



**SOUTHERN
Fire Exchange**
Uniting Fire Science and Natural Resource Management



FIRE LINES

A Bimonthly Newsletter of the Southern Fire Exchange

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Learn more about our [Partners](#) and the [JFSP Fire Science Exchange Network](#).

Visit the SFE Resource Center
www.southernfireexchange.org



SFE Releases Two New Factsheets

Two new SFE factsheets about current research are joining the nearly 50 factsheets published on the SFE website. SFE factsheets are peer and author-reviewed to ensure that they accurately translate research information for fire managers. SFE factsheets cover topics related to fire ecology and effects; fire science information, programs and resources; prescribed fire; public education; smoke management, air quality and weather; and wildfire.

Relationships Among Wildfire, Prescribed Fire and Drought at Fort Benning, GA

Do you need some solid scientific support for how maintaining a long-term prescribed fire program can reduce wildfire risk? This fact sheet provides highlights from a publication that explains the relationships among wildfire, prescribed fire and drought over a 30-year period at Fort Benning, GA. The study (Addington et al., 2015) found that as the number of acres of prescribed fire increased over time, the number of wildfires decreased, with exceptions during drought years. Learn more about results from this study [here](#).

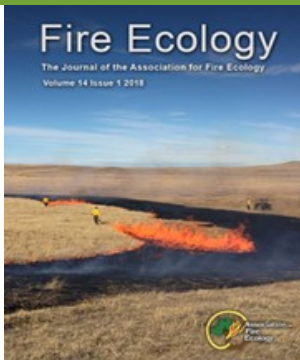
Wildland Fire Smoke Effects on Public Health: What does the Research Say?

This factsheet summarizes research findings from two smoke and public health literature reviews conducted in 2015 and 2016. Wildland fire smoke can impact public health in various ways including respiratory and cardiovascular health. While some population groups are particularly at-risk to the damaging effects of smoke, there are steps that individuals can take to reduce the impacts. Read all about it [here](#), and use the information to help answer questions that you're asked about smoke impacts.



Burned Forests Impact Water Supplies— A Summary from the USFS Southern Research Station

CompassLive, a publication of the USFS Southern Research Station summarized a recent nationwide study analyzing the relationship between big wildfires and surface water using long-term records of wildland fire, climate and river flow at 168 locations. They found that annual riverflow had changed in 32 locations where 20% or more of the basin was burned, usually with increased riverflow. Interestingly, **they found that prescribed fire in the Southeast did not contribute to any significant alterations of river flow.** Read the article [here](#).



New Issue (open access) of the Journal *Fire Ecology*

New articles featured in this [issue](#) relevant to the Southeast include: “Cambial Phenology Informs Tree-Ring Analysis of Fire Seasonality in Coastal Plain Pine Savannas,” which examines historical fire seasonality by examining tree rings.



fire

New Open-Access Journal *Fire* Releases First Issue

The new scientific publication journal *Fire* was released this month. The editors defined *Fire* as “an inter-

national, open-access journal about the science, policy, economics, and technology of landscape fires and how they interact with communities and the environment. *Fire* seeks to serve as an international outlet for diverse scientific and practical knowledge to converge in the interest of promoting more safe, effective, and scientifically driven expertise in the policy, community actions, and operational management of vegetation/landscape fires.” Articles in this first issue include a variety of topics from managing fire and biodiversity in the WUI to discussions on the relationship between human-related ignitions and more large wildfires across the U.S. [Access the journal here](#), which also includes a perspective article by Stephen Pyne.

Fire Season Primer 2018

Five advanced wildland fire [recorded webinars](#) are available from the NWCG Advanced Fire Environment Learning Unit. These webinars cover:

- Infrared Data Product
- Unmanned Aircraft on Incidents
- Exceedance Probability Curve Assessments
- NFDRS 2016 Rollout
- Weather Forecasting Changes

[Additional webinar presentations](#) are also available from 2017, 2016 and 2015.



Prescribed Fire Capacity Information and Resources from TREX

The Prescribed Fire Training Exchanges (TREX) organize and host events every year for improving the national capacity for prescribed fire. Some of the TREX Coaches have assembled a selection of fact sheets with resources on how to increase prescribed fire capacity locally. View them [here](#)



NWCG Releases New Standards for Aerial Ignition

These new standards define and standardize operational procedures and equipment for aerial ignition. Check them out [here](#)! These refer to both incident and project aerial ignition operations.

