RESOURCES AT A GLANCE
a publication from the Southern Fire Exchange

SFE Smoke & Weather Resources

Fact Sheets

Basic Smoke Management Practices for Prescribed Burning

This fact sheet introduces the six BSMPs and provides a list of important resources for managing smoke.

Predicting Smoke Movement: An Introduction to Smoke Models

This fact sheet introduces four common models that are used in planning smoke management for prescribed fires in the South. The models range from basic to advanced in their inputs and outputs.

Online Tools for Weather Information

This fact sheet provides a description and comparison of three online tools for accessing weather information that can be critical for wildland fire decision-making.

From left to right: "Predicting Smoke Movement: An Introduction to Smoke Models", "Basic Smoke Management Practices for Prescribed Burning", and "Online Tools for Weather Information".

Superfog: State of the Science

This fact sheet summarizes presentations from the 2013 International Association of Wildland Fire Smoke Symposium to familiarize managers with the tools and information they can use to prepare for and determine the likelihood of superfog events.

Situational Awareness: Nighttime Smoke & Fog on Prescribed Burns

Many of the factors that impact smoke decisions are summarized in this fact sheet on nighttime smoke and fog.

PB Piedmont: Predict Overnight Smoke Conditions in Complex Terrain

This fact sheet provides an overview of Planned Burn (PB)-Piedmont--an online computer model that predicts the patterns of air movement during the nighttime to forecast the occurrence and accumulation of smoke and fog.

Recordings

Webinar: Air Quality 101

This webinar features speakers from regional air quality programs that introduce the fundamental concepts and tools for understanding the who, what, why and how for managing prescribed fire smoke in the Southeast.

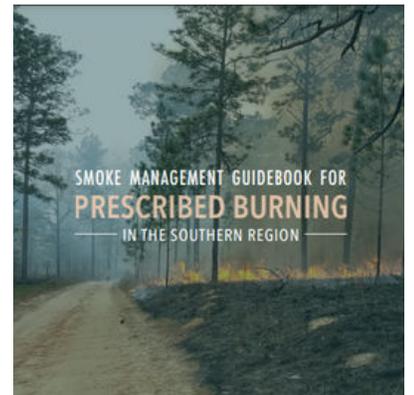## Playlist: Smoke Management Information & Tools

This Youtube playlist features a variety of recordings from SFE archived webinars and Prescribed Fire Council meetings.
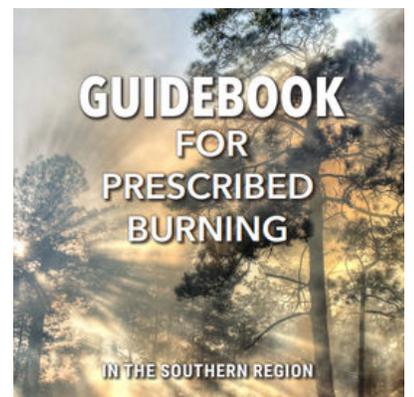
Guidebooks

Smoke Management Guidebook for Prescribed Burning in the Southern Region

This publication was developed through a collaboration among the EPA, NC State University, Southern Fire Exchange, Southern Regional Extension Forestry, and the University of Georgia. A full-color guidebook, it includes a wide range of information about smoke production, composition, and planning.

Guidebook for Prescribed Burning in the Southern Region

Learn how to plan, conduct and evaluate prescribed burns with this guidebook designed for burners of all skill levels. This book takes you step-by-step through the prescribed burning process in addition to providing more in-depth chapters on many of the concepts.

Additional Resources:

- **Fact Sheet: Potential Impacts of Prescribed Fire Smoke on Air Quality, Public Health, and Socially Vulnerable Populations in the Southeastern US** https://southernfireexchange.org/wp-content/uploads/Air-Impacts-One-Pager-8-2021.pdf
- **NRCS CPS 338 Prescribed Burning: Basic Smoke Management Practices** https://efotg.sc.egov.usda.gov/references/public/CA/TN_AQ07_CPS338-BasicSmokeManagement_11-16.pdf
- **Georgia DNR Winds & Air Quality Map** https://experience.arcgis.com/experience/9492facb22c8464788186589decfd736
- **Tall TImbers Smoke Conditions in the Southeast Map** https://experience.arcgis.com/experience/ec2f18b29c0545c68b3447d13878564a
- **Kansas Flint Hills Smoke Management Tools** https://ksfire.sonomatechdata.com/view/summary/
- **NWCG Smoke Community Emissions & Smoke Portal** https://www.frames.gov/smoke/home
- **NWCG Smoke Management Guide for Prescribed Fire** https://www.nwcg.gov/publications/pms420-3

Learn more about our partners, products, and activities at **southernfireexchange.org**.
Learn more about the Joint Fire Science Program and the Fire Science Exchange Network at **firescience.gov**.