

The Inventory

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An Update Concerning the SRS FIA Program

SRS FIA Information Update

2020 has come to an end—finally! Within FIA, we are still in the midst of the COVID-19 impact on FIA activities. Back in the spring of 2020, each of the Regional FIA Program Managers was asked to project what the impact of COVID-19 would be on FIA activities. Of course, back then there were a lot of unknowns—i.e. how long would this pandemic last; what would be the impact on travel? At that time, the estimate was that we would complete only 60–70 percent of the expected plots for the remainder of 2020, data processing and posting would increase slightly for a short period of time, and reporting would be static.

How good were these estimates? In October of 2020, the actual southern FIA plots completed was approximately 90 percent—better than expected. Reporting, data processing, and posting were in line with what was expected. Of course, we are still under restrictions/limitations with overnight travel and have been unable to complete a full-year panel in some States due to travel/access issues.

What will happen in 2021? Due to the inability to complete full-year panels and our policy not to release partial panel data, data processing and posting will begin to lag. Reporting will also lag but delayed by 6 months or so. We have opened multiple year panels in some States to keep the State field crews operating. Bottom line—after we return to more normal operating procedures, the impact of COVID-19 will be felt for years to come. How many? My guess is at least two and possibly more depending on how long these modified procedures are in place.

One other item I would like to mention—the “2021 Timber Products Output (TPO) User Group Meeting” will be held virtually on February 2–5, 2021. The agenda and speakers are currently being finalized and details on how to register for and access the virtual meeting will be completed shortly. If you are interested in this session, please contact me for the details.

As always, if you have any technical questions regarding FIA, please submit them to Janet Griffin (janet.griffin@usda.gov) and we will answer your questions in a future issue of *The Inventory*. Thank you for your interest in FIA and please let us know how we may serve you in the future.

Bill

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One-Click TPO Factsheets and TPO Interactive Reporting Tool

Since the latter half of 2018, the SRS FIA unit has been working on how the program delivers congressionally mandated annual products. Christopher M. Oswalt and Ted Ridley, in coordination with others across the unit, led those efforts. Around the office, the project was known as the “Five Priorities Project” due to the objective of reaching five separate reporting goals:

1. Automated annual factsheets for the reporting of the status and trends of State forest resources,
2. A set of automated annual supplemental tables to support the annual factsheets,
3. Automated factsheets for the reporting of timber product output (TPO) data,
4. A set of supplemental tables to support the timber product output factsheets, and
5. Integration of reporting products from the National Woodland Owner Survey.

This article will primarily focus on goals three and four of the priorities project.

The One Click TPO application provides a web-based platform for obtaining State-level FIA summaries for forest industry attributes in an easy-to-read factsheet. The process only requires the user to navigate to the website and click on a State of interest to view State-level timber industry data summary for the most recent, processed TPO survey year. This application not only gives users rapid access to State TPO factsheets, the FIA program can produce these factsheets for publication and archiving at Treesearch more efficiently than before. The result is a significant cost savings for the program and a quicker publication production rate to provide our users with citable documentation of the changes in the forest products industry in the U.S. Additionally, each factsheet contains a link to supplemental tables corresponding to the State the user selected to generate the factsheet.

Goal four of the project was accomplished by constructing a web-based application that allows users a way to obtain TPO data that goes a step beyond the summarized information presented in the factsheets. A user simply selects a survey year and State of interest, or even down to groups of Counties if desired, to be provided with a group of TPO tables ranging from production data to mill

residue data. This approach allows the ability to customize what users would like to see and download the individual tables as several file format types for further analysis if desired. The application also helps in the realm of data requests as it gives simple access to State and County-level TPO data that many users have requested.

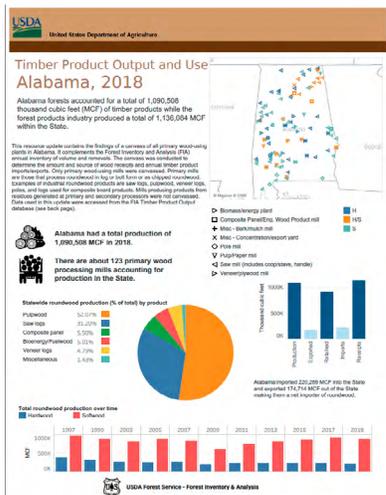
Currently, One Click TPO and TPO Interactive Reporting Tool is completely operational for the southern States. The National FIA program continues to work toward having all States operational. These new applications and other TPO data resources are available by selecting the “TPO Tool Kit” link shown on the Southern Research Station FIA website. The tool kit site is a depository of past TPO data tools and current applications giving users access to legacy as well as current data.