Prescribed Fire Council (PFC) Meetings

[North Carolina PFC Annual Meeting](#)

Aug. 2-3, 2018
Asheboro, NC

[Alabama PFC Annual Meeting](#)

Sept. 6, 2018
Clanton, AL

[Louisiana PFC Annual Meeting](#)

Sept. 19, 2018
Alexandria, LA

[Kentucky PFC Annual Meeting with Consortium of Appalachian Fire Managers & Scientists Bats & Fire Workshop](#)

Sept. 24-25, 2018
Cave City, KY

[Georgia PFC Annual Meeting](#)

Sept. 27, 2018
Tifton, GA

[South Carolina PFC Annual Meeting](#)

Sept. 26-27, 2018
Georgetown, SC

[Central Florida PFC Annual Meeting](#)

Sept. 28, 2018
Kissimmee, FL

Trainings

[Using Drones for Rangeland Monitoring](#)

July 10, 2018
Ona, FL

[Register Here by 7/6/18](#)

[Longleaf Academy: Fire & Longleaf 201](#)

July 17-19, 2018
Windsor, SC

[Firescaping workshop: Preparing for Wildfires with Fire-resistant Landscaping](#)

Aug. 1, 2018
Asheboro, NC

[Rx Certified Burn Manager Course](#)

Sept. 25-27, 2018
Charlottesville, VA
\$50 Fee, Email [Sandy Mills](#) to register

[Certified Burn Boss Workshop](#)

Sept. 26-28, 2018
Cave City, KY
Contact Training Committee Chair [Ben Robinson](#) with questions.

[Georgia Prescribed Fire Certification](#)

Oct. 24-25, 2018
Athens, GA

UPCOMING EVENTS CONTINUED

Trainings

Georgia Prescribed Fire Certification

Dec. 4-6, 2018

Tifton, GA

Blue Ridge Trex

Oct. 29-Nov 9, 2018

Prescribed Fire Training Exchange. For questions contact Jen@camfs.org

[Apply Here](#) by July 13, 2018

Longleaf 101 Training

Dec. 4-6, 2018

Georgetown, SC

Webinars

Developing a Mid-scale Portable Wind Tunnel for Laboratory & Field Experiments

July 11, 2018

12:00 pm ET

Techniques for Wildfire Detection & Monitoring

Two-part Training Session

July 12 AND 19, 2018

Offered at 10:00 am-12:00 pm ET OR

6:00-8:00 pm ET

Advances in Wildland Fire Shelter Development & Testing

July 18, 2018

12:30-2:00 pm ET

High Resolution Simulation of Low-Intensity & Backing Fires: a Multi-Scale Develop. Exercise

July 25, 2018

12:00 pm ET

Prescribed Fire & Air Quality Tracking w/ SIPFIS

Aug. 23, 2018

1:00pm ET

Lessons Learned from

Hosting Learn-n-Burn Events

Oct. 10, 2018

1:00 pm ET

Workshops and Conferences

Red Buffalo Prescribed Burn Workshop

July 23-26, 2018

Lubbock, TX

[Register Here](#)

12th Biennial Longleaf Conference

Oct. 23-26, 2018

Alexandria, LA

6th International Fire Behavior & Fuels Conference

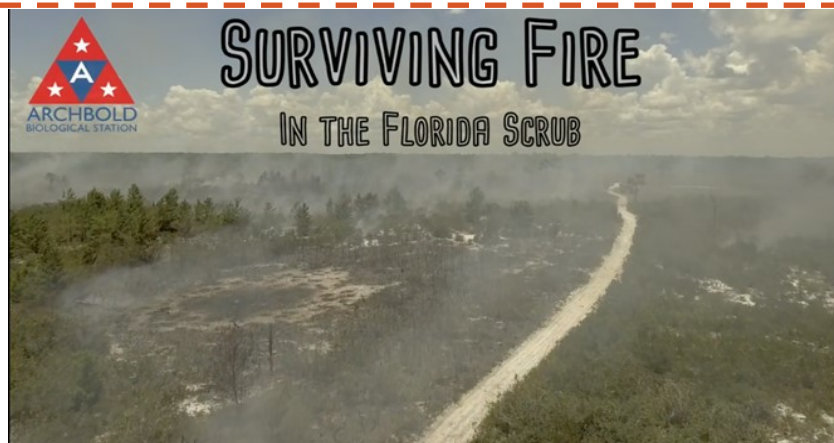
NEWS AND REMINDERS

2018 Prescribed Fire Science Consortium Event Advances Prescribed Fire

The 2018 Prescribed Fire Science Consortium collaborative research burn event held at Tall Timbers Research Station in April pulled together researchers in fire science, smoke science, and fire ecology as well as experienced land managers for a week of collaborative research focused on “the fires we use”.

Check out the following videos, photos and articles from the event:

- ◆ [SFE video](#) from the 2018 event
- ◆ [SFE Flickr photo album](#) from the event
- ◆ Tall Timbers [E-News Article](#)
- ◆ Tallahassee [Newspaper Article](#)
- ◆ Georgia Forestry [Magazine Article](#)



Surviving Fire: In the Florida Scrub

Check out this New Film!

