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# FOREST RESOURCE REPORT

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Alabama Forestry Commission  
513 Madison Avenue | Montgomery | Alabama | 36104  
[www.forestry.alabama.gov](http://www.forestry.alabama.gov)

# 2021



# FORWARD

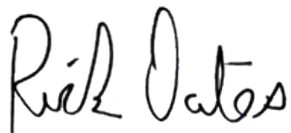
Presented here is the 2021 Forest Resource Report. The Alabama Forestry Commission has drawn data from many sources to present a picture of the current state of our timber resource. In these pages you will find that our citizens are caring for their land and sustainably producing wood in excess of current demand. While this trend presents challenges, it also presents opportunities for further growth in a wood products sector that has been a cornerstone of this state's economy for generations.

The Forest Inventory and Analysis (FIA) Program allows us a unique view of the dynamic resource that is the forest. By continuously measuring pre-established research plots located evenly across Alabama we are able to see which tree species are increasing, which are declining, which are being harvested at young ages, and which are being allowed to grow for a longer time. Because nearly all Alabama land is held by private entities, we work hard to secure access to all these points, which would be impossible without the permission and support of the landowners themselves. The Alabama Forestry Commission (AFC) conducts the FIA survey in the state, and has done so since the year 1998, when it took over data collection from the USDA Forest Service. This is just one of the many services provided by the AFC that may not come to mind when you think about us, but it is a valuable service.

Forests and the forest products industry impact every one of Alabama's 67 counties. Forest industry, including logging and trucking, provides much needed employment and growth opportunities to the rural parts of this state, along with economic returns to landowners who hold timberland. It is critical that we be able to show the sustainability of timber harvest so that industries considering expansions can be confident the underlying resource will be here to support that capital investment, and new industries looking to locate for the first time can see where the best resource opportunities can be found.

This report represents a concerted effort by many in this agency to provide a well-thought-out, easy-to-read document that serves a variety of purposes. It is a product that we take pride in producing each and every year.

Sincerely,



Rick Oates, State Forester



*Rick Oates,  
State Forester*

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# FOREST RESOURCE REPORT 2021

By the Alabama Forestry Commission (AFC)

This report contains several economic status indicators of the forest resources and forest industry in Alabama for 2021. Included in this report are the following indicators:

- 2021 Timberland Acreage by Forest Type and AFC Region
- 2021 Timberland Acreage by Forest Stand Size and AFC Region
- 2021 Timber Volume by Species and AFC Region
- 2021 Average Annual Net Timber Growth by Major Species Group and AFC Region
- 2021 Average Annual Timber Harvest Removals by Major Species Groups and AFC Regions
- 2021 Timber Harvests Volume by County
- 2021 Timber Price Trends
- 2021 Forest Products Investments in New and Expanding Businesses / Industry Overview

# ALABAMA'S FOREST RESOURCE

## Timberland Acreage

- Alabama timberland covers 23.0 million acres, the third largest commercial forestland in the nation. If you include 'reserved' timber, such as National Wildlife Refuges and defined Wilderness Areas, Alabama forestland covers 23.1 million acres.
- Approximately 93.2% of Alabama's timberland is privately-owned and 6.8% of timberland is publicly owned. Forest industries (companies that own a wood-processing plant) own approximately 6.6% of Alabama's timberland while 86.6% is owned by the non-industrial private sector. During the 1972 FIA survey, it was reported that forest industry owned 19.7% of the timberland acres. Last year, there was an error in how the Forest Service reported the ownership data to the data users. The error was identified and corrected. There was no major change in ownership patterns occurring over the past year.
- Alabama forests are comprised of 47% softwood stands (mostly pine), 41% hardwood stands, and 12% mixed hardwood/pine stands. Values are trending toward increased softwood acreage.

## TIMBERLAND ACRES BY FOREST TYPE – NORTHWEST REGION

County	Total	Softwoods	Hardwood/ Pine	Hardwoods
		<i>Acres</i>		
Bibb	314,270	153,088	60,457	100,726
Colbert	221,082	36,406	19,835	164,840
Fayette	339,097	188,975	19,947	130,175
Franklin	299,102	92,935	23,648	182,519
Greene	347,069	141,624	30,285	175,160
Hale	288,919	114,308	43,178	131,434
Lamar	338,741	139,878	31,973	166,890
Lauderdale	180,607	29,226	3,439	147,941
Lawrence	203,716	47,972	43,144	112,600
Limestone	92,469	9,795	0	82,675
Marion	365,103	190,597	51,788	122,718
Morgan	189,493	23,373	31,663	134,457
Pickens	476,502	265,567	42,611	168,325
Sumter	450,251	235,771	34,128	180,352
Tuscaloosa	692,527	302,508	93,429	296,590
Walker	393,579	187,218	46,465	159,896
Winston	307,496	121,405	46,694	139,397
<b>Total</b>	<b>5,500,023</b>	<b>2,280,646</b>	<b>622,684</b>	<b>2,596,695</b>

## TIMBERLAND ACRES BY FOREST TYPE – NORTHEAST REGION

County	Total	Softwoods	Hardwood/ Pine	Hardwoods
		<i>Acres</i>		
Blount	235,841	114,122	34,861	86,859
Calhoun	194,743	74,240	32,710	87,794
Chambers	310,413	199,910	18,221	92,281
Cherokee	249,449	92,173	52,709	104,567
Clay	297,034	106,596	35,424	155,014
Cleburne	252,153	103,811	36,618	111,725
Coosa	375,694	210,235	35,671	129,788
Cullman	235,888	73,182	32,245	130,461
DeKalb	179,386	64,442	15,047	99,897
Elmore	237,433	103,091	38,536	95,805
Etowah	195,323	56,716	40,875	97,732
Jackson	449,466	29,532	37,690	382,244
Jefferson	384,181	180,549	53,055	150,576
Madison	201,582	33,222	22,036	146,323
Marshall	154,182	23,784	12,540	117,858
Randolph	286,634	138,554	46,989	101,091
St. Clair	311,927	104,544	58,589	148,795
Shelby	337,077	166,437	41,173	129,468
Talladega	306,423	143,133	60,797	102,493
Tallapoosa	392,050	196,046	59,273	136,729
<b>Total</b>	<b>5,586,879</b>	<b>2,214,319</b>	<b>765,059</b>	<b>2,607,500</b>

## TIMBERLAND ACRES BY FOREST TYPE – SOUTHEAST REGION

County	Total	Softwoods	Hardwood/ Pine	Hardwoods
		<i>Acres</i>		
Autauga	305,154	157,336	30,854	116,963
Barbour	436,489	226,965	50,269	159,255
Bullock	327,599	180,357	26,920	120,321
Butler	405,852	228,491	53,829	123,533
Chilton	336,224	151,303	72,668	112,254
Coffee	240,895	110,080	18,030	112,785
Covington	492,129	301,171	72,560	118,397
Crenshaw	318,258	142,585	45,494	130,180
Dale	265,966	87,136	48,761	130,069
Geneva	197,131	78,098	29,573	89,460
Henry	269,583	125,495	41,246	102,842
Houston	175,281	64,208	23,813	87,260
Lee	248,016	142,168	24,450	81,398
Lowndes	312,236	161,621	19,547	131,068
Macon	330,209	150,667	28,707	150,835
Montgomery	256,119	51,901	32,576	171,643
Pike	308,080	135,629	25,874	146,576
Russell	312,475	172,090	21,700	118,686
<b>Total</b>	<b>5,537,696</b>	<b>2,667,301</b>	<b>666,871</b>	<b>2,203,525</b>

## TIMBERLAND ACRES BY FOREST TYPE – SOUTHWEST REGION

County	Total	Softwoods	Hardwood/ Pine	Hardwoods
		<i>Acres</i>		
Baldwin	725,670	407,627	86,517	231,525
Choctaw	525,084	300,252	64,401	160,431
Clarke	735,677	413,240	114,265	208,171
Conecuh	448,477	256,490	67,075	124,913
Dallas	431,670	198,637	30,775	202,258
Escambia	472,335	327,866	28,276	116,193
Marengo	478,429	229,796	43,467	205,167
Mobile	490,687	239,819	44,489	206,379
Monroe	573,711	354,026	58,526	161,160
Perry	345,455	210,144	28,272	107,040
Washington	626,149	365,207	80,455	180,487
Wilcox	505,757	248,683	68,233	188,840
<b>Total</b>	<b>6,359,101</b>	<b>3,551,787</b>	<b>714,751</b>	<b>2,092,564</b>

### NOTES:

Statistics are derived from 2021 Forest Inventory and Analysis (FIA) data.

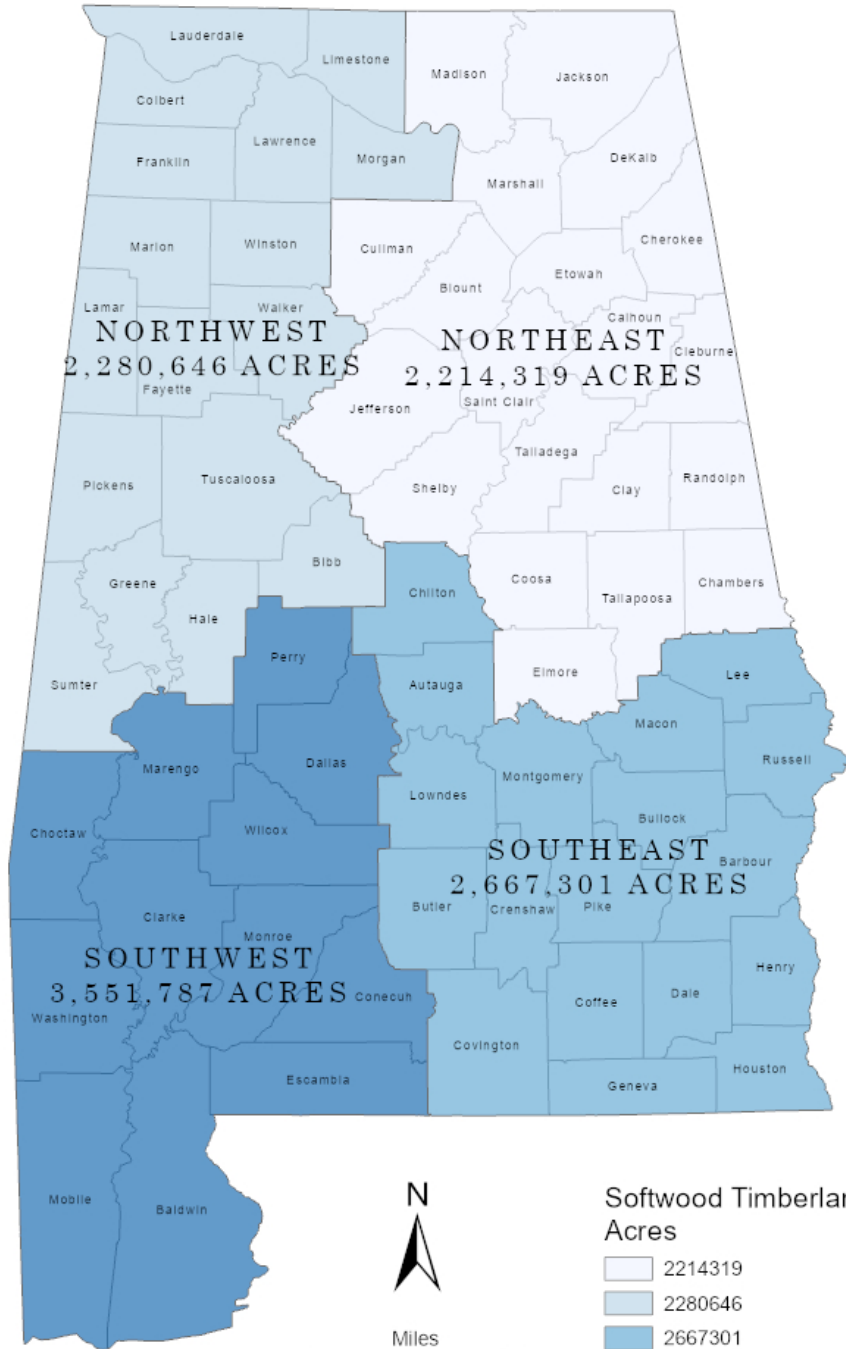
A very small portion of timberland acreage is classified as ‘non-stocked’ by FIA guidelines. The non-stocked acres have been included in the ‘hardwood/pine’ category.