Please contact Jason Cooper (jason.a.cooper@usda.gov or 865-862-2009) for the current and future development of the One Click TPO application and associated products.

One Click TPO—<https://tabsoft.co/3cZZV2>

TPO Interactive Reporting Tool—<https://public.tableau.com/views/TPOREPORTINGTOOL/MakeSelection?:showVizHome=no>

TPO Tool Kit—<https://www.fia.fs.fed.us/program-features/tpo/>



For more information, contact Jason Cooper at 865-862-2009 or jason.a.cooper@usda.gov.

TPO Toolkits

TPO One-Click Fact Sheets

The Timber Products Output (TPO) One-Click Fact Sheets allows visitors to view TPO factsheets via an interactive experience. Click on the desired state on the map to produce a real-time fact sheet of that state based on current TPO data. Data include state-wide production, products, number of primary mills and types, roundwood exports/imports and retained production.

TPO Interactive Reporting Tool

The Timber Products Output (TPO) Interactive Reporting Tool allows visitors to view TPO data via an interactive experience. Click on the desired state(s) or counties on the map to produce TPO data based on the geographic area and year of interest. The TPO Interactive Tool includes estimates of timber products, logging residue, mill residue, residential fuelwood, and other removals based on the selected area.

TPO Explorer (Coming Soon)

The Timber Product Output (TPO) Explorer is the tool for investigating the spatial and temporal patterns in roundwood production, logging residue, mill residue, residential fuelwood, and other removals. Explore the latest surveys or go back in time and map county estimates by product or residue type, owner, species group or source. Track mill production (exported or retained) and receipts (imported or retained) by state, species group, and product. Pattern mill locations by type of production and major species group.

TPO Data Download

The Timber Products Output (TPO) Data Download allows visitors to download Timber Product Output Survey data at the state and county level. TPO Data Download provides TPO data in .xlsx file format. Data included for download are the most granular state and county level data publicly available to our users. These files allow visitors to produce estimates of timber products, logging residue, mill residue, residential fuelwood, and other removals at the state and county level.

Recently Published TPO Factsheets

These TPO factsheets were developed

using: <https://public.tableau.com/views/FIATPOOneClickFactsheet/StateSelection?:showVizHome=no>

USDA Forest Service. 2020. Timber Product Output and Use for Alabama, 2017. Resource Update FS-265. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60189>.

USDA Forest Service. 2020. Timber Product Output and Use for Arkansas, 2017. Resource Update FS-266. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60190>.

USDA Forest Service. 2020. Timber Product Output and Use for Florida, 2017. Resource Update FS-267. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60191>.

USDA Forest Service. 2020. Timber Product Output and Use for Georgia, 2017. Resource Update FS-268. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60192>.

USDA Forest Service. 2020. Timber Product Output and Use for Kentucky, 2017. Resource Update FS-269. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60193>.

USDA Forest Service. 2020. Timber Product Output and Use for Louisiana, 2017. Resource Update FS-270. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60194>.

USDA Forest Service. 2020. Timber Product Output and Use for Mississippi, 2017. Resource Update FS-271. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60184>.

USDA Forest Service. 2020. Timber Product Output and Use for North Carolina, 2017. Resource Update FS-272. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60185>.

USDA Forest Service. 2020. Timber Product Output and Use for Oklahoma, 2017. Resource Update FS-273. Asheville, NC: U.S.

Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60186>.

USDA Forest Service. 2020. Timber Product Output and Use for Tennessee, 2017. Resource Update FS-275. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60188>.

USDA Forest Service. 2020. Timber Product Output and Use for Virginia, 2017. Resource Update FS-277. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60196>.

USDA Forest Service. 2020. Timber Product Output and Use for South Carolina, 2017. Resource Update FS-274. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://www.srs.fs.usda.gov/pubs/60187>.