Prescribed fire in Florida Scrub is dramatically portrayed by filmmaker Jennifer Brown who used time-lapse photography, drone videos and dramatic images to depict the many aspects of fire in this landscape. Three decades of Archbold Biological Station research is featured in this short, but impactful film which pays honor to discovery and research by Dr. Eric Menges as well as tribute to those who dedicate their lives to better fire management. [View it here.](#)

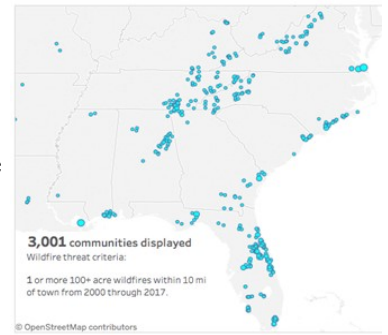
Safety and Compliance Orientation for Unmanned Aircraft Systems/Drones in Florida

Contact John Rouse (352)392-1591 to sign up or for questions/directions. Program highlights include FAA compliance, registration information, remote pilot information, airspace restrictions and more!

Date	Location	
July 9	SWFREC	Immokalee, FL
July 10	Range Cattle REC	Ona, FL
	Gulf Coast REC	Balm/Wimauma, FL
July 11	Tropical Aquacul-	Ruskin, FL
July 16	West FL REC	Jay/Milton, FL
July 17	North FL REC	Quincy, FL

Nearly 50% of the Full Costs Surrounding Wildfires are Covered by Communities: Findings in a New Report

Wildfire suppression costs are expensive but typically covered by federal, state and local governments, but those are not the only costs associated with a wildfire. Short-term (within the first six months post-fire) and long-term costs are predominantly covered by local communities. Long-term costs include lost income for businesses (and the lost tax revenue) in addition to physical infrastructure and landscape damages. A [new report](#), from the Headwaters Economics Group, based on literature review and case studies, covers details and summarizes all of these “hidden” costs. An [interactive graphic](#) also identifies towns and cities that are frequently threatened by wildfires and allows filtering for different parameters related to distance from the fires.



Participate in an Anonymous Survey about Health Risks of Current & Former Firefighters

Wildland firefighters have an arduous job with demanding physical labor and frequent exposure to smoke. However, long-term physical, psychological and behavioral health risks of wildland firefighters are not very well known. Consider [participating in this survey](#) to share your experiences and concerns and contribute towards better understanding and improvement of wildland firefighter health. Results from this study may help in advocating for programs, policy and research that improve wildland firefighter health and safety. **Access the survey [here](#).** For questions about the study contact wlfhealthstudy@mso.umt.edu

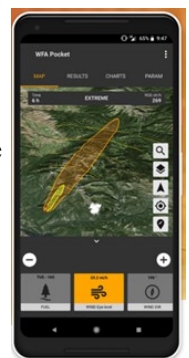
Results from National Evaluation of the Joint Fire Science Exchange Network Show Positive Impacts

The Joint Fire Science Program (JFSP) Fire Science Exchange Network includes 15 regional exchanges tasked with not only facilitating the sharing of fire science information, but also with connecting the fire science and natural resource management communities. Results from national surveys conducted over four years, indicate that natural resource managers who connect with their respective Exchanges increased in their agreement that “scientists respect their experience and input, their regional Exchange improves access to fire science, and they use fire science in their work.” On the other side of the equation, fire scientists also increased their level of agreement that “Exchanges are necessary to share fire science information and improve the application of fire science in their region.” These survey findings confirm reports that the Fire Science Exchanges are achieving their goals.

NEW TECHNOLOGY AND TOOLS

Wildfire Analyst Releases New “Pocket” Edition

The wildland fire community can now access a pocket edition of Wildfire Analyst which includes operational fire behavior tools that can be used anywhere. This analyst has capabilities similar to BEHAVE or FARSITE and while it still requires a data connection, it is a huge advancement in mobile fire modeling. It allows users to enter their own observed conditions in the field and then integrate it, in real time, with weather services and LANDFIRE fuels data. [Download it here](#).



Fuels Treatment Effectiveness Monitoring (FTEM) is Now Part of IFTDSS



The Interagency Fuels Treatment Decision Support System (IFTDSS) team has recently introduced a new interface with the Fuels Treatment Effectiveness Monitoring (FTEM) system. This new tool, has “an easy to use map-based interface to record fuels treatment and wildfire interactions” and has been added into the IFTDSS. FTEM was specifically designed for use by federal fire managers and also includes monitoring and reporting modules. Watch an introduction to FTEM [here](#). Or visit the [FTEM help center](#) for more information on this system.



The Southern Fire Exchange is funded through the Joint Fire Science Program, in agreement with the United States Forest Service, Southern Research Station. This institution is an equal opportunity provider.

Find More Resources at
www.SouthernFireExchange.org