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<http://tn.gov/agriculture/topic/forest-businesses>

Forest Resources and Utilization in Tennessee's Northern Middle Economic Development Region

The State of Tennessee has nine Economic Development Regions. The Northern Middle region (Figure 1, depicting forest cover), includes 13 counties. It is bounded by I-40 and 840 on the south, the Tennessee River in the west, and the Kentucky State line in the north. The 2010 Census reported the population of the region as 1.7 million or about 27% of the population of the State.

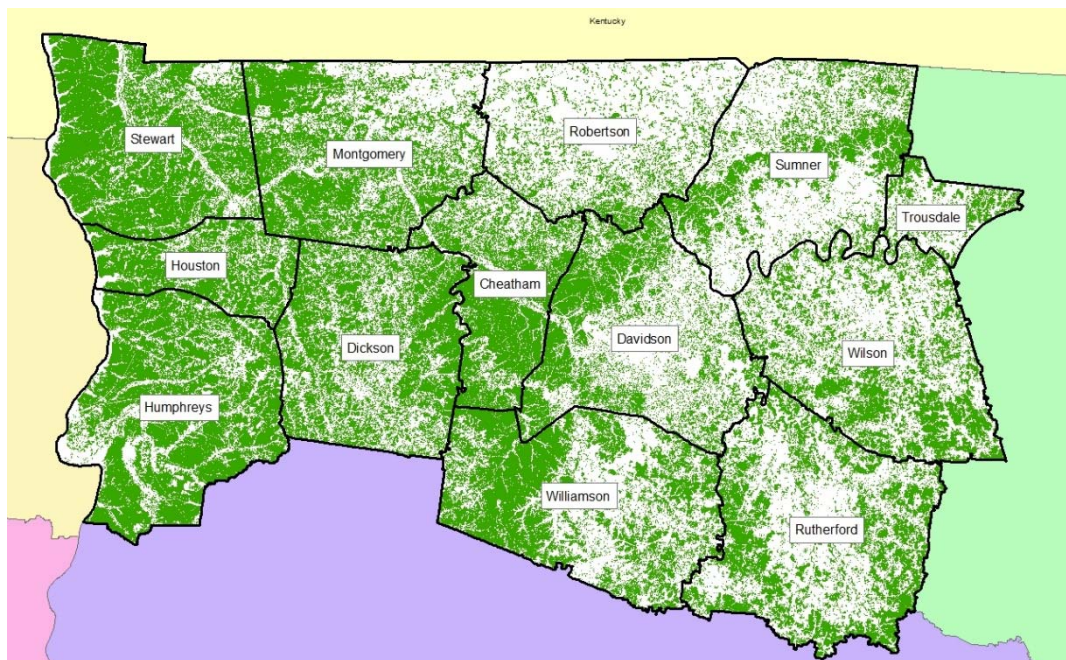


Figure 1. Northern Middle Region Forest Cover

The most recent Forest Inventory and Analysis (FIA) data gives the area of forestland in the region as 1.6 million acres out of the 3.8 million total acres.

- **Volume**

Tennessee is primarily a hardwood state and several counties in the Northern Middle Region grow some of the best hardwood timber in the state. Figure 2 shows how the 9.7 billion BFT of total forest inventory is distributed in the region (all data from FIA plots). Hardwoods make up 9.2 billion BFT of the total volume.