USDA Forest Service. 2020. Timber Product Output and Use for Texas, 2017. Resource Update FS-276. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-276>. <https://www.srs.fs.usda.gov/pubs/60195>.

USDA Forest Service. 2020. Timber Product Output and Use for Alabama, 2018. Resource Update FS-281. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-281>. <https://www.srs.fs.usda.gov/pubs/61611>.

USDA Forest Service. 2020. Timber Product Output and Use for Arkansas, 2018. Resource Update FS-282. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-282>. <https://www.srs.fs.usda.gov/pubs/61610>.

USDA Forest Service. 2020. Timber Product Output and Use for Florida, 2018. Resource Update FS-283. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-283>. <https://www.srs.fs.usda.gov/pubs/61612>.

USDA Forest Service. 2020. Timber Product Output and Use for Georgia, 2018. Resource Update FS-284. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-284>. <https://www.srs.fs.usda.gov/pubs/61613>.

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***Recently Published
TPO Factsheets
(continued)***

- USDA Forest Service.** 2020. Timber Product Output and Use for Kentucky, 2018. Resource Update FS-285. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-285>. <https://www.srs.fs.usda.gov/pubs/61614>.
- USDA Forest Service.** 2020. Timber Product Output and Use for Louisiana, 2018. Resource Update FS-286. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-286>. <https://www.srs.fs.usda.gov/pubs/61615>.
- USDA Forest Service.** 2020. Timber Product Output and Use for Mississippi, 2018. Resource Update FS-287. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-287>. <https://www.srs.fs.usda.gov/pubs/61616>.
- USDA Forest Service.** 2020. Timber Product Output and Use for North Carolina, 2018. Resource Update FS-288. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-288>. <https://www.srs.fs.usda.gov/pubs/61617>.
- USDA Forest Service.** 2020. Timber Product Output and Use for Oklahoma, 2018. Resource Update FS-289. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-289>. <https://www.srs.fs.usda.gov/pubs/61618>.
- USDA Forest Service.** 2020. Timber Product Output and Use for South Carolina, 2018. Resource Update FS-290. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-290>. <https://www.srs.fs.usda.gov/pubs/61619>.
- USDA Forest Service.** 2020. Timber Product Output and Use for Tennessee, 2018. Resource Update FS-291. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-291>. <https://www.srs.fs.usda.gov/pubs/61620>.
- USDA Forest Service.** 2020. Timber Product Output and Use for Texas, 2018. Resource Update FS-292. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-292>. <https://www.srs.fs.usda.gov/pubs/61621>.
- USDA Forest Service.** 2020. Timber Product Output and Use for Virginia, 2018. Resource Update FS-293. Asheville, NC: U.S. Department of Agriculture, Forest Service, 2 p. <https://doi.org/10.2737/FS-RU-293>. <https://www.srs.fs.usda.gov/pubs/61622>.

***Nontimber Forest
Products: Think
Food & Medicine***

Forests provide more than timber! In fact, people were harvesting food and medicine from U.S. forests long before the technology existed to cut timber. The harvest of nontimber forest products continues to support an economy that for the most part is invisible—harvest volumes are rarely tracked.

SRS FIA is working to change that. The eastern hardwood forests have been the source of raw materials for the herbal medicine industry since the 18th century, yet production and trade volumes have not been tracked, monitored, nor recorded (Kruger et al. 2020a). The exception to this is the harvest of American ginseng, which has been tracked since the mid-1970s when international trade of this slow-growing forest herb became regulated by the Convention on International Trade of Endangered Flora and Fauna (CITES). Because of this, buyers must be registered with appropriate State agencies, and report volumes, transactions, and purchase locations. Partnering with the College of Natural Resources at Virginia Tech,

ginseng buyers were surveyed across the region, who reported buying more than 60 species of medicinal forest plants—the most common being goldenseal, black cohosh and bloodroot (Kruger and others 2020a). Transactions occurred in all 15 states, with greatest concentration of trade volumes distributed in Forest Inventory and Analysis units in Central Appalachia (figs. 1 and 2 on following page).

