hite oak is a dominant species across the central, northern, and Appalachian hardwood regions from the mid-south to the Midwest (Figure 1). It is important ecologically and economically. Sustaining significant white oak resources is critical to the long-term survival and



and Analysis Program. 2018. Unpublished data. Knoxville, TN: U.S. Department of Agriculture, Forest Service, Northern Research Station

> in regenerating white oak and maintaining high-quality white oak growing stocks. Current forest data from the white oak region (Figure 2) shows a significant reduction in smaller-sized

means there is a sustainability problem looming for industries and growth of imporwildlife species tant economic that are benefited sectors, including by white oak. the forest products Historical and distilling industries responsi-

the future. This

land-use practices including repeated wildfires are credited with creating conditions that made

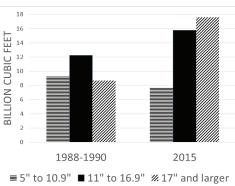
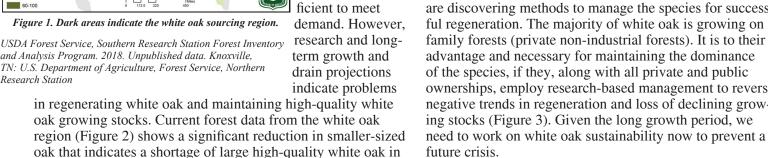


Figure 2. Size class data from Luppold 2017 USFS.

it easy for oaks to regenerate. However, the reduction of these practices and lack of current management coupled with exploitive timber harvesting practices have resulted in decreasing natural regeneration success of white oak on moderate and good quality sites. Fortunately, researchers are discovering methods to manage the species for successownerships, employ research-based management to reverse negative trends in regeneration and loss of declining grow-



ble for generating

billions of dollars

to local economies

Currently, white

throughout the white oak region.

oak growing

stocks are suf-

Figure 3. Understory of 3 to 4 foot tall native oak seedlings resulting from researched based management on the Taylor Farm in Kentucky.



White Oak Initiative

The importance of white oak to the industries that are dependent on it and the ecosystem values it provides warrants a strategic and holistic approach to its sustainability, including monitoring, research, sustainable management and harvesting, and education. This must occur across state boundaries throughout the heart of the white oak region. The White Oak Initiative is a partnership comprised of industry, agency, university, and nonprofits to bring together those dependent or invested in the economic, social, and/ or environmental benefits of white oak. The Initiative is designed to actively develop and facilitate the implementation of practices specifically designed to conserve and sustainably manage white oak-dominated forests. The Initiative has a region-wide steering committee representing both industrial and non-industrial interests that will work to facilitate and coordinate white oak work.

While the White Oak Initiative is still in its infancy and membership is still evolving, several notable white oak projects have already been initiated. This includes research collaboration among several universities in the region and U.S. Forest Service researchers that are meeting to build research projects tackling various aspects of white oak sustainability. There are also two large coordinated projects involving 17 state forestry agencies in the region, facilitated by the University of Kentucky Department of Forestry and Natural Resources and the Kentucky Division of Forestry for the southern states, and the American Forest Foundation for northern states. The White Oak Initiative will help to facilitate these ventures as well as help find additional resources, educate elected officials, and promote research and technology transfer to sustain white oak. The Initiative also is aligned with the Kentucky Spirits Research Institute being developed at the University of Kentucky that has a direct concern with white oak wood availability. Both of these will collaborate to further research into the sustainability of the species.

White Oak Initiative Membership

The White Oak Initiative Steering Committee is meeting to develop the internal structure of the organization. Commitments have been made and funding procured for a director. Steering committee members have formed nine subcommittees to help move the Initiative forward. The membership committee has drafted entry principles and will be sending out information on how to join the Initiative to all those who have indicated an interest in the Initiative over the last two years as well as to aligned industries, agencies, organizations, and individuals. A web presence is being developed and when launched will provide updates on white oak projects, activities of the Initiative, and an entry portal for those interested in membership. Stay tuned for further information on the White Oak Initiative. If you have an interest in joining, please send your name, mailing address, email address, and if you are comfortable, your phone number, to the Forestry Extension office of the University of Kentucky at forestry.extension@ uky.edu.

About the Author:

Jeff Stringer, Ph.D., is the chair of the University of Kentucky Department of Forestry and Natural Resources. He is also responsible for continuing education and research in hardwood silviculture and forest operations and serves as an editor of the Kentucky Woodlands Magazine.

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