### REFLECTIONS COLUMN HOLES IN HEARTS

## est Mains

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At first, tiny flames formed a hot orange line its own breeze, propel- providing tinder for a ling it forward. Soon it quick, sizzling burst.

March 13. dered, sometimes aca pocket that fed it, sometimes fizzling out where fuel was sparse. Unlike the unfortunate oak sprouts, the blaze skimmed over a patch of foot-high pine seedlings without even browning their tender green needles.

The line of flames didn't linger long, and after it passed, mottled patches of blackened and unburned ground intermixed in a mosaic pattern. Previously hidden acorns were exposed, unscathed.

Most mature trees barely noticed. Shortleaf pine and oaks - white, scarlet, black and post sported newly blackened spring fire season ar- Forest Service ecologist 2012 and 2103, he said.

Ignited by a U.S. For- Mark Twain administra- the pines. For centuries around 1900 nearly and twigs. Then, as the ing whole oak sprouts, Pineknot area in south- Jason Smith (R-Salem). Native Americans using fire sucked air, it created their still-clinging leaves west Carter County on Last fall, Smith ushered fire maintained it, but Mark Twain was ap-As the fire progressed, a fire ban for the Mark land use changes have lion, 10-year project the orange line mean. Twain, but the bill was reduced it to a glob- to restore these two celerating when hitting committee when the ecosystem, said retired

through the U.S. House fire suppression and stuck in a Senate sub- ally rare and fragmented

gently licked debris- marching through the est Service team, this tors were disregarding it was common through- wiped out the big shortcovered soil, crackling forest, catching fire to prescribed fire burned the wishes of Eighth out the Southeast, sup- leaf. It was replaced by in dried grasses, leaves fallen limbs and devour- 4,125 acres in the District Congressman porting herds of grazers. crowded oaks. In early 2012, the

proved for a \$12.5 milpine-dominated plant communities on about 116,000 acres. Funding was part of a national initiative, the Collaborative Forest Landscape Restoration Program.

Between 2007, when work began in the restoration area, and the end of 2013, project implementers conducted burns on nearly 27,000 acres. Several areas were burned multiple times, so prescribed fires have totaled about 61,000 acres, said Davidson. They're also using chain saws to thin the canopy, providing more sunlight to encourage desired herbaceous ground cover. More than 8,000 acres were thinned in

In areas treated for several years, oaks are burning until it has doc- nant pockets of short- less crowded and the pine-bluestem fire-resistant pines are gaining ground, Davidgoals and not harming the Pineknot area and son said. Plot monitoraround Cane Ridge near ing is showing good Poplar Bluff, said Brian responses of forbs and Davidson, who spear- grasses in the areas that heads the restoration have been thinned and burned.

However, "it will take the second plant com- desired conditions," Da-

# **CLIMATE CHANGE,** SHORTLEAF

### BY DENISE HENDERSON VAUGHN Quill Correspondent

rived. Smith wants the Paul Nelson. Forest Service to halt In the Ozarks, remumented that prescribed leaf fires are accomplishing woodlands are found in

forests. SHORTLEAF PINE-BLUESTEM

The purpose of the repeated prescribed fires in the Pineknot area is to recommunities.

**WOODLANDS NOW RARE** 

community, One known as shortleaf pinebluestem woodlands, forbs growing between

project.

pine-bluestem This controversial ecosystem, along with a long time to get to munity, the closely re- vidson said. "Probably lated shortleaf pine-oak 20 years." store two natural plant woodland, together formerly dominated more than six million acres in southern Missouri.

Europeans has a park-like appear- settled in Carter and fires, the thinning operaance, with hundreds of nearby counties found tions and the restoration species of grasses and these ecosystems intact, itself has been mixed. but industrial timber exploitation in the decades

### **NEIGHBORS' REACTIONS VARY**

Reaction to the big

► BURN, PAGE 12



THE SHIP, as they call it, arrived from the Forest Service's main helibase in Rolla and parked in a pasture a few miles from the burn area. Here, pilot Pat Parkhill hits the power-on button so that David Schott, center, can test the Premo machine. That's a device that injects flammable chemicals into spheres like ping-pong balls and then spits them out the chute near Schott's knee. About 20 to 30 seconds after ejection, each ball ignites. (Quill/Vaughn)

FLYING LOW over the forest with door open, the

helicopter drops small plastic balls that catch fire on

the ground. On this day, the ship flew over 4,125 acres,

**dropping some 6,500 balls, one by one.** (Quill/Vaughn)



THE PREMO MARK III machine, top view, contains four slots to receive the lightweight plastic incendiary spheres, which already contain potassium permanganate, a dark powder. A needle injects liquid gycol (common antifreeze) into the ball, which starts a chemical reaction. The ball drops from the ship, then ignites about a half-minute later. (Quill/Vaughn)

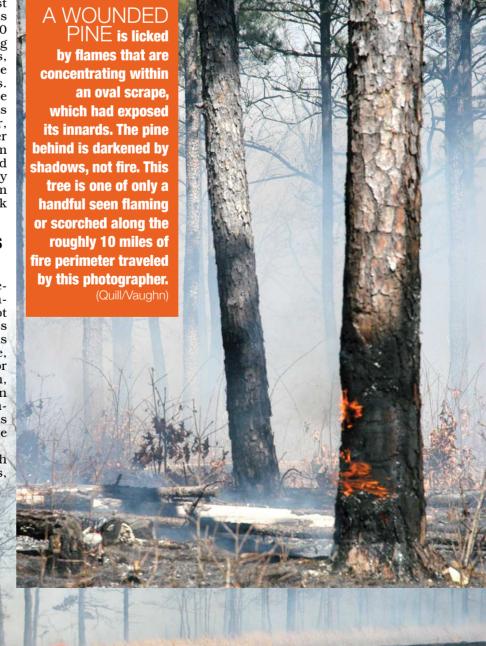
bark in degrees varying from none to a patch here and there. Dead snags smoldered but only rarely did a live tree show signs of actually catching fire.

Each year, Mark Twain National Forest staff intentionally burns an average of 30,000 acres in parcels ranging from 40 to 8,000 acres, scattered throughout the forest's 1.5 million acres. Mostly their purpose is to reduce hazardous fuels. As a bonus, deer, turkey, quail and other species can benefit from improved habitat, said wildlife biologist Jody Eberly, fire program manager for the Mark Twain.

### **CONGRESSMAN ENTERS ONGOING DEBATE**

The March 13 prescribed burn had another purpose but not everyone thinks worthwhile. A debate is ongoing; on the surface, it's about using fire for ecosystem restoration, but the conversation dips into seemingly unrelated topics such as oak decline and climate

change. proceeding with burn and others, In this



A PRIVATE PASTURE burns before the flames move into the woods. Landowner John Orr cooperates with the Forest Service, allowing his land to be burned along with the adjoining national forest. This relationship saves the agency

money because fewer fire lines are needed to circumvent the private land, and Orr also provides a spot to land the helicopter if needed. (Quill/Vaughn)