Despite well established markets, there is little estimation of annual trade value or volume of medicinal forest products (Kruger and others 2020b). Mean and total purchased volumes of 11 medicinal forest products were reported by respondents of the buyer survey. Projections of annual output for these products range from more than 120,000 kg of black cohosh to 91 kg of Virginia snakeroot. Black cohosh and goldenseal accounted for more than 70 percent of estimated total trade volume. Average prices per Kg ranged from US\$5.37 for wild yam to US\$186.00 for Virginia snakeroot. The

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***Nontimber Forest
Products: Think
Food & Medicine
(continued)***

Figure 1—Distribution of goldenseal trade relative to FIA units, inset map illustrates natural range of goldenseal.

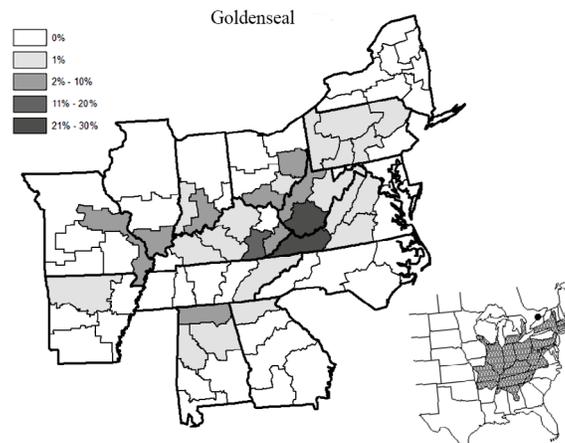
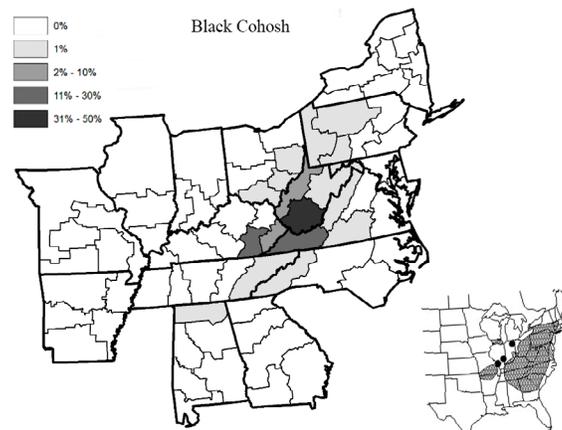


Figure 2—Distribution of black cohosh trade relative to FIA units, inset map illustrates natural range of black cohosh.



overall estimated value of the 11 medicinal forest products, at first point of sale, was over US\$4.3 million in 2015.

As part of this project, the partners developed an internet-based tool [[RootReport](#)] to monitor harvest volumes of medicinal forest products across eastern United States. The goal of this effort is to provide measures of the scope and distribution of production and economic impacts, and to make results available to people who work with and care about these plants. This effort provides an essential analytic, yet needs to be expanded to other regions, markets, and products.

Not all medicinal forest products come from understory herbaceous plants. The bark of several trees, including slippery elm and black cherry, is harvested for its medicinal properties. Other forest grown trees—pinyon pine, sugar maple, persimmon, pawpaw, and eastern black walnut—provide food. SRS FIA is gleaning information from its databases to provide Science Updates on these and other trees which will be accessible through a soon-to-be released webpage. Stay tuned for a summary of some of these in future issues of this newsletter.

References

Kruger, S.D., Munsell, J.F., Chamberlain, J.L., Davis, J.M. and Huish, R.D., 2020a. Describing Medicinal Non-Timber Forest Product Trade in Eastern Deciduous Forests of the United States. *Forests*, 11(4), p. 435.

Kruger, S.D., Munsell, J.F., Chamberlain, J.L., Davis, J.M. and Huish, R.D., 2020b. Projecting medicinal plant trade volume and value in deciduous forests of the eastern United States. *Forests*, 11(1), p. 74.