A tract of timberland is classified as ‘non-stocked’ if at the time the FIA plot was inventoried there was less than 10% stocking of trees. This situation occurs on sites that have recently been clearcut.

Numbers in rows and columns may not sum due to rounding.

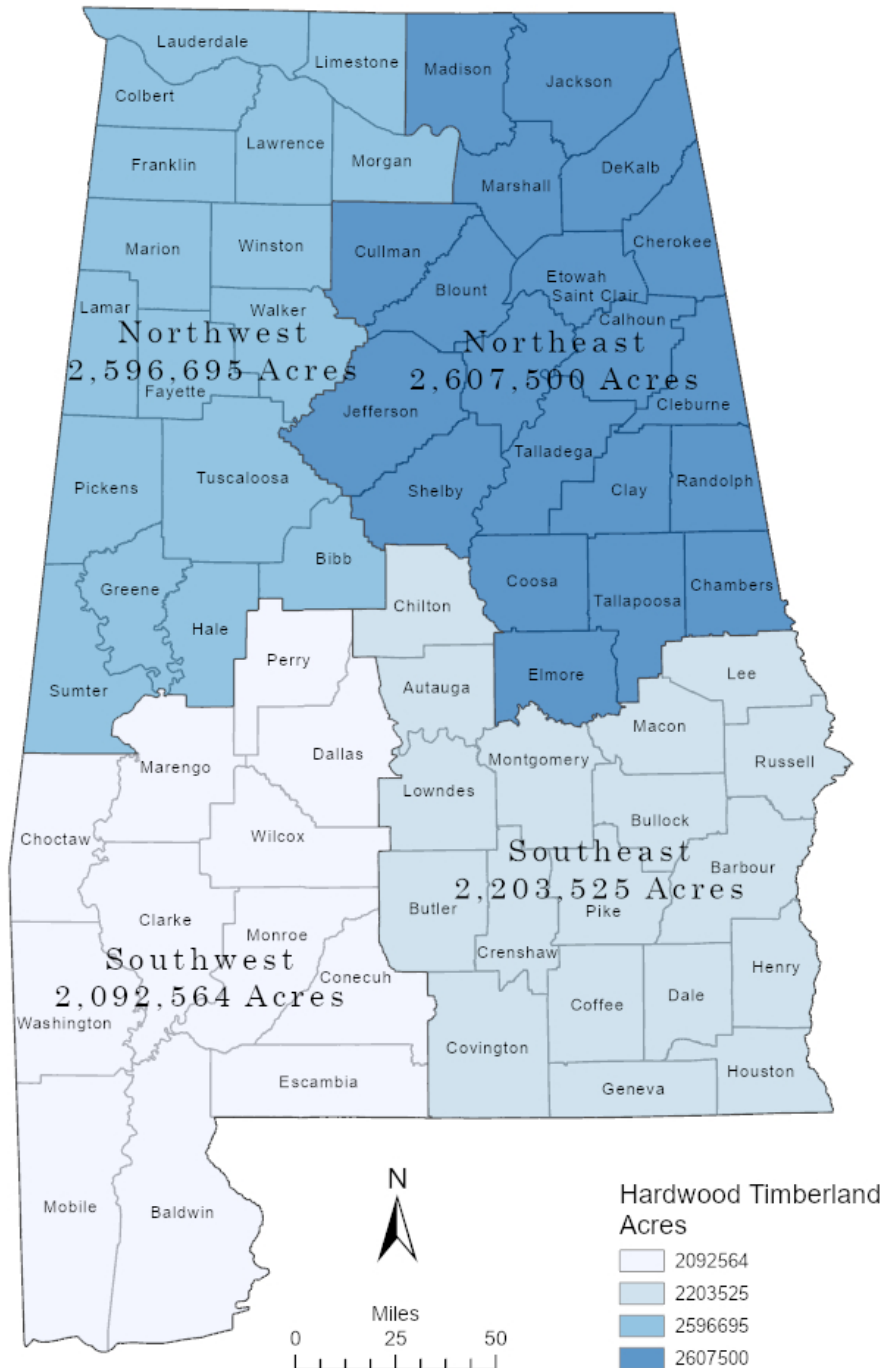
**\*Note: FIA data is statistically valid at the state and regional level. Individual county statistics are provided so that any combination of counties can be added together until the totals are large enough to meet the desired degree of reliability.**

# Softwood Timberland Acres

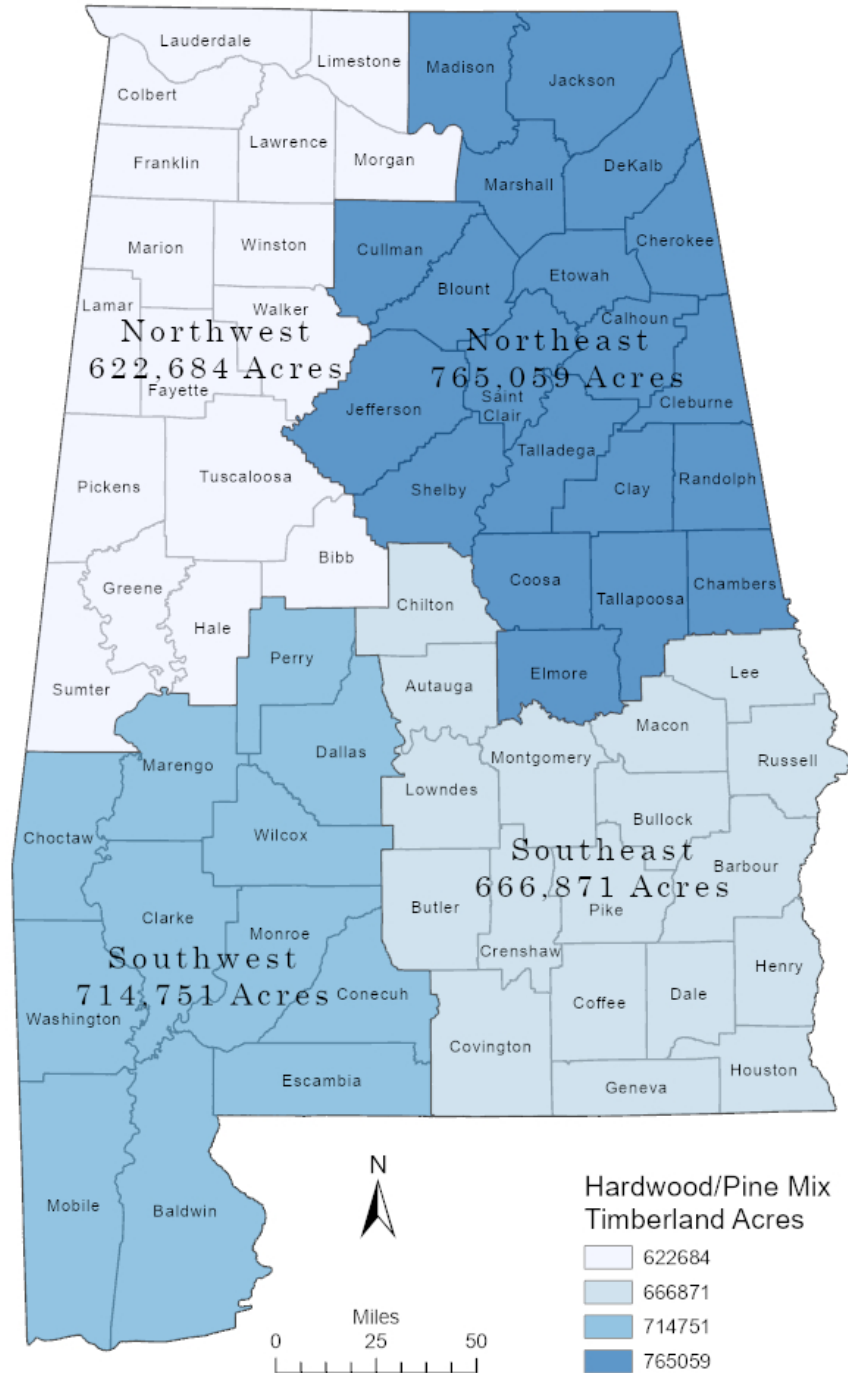




# Hardwood Timberland Acres



# Hardwood/Pine Mix Timberland Acres



- Sawtimber-sized stands comprise 53% of Alabama’s timberland, while 27% of forest stands are comprised of mostly pulpwood-sized timber. Seedling/sapling-sized stands account for the remaining 20% of timberland acreage. Compared to 2020, these numbers are not showing much change.

### **TIMBERLAND ACRES BY FOREST STAND SIZE – NORTHWEST REGION**

<b>County</b>	<b>Total</b>	<b>Sawtimber</b>	<b>Pulpwood</b>	<b>Seedling/Sapling</b>
		<i>Acres</i>		
Bibb	314,270	186,964	95,042	32,264
Colbert	221,082	104,686	83,894	32,502
Fayette	339,097	129,219	126,027	83,851
Franklin	299,102	121,157	100,498	77,447
Greene	347,069	188,945	89,668	68,455
Hale	288,919	166,200	67,318	55,402
Lamar	338,741	138,569	97,242	102,931
Lauderdale	180,607	111,422	54,570	14,614
Lawrence	203,716	129,115	59,731	14,870
Limestone	92,469	55,952	29,082	7,435
Marion	365,103	158,411	95,219	111,473
Morgan	189,493	122,807	46,627	20,058
Pickens	476,502	267,921	114,742	93,839
Sumter	450,251	241,241	107,793	101,218
Tuscaloosa	692,527	358,960	173,006	160,562
Walker	393,579	227,615	110,217	55,747
Winston	307,496	163,639	89,726	54,131
<b>Total</b>	<b>5,500,023</b>	<b>2,872,823</b>	<b>1,540,402</b>	<b>1,086,799</b>

## TIMBERLAND ACRES BY FOREST STAND SIZE – NORTHEAST REGION

County	Total	Sawtimber	Pulpwood	Seedling/Sapling
		<i>Acres</i>		
Blount	235,841	131,375	44,630	59,836
Calhoun	194,743	123,341	34,574	36,828
Chambers	310,413	159,493	89,758	61,161
Cherokee	249,449	136,680	70,542	42,227
Clay	297,034	166,495	88,572	41,968
Cleburne	252,153	179,929	27,480	44,745
Coosa	375,694	182,310	117,995	75,389
Cullman	235,888	131,387	72,178	32,324
DeKalb	179,386	126,725	26,661	26,000
Elmore	237,433	152,776	57,614	27,043
Etowah	195,323	86,158	52,665	56,499
Jackson	449,466	338,500	83,763	27,203
Jefferson	384,181	242,764	101,393	40,023
Madison	201,582	153,290	43,226	5,066
Marshall	154,182	96,634	26,994	30,555
Randolph	286,634	139,079	95,241	52,313
St. Clair	311,927	194,109	69,103	48,715
Shelby	337,077	185,879	92,785	58,413
Talladega	306,423	167,912	77,548	60,963
Tallapoosa	392,050	218,270	96,242	77,538
<b>Total</b>	<b>5,586,879</b>	<b>3,313,106</b>	<b>1,368,964</b>	<b>904,809</b>

## TIMBERLAND ACRES BY FOREST STAND SIZE – SOUTHEAST REGION

County	Total	Sawtimber	Pulpwood	Seedling/Sapling
		<i>Acres</i>		
Autauga	305,154	129,468	102,533	73,153
Barbour	436,489	225,824	107,832	102,832
Bullock	327,599	197,932	78,666	51,002
Butler	405,852	227,939	84,294	93,619
Chilton	336,224	183,157	97,970	55,099
Coffee	240,895	107,695	80,342	52,858
Covington	492,129	225,064	147,303	119,761
Crenshaw	318,258	163,447	58,645	96,166
Dale	265,966	156,196	61,533	48,237
Geneva	197,131	122,490	39,880	34,762
Henry	269,583	127,121	87,739	54,724
Houston	175,281	98,836	34,083	42,361
Lee	248,016	131,876	66,994	49,146
Lowndes	312,236	194,148	58,744	59,343
Macon	330,209	194,542	89,642	46,025
Montgomery	256,119	165,123	55,204	35,792
Pike	308,080	173,094	97,814	37,172
Russell	312,475	158,843	70,588	83,046
<b>Total</b>	<b>5,537,696</b>	<b>2,982,795</b>	<b>1,419,806</b>	<b>1,135,098</b>

## TIMBERLAND ACRES BY FOREST STAND SIZE – SOUTHWEST REGION

County	Total	Sawtimber	Pulpwood	Seedling/Sapling
		<i>Acres</i>		
Baldwin	725,670	388,978	200,293	136,399
Choctaw	525,084	237,979	152,403	134,703
Clarke	735,677	370,414	207,540	157,724
Conecuh	448,477	203,905	134,999	109,573
Dallas	431,670	211,487	134,961	85,221
Escambia	472,335	159,107	167,063	146,165
Marengo	478,429	229,179	134,157	115,094
Mobile	490,687	220,398	93,828	176,462
Monroe	573,711	257,063	202,862	113,785
Perry	345,455	188,309	101,240	55,906
Washington	626,149	337,323	136,562	152,264
Wilcox	505,757	255,609	138,822	111,326
<b>Total</b>	<b>6,359,101</b>	<b>3,059,751</b>	<b>1,804,730</b>	<b>1,494,622</b>

### NOTES:

Statistics come from 2021 Forest Inventory & Analysis (FIA) data.