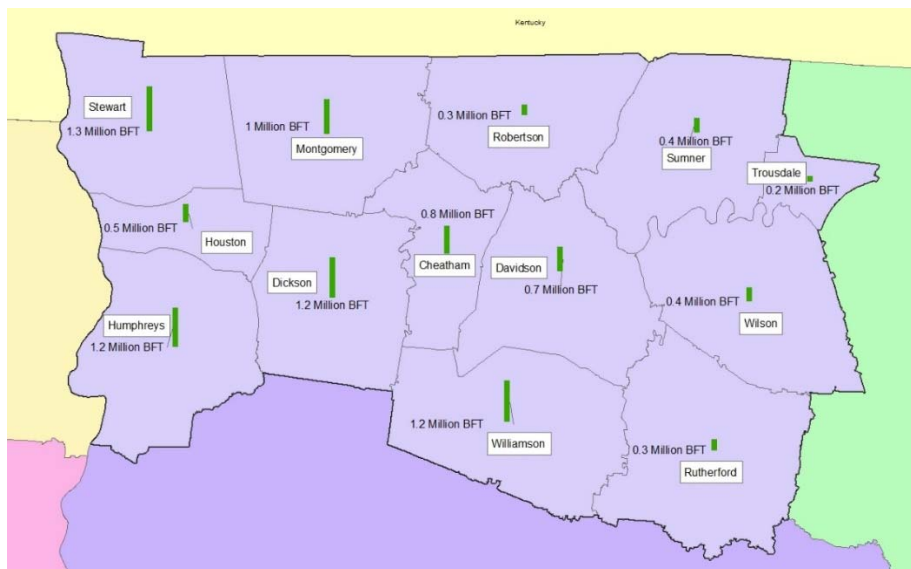


Figure 2. Northern Middle Region Total BFT Inventory

Only the six western counties in the region show any pine inventory with 172 million BFT or only about 2% of standing timber (Figure 3). The most valuable of commercial species in the region are

FOREST INVENTORY BY SPECIES

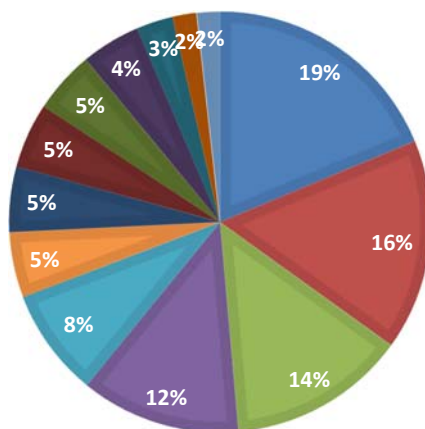
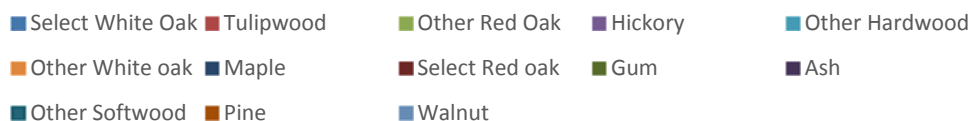


Figure 3. Northern Middle Region Total BFT Inventory by Species Group

classed as select white oak, select red oak, other white oak, other red oak, hickory, and yellow poplar. The greatest inventory is the 1.8 billion BFT of select white oak, followed by 1.5 billion BFT of yellow poplar. On a percentage basis, select white oak makes up 19% of the commercial species followed by tulipwood (yellow poplar) -16%, other red oak – 14%, and hickory – 12%.

- **Growth and Removals**

Removals were 329 million board feet in 2013. Removals include logging and tree loss due to land use changes. Harvest on private lands was 285 million BFT or 87% of the total. In the same year, FIA plot data show that growth in sawtimber trees on forest land was 400 million board feet. Growth to removal ratio for sawtimber was 1.25. The statewide average for the same period was 1.87. For the region, growth exceeds removals by 80.4 million BFT. Due to land clearing for highways and urban uses, especially in Davidson, Williamson, and Rutherford counties, not all of the removals are for producing forest products and some acres will not be returned to forestry uses but even with the drain, the forests in the region are being sustainably harvested at existing management levels.

- **Value**

Based on current prices, the timber component of the merchantable trees are valued as they stand at \$1.9 billion dollars. As shown in Figure 4, the largest component of this is select white oaks; \$617 million dollars which makes up 26% of the total value, the next highest value species is tulipwood, valued at \$363 million dollars. With 1.6 million acres, the timber on the average acre is worth \$1,489 dollars.

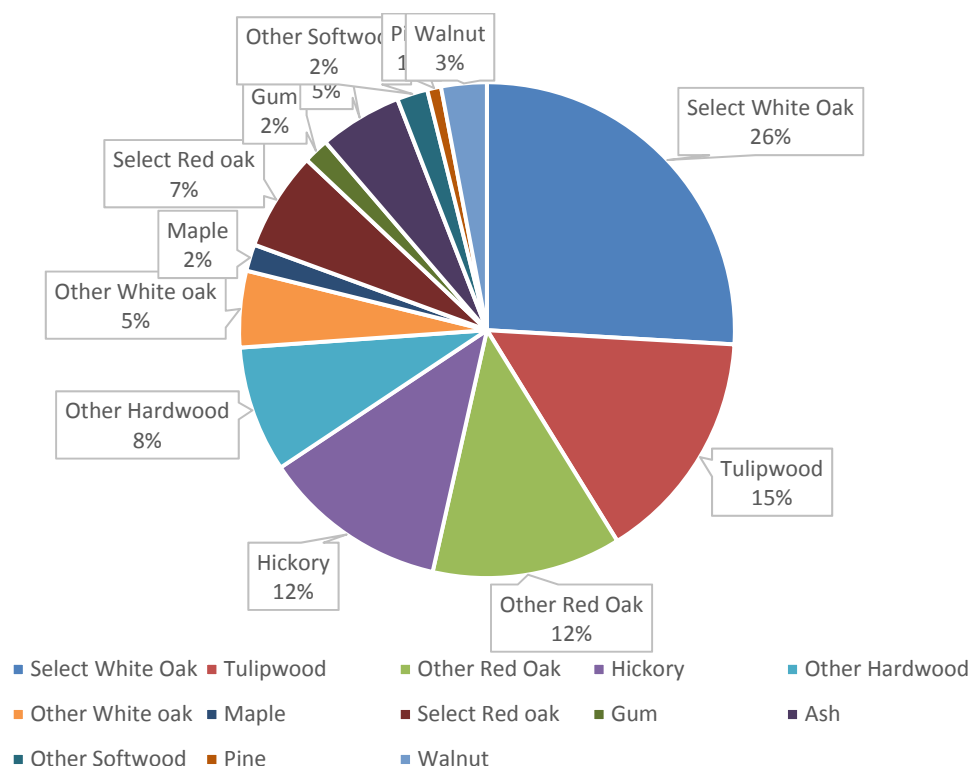


Figure 4. Northern Middle Region Total Value by Species Group

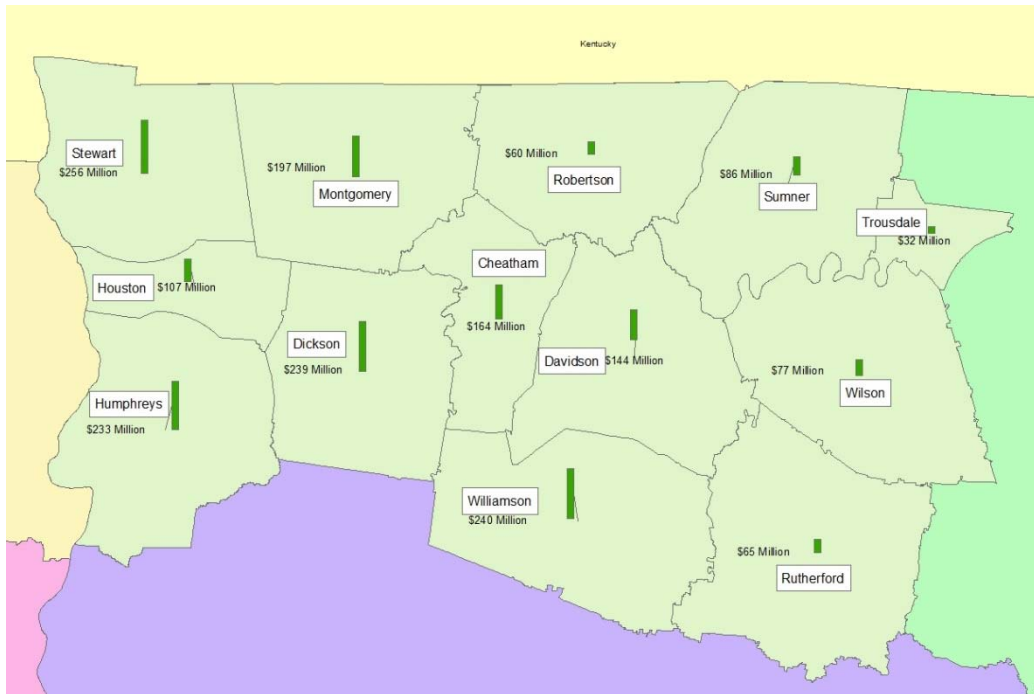


Figure 5. Tennessee Northern Middle Economic Development Region, Total Timber Value by County

Stewart has the largest total value of standing timber as shown in Figure 5 with \$256 million while Trousdale has the smallest total value at \$32 million. Last place in per acre value is held by Rutherford at only \$433 per acre due primarily to the predominance of eastern red cedar which is a low value species compared to white and red oaks that are common in most of the other counties. Robertson has the highest value average per forested acre standing timber at \$1,862 even though it has the smallest forested area of the region

Forest Industry

There are 38 forest based industries in the region that process logs (primary industries) into a multitude of products and 56 that use wood related raw materials to produce firewood, pencils, chairs, pallets, drumsticks, engineered wood, staves, and many other products. The location of primary industries that utilize logs is shown in Figure 6.

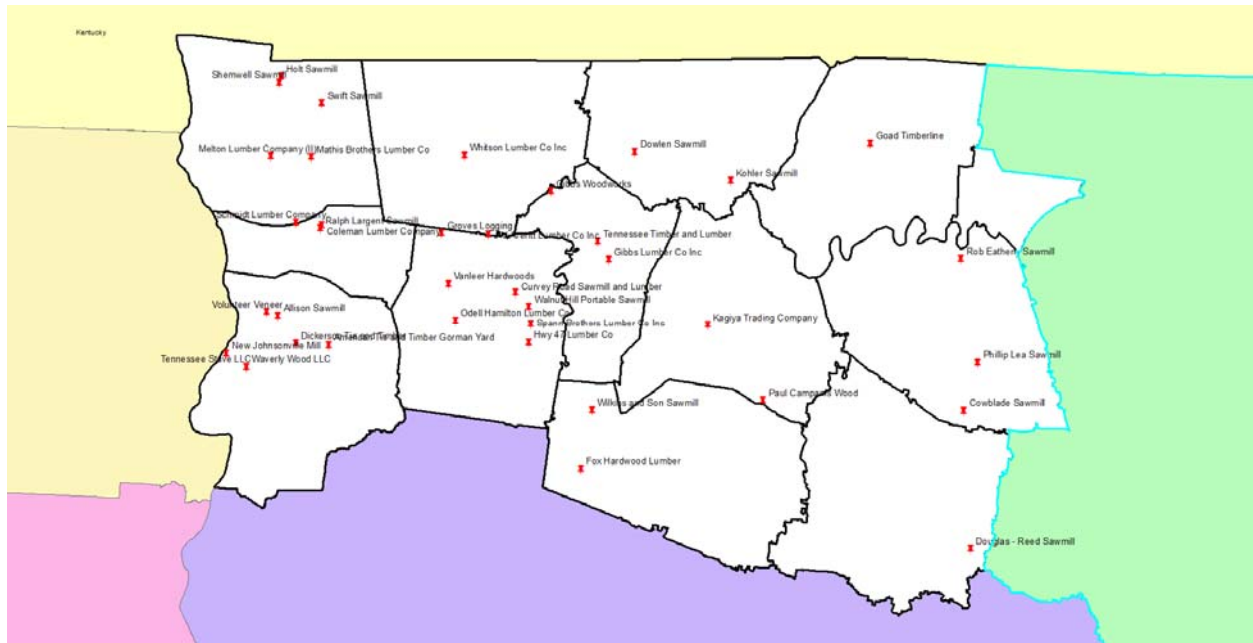


Figure6. Primary Forest Industries in Northern Middle Region

Primary forest industries in the region employ over 500 workers while secondary mills account for about 1,900 jobs.