RootReport: <https://www.rootreport.frec.vt.edu/index.html>

Recently Published NTFP Science Updates

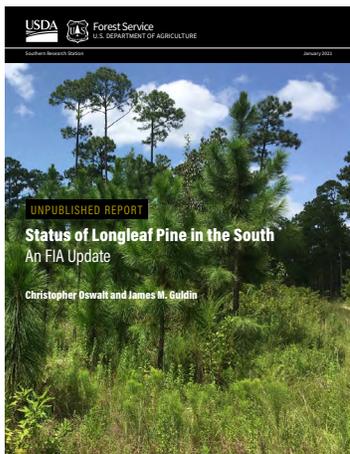
Chamberlain, J. 2020. NTFPs from trees: Pinyon pine. Science Update SRS-139. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 2 p. <https://doi.org/10.2737/SRS-SU-139>. <https://www.srs.fs.usda.gov/pubs/61677>.

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Recently Published NTFP Science Updates (continued)

- Chamberlain, J.** 2020. NTFPs from trees: Common persimmon. Science Update SRS-142. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 2 p. <https://doi.org/10.2737/SRS-SU-142>. <https://www.srs.fs.usda.gov/pubs/61678>.
- Chamberlain, J.** 2020. NTFPs from trees: Fraser fir. Science Update SRS-137. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 2 p. <https://doi.org/10.2737/SRS-SU-137>. <https://www.srs.fs.usda.gov/pubs/61652>.
- Chamberlain, J.** 2020. NTFPs from trees: Noble fir. Science Update SRS-138. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 2 p. <https://doi.org/10.2737/SRS-SU-138>. <https://www.srs.fs.usda.gov/pubs/61653>.
- Chamberlain, J.** 2020. NTFPs from trees: Sugar maple. Science Update SRS-140 Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 2 p. <https://doi.org/10.2737/SRS-SU-140>. <https://www.srs.fs.usda.gov/pubs/61654>.
- Chamberlain, J.** 2020. NTFPs from trees: Pawpaw. Science Update SRS-141. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 2 p. <https://doi.org/10.2737/SRS-SU-141>. <https://www.srs.fs.usda.gov/pubs/61655>.

An Update on Longleaf Pine Forests in the United States



In 2012, the Southern Research Station (SRS) Forest Inventory and Analysis (FIA) unit published a comprehensive assessment of the extent and condition of longleaf pine (*Pinus palustris*)-dominated forests across the United States. Today, SRS-FIA is releasing an “unpublished” report that updates the estimates of longleaf forests after about 10 years of time has passed.

In this report, we present an update on the status of longleaf pine in the Southern United States. Specifically, we provide selected tables and summary data for the two longleaf pine-dominant forest types—the longleaf pine type and the longleaf pine/oak type—using the latest round of forest inventory data from each of the nine States encompassing the range of longleaf pine. The report represents 7–8 years of change in the longleaf pine resource, and it provides a comparison with a previously published report on the history and current condition of longleaf pine. The data presented show that the two dominant longleaf pine forest types occupy slightly more than 4.5 million acres across the South, a net gain of only about 232,000 acres since the 2012 report. But there are strong indications in this 2020 update that clearly show that efforts to restore this iconic forest type are meeting with success. There are dramatic increases in live tree longleaf pine numbers in the 10.9-inch and smaller diameter classes, and similar increases in the area of longleaf pine forest types in the 0–40 year age classes, both of which far exceed numbers in the previous 2012 report.

It is FIA’s hope that our partners and other interested parties will review this newly released update and provide feedback as the authors look toward developing this information into the next comprehensive report on the extent and condition of longleaf forests in the U.S. Feedback can be provided to christopher.oswalt@usda.gov.

Both reports are accessible at the links below:

Status of Longleaf Pine in the South: an FIA Update

Oswalt, Christopher; Guldin, James M. 2021. Status of longleaf pine in the South: an FIA update. 25 p. Unpublished report. On file with: Chris Oswalt, Southern Research Station, Forest Inventory and Analysis, 4700 Old Kingston Pike, Knoxville, TN 37919. <https://www.srs.fs.usda.gov/pubs/61790>.

History and Current Condition of Longleaf Pine in the Southern United States

Oswalt, Christopher M.; Cooper, Jason A.; Brockway, Dale G.; Brooks, Horace W.; Walker, Joan L.; Connor, Kristina F.; Oswalt, Sonja N.; Conner, Roger C. 2012. History and current condition of longleaf pine in the Southern United States. Gen. Tech. Rep. SRS-166. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 51 p. <https://www.fs.usda.gov/treesearch/pubs/42259>.