‘Sawtimber’ refers to stands in which the majority of the crown cover consists of trees 9.0” DBH and greater for softwood forest types and 11.0” DBH and greater for hardwood forest types.

\*\*See the exception listed below in the ‘Seedling/Sapling’ definition.\*\*

‘Pulpwood’ refers to stands in which the majority of the crown cover consists of trees between 5.0” and 8.9” DBH for softwood forest types and between 5.0” and 10.9” DBH for hardwood forest types.

\*\*See the exception listed below in the ‘Seedling/Sapling’ definition.\*\*

‘Seedling/Sapling’ refers to stands in which two-thirds of the crown cover consists of trees less than 5.0” DBH.

**\*\*NOTE: In a stand where seedlings/saplings make up over 50% of the crown cover but less than 67%, stand size is determined by the predominance of either pulpwood-sized trees or sawtimber-sized trees. EXAMPLE: In a two-storied pine shelterwood stand comprised of sawtimber and pulpwood-sized trees in the upper story (90% sawtimber-sized and 10% pulpwood-sized) and seedlings and saplings in the lower story, in which the lower story comprises 60% of the crown cover and the upper story comprises 40% of the crown cover, the stand size would be considered ‘sawtimber.’**

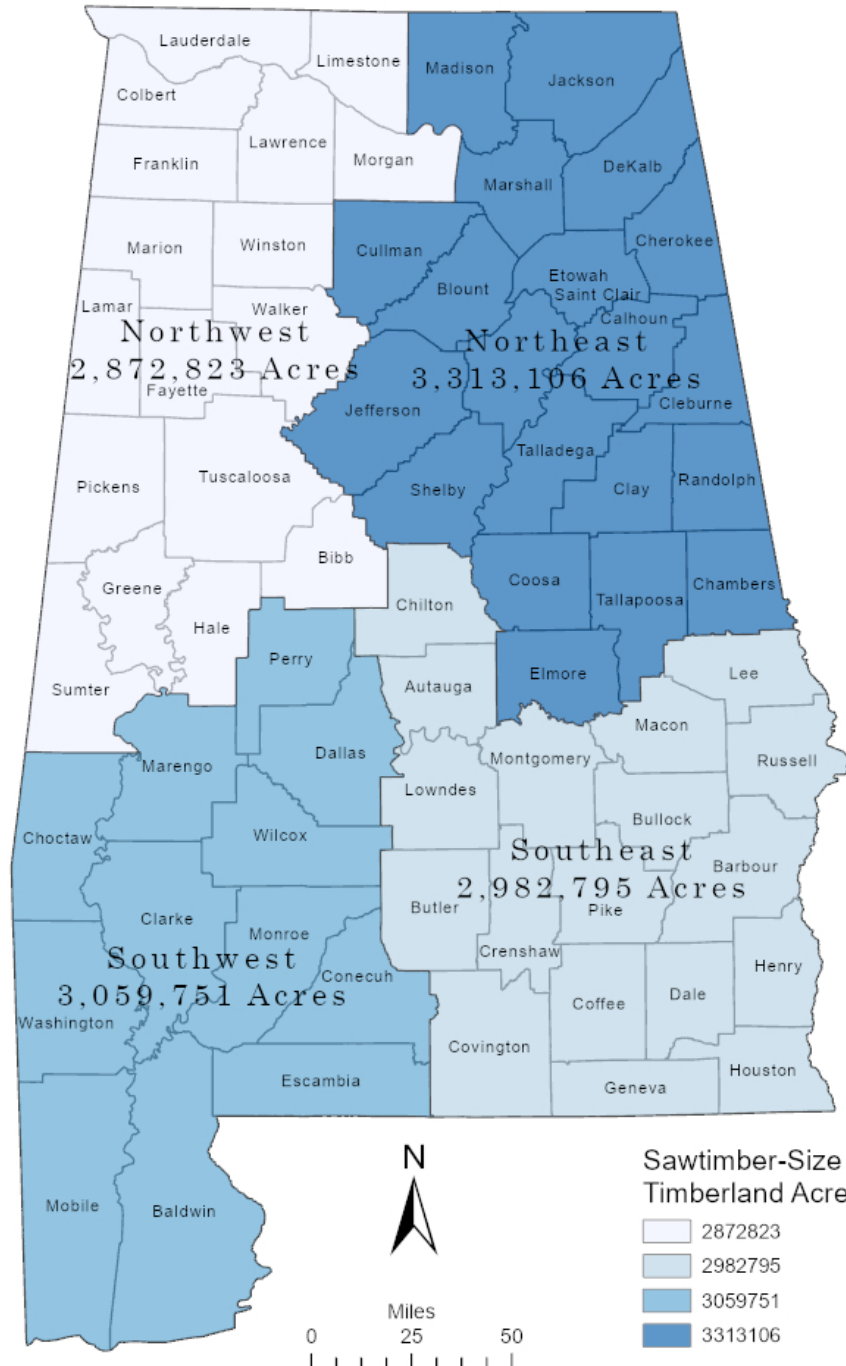
A very small portion of timberland acreage is classified as ‘non-stocked’ by FIA guidelines. The non-stocked acres have been included in the ‘seedling/sapling’ category.

A tract of timberland is classified as ‘non-stocked’ if at the time the FIA plot was inventoried there was less than 10% stocking of trees. This situation occurs on sites that have recently been clearcut.

Numbers in rows and columns may not sum due to rounding.

