-608-2054
 Email:

Create PDF Version of Smoke Forecast

Select the locations to display in the PDF. [Note:](#) Works best to select less than five locations.

Miami Area
 Superior
 San Carlos
 Safford
 Whiteriver
 Cibola
 Show Low
 Eagar

Create PDF Forecast

Wildfire Smoke Forecast

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Forecast

Click the name of the city to view smoke forecast

Superior

Globe

San Carlos

Safford

Whiteriver

San Carlos

Images shown are for reference only. | [See Legend >](#)

Smoke Forecast:

Saturday

Smoke overhead with moderate smoke in the evening.

Saturday Night

Moderate to heavy smoke possible overnight

Sunday

Moderate smoke in the morning

Activity Meter

Legend: ■ - Stay Smoke Aware ■ - Minimize Outdoor Activity ■ - Stay Inside

Location	Activity Level
12am - Sat	2
3am - Sat	2
6am - Sat	3
9am - Sat	2
12pm - Sat	1
3pm - Sat	1
6pm - Sat	1
9pm - Sat	2
12am - Sun	2
3am - Sun	3
6am - Sun	3

Useful Links

- [Mescal Fire IncWeb](#) | [View Page >](#)
- [Telegraph Fire Incweb](#) | [View Page >](#)
- [Air Resource Advisor Smoke Forecast](#) | [View Page >](#)
- [ADEQ Portable PM-2.5 Monitors](#) | [View Page >](#)
- [USFS Portable PM-2.5 Monitors](#) | [View Page >](#)

Fire Information Contact

Phone: Mescal: 602-428-5397 Telegraph: 480-608-2054
 Email:

Create PDF Version of Smoke Forecast

Select the locations to display in the PDF. [Note:](#) Works best to select less than five locations.

- Miami Area
- Superior
- San Carlos
- Safford
- Whiteriver
- Cibola
- Show Low
- Eagar

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- REGIONS CENTER
- EMAPS

Wildfire Smoke Forecast

Mescal and Telegraph Fires Overview

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Forecast

Superior
Globe
San Carlos
Safford

Whiteriver

San Carlos

Images shown are for reference only. [See Legend.]

Smoke Forecast:

Smoke overhead with moderate smoke in the evening.

Moderate to heavy smoke possible overnight

Moderate smoke in the morning

Activity Meter

Layers:
Stay Smoke Aware
Minimize Outdoor Activity
Stay Inside

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Useful Links

- Mescal Fire IncWebb [View Page >
- Telegraph Fire IncWebb [View Page >
- Air Resource Advisor Smoke Forecast [View Page >
- ADEQ Portable PM-2.5 Monitors [View Page >
- USFS Portable PM-2.5 Monitors [View Page >

Fire Information Contact

Phone: Mescal: 602-428-5197 Telegraph: 480-658-2054
Email:

Create PDF Version of Smoke Forecast

Select the locations to display in the PDF. [View](#) (Must click to select the fire locations.)

- Miami Area
- Superior
- San Carlos

SEE MORE

- Private Pets After the Fire >
- Smoke & Your Health >
- Wildfire Fact Sheet >
- Wildfire FAQs >
- Wildfire Smoke Forecast Guide >
- Wildfire Support >

ADDITIONAL RESOURCES

- Arizona Bureau of Land Management >
- Arizona Department of Emergency Management >
- Arizona Department of Forestry and Fire Management >
- Arizona Department of Health Services - Wildfire Smoke and Your Health >
- Arizona Emergency Information Network >
- Arizona Emergency Wildfire Protection >
- Arizona State Land Department >
- Isolated Information System - Arizona >
- NWAC Guidelines and Information Services >
- National Collaborative Wildland Fire Management Strategy >
- National Interagency Fire Center >
- Portable/Petroleum Monitors >
- Statistical Coordination Center >
- USDA Forest Service Active Fire Mapping Program >

Wildfire Smoke Forecast

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ADEQ Wildfire Smoke Forecast

Wildfire Smoke Forecast

Mescal and Telegraph Fires Overview

Smoke Synopsis

Forecast

[Superior](#)
[Globe](#)
[San Carlos](#)
[Safford](#)

Whiteriver

San Carlos

Images shown are for reference only. [See Legend >](#)

Smoke Forecast:

[Saturday](#)
[Saturday Night](#)
[Sunday](#)

Smoke overhead with moderate smoke in the evening.