For more information, contact Christopher Oswalt at 540-231-3611 or christopher.oswalt@usda.gov.

***FY 2021 Publications
Published since
September, 2020***

- Brooks, E.B.; Coulston, J.W.; Riitters, K.H.; Wear, D.N.** 2020. Using a hybrid demand-allocation algorithm to enable distributional analysis of land use change patterns. *PLOS ONE*. 15(10): e0240097. <https://doi.org/10.1371/journal.pone.0240097>. <https://www.srs.fs.usda.gov/pubs/61532>.
- Coulston, J.W.; Edgar, C.B.; Westfall, J.A.; Taylor, M.E.** 2020. Estimation of Forest Disturbance from Retrospective Observations in a Broad-Scale Inventory. *Forests*. 11(12): 1298. <https://doi.org/10.3390/f11121298>. <https://www.srs.fs.usda.gov/pubs/61672>.
- Derwin, J.M.; Thomas, V.A.; Wynne, R.H.; Coulston, J.W.; Liknes, G.C.; Bender, S.; Blinn, C.E.; Brooks, E.B.; Ruefenacht, B.; Benton, R.; Finco, M.V.; Megown, K.** 2020. Estimating tree canopy cover using harmonic regression coefficients derived from multitemporal Landsat data. *International J. of Applied Earth Observation and Geoinformation*. 86: 101985. <https://doi.org/10.1016/j.jag.2019.101985>. <https://www.srs.fs.usda.gov/pubs/61531>.
- Domke, G.M.; Oswalt, S.N.; Walters, B.F.; Morin, R.S.** 2020. Tree planting has the potential to increase carbon sequestration capacity of forests in the United States. *Proc. of the National Academy of Sciences*. Sep. 2020, 202010840. <https://doi.org/10.1073/pnas.2010840117>. <https://www.srs.fs.usda.gov/pubs/60965>.
- Green, P.C.; Burkhart, H.E.; Coulston, J.W.; Radtke, P.J.; Thomas, V.A.** 2020. Auxiliary information resolution effects on small area estimation in plantation forest inventory. *Forestry: An International J. of Forest Research*. 93(5): 685–693. <https://doi.org/10.1093/forestry/cpaa012>. <https://www.srs.fs.usda.gov/pubs/61530>.
- Koch, F.H.; Coulston, J.W.** 2020. Chapter 4 - Drought and moisture surplus patterns in the conterminous United States: 2018, 2016–2018, and 2014–2018. In: Potter, K.M.; Conkling, B.L., eds. *Forest health monitoring: national status, trends, and analysis 2019*. Gen. Tech. Rep. SRS–250. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: pp. 83–102. <https://www.srs.fs.usda.gov/pubs/60384>.
- Kruger, S.D.; Munsell, J.F.; Chamberlain, J.L.; Davis, J.M.; Huish, R.D.** 2020. Describing medicinal non-timber forest product trade in eastern deciduous forests of the United States. *Forests*. 11(4): 435. <https://doi.org/10.3390/f11040435>. <https://www.srs.fs.usda.gov/pubs/60901>.
- Moisen, G.G.; McConville, K.S.; Schroeder, T.A.; Healey, S.P.; Finco, M.V.; Frescino, T.S.** 2020. Estimating land use and land cover change in north central Georgia: Can remote sensing observations augment traditional forest inventory data? *Forests*. 11(8): 856. <https://www.srs.fs.usda.gov/pubs/61144>.
- Rosson, J.F., Jr.** 2020. Arkansas's Forests, 2017: Annual Update. Resource Update FS–278. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 4 p. <http://doi.org/10.2737/FS-RU-278>. <https://www.srs.fs.usda.gov/pubs/60841>.
- Rosson, J.F., Jr.** 2020. Arkansas's Forests, 2018: Annual Update. Resource Update FS–279. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 4 p. <https://doi.org/10.2737/FS-RU-279>. <https://www.srs.fs.usda.gov/pubs/61009>.
- Rosson, J.F., Jr.** 2020. Arkansas's Forests, 2019: Annual Update. Resource Update FS–280. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 4 p. <https://www.srs.fs.usda.gov/pubs/61509>.
- Sheppard, J.P.; Chamberlain, J.; Agúndez, D.; Bhattacharya, P.; Chirwa, P.; Wanangwa; G.A.; Sagona, W. C.J.; Shen, Hai-long; Tadesse, W.; Mutke, S.** 2020. Sustainable forest management beyond the timber-oriented status quo: transitioning to co-production of timber and non-wood forest products—a global perspective. *Current Forestry Reports*. 6(1): 26–40. <https://doi.org/10.1007/s40725-019-00107-1>. <https://www.srs.fs.usda.gov/pubs/60880>.