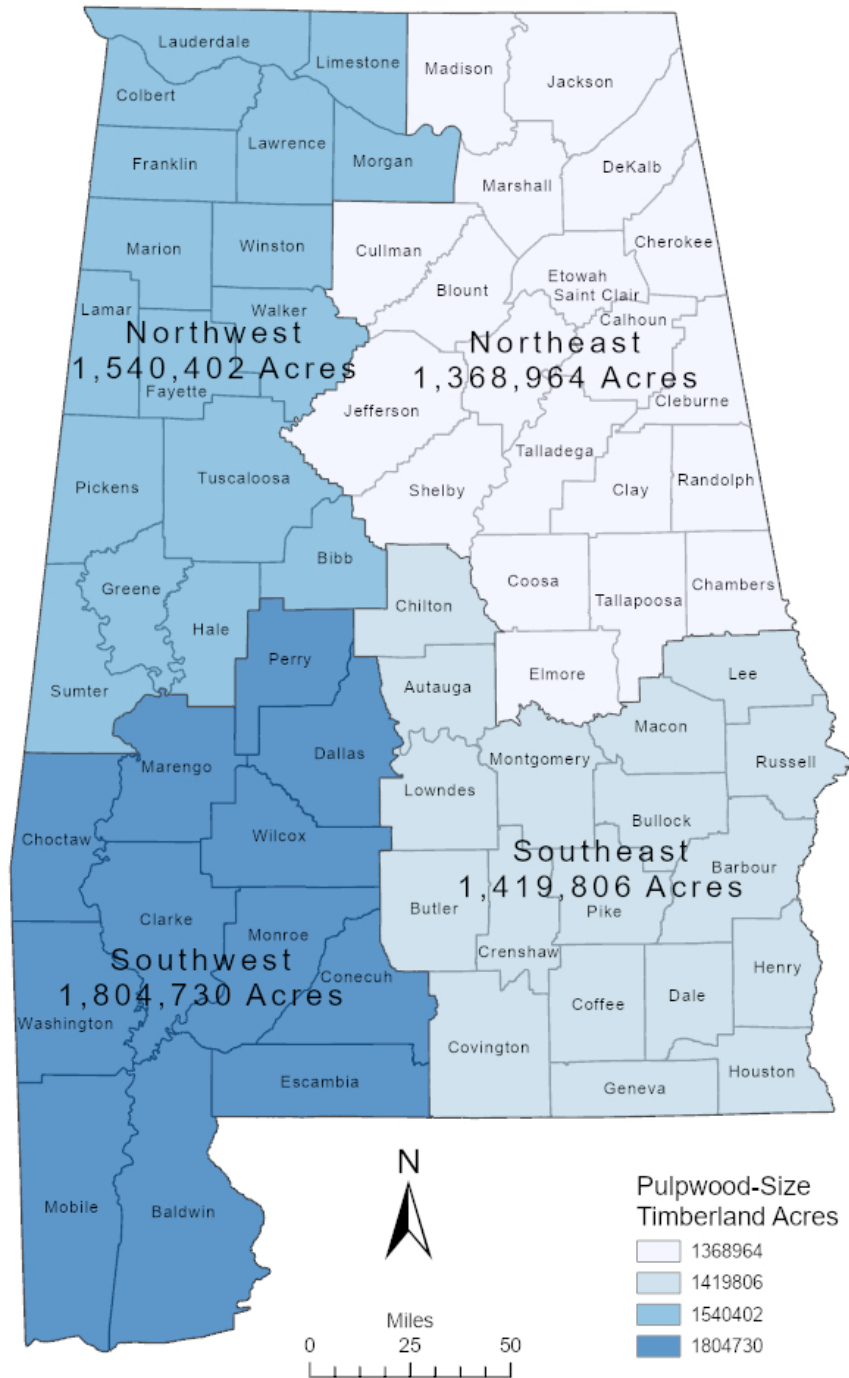


# Sawtimber-Size Timberland Acres

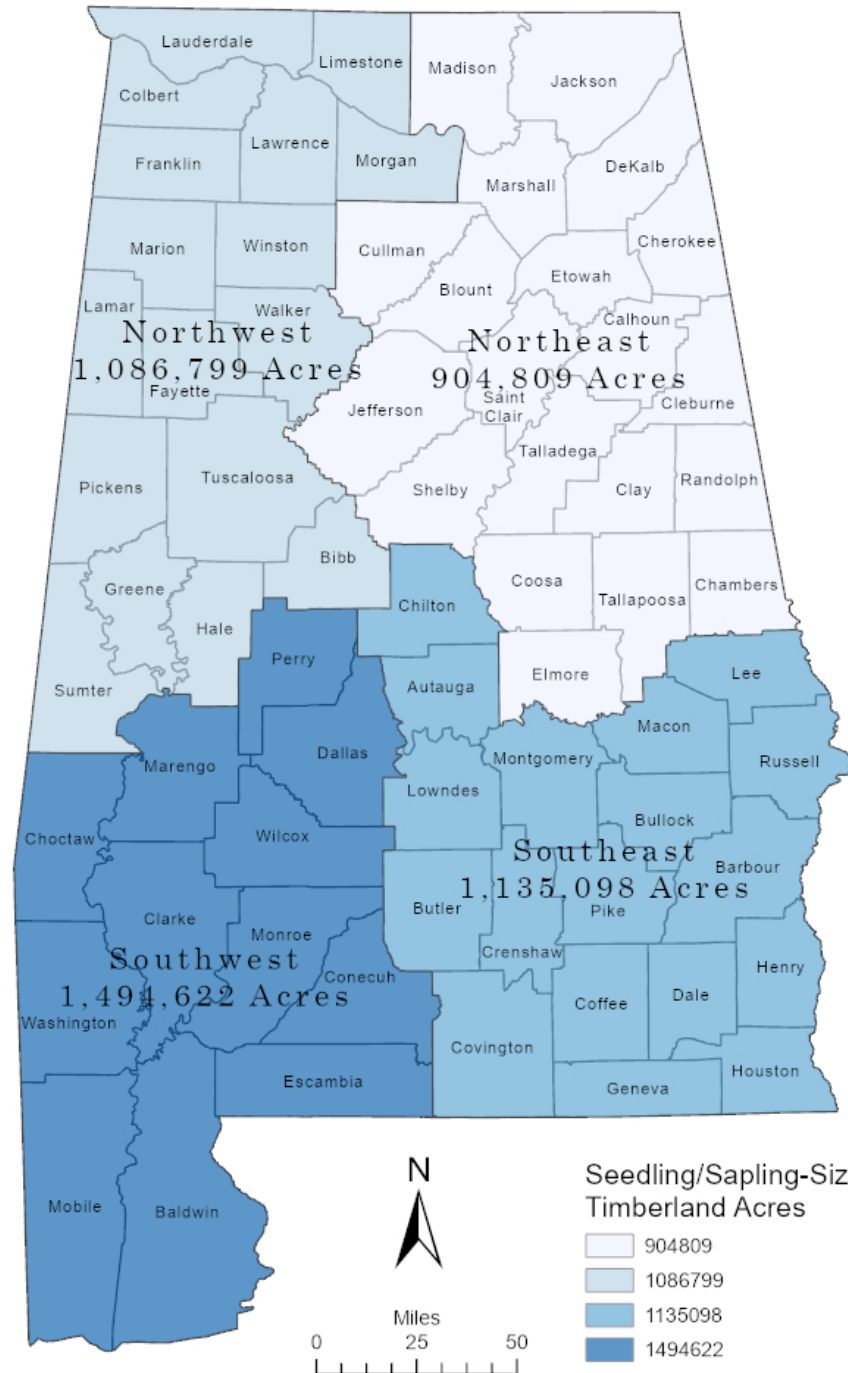




# Pulpwood-Size Timberland Acres



# Seedling/Sapling-Size Timberland Acres



## Timber Volume

- There are an estimated 727.0 million tons of softwood growing stock volume and 607.9 million tons of hardwood growing stock volume in Alabama. This equals 1.3349 billion tons combined. This total is up 1.3% over 2020.
- **Alabama leads the nation in loblolly pine growing stock volume with 599.6 million tons.**
- Since 2001 total growing stock volume has increased 35.7%; softwood volume has increased 64.5% and hardwood volume has increased by 12.2%.
- Using the four-region format, the Northeast Region contains the highest total timber volume.
- The Southwest Region maintains the greatest volume of loblolly pine, although that species is nearly evenly distributed through all the regions.
- White Oak and Red Oak volume is very similar in the northern half of the state, but red oaks are the predominant oak type in the southern half.
- FIA data retrievals give volumes in cubic feet. To convert to tons for this report, ratios of 28.6 cubic feet softwood per ton, and 26.3 cubic feet hardwood per ton, were used. This is consistent with the conversions used in all previous *Alabama Forest Resource Reports*.

**NOTES:** The following charts provide growing stock volume for prominent species (not all species) found in Alabama. ‘Growing stock’ refers to high-quality trees capable of producing lumber, veneer, poles, or ties/timbers (currently or in the future) based on FIA specifications. ‘Red Oak’ includes all species listed in the red oak group and ‘White Oak’ includes all species listed in the white oak group.

### GROWING STOCK VOLUME BY SPECIES – NORTHWEST REGION

County	Loblolly Pine	Red Oak	White Oak	Sweetgum	Yellow-poplar
<i>Tons</i>					
Bibb	9,114,506	3,371,020	1,861,519	1,222,363	986,393
Colbert	3,586,043	1,384,514	3,633,745	1,283,334	1,194,561
Fayette	11,035,121	1,061,201	1,191,819	1,515,336	2,256,094
Franklin	5,881,326	1,884,051	3,099,899	1,078,774	1,998,658
Greene	7,571,428	3,528,293	1,775,298	2,077,600	841,553
Hale	5,775,108	2,559,491	1,072,991	1,900,444	671,910
Lamar	8,265,162	2,073,036	1,098,996	1,742,824	425,389
Lauderdale	1,332,418	2,144,885	2,257,566	1,311,807	773,649
Lawrence	3,701,456	1,952,362	3,335,802	955,099	399,030
Limestone	622,591	2,363,526	744,612	789,015	1,197,051
Marion	13,697,408	925,424	2,727,695	901,610	1,397,648
Morgan	3,307,779	2,425,067	2,514,418	2,746,933	1,809,332
Pickens	15,506,407	3,493,472	1,705,070	2,726,032	2,665,641
Sumter	12,172,124	4,790,998	1,340,470	1,676,516	508,870
Tuscaloosa	18,784,705	5,516,935	4,521,990	4,779,966	2,506,412
Walker	12,969,772	2,057,337	3,262,767	2,546,732	1,518,503
Winston	9,042,317	1,332,098	4,552,011	1,119,535	2,478,093
<b>Total</b>	<b>142,365,669</b>	<b>42,863,711</b>	<b>40,696,667</b>	<b>30,373,918</b>	<b>23,628,786</b>

## GROWING STOCK VOLUME BY SPECIES – NORTHEAST REGION

County	Loblolly Pine	Red Oak	White Oak	Sweetgum	Yellow-poplar
<i>Tons</i>					
Blount	6,055,687	2,042,530	2,152,746	1,023,841	782,106
Calhoun	4,365,546	1,716,373	2,119,417	1,802,703	205,012
Chambers	13,658,880	1,256,944	1,080,532	1,373,649	1,581,247
Cherokee	6,832,270	1,822,994	3,167,094	1,022,461	66,405
Clay	7,957,112	2,231,824	2,384,616	1,192,023	1,394,855
Cleburne	8,406,971	1,688,562	3,072,999	998,667	1,787,777
Coosa	11,986,605	2,132,934	1,245,555	1,026,884	1,515,543
Cullman	5,211,884	1,293,692	2,301,660	1,283,464	2,990,926
DeKalb	1,962,060	1,818,215	2,199,322	785,738	1,086,755
Elmore	7,710,208	2,002,289	531,933	1,650,303	632,424
Etowah	3,222,854	966,287	1,471,457	841,755	1,368,183
Jackson	1,717,826	5,144,845	9,413,405	1,428,925	4,070,476
Jefferson	12,129,448	2,950,394	2,096,902	2,867,621	2,322,002
Madison	2,949,842	3,539,032	2,313,480	2,508,839	1,125,162
Marshall	1,472,070	1,195,218	1,817,296	890,340	855,798
Randolph	9,000,257	1,461,437	1,708,432	1,340,788	2,779,352
St. Clair	9,038,175	3,429,894	3,496,378	1,768,702	1,390,274
Shelby	11,677,045	3,170,680	2,602,412	1,390,603	639,017
Talladega	8,893,928	1,881,930	1,450,471	1,118,428	552,391
Tallapoosa	14,064,520	2,298,265	1,585,839	1,970,819	2,010,680
<b>Total</b>	<b>148,313,190</b>	<b>44,044,340</b>	<b>48,211,949</b>	<b>28,286,552</b>	<b>29,156,384</b>

## GROWING STOCK VOLUME BY SPECIES – SOUTHEAST REGION

County	Loblolly Pine	Red Oak	White Oak	Sweetgum	Yellow-poplar
<i>Tons</i>					
Autauga	7,887,414	1,547,308	716,005	957,212	1,061,623
Barbour	11,993,081	2,642,104	1,174,877	1,905,149	616,776
Bullock	10,067,764	2,603,982	230,566	1,086,514	835,708
Butler	15,436,920	1,580,308	362,069	1,122,096	1,234,550
Chilton	8,019,101	2,021,915	1,767,580	1,475,492	1,758,814
Coffee	6,083,161	2,254,805	275,417	287,773	683,657
Covington	13,093,281	2,655,663	189,725	598,225	1,364,822
Crenshaw	8,597,879	1,516,562	512,550	824,593	1,083,119
Dale	4,320,631	2,989,786	295,767	955,554	1,142,135
Geneva	3,913,577	1,765,098	338,557	402,276	896,528
Henry	6,205,534	1,757,368	154,986	599,447	444,880
Houston	2,996,808	860,883	135,653	273,029	810,423
Lee	8,325,656	1,407,506	423,034	1,851,312	1,169,136
Lowndes	10,754,812	2,116,271	507,281	1,001,337	161,355
Macon	7,850,853	2,791,018	1,332,389	1,950,951	732,948
Montgomery	4,685,078	3,592,369	751,587	1,956,461	381,578
Pike	9,383,510	2,533,358	783,883	1,003,966	1,356,975
Russell	7,182,084	2,767,025	516,359	960,770	821,152
<b>Total</b>	<b>146,797,143</b>	<b>39,403,330</b>	<b>10,468,285</b>	<b>19,212,157</b>	<b>16,556,178</b>

## GROWING STOCK VOLUME BY SPECIES – SOUTHWEST REGION

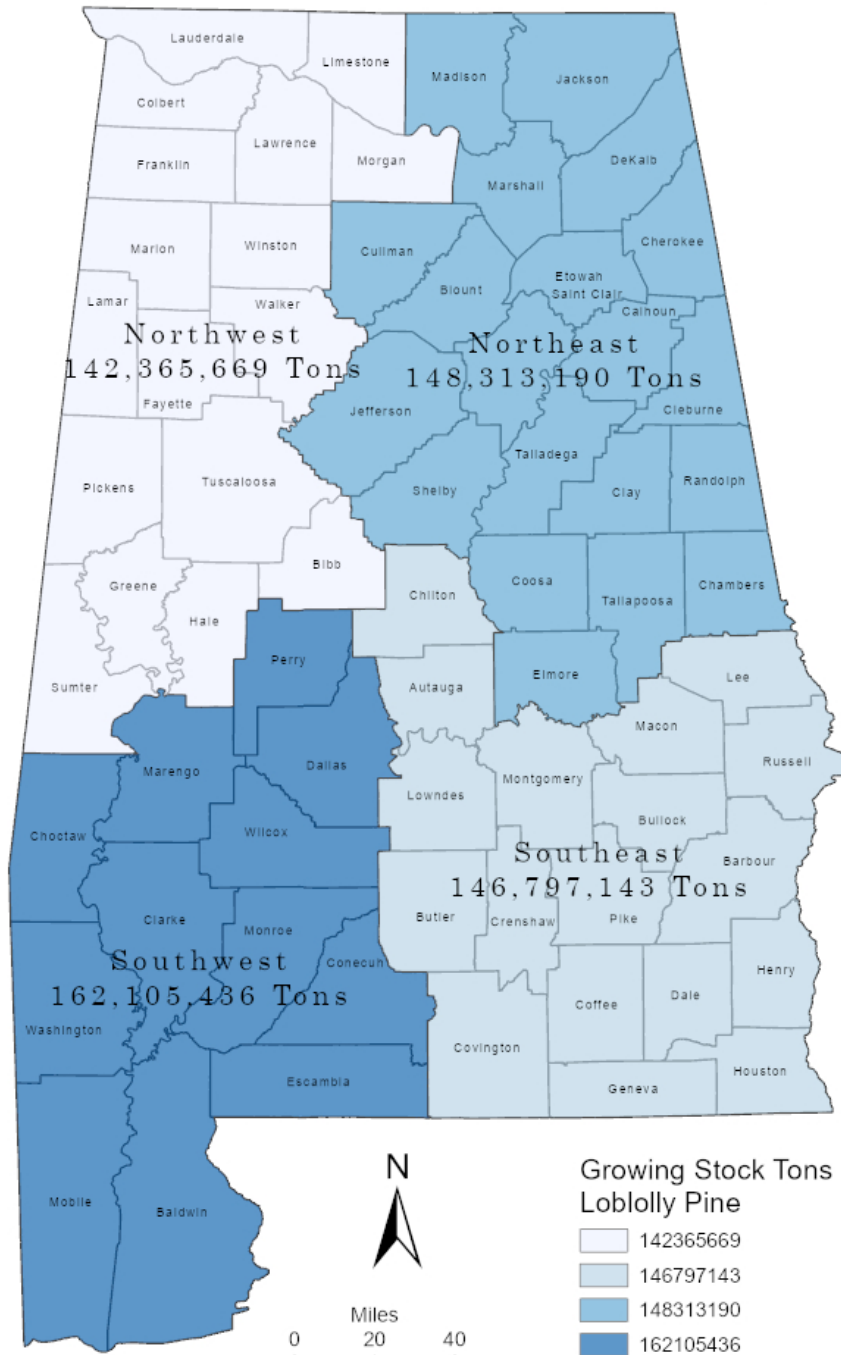
County	Loblolly Pine	Red Oak	White Oak	Sweetgum	Yellow-poplar
<i>Tons</i>					
Baldwin	9,836,599	3,554,436	346,022	353,843	1,061,381
Choctaw	18,292,155	2,174,487	1,256,354	3,785,938	1,244,596
Clarke	23,830,181	4,816,623	891,120	3,055,694	1,363,501
Conecuh	16,782,059	1,504,534	345,569	1,064,919	1,321,055
Dallas	9,768,800	3,774,937	986,238	2,459,444	712,545
Escambia	7,775,096	1,908,709	7,808	572,202	310,538
Marengo	15,570,008	4,015,516	479,626	2,867,496	1,359,698
Mobile	4,263,963	2,070,262	145,984	306,024	372,323
Monroe	17,319,655	2,426,637	1,325,035	2,666,058	338,642
Perry	11,536,320	2,528,924	461,284	1,504,951	1,135,005
Washington	14,135,206	4,053,894	679,196	1,319,044	1,545,692
Wilcox	12,995,396	3,773,258	1,117,825	2,341,088	741,465
<b>Total</b>	<b>162,105,436</b>	<b>36,602,218</b>	<b>8,042,060</b>	<b>22,296,702</b>	<b>11,506,441</b>