Moderate to heavy smoke possible overnight

Moderate smoke in the morning

Activity Meter

Legend: **1** - Stay Smoke Aware **2** - Minimize Outdoor Activity **3** - Stay Inside

Time Period	Activity Level
12am - Sat	2
3am - Sat	2
6am - Sat	2
9am - Sat	2
12pm - Sat	2
3pm - Sat	2
6pm - Sat	2
9pm - Sat	2
12am - Sun	2
3am - Sun	2
6am - Sun	2
9am - Sun	2
12pm - Sun	1
3pm - Sun	1
6pm - Sun	1
9pm - Sun	2

Useful Links

Fire Information Contact

Create PDF Version of Smoke Forecast

Miami Area
 Superior
 San Carlos

Forecast

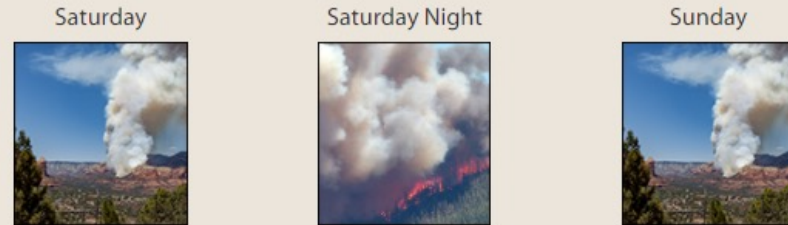
Click the name of the city to view smoke forecast

- [Superior](#)
- [Globe](#)
- [San Carlos](#)
- [Safford](#)
- [Whiteriver](#)

San Carlos

Images shown are for reference only. [See Legend >](#)

Smoke Forecast:



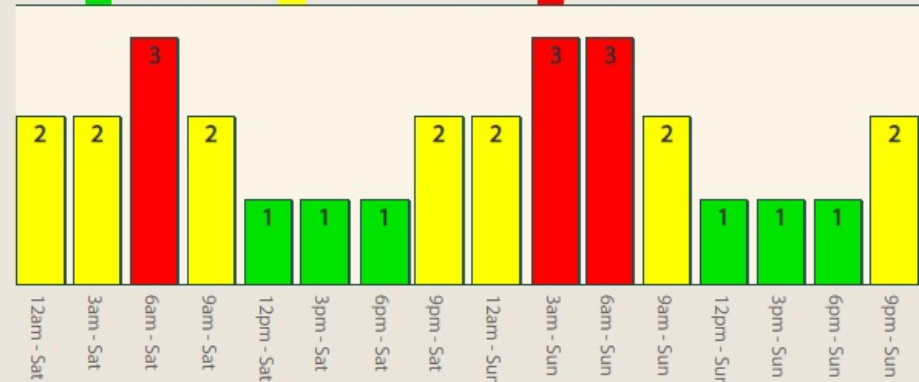
Smoke overhead with moderate smoke in the evening.

Moderate to heavy smoke possible overnight

Moderate smoke in the morning

Activity Meter

Legend: **1** - Stay Smoke Aware **2** - Minimize Outdoor Activity **3** - Stay Inside



ADEQ Wildfire Smoke Forecast

Wildfire Smoke Forecast
Updated 04/16/2024 11:11 AM | Website: 04/15/2024 - 04/16 AM
Forecasted: M-P (Mescal), R-S (Eagar)

Mescal and Telegraph Fires
Overview
The Mescal Fire grew by approximately 2,000 acres yesterday, bringing it to ~72,000 acres. The Telegraph is now at ~85,000 acres with a growth yesterday of around 400 acres.

Smoke Synopsis
Smoke production on the Telegraph fire overnight into this morning is less compared to what we have seen over the past few days. Smoke that is being produced is resulting in light to at times moderate impacts to the Globe-Mesa area. Smoke that has vented into the region is expected to lift by 10 am.

Winds today and tomorrow will be lighter, and later this afternoon have a westerly component to them. As a result, smoke is expected to disperse ENE today, with light to moderate impacts possible to the Globe-Mesa area due to the proximity to the fire. Other areas that have been seeing moderate impacts further north and east of the fire, such as Cibola, Show Low, and Eagar, may see smoke move overhead or through the region; however, impacts are expected to remain light. Whiteriver and the San Carlos/Peridot areas may see short periods of moderate smoke impacts, but for the most part, only light impacts are expected.

Overnight into tomorrow, forecasting similar smoke impacts to what is being seen this morning and what will be seen later today.

Forecast
Click the name of the city to view smoke forecast
Superior **Globe** **San Carlos** **Safford**
Whiteriver

San Carlos
Images shown are for reference only. [See Legend]

Smoke Forecasts

Day	Forecast
Saturday	Smoke overhead with moderate smoke in the evening.
Saturday Night	Moderate to heavy smoke possible overnight.
Sunday	Moderate smoke in the morning.

Activity Meter
Legend: Stay Smoke Aware (2) Minimum Outdoor Activity Stay Inside

Time	Activity Level
4:00 PM - 5:00 PM	Stay Smoke Aware (2)
5:00 PM - 6:00 PM	Stay Smoke Aware (2)
6:00 PM - 7:00 PM	Stay Smoke Aware (2)
7:00 PM - 8:00 PM	Stay Smoke Aware (2)
8:00 PM - 9:00 PM	Stay Smoke Aware (2)
9:00 PM - 10:00 PM	Stay Smoke Aware (2)
10:00 PM - 11:00 PM	Stay Smoke Aware (2)
11:00 PM - 12:00 AM	Stay Smoke Aware (2)
12:00 AM - 1:00 AM	Stay Smoke Aware (2)
1:00 AM - 2:00 AM	Stay Smoke Aware (2)
2:00 AM - 3:00 AM	Stay Smoke Aware (2)
3:00 AM - 4:00 AM	Stay Smoke Aware (2)
4:00 AM - 5:00 AM	Stay Smoke Aware (2)
5:00 AM - 6:00 AM	Stay Smoke Aware (2)
6:00 AM - 7:00 AM	Stay Smoke Aware (2)
7:00 AM - 8:00 AM	Stay Smoke Aware (2)
8:00 AM - 9:00 AM	Stay Smoke Aware (2)
9:00 AM - 10:00 AM	Stay Smoke Aware (2)
10:00 AM - 11:00 AM	Stay Smoke Aware (2)
11:00 AM - 12:00 PM	Stay Smoke Aware (2)
12:00 PM - 1:00 PM	Stay Smoke Aware (2)
1:00 PM - 2:00 PM	Stay Smoke Aware (2)
2:00 PM - 3:00 PM	Stay Smoke Aware (2)
3:00 PM - 4:00 PM	Stay Smoke Aware (2)
4:00 PM - 5:00 PM	Stay Smoke Aware (2)
5:00 PM - 6:00 PM	Stay Smoke Aware (2)
6:00 PM - 7:00 PM	Stay Smoke Aware (2)
7:00 PM - 8:00 PM	Stay Smoke Aware (2)
8:00 PM - 9:00 PM	Stay Smoke Aware (2)
9:00 PM - 10:00 PM	Stay Smoke Aware (2)
10:00 PM - 11:00 PM	Stay Smoke Aware (2)
11:00 PM - 12:00 AM	Stay Smoke Aware (2)
12:00 AM - 1:00 AM	Stay Smoke Aware (2)
1:00 AM - 2:00 AM	Stay Smoke Aware (2)
2:00 AM - 3:00 AM	Stay Smoke Aware (2)
3:00 AM - 4:00 AM	Stay Smoke Aware (2)
4:00 AM - 5:00 AM	Stay Smoke Aware (2)
5:00 AM - 6:00 AM	Stay Smoke Aware (2)
6:00 AM - 7:00 AM	Stay Smoke Aware (2)
7:00 AM - 8:00 AM	Stay Smoke Aware (2)
8:00 AM - 9:00 AM	Stay Smoke Aware (2)
9:00 AM - 10:00 AM	Stay Smoke Aware (2)
10:00 AM - 11:00 AM	Stay Smoke Aware (2)
11:00 PM - 12:00 AM	Stay Smoke Aware (2)

Note: No matter what the Forecast indicates, if you feel like you are having health effects from smoke exposure,

Useful Links
Mescal Fire InciWeb | [View Page >](#)
Telegraph Fire Inciweb | [View Page >](#)
Air Resource Advisor Smoke Forecast | [View Page >](#)
ADEQ Portable PM-2.5 Monitors | [View Page >](#)
USFS Portable PM-2.5 Monitors | [View Page >](#)

Fire Information Contact
Phone: Mescal: 602-428-5397 Telegraph: 480-608-2054
Email:

Create PDF Version of Smoke Forecast
Select the locations to display in the PDF. Note: Works best to select less than five locations.

- Miami Area
- Superior
- San Carlos
- Safford
- Whiteriver
- Cibola
- Show Low
- Eagar

[Create PDF Forecast](#)

Useful Links

- Mescal Fire InciWeb | [View Page >](#)
- Telegraph Fire Inciweb | [View Page >](#)
- Air Resource Advisor Smoke Forecast | [View Page >](#)
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- Show Low
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[Create PDF Forecast](#)



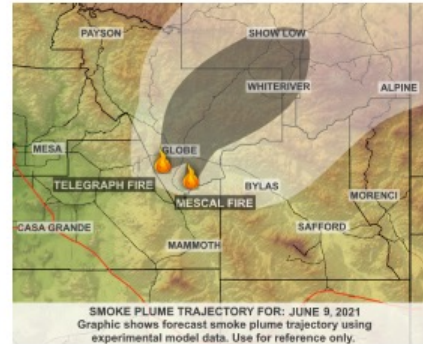
Mescal / Telegraph Smoke Forecast

Issued: 6/9/2021 at 6:10 AM

Forecaster(s): M. Pace (ADEQ), R. Sherron (USFS)

Smoke Synopsis

Today, we are forecasting smoke to move toward the northeast with moderate to, at times, heavy impacts possible in Globe-Miami due to the proximity to the fire. As smoke continues to disperse toward the northeast, moderate smoke impacts are likely this afternoon in places further north-northeast of the fire, including areas in/around Whiteriver, Cibecue, Show Low, Snowflake, and Eagar. Overnight, moderate to heavy impacts are possible in Globe-Miami, with moderate impacts forecast in Peridot/San Carlos. Only expecting light impacts in Superior today into tonight as the most active portion of the fire is now east of the region.



If you are in an area with heavy impacts, the suggested actions to take are (if possible): close windows and use fans or alternative cooling devices, turn off swamp coolers, use filtered HVAC systems, and avoid outdoor activities.

Tomorrow, there will be a slightly more westerly component, so the smoke is expected to disperse more toward the ENE.

Activity Meter

Stay Smoke Aware Minimize Outdoor Activity Stay Inside

Location	Wednesday	Wednesday Night	Thursday
Miami Area	Moderate smoke with periods of heavy smoke during the day	Moderate to heavy smoke possible overnight	Moderate smoke with periods of heavy smoke during the day
Superior	Light smoke possible during the day	Light smoke possible overnight	Light smoke possible during the day
San Carlos	Light to moderate smoke throughout the day	Moderate smoke possible overnight	Light to moderate smoke throughout the day
Show Low	Moderate smoke possible in the afternoon	Light smoke possible overnight	Moderate smoke possible in the afternoon

■ Launched June 17, 2020

- Before June 17, 2020:
 - ADEQ **never issued** a public facing wildfire smoke forecast
- On/After June 17, 2020:
 - ADEQ has issued 155 wildfire smoke forecasts!
 - ❖ 72 in 2020
 - ❖ 52 in 2021
 - ❖ 31 in 2022
- azdeq.gov/WildfireSmokeForecast

Wildfire Smoke Forecast

Updated On: 6/19/2020 - 6:25 PM Valid Until: 06/20/2020 - 9:00 AM

Forecast(s): M. Pace (ADEQ), R. Sherman (MFSF), J. Michael (NWS)

Contact: | 520-329-7439

Bighorn Fire

Overview

The Bighorn Fire continued to spread toward the east/northeast Thursday with approximately 5,800 acres of growth, bringing the mapped total to around 37,000 acres. Smoke yesterday moved toward the northeast over/through San Manuel, Mammoth, Safford, and Clifton. Later in the afternoon and evening, the plume spread out as it moved away from the fire and shifted slightly north over San Carlos and Globe.



Graphic shows forecast smoke plume trajectory using experimental model data. Use for reference only.

Smoke this morning continues to move toward the north-northeast over Mammoth and is crossing the US 70 between Fort Thomas and San Carlos. Later this morning into the afternoon hours, expecting the smoke plume to turn more easterly and move over Safford, Duncan, and Clifton with light to moderate smoke impacts expected, especially during the late afternoon and evening hours as smoke begins to settle.

Overnight, winds are forecast to be light allowing smoke to drain into Oro Valley and Catalina as well as into the San Pedro and Gila Rivers. Smoke impacts are expected to be light to moderate. The smoke that does move into the region during the overnight hours should lift by 9am Saturday. There is also a slight chance that smoke may drain into Wilcox and Benson overnight; however, impacts are expected to be light.

Tomorrow, smoke is once again forecast to move east-northeast during the day, with overnight smoke once again possibly draining into the above-mentioned areas.

Forecast

Click the name of the city to view smoke forecast

Oracle	Safford	Wilcox	Clifton
Tucson	Oro Valley		

Oracle

Images shown are for reference only. | [See Legend >](#)

Smoke Forecast:

Friday



Smoke moving overhead with light to moderate smoke at the surface.

Friday Night



Light to moderate smoke overnight.

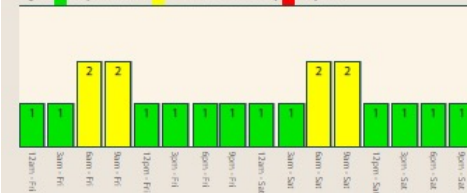
Saturday



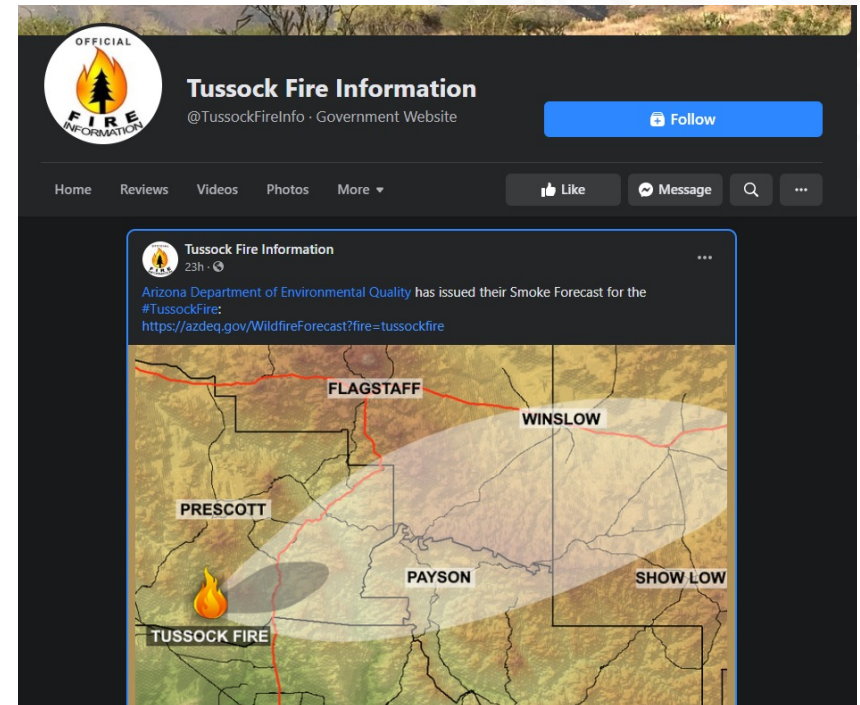
Smoke moving overhead with light to moderate smoke at the surface.

Activity Meter

Legend: ■ Stay Smoke Aware ■ Minimize Outdoor Activity ■ Stay Inside



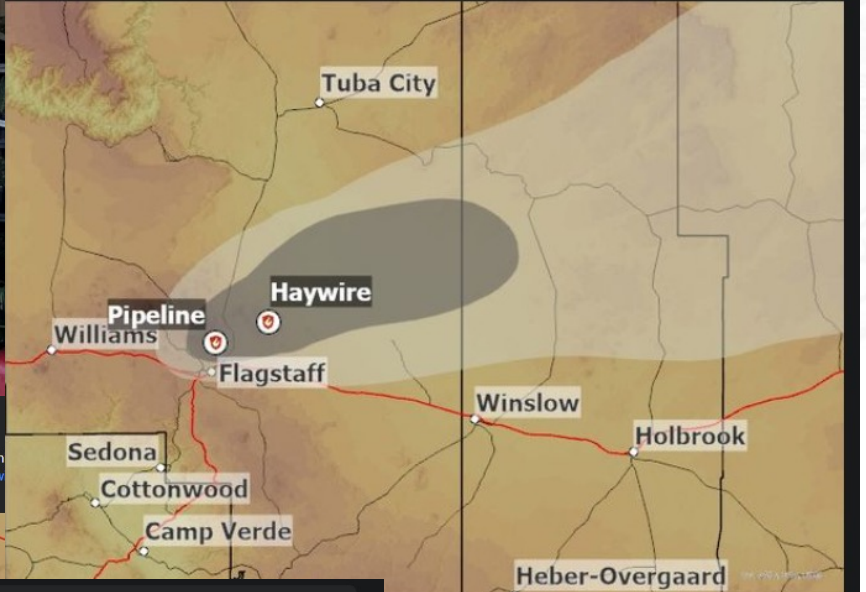
- Now tied directly into the fire providing valuable information to partners and the public!
- Example from the Tussock Fire: No Air Resource Advisor on the fire but smoke information is getting to the public because of the ADEQ Smoke Forecast!
- Public is using it!



Forecast Being Used By USFS



U.S. Forest Service - Coconino National Forest
 June 15 · 🌐
 With calmer winds and cooler temps, smoke settled into lower areas overnight and will dissipate as the day warms. #PipelineFire #HaywireFire



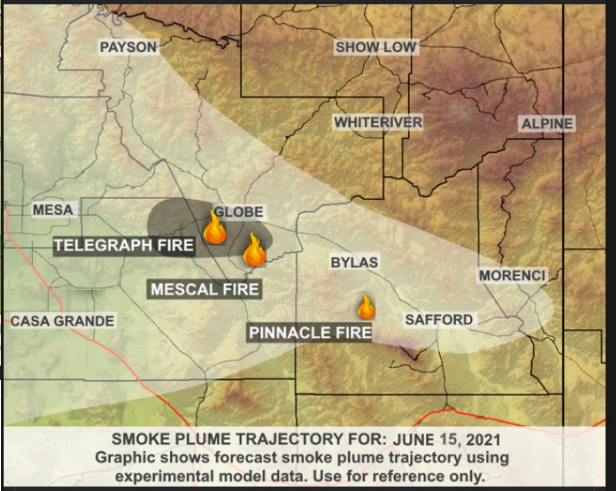
U.S. Forest Service - Prescott National Forest
 April 29 · 🌐
 #CrooksFire 4/29/22 - ADEQ's Wildfire Smoke Forecast webpage indicates which areas are expected to be impacted by smoke from the Crooks Fire: <https://azdeq.gov/wildfireforecast?fire=crooksfire>

U.S. Forest Service - Prescott National Forest
 April 28 · 🌐
 #CrooksFire 4/28/22 - ADEQ's Wildfire Smoke Forecast webpage indicates which areas are expected to be impacted by smoke from the Crooks Fire: <https://azdeq.gov/wildfireforecast?fire=crooksfire>



SMOKE PLUME TRAJECTORY FOR: April 28, 2022

U.S. Forest Service - Prescott National Forest
 June 18, 2021 · 🌐



SMOKE PLUME TRAJECTORY FOR: JUNE 15, 2021
 Graphic shows forecast smoke plume trajectory using experimental model data. Use for reference only.

Yavapai County Flood Control District
 June 18, 2021 · 🌐

DID YOU KNOW???

ADEQ has a Wildfire Smoke Forecast site that is updated daily. For more information please

TRAJECTORY FOR: June 14, 2022
 for reference only



SMOKE PLUME TRAJECTORY FOR: JUNE 30, 2021
 Graphic shows forecast smoke plume trajectory using experimental model data. Use for reference only.

Arizona Department of Environmental Quality
 June 30, 2021 · 🌐

- Won the 2022 Special Award from the American Meteorological Society
 - “For critical ground-breaking work creating and fielding a platform providing for the health and safety of Arizona residents with early and ongoing wildfire smoke forecasts.”



- Won the 2022 National Association of Environmental Professionals Environmental Excellence Award
 - Won for Public Involvement and Education from the National Association of Environmental Professionals for the First-of-its-Kind in the Nation State Wildfire Smoke Forecast



National
Association of
Environmental
Professionals

Be Connected

- Daniel Czecholinski, CHMM
 - Czecholinski.Daniel@azdeq.gov
 - Office: 602-771-4684