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***FY 2021 Publications
Published since
September, 2020
(continued)***

Stryamets, N.; Elbakidze, M.; Chamberlain, J.; Angelstam, P. 2020. Governance of non-wood forest products in Russia and Ukraine: Institutional rules, stakeholder arrangements, and decision-making processes. *Land Use Policy*. 94: 104289. <https://doi.org/10.1016/j.landusepol.2019.104289>. <https://www.srs.fs.usda.gov/pubs/60899>.

Vogt, J.T.; Gandhi, K.J.K.; Bragg, D.C.; Olatinwo, R.; Klepzig, K.D. 2020. Interactions between weather-related disturbance and forest insects and diseases in the Southern United States. *Gen. Tech. Rep. SRS-255*. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 37 p. <https://doi.org/10.2737/SRS-GTR-255>. <https://www.srs.fs.usda.gov/pubs/60817>.

The FIA one-click application for annual State FIA data can be found here:

<https://doi.org/10.2737/FIA-One-Click-State-Report-v1.2>.

USDA Forest Service. 2020. Forests of Alabama, 2019. Resource Update FS-252. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://www.srs.fs.usda.gov/pubs/60632>.

USDA Forest Service. 2020. Forests of Arkansas, 2019. Resource Update FS-253. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://doi.org/10.2737/FS-RU-253>. <https://www.srs.fs.usda.gov/pubs/59965>.

USDA Forest Service. 2020. Forests of Florida, 2017. Resource Update FS 255. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://doi.org/10.2737/FS-RU-255>. <https://www.srs.fs.usda.gov/pubs/60304>.

USDA Forest Service. 2020. Forests of Georgia, 2018. Resource Update FS-254. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://doi.org/10.2737/FS-RU-254>. <https://www.srs.fs.usda.gov/pubs/59931>.

USDA Forest Service. 2020. Forests of Kentucky, 2017. Resource Update FS-256. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://www.srs.fs.usda.gov/pubs/60812>.

USDA Forest Service. 2020. Forests of Louisiana, 2017. Resource Update FS-257. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://www.srs.fs.usda.gov/pubs/60813>.

USDA Forest Service. 2020. Forests of Mississippi, 2018. Resource Update FS-258. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://www.srs.fs.usda.gov/pubs/60814>.

USDA Forest Service. 2019. Forests of North Carolina, 2019. Resource Update FS-259. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://doi.org/10.2737/FS-RU-259>. <https://www.srs.fs.usda.gov/pubs/60253>.

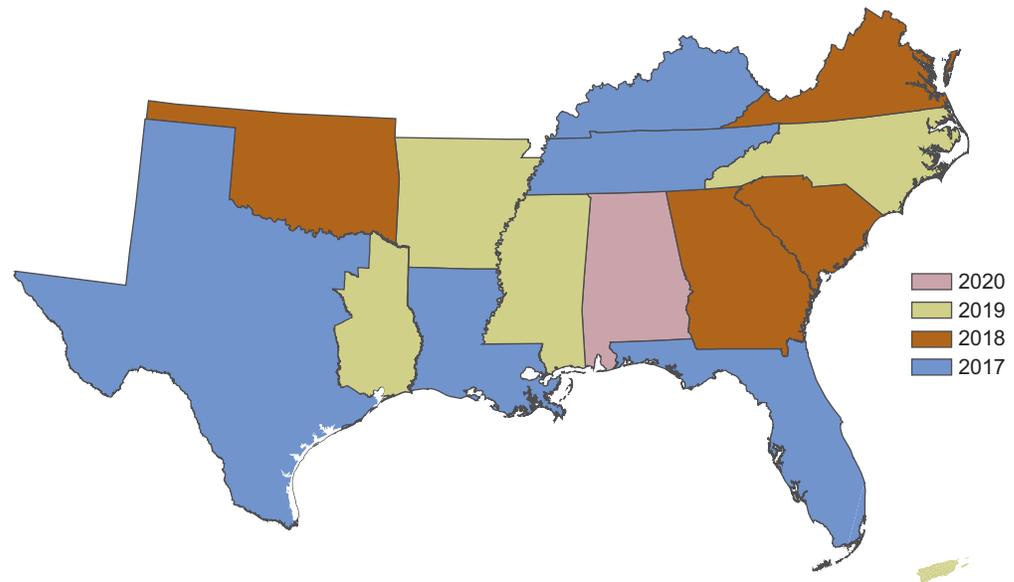
USDA Forest Service. 2020. Forests of Oklahoma, 2018. Resource Update FS-260. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://doi.org/10.2737/FS-RU-260>. <https://www.srs.fs.usda.gov/pubs/61483>.

USDA Forest Service. 2020. Forests of East Texas, 2019. Resource Update FS-263. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://www.srs.fs.usda.gov/pubs/60815>.

USDA Forest Service. 2020. Forests of Tennessee, 2017. Resource Update FS-262. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://www.srs.fs.usda.gov/pubs/60816>.

USDA Forest Service. 2020. Forests of Virginia, 2018. Resource Update FS-264. Asheville, NC: U.S. Department of Agriculture, Forest Service. 2 p. <https://doi.org/10.2737/FS-RU-264>. <https://www.srs.fs.usda.gov/pubs/59963>.

Current Status of FIA Data Posted



For more information, contact Jeff Turner at 865-862-2053 or jeffery.turner@usda.gov.

Status of Current Field Inventories

State	Subcycle start date	Cycle and inventory year of current inventory	Percent of current subcycle collection completed
Alabama	May 2020	11:2021	59
Arkansas	Feb., 2020	11:2020	99
Florida	June 2018	10:2018	88
Florida ^o	June 2020	11:2019	41
Georgia	June 2019	11:2019	100
Georgia ^o	June 2020	12:2019	46
Kentucky	Sep., 2019	08:2018	87
Louisiana	Oct., 2019	09:2018	93
Mississippi	Feb., 2020	10:2020	98
North Carolina	Sep., 2020	10:2021	38
Oklahoma (east)	June 2020	09:2019	69
Oklahoma (west)	June 2020	03:2019	29
Puerto Rico	Nov., 2017	06:2018	100
Puerto Rico ^o	April 2019	06:2019	100
South Carolina	Aug., 2020	12:2020	61
Tennessee	Oct., 2019	10:2018	92
Texas (east)	Jan., 2020	11:2020	90
Texas (west)	Aug., 2019	02:2018	93
U.S. Virgin Islands	Dec., 2019	04:2019	8
Virginia	Sep., 2020	11:2020	17

For more information, contact Angie Rowe at 865-862-2052 or kimberly.rowe@usda.gov.

Information compiled January 8, 2021
^oClosing out prior panel—beginning new panel.

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FIA is a USDA Forest Service research work unit which collects, analyzes, and reports on data pertaining to our forest land in the Southern region. This region includes Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, Puerto Rico, South Carolina, Tennessee, Texas, the U.S. Virgin Islands, and Virginia.

FIA conducts this program of research to improve the understanding of the Southern forest ecosystem.

Government and private agencies utilize this data to monitor forest resources, forest use, and forest health. The collection of data is done on private and public land.

Our system development success is a direct result of our partners, our talented scientists, analysts, computer specialists, and other staff members who have continually contributed to the mission of this complex project.

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National and Southern FIA Web sites of Interest

National FIA Web site: <http://www.fia.fs.fed.us>
 National FIA database available at: <http://www.fia.fs.fed.us/tools-data/>
 National Timber Product Output (TPO) database available at: https://www.fs.usda.gov/srsfia/php/tpo_2009/tpo_rpa_intl.php
 National Woodland Owner Survey Web site: <http://www.fia.fs.fed.us/nwos/>
 Information specific to Southern States: <https://www.fs.usda.gov/srsfia/>
 Electronic copies of SRS FIA publications at: <https://www.srs.fs.usda.gov/pubs/>