**Delivered Forest Products Prices in Tennessee
October – December, 2016**

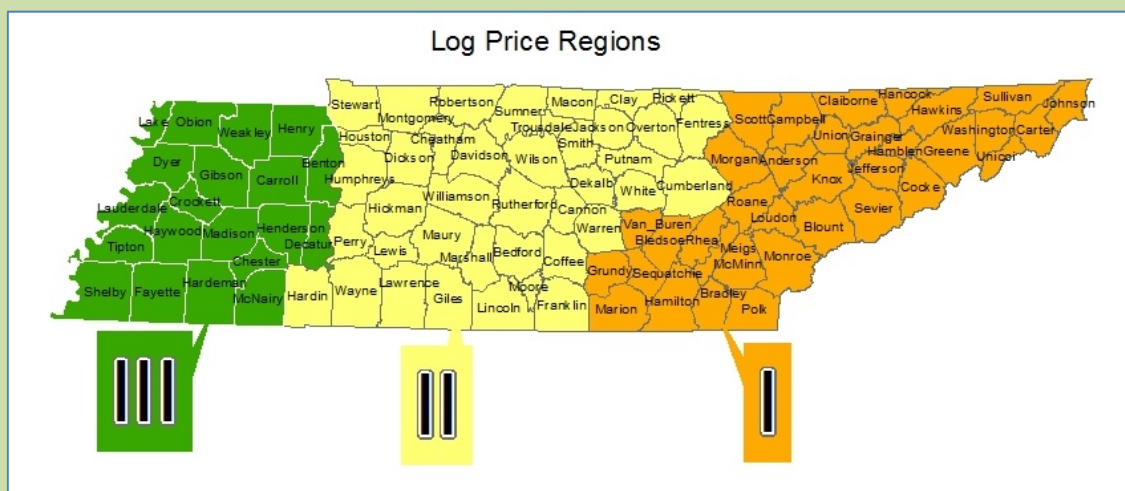
Cedar Logs	Length-6' to 12' and min DIB 4" at small end	\$85.00/ton \$330.00/MBF Cedar Rule) Chipper logs \$40/ton	II & III
Crosstie Logs	Length-8' 8"min DIB 11" and up Must be sound on both ends	<u>Oak</u> Grade 1: \$391-/MBF Doyle Grade 2: \$250/MBF Doyle \$57 per ton <u>Mixed Hardwoods</u> Grade 1: \$298-/MBF Doyle Grade 2: \$210-/MBF Doyle \$57 per ton	I, II & III
Hickory Handle Logs	Each mill will have their own requirements.	Grade 1: \$250/MBF Doyle Grade 2: \$175/MBF Doyle	I & II
White Oak Stave Logs	White Oak-Length: 8 ½' min and add on 2' increments (allow 1 knot per 3' of length", and min. DIB 12"at small end)	Grade 1: \$990/MBF Doyle Grade 2: \$743/MBF Doyle	I & II
Paulownia Logs	Min. length 2 meters + trim allowance (6' 6"+trim) and Min. DIB 8" at small end (Must be slow grown – prefer 8-10 growth rings per inch); season Oct- April	Grade 1 \$850	I, II & III
Pine Pulpwood	Pine: Diameter, length, and species may vary with purchasing company. Consult firm first before cutting	\$18/ton Some suppliers are reporting quotas (5350 lbs/ cord)	I,II & III

Hardwood Pulpwood	Hardwood: Diameter, length, and species may vary with purchasing company. Consult firm first before cutting	\$15/ton or \$44/cord (5800 lbs/ cord)	I, II & III
Softwood Logs	Length: 8'-16' and min DIB 6" at small end	Prices are limited. SY Pine: \$175/MBF Doyle White Pine: \$250/MBF Doyle Hemlock: \$180/MBF Doyle SY Pine CNS: \$25/ton	I & III
Veneer Logs	Prime logs only (specifications vary with buyer).	Red Oak: Average \$769/MBF Doyle White Oak: Average \$1,236/MBF Doyle Walnut: Average \$2,014/MBF Doyle Cherry Average \$833/MBF Doyle Poplar Average \$528/MBF Doyle	I, II & III

*Information is taken from a survey of wood-using industries in Tennessee

**Specifications vary with industries

***All prices are regional averages and are delivered prices per MBF Doyle unless otherwise indicated. They are subject to change and will vary locally. ("+" indicates an increase since our last bulletin; "-" indicates a decrease)



Hardwood Sawlogs*

Species	Region I	Region II	Region III
Red Oak	Grade 1: \$431 Grade 2: \$334 Grade 3: \$165	Grade 1: \$514 Grade 2: \$398 Grade 3: \$295-	Grade 1: \$573 Grade 2: \$457 Grade 3: \$371-
White Oak	Grade 1: \$494 Grade 2: \$353 Grade 3: \$166	Grade 1: \$630 Grade 2: \$426 Grade 3: \$301	Grade 1: \$645 Grade 2: \$529 Grade 3: \$363
Ash	Grade 1: \$344 Grade 2: \$236 Grade 3: \$132	Grade 1: \$479 Grade 2: \$337 Grade 3: \$291	Grade 1: \$542 Grade 2: \$483 Grade 3: \$350
Yellow Poplar	Grade 1: \$309 Grade 2: \$211 Grade 3: \$138	Grade 1: \$362 Grade 2: \$274 Grade 3: \$228	Grade 1: \$345 Grade 2: \$294 Grade 3: \$240
Walnut	Grade 1: \$500 Grade 2: \$334 Grade 3: \$200	Grade 1: \$1,030 Grade 2: \$625 Grade 3: \$531	Grade 1: \$1,083 Grade 2: \$850 Grade 3: \$533
Cherry	Grade 1: \$363 Grade 2: \$266 Grade 3: \$149	Grade 1: \$455 Grade 2: \$317 Grade 3: \$269	Grade 1: \$467 Grade 2: \$358 Grade 3: \$323
Hard Maple	Grade 1: \$413 Grade 2: \$294 Grade 3: \$149	Grade 1: \$495 Grade 2: \$373 Grade 3: \$314	Grade 1: \$550 Grade 2: \$200 Grade 3: \$323
Hickory	Grade 1: \$311 Grade 2: \$243 Grade 3: \$141	Grade 1: \$340- Grade 2: \$303- Grade 3: \$183-	Grade 1: no data Grade 2: \$408 Grade 3: \$325
Misc. Hardwoods	Average: \$187	Average: \$210	Average: \$332-

Increase from last quarter (+); Decrease from last quarter (-)

**Specifications: (Length: 8'-16'; and Min. DIB 8 " at small end) Delivered Price*

Prices quoted are per thousand board feet (MBF) Doyle Rule delivered to mill. Prices will vary greatly depending on many factors such as weather and mill inventories. Prices received for standing timber will be less than the delivered price based on harvest cost, haul cost and buyer profit:

Standing timber (stumpage) price = delivered price - harvest cost - haul cost - buyer profit



Wanted to Buy:

- ❖ **Hardwood Sawmill:** Foreign company with offices in Taiwan, China and Southeast Asian is looking to expand and is interested in purchasing a hardwood mill in the States. For more information, contact Cleo Fu, Agricultural Marketing Specialist with the USDA Foreign Agricultural Service: +886-2-2705-6536 ext. 242; fucwy@state.gov
- ❖ **Loblolly or shortleaf pine for utility poles:** 36 foot to 76 foot in length (length is determined by diameter). Roadside pricing. Call Doug Curry, Bell Timber for specifications and details. 715-418-9333.
- ❖ **Logs for Export:** An exporting company based out of Southern Illinois is interested in buying veneer logs for export. Any information or bid proposals can be e-mailed to swsveneer@gmail.com or call Derek Wilson at 618-559-7568.
- ❖ **Bark:** Garick, LLC is buying bark for mulch production. Contact Earl Funderburk, General Manager, Decaturville Bagging Plant, 9745 Hwy 641 S, Decaturville, TN. 731-852-2058

For Sale:

- ❖ **SCHAEFER ENTERPRISES OF WOLF LAKE, INC** –Rely on our experience, established in 1967. Used Parts Shipped Daily for Log Skidders, Crawlers, Loader Backhoes, Excavators, Wheel Loaders and Skid Steers. We have many reconditioned engines and transmissions that are Dyno-Tested. Rebuilt winches, final drives and used tires. If we do not have a part – we can locate it for you on one of our three nationwide parts locators
- ❖ **Parts for:** Allis Chalmers, Athey, Bantam/Koehring, Bobcat, Case, Clark, Daewoo, Dresser, Drott, Fiat Allis, Franklin, Hitachi, Hough, Hyundai, International, John Deere, Kobelco, Komatsu, Leihberr, Linkbelt, Michigan, Mitsubishi, New Holland, New Process, Pettibone, Samsung, Timbco, Timberjack, TreeFarmer, VME, Volvo
- ❖ We have many reconditioned engines and transmissions that are dyno-tested, rebuilt winches, final drives and used tires.
- ❖ Contact a parts professional at: (618) 833-5498 or (800) 626-6046. Ask for Andy, Brad Jill, Joe, Kevin, or Matt if buying. Ask for Jerry or Tom if selling.
- ❖ We are located at 4535 State Route 3 North, Wolf Lake, IL 62998.
- ❖ Check out our inventory at – www.sewlparts.com or you may send email requests to parts@sewlparts.com.

Components from a biofuel thermal treatment plant used to make biochar and other products

A partial listing of what is available: Wood chip/sawdust dryer with cyclone; NG/#2 fuel oil/propane furnace; motors, auger assemblies with motors, stainless steel flue gas ducting, conveyors, airlocks, condensers, air handler, flowmeters and other instruments, electrostatic precipitator, stainless steel storage tanks; climate controlled 16' control room trailer with VFDs, HMI, PLC, kWh meters, circuit breakers, considerable power and sensor wiring, etc.

The skinny on this equipment:

- ❖ Biofuel plant used intermittently for research and development over two years
- ❖ All equipment was in good condition and fully operational upon shutdown, and all equipment with the exception of the dryer cyclone and control room trailer have been kept under roof.
- ❖ Pictures and more detailed information available
- ❖ Arrangements can be made to view and inspect the equipment. Location NW Alabama
- ❖ **Buyer pays no sales commissions**

Owner is anxious to sell so make an offer. This is an unusual opportunity for the right party. Seller lost his lease and must move. Lots of good, useful items in good shape and ready to load out. These items can be used in a variety of ways for a variety of purposes.

Contact Phillip Badger, cell phone 256-762-2886, email: pbadger@bioenergyupdate.com

Other:

- ❖ **“Logs, Chips and Lumber Trucking Company:** West Tennessee company specializes in providing trucking services for area loggers, sawmills and papermills located within a 100 mile radius of Paris, TN. We currently have 20 trucks and over 60 trailers in our fleet for quick “drop and hook” service. Flatbed Trailer and Live Floor Chip Trailer services also available. Fully licensed, bonded and insured. Competitive rates. References available. Call Revel Logging, LLC at 731-642-3944 for more information. ”
- ❖ **“ATTENTION LOGGERS!** “Waverly Wood, LLC” of Waverly, TN is looking to employ additional logging crews, to log their timber tracts; long-term employment possible. All prospective contractors must have workers’ compensation and general liability insurance. Also, wanting to buy white oak stave logs and tie logs. Please contact: Mike Phillipi, Timber Procurement Manager or Todd Richardson (Office: 931-296-1455; Mobile: 615-418-0276)

The Tennessee Forest Products Bulletin welcomes those items that you are looking to buy or sell in The Trading Post. Contact Kerry Livengood (email: Kerry.R.Livengood@tn.gov); (Fax: 615-837-5003) with your submissions.