### NOTES:

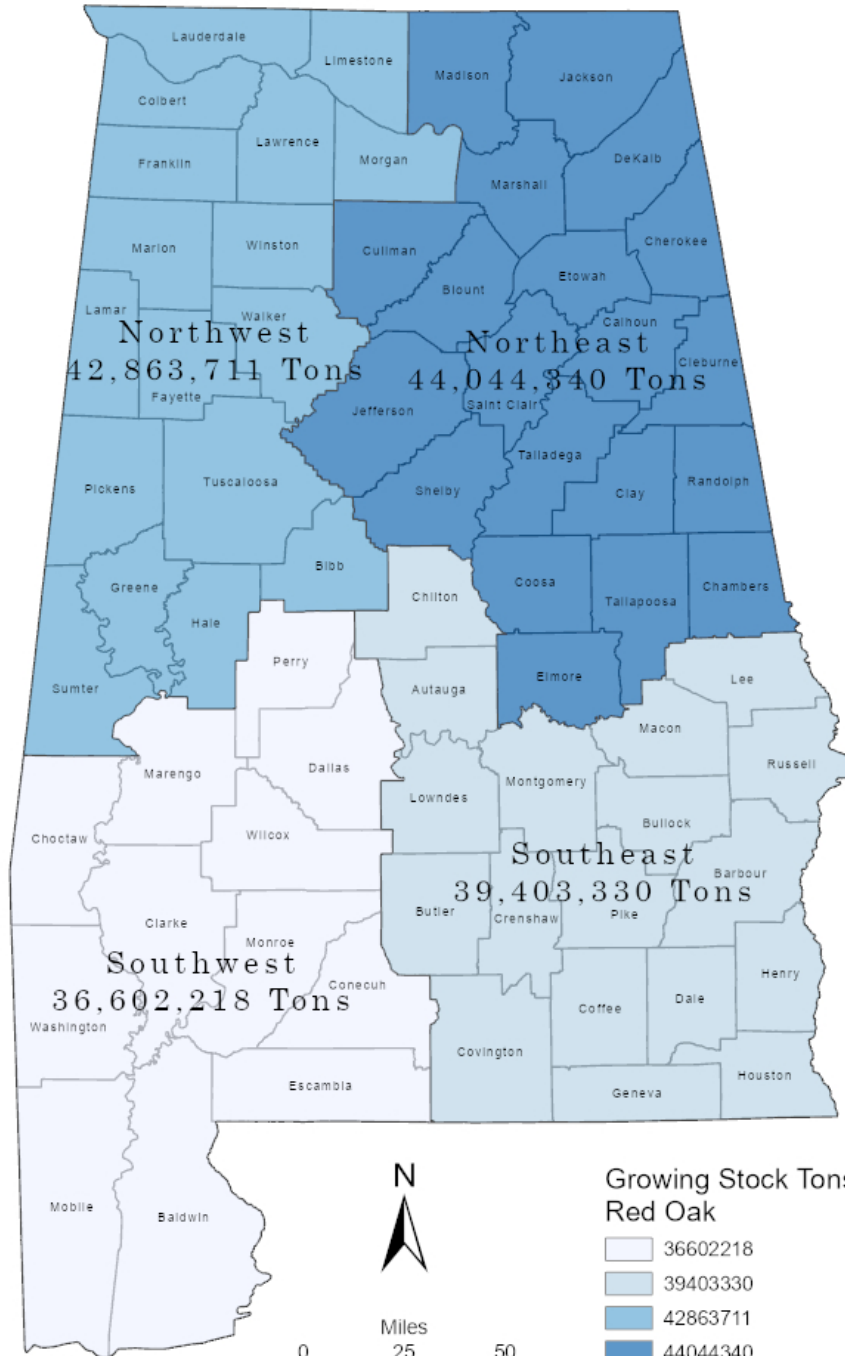
Statistics are derived from 2021 Forest Inventory & Analysis (FIA) data.

Numbers in rows and columns may not sum due to rounding.

# Growing Stock Tons Loblolly Pine



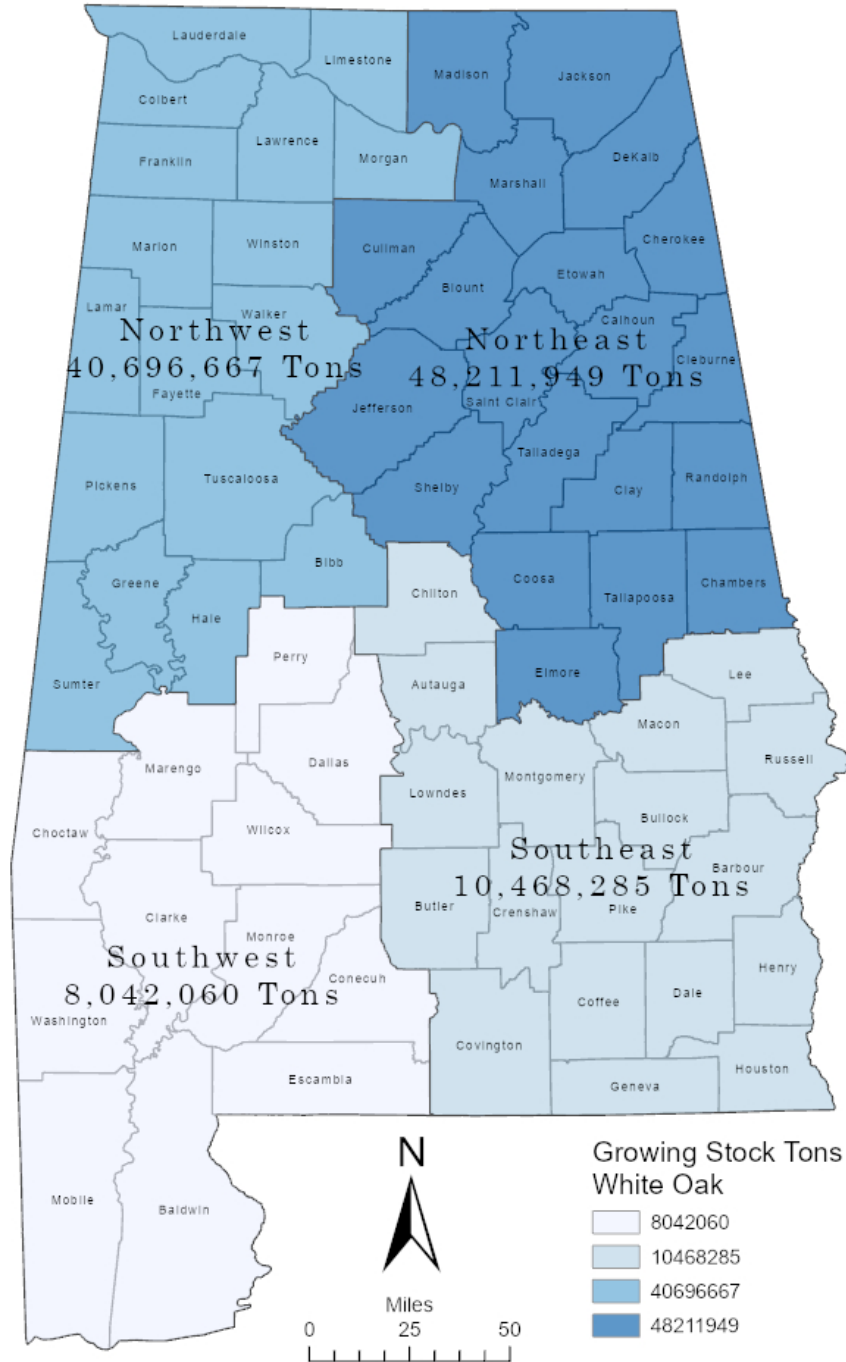
# Growing Stock Tons Red Oak



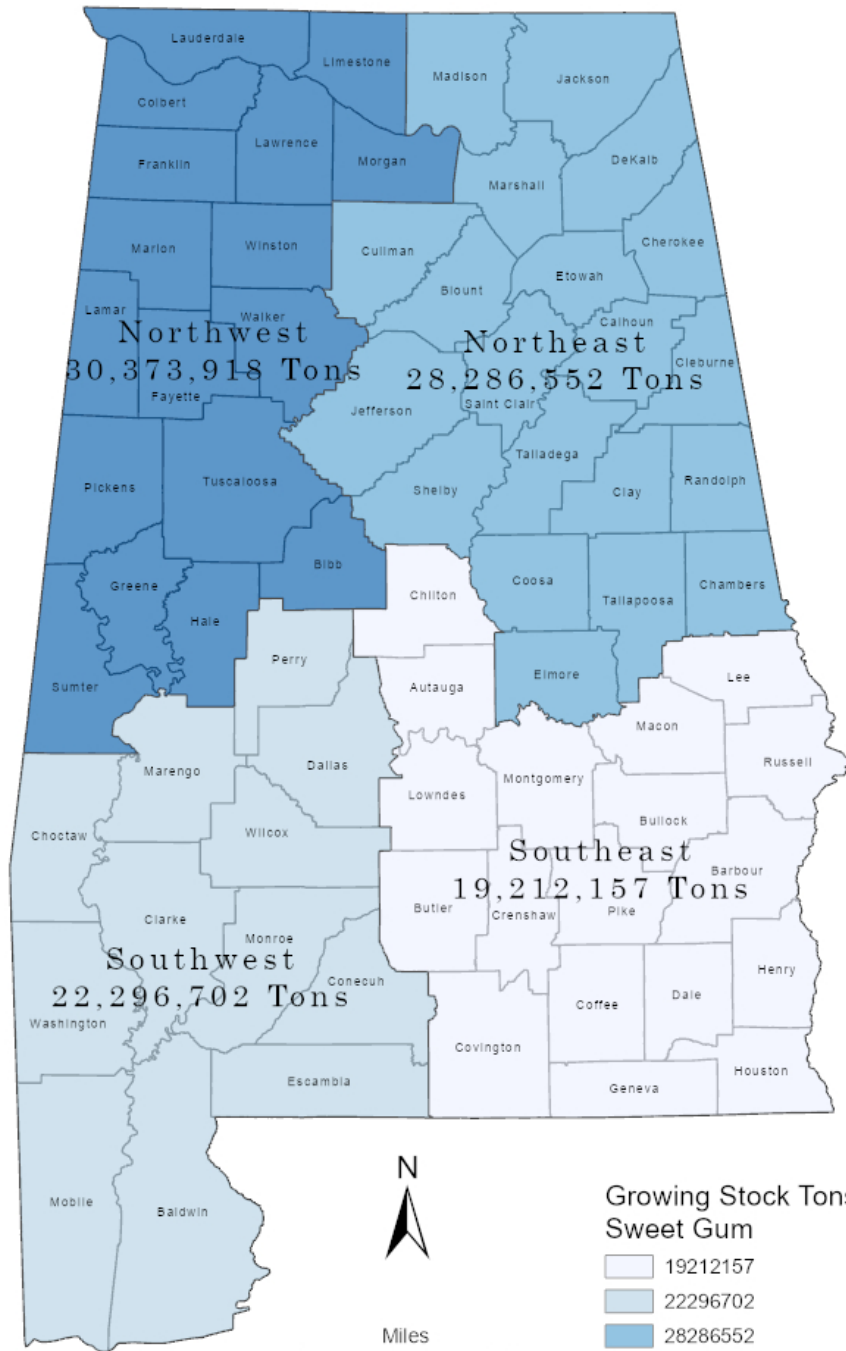
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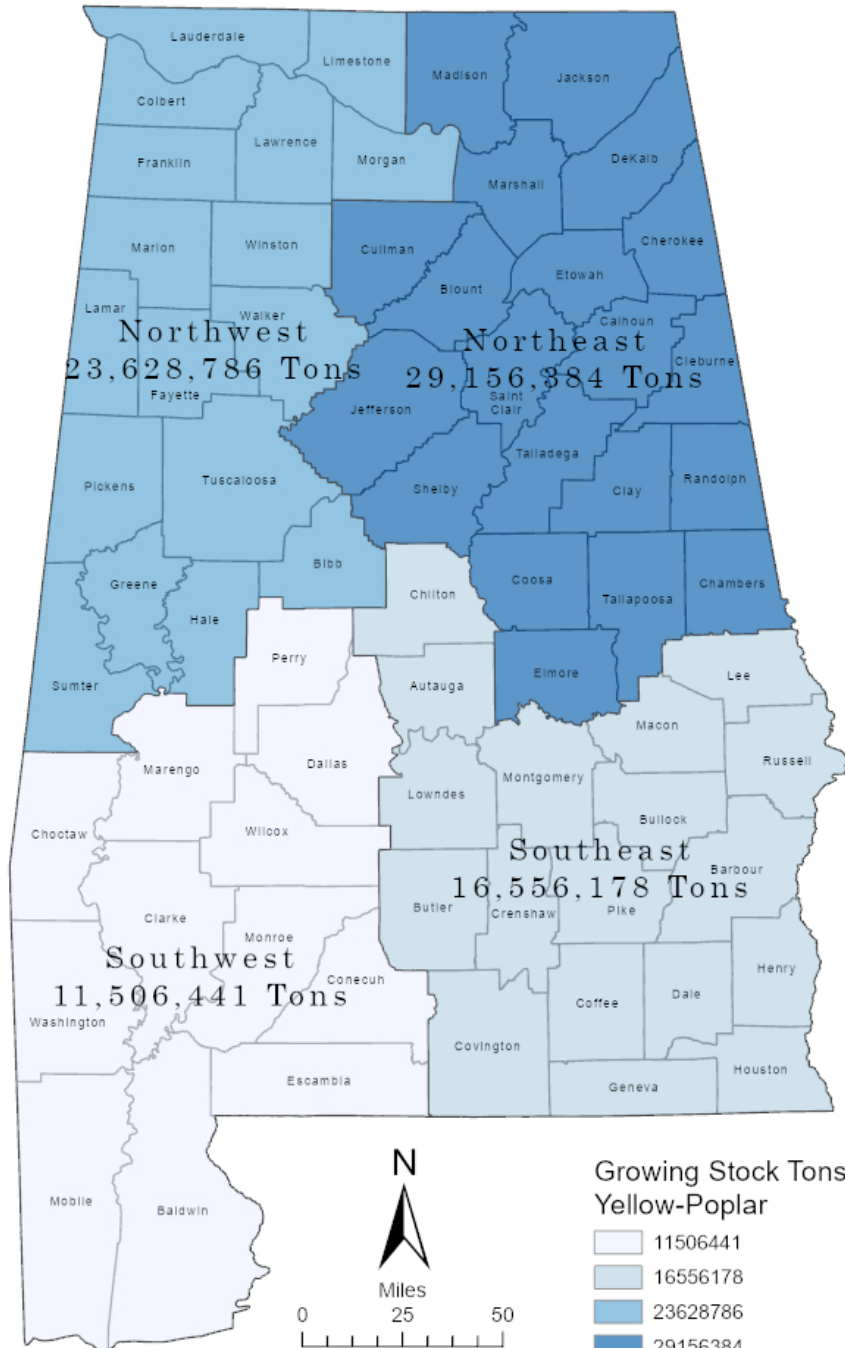
# Growing Stock Tons White Oak



# Growing Stock Tons Sweet Gum



# Growing Stock Tons Yellow-Poplar



## Timber Average Annual Net Growth (total growth minus mortality)

- Average annual net growth of growing stock trees for softwood species is 53.8 million tons and for hardwood species it is 19.9 million tons.
- The Southwest Region leads in both softwood net growth and total net growth. Although the northern regions had nearly identical softwood, hardwood, and total net growth of growing stock trees in the 2019 report, the Northwest Region separated itself in 2020 and 2021 through much higher reported growth in the softwood category.

### AVERAGE ANNUAL NET GROWTH OF GROWING STOCK BY MAJOR SPECIES GROUP

#### NORTHWEST REGION

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Bibb	869,813	601,458	268,355
Colbert	672,186	325,516	346,669
Fayette	1,511,028	1,138,395	372,634
Franklin	995,118	591,633	403,485
Greene	1,074,835	743,467	331,369
Hale	837,206	518,164	319,041
Lamar	1,285,633	864,959	420,674
Lauderdale	370,408	125,662	244,746
Lawrence	363,199	171,290	191,909
Limestone	391,180	54,588	336,592
Marion	1,637,575	1,279,165	358,410
Morgan	538,992	174,239	364,753
Pickens	1,815,231	1,385,451	429,780
Sumter	1,479,298	1,100,021	379,277
Tuscaloosa	2,102,841	1,460,069	642,772
Walker	1,397,294	1,007,787	389,507
Winston	1,170,753	757,341	413,412
<b>Total</b>	<b>18,512,591</b>	<b>12,299,205</b>	<b>6,213,386</b>

AVERAGE ANNUAL NET GROWTH OF GROWING STOCK  
BY MAJOR SPECIES GROUP

**NORTHEAST REGION**

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Blount	662,919	442,191	220,729
Calhoun	511,984	346,607	165,377
Chambers	1,530,888	1,272,087	258,801
Cherokee	775,456	530,460	244,997
Clay	787,799	525,280	262,520
Cleburne	755,453	500,574	254,879
Coosa	1,286,102	1,000,177	285,925
Cullman	671,554	357,661	313,894
DeKalb	388,305	187,495	200,809
Elmore	824,472	587,138	237,335
Etowah	466,868	326,958	139,910
Jackson	757,852	203,896	553,956
Jefferson	1,255,472	858,204	397,268
Madison	618,964	209,059	409,905
Marshall	120,801	84,005	36,797
Randolph	1,050,311	709,342	340,969
St. Clair	967,201	596,848	370,353
Shelby	1,141,566	951,182	190,384
Talladega	996,118	792,184	203,934
Tallapoosa	1,322,445	953,886	368,560
<b>Total</b>	<b>16,892,531</b>	<b>11,435,231</b>	<b>5,457,300</b>

AVERAGE ANNUAL NET GROWTH OF GROWING STOCK  
BY MAJOR SPECIES GROUP

**SOUTHEAST REGION**

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Autauga	948,900	737,983	210,917
Barbour	1,513,279	1,162,445	350,835
Bullock	1,134,463	838,963	295,500
Butler	1,755,986	1,467,233	288,753
Chilton	1,137,010	760,391	376,619
Coffee	775,525	578,705	196,820
Covington	1,523,303	1,287,230	236,073
Crenshaw	1,014,722	836,788	177,933
Dale	519,179	332,967	186,212
Geneva	509,346	319,147	190,199
Henry	899,154	716,091	183,063
Houston	315,490	259,477	56,013
Lee	834,937	629,410	205,527
Lowndes	1,173,778	863,802	309,976
Macon	877,687	571,833	305,853
Montgomery	732,466	436,267	296,199
Pike	1,022,241	695,020	327,222
Russell	855,910	671,671	184,239
<b>Total</b>	<b>17,543,376</b>	<b>13,165,422</b>	<b>4,377,954</b>

AVERAGE ANNUAL NET GROWTH OF GROWING STOCK  
BY MAJOR SPECIES GROUP

***SOUTHWEST REGION***

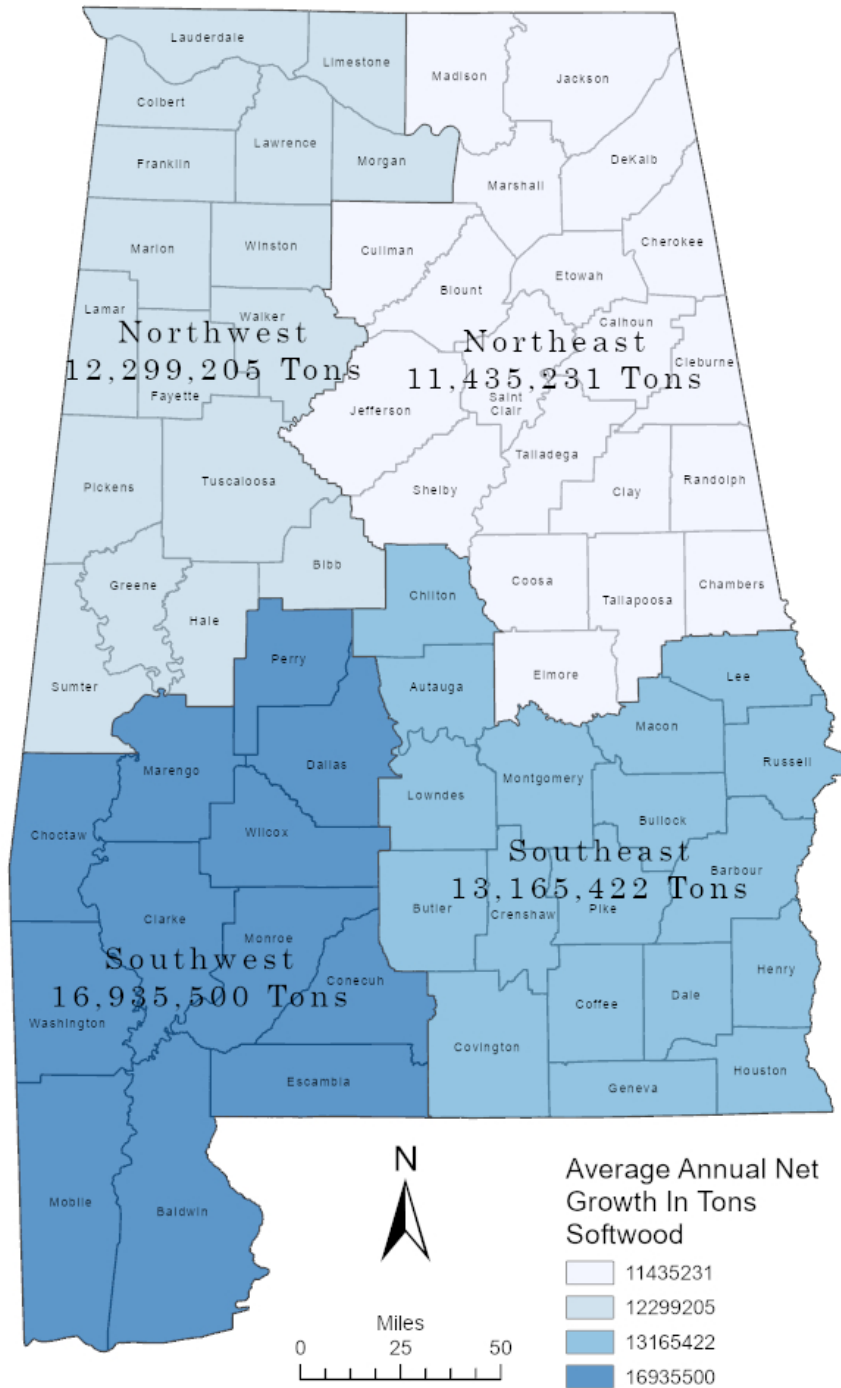
County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Baldwin	2,021,357	1,770,111	251,247
Choctaw	1,997,555	1,595,604	401,951
Clarke	2,685,800	2,197,472	488,327
Conecuh	1,854,749	1,617,164	237,584
Dallas	1,371,624	936,904	434,720
Escambia	1,498,306	1,419,082	79,223
Marengo	1,719,541	1,282,271	437,270
Mobile	861,926	692,834	169,093
Monroe	2,053,593	1,604,148	449,445
Perry	1,238,481	960,752	277,729
Washington	1,991,374	1,639,234	352,140
Wilcox	1,522,451	1,219,923	302,528
<b>Total</b>	<b>20,816,758</b>	<b>16,935,500</b>	<b>3,881,258</b>

**NOTES:**

Statistics are derived from 2021 Forest Inventory & Analysis (FIA) data.

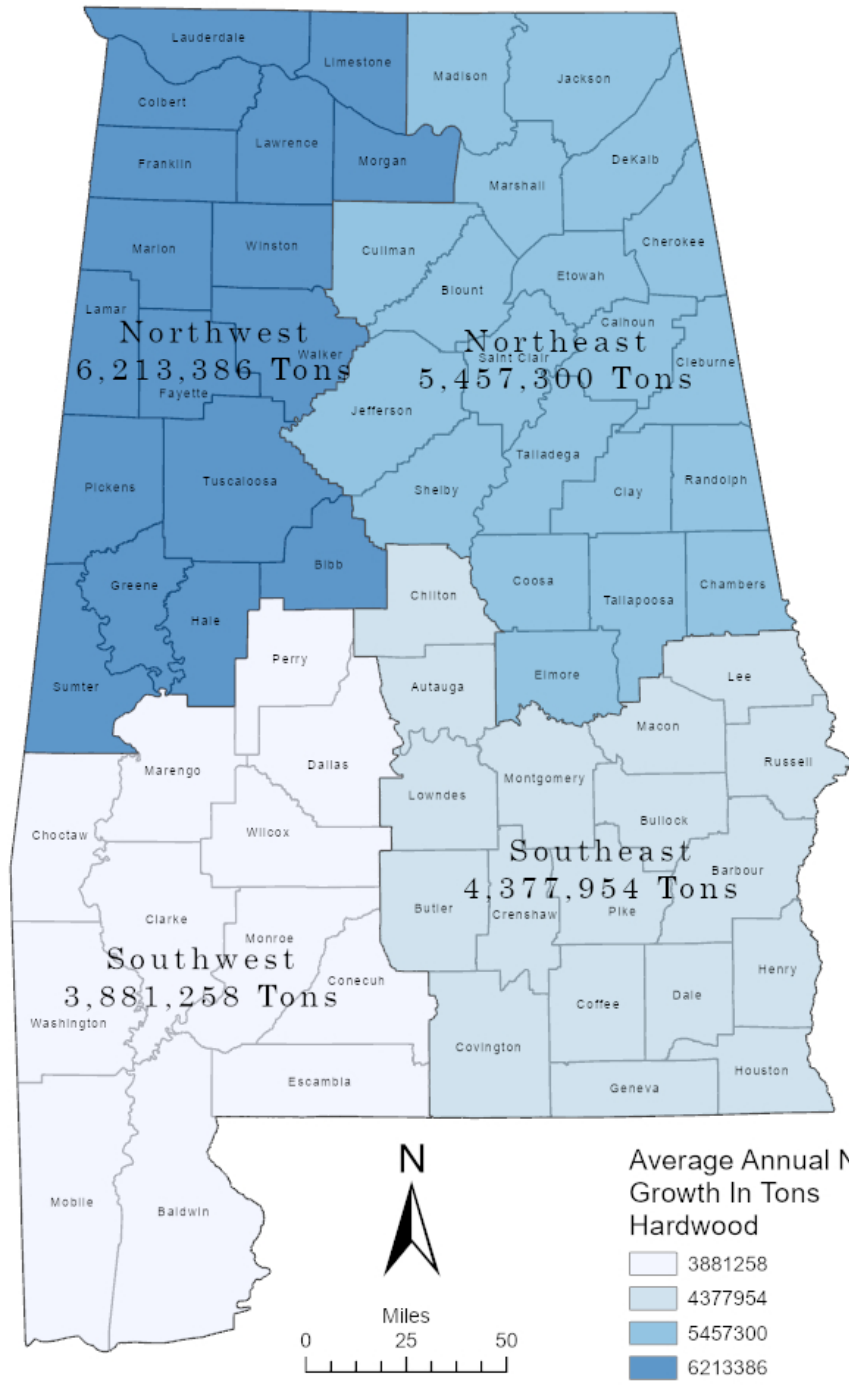
Numbers in rows and columns may not sum due to rounding.

# Average Annual Net Growth In Tons Softwood





# Average Annual Net Growth In Tons Hardwood



## Timber Harvest Removals

Softwood timber volume removed annually as a result of harvesting is estimated to be 31.4 million tons. Hardwood volume removed annually from timber harvesting is estimated at 9.5 million tons. Compared with the 2020 estimates, softwood removal shows a 5.28% increase, whereas a 2.56% increase in hardwood removal was recorded.

- Volume of timber removed was greatest in the Southwest Region and lowest in the Northeast Region. The Southwest Region and Northwest Region saw the greatest volumes of hardwood removals. The Southwest Region saw the greatest volume of softwood removals with tonnages recorded as 7.5% more than the 2020 estimate. Total tonnage removed increased in all four regions from the 2020 estimates.

### AVERAGE ANNUAL REMOVALS OF GROWING STOCK BY MAJOR SPECIES GROUP

#### ***NORTHWEST REGION***

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Bibb	198,390	177,706	20,684
Colbert	280,035	204,016	76,018
Fayette	670,923	479,870	191,053
Franklin	855,590	665,111	190,479
Greene	527,696	478,465	49,230
Hale	515,037	468,876	46,160
Lamar	1,015,854	514,946	500,908
Lauderdale	92,421	43,648	48,773
Lawrence	80,235	72,176	8,059
Limestone	68,710	12,014	56,696
Marion	869,171	632,982	236,189
Morgan	232,901	27,847	205,054
Pickens	813,727	655,044	158,683
Sumter	1,082,010	782,105	299,905
Tuscaloosa	1,365,359	1,105,534	259,825
Walker	425,934	315,504	110,430
Winston	447,935	338,367	109,568
<b>Total</b>	<b>9,541,927</b>	<b>6,974,212</b>	<b>2,567,715</b>

AVERAGE ANNUAL REMOVALS OF GROWING STOCK  
BY MAJOR SPECIES GROUP

**NORTHEAST REGION**

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Blount	235,865	203,726	32,139
Calhoun	382,118	224,368	157,750
Chambers	832,580	616,323	216,258
Cherokee	317,681	212,832	104,849
Clay	378,412	294,532	83,880
Cleburne	462,533	397,966	64,567
Coosa	1,022,786	865,408	157,379
Cullman	195,702	82,968	112,734
DeKalb	255,609	141,679	113,931
Elmore	411,595	319,273	92,322
Etowah	585,347	373,932	211,415
Jackson	194,040	1,749	192,291
Jefferson	591,531	424,798	166,733
Madison	11,587	0	11,587
Marshall	149,840	80,375	69,464
Randolph	649,297	566,351	82,946
St. Clair	415,390	270,933	144,456
Shelby	548,448	396,419	152,029
Talladega	731,171	672,019	59,152
Tallapoosa	683,357	493,335	190,022
<b>Total</b>	<b>9,054,889</b>	<b>6,638,987</b>	<b>2,415,902</b>

AVERAGE ANNUAL REMOVALS OF GROWING STOCK  
BY MAJOR SPECIES GROUP

**SOUTHEAST REGION**

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Autauga	540,269	480,189	60,081
Barbour	788,967	693,304	95,663
Bullock	486,666	409,226	77,440
Butler	1,252,326	1,083,290	169,035
Chilton	426,862	392,634	34,228
Coffee	411,370	349,893	61,477
Covington	780,010	693,811	86,199
Crenshaw	936,156	737,549	198,607
Dale	256,556	229,200	27,356
Geneva	223,658	183,236	40,422
Henry	760,294	568,897	191,397
Houston	258,520	195,048	63,472
Lee	741,742	546,768	194,974
Lowndes	537,392	396,763	140,629
Macon	557,897	427,822	130,075
Montgomery	327,917	214,786	113,131
Pike	496,435	446,056	50,379
Russell	509,914	293,314	216,601
<b>Total</b>	<b>10,292,951</b>	<b>8,341,785</b>	<b>1,951,166</b>

AVERAGE ANNUAL REMOVALS OF GROWING STOCK  
BY MAJOR SPECIES GROUP

**SOUTHWEST REGION**

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Baldwin	713,602	690,839	22,763
Choctaw	1,593,307	1,188,064	405,243
Clarke	1,576,770	1,296,205	280,564
Conecuh	1,016,541	796,036	220,505
Dallas	624,705	375,946	248,759
Escambia	644,085	630,846	13,239
Marengo	945,684	490,561	455,123
Mobile	534,919	492,662	42,257
Monroe	1,285,185	892,563	392,622
Perry	581,421	531,172	50,250
Washington	1,295,439	1,086,411	209,028
Wilcox	1,228,865	993,593	235,272
<b>Total</b>	<b>12,040,522</b>	<b>9,464,898</b>	<b>2,575,624</b>

**NOTES:**

Statistics are derived from 2021 Forest Inventory and Analysis (FIA) data.

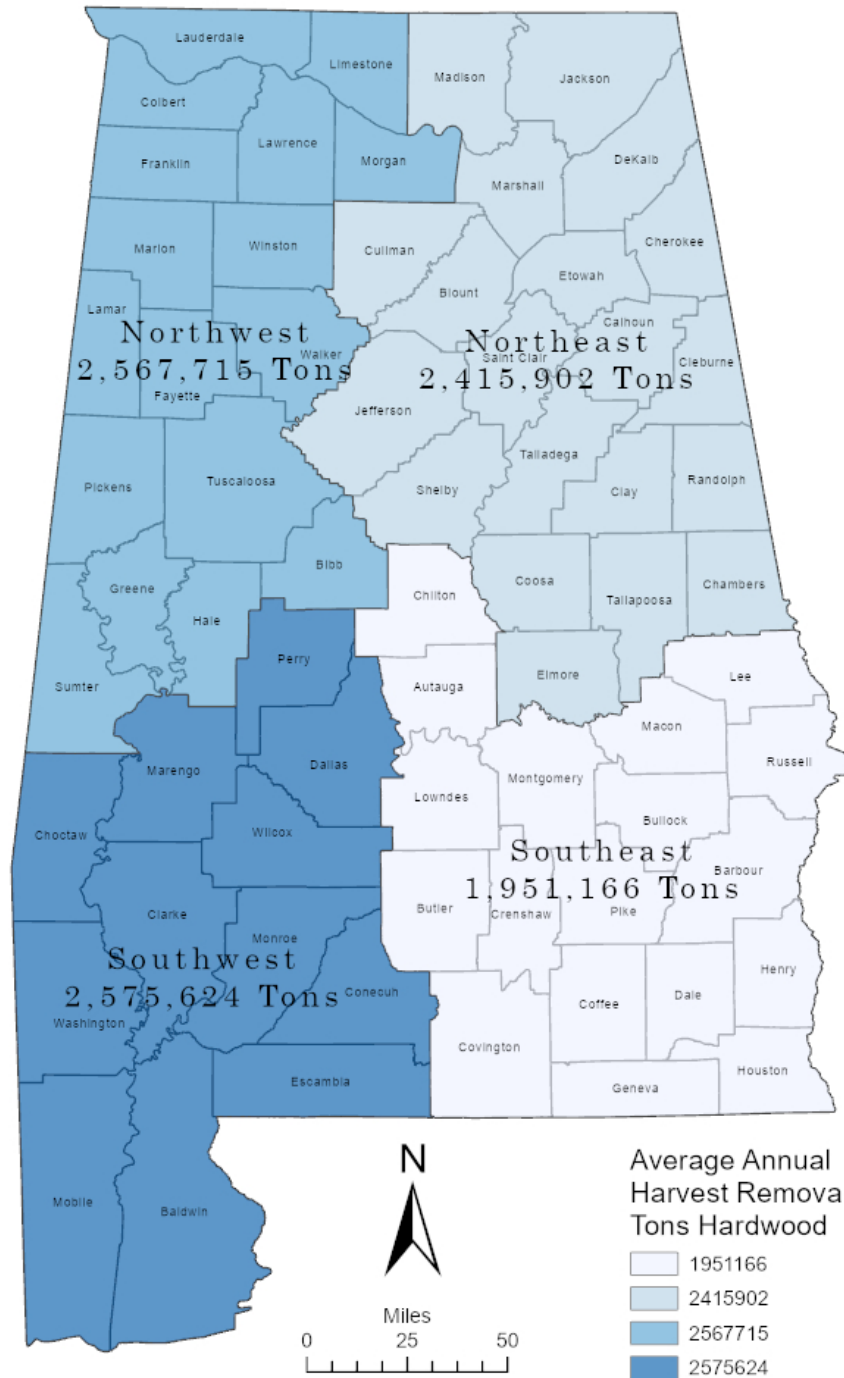
Numbers in rows and columns may not sum due to rounding.

A '0' value does not mean that timber was not harvested in a given county, it indicates that no FIA sample plot has encountered harvested trees in the category in the last seven years in that county.

# Average Annual Harvest Removal In Tons Softwood

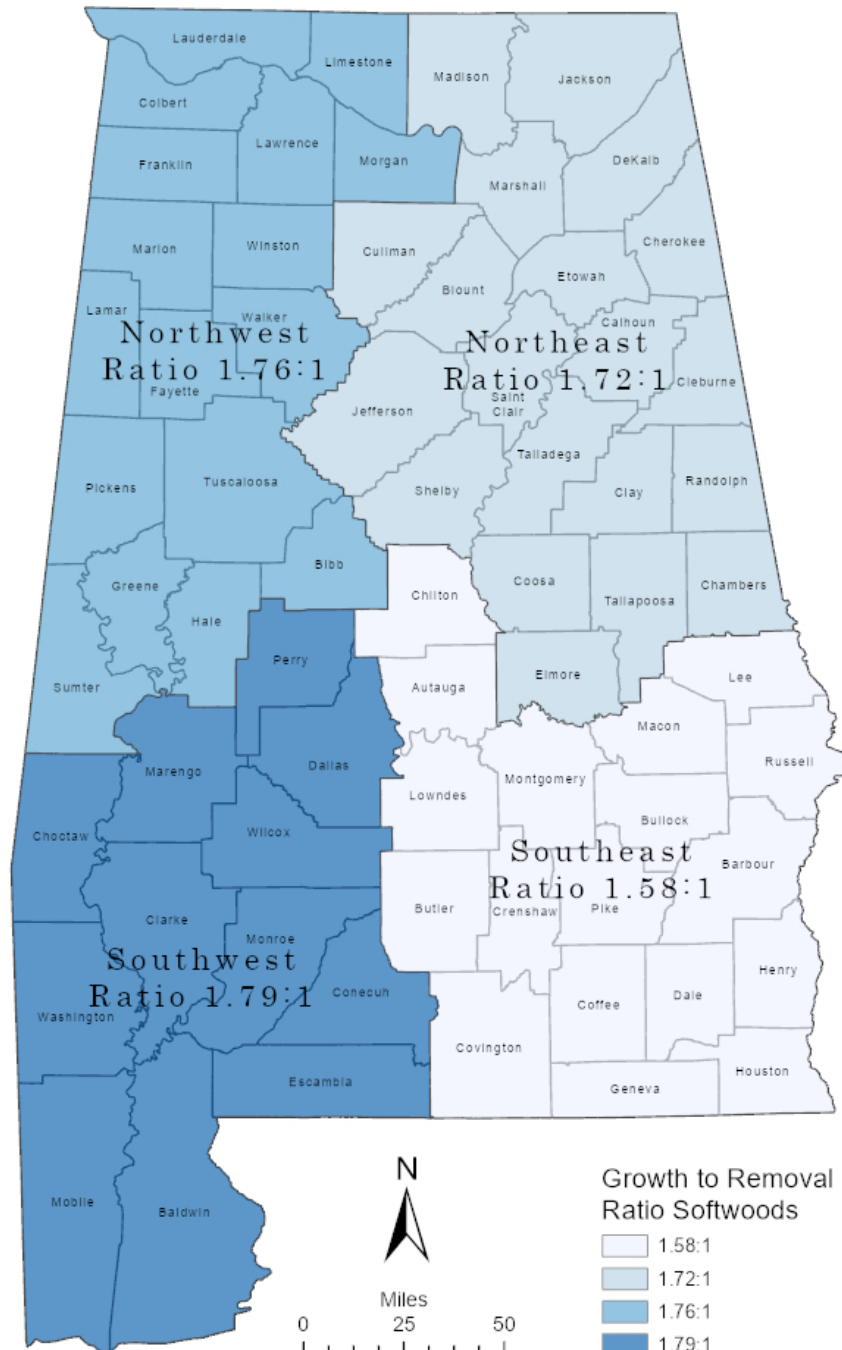


# Average Annual Harvest Removal In Tons Hardwood



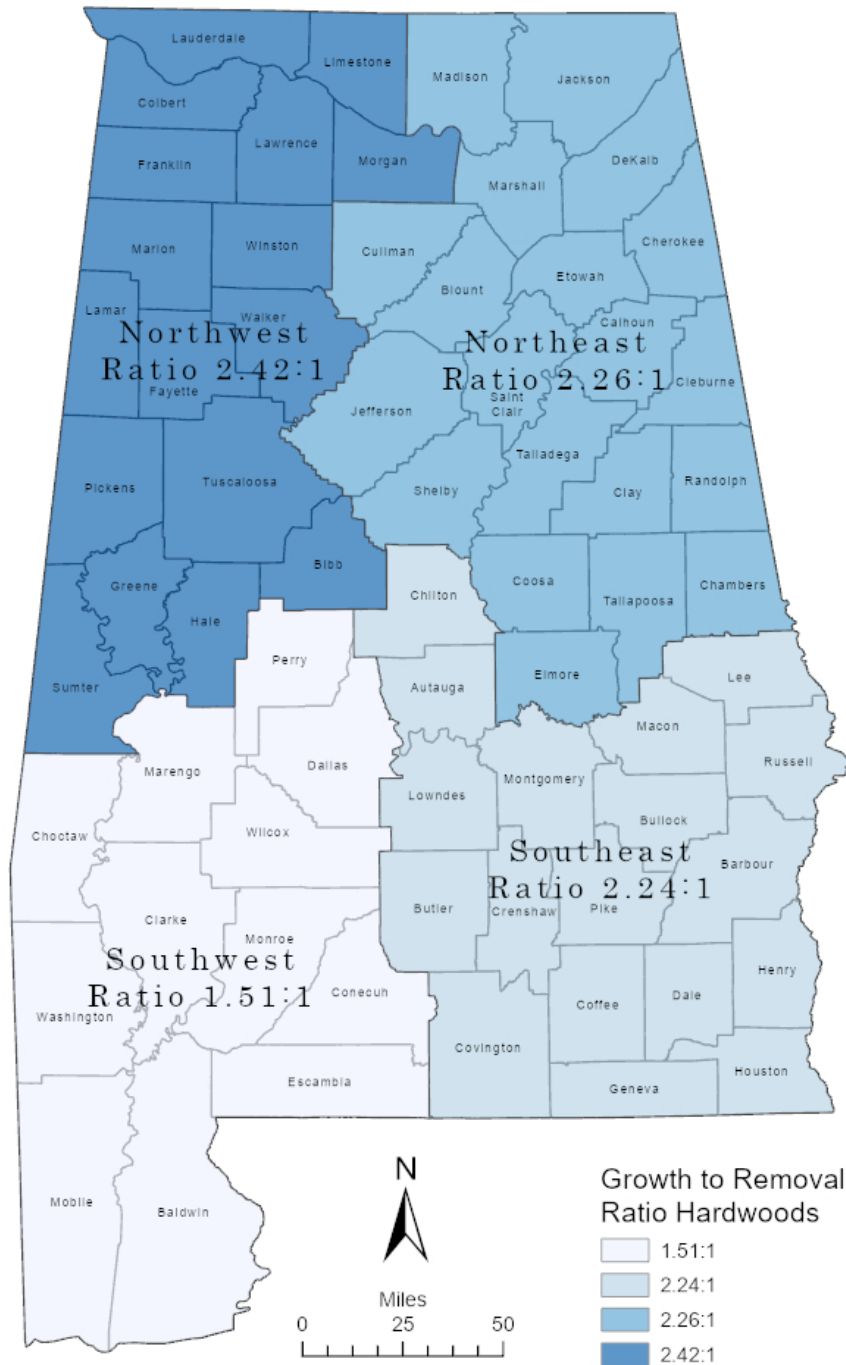
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# Growth to Removal Ratio Softwoods





# Growth to Removal Ratio Hardwoods



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## 2021 Timber Harvest Volume

- By tonnage, pine sawtimber harvests accounted for 45% of the total harvests in 2021 (see chart on page 49). Hardwood sawtimber accounted for 2% of the harvest, with poles and pilings slightly more than 1%. Under the law, all pulpwood is classed together, unlike in the past when softwood and hardwood were broken out. Pulpwood accounted for 51% of harvest tonnage.
- The increase in pine sawtimber harvests over the past several years can largely be linked to the recovery in the housing market. In 2009, in the U.S. South, the number of housing starts was 278,200. This number increased steadily in each of the next eleven years, and then further increased to 841,100 in 2021. For the nation, according to the most recent Census data (April 2022) before the virus-induced downturn, housing starts were being measured at an annual rate of 1,567,000 in February 2020. The number crashed to a low Seasonally Adjusted Annual Rate of 938,000 in April 2020 and then regained upward momentum. The Seasonally Adjusted Annual Rate of New Housing Starts in December 2021 was 1,768,000 units, which was the highest number of the year. A highly informative, highly informative easily read monthly document published jointly by Urs Buehlmann of Virginia Tech and the Forest Service is useful in tracking housing data and associated lumber demand. To subscribe to this newsletter, make a request from [buehlmann@gmail.com](mailto:buehlmann@gmail.com).
- The following quote is taken from the 2019 Forest Resource Report: “The housing market, like many things in 2020, is proving difficult to predict.” The statement holds true for 2021, 2022, and beyond. A pandemic followed by an unprecedented lumber price boom-bust-boom was clearly not predictable by looking at long-term historic charts. Exactly how the nation’s attitudes toward where to live with respect to cities, suburbs, and rural areas will unfold over time. The same could be said of changes to household formation and multi-generational living arrangements. Even the extent to which lumber scarcity and prices work to dampen housing demand will play a role in forest management decisions. As this is being written, inflation is running at 40-year highs, interest rates are climbing, and continued labor and supply shortages are placing a major divide between monthly building permits for new homes and monthly completions of new homes. So far, the housing start numbers have remained very high, but builder sentiment has been falling. Lumber prices have remained elevated but have been subject to large-scale swings in spot prices.
- 2020 was a remarkable year for lumber prices. 2021 was even more so. Benchmark prices as traded at the Chicago Mercantile Exchange (CME) began the year at an elevated level before rising to \$1000/thousand board feet (mbf) in March. After declining slightly, the contract surged through April and into May, reaching a peak at approximately \$1700/mbf, then fell just as sharply to a level below \$500. By 2021’s end, the benchmark futures contract was trading back above \$1000. In nominal dollars, there had never been a year for lumber to compare with 2021.
- The FIA estimate for volume for harvested wood was 40,900,000 tons. The amount of wood harvested and tallied from the Forest Product Severance Tax totaled 40,966,000 tons. Having very similar totals from two separate sources gives increased confidence of accuracy.

## Production of Forest Products by Product and County for Calendar Year 2021

County	Pine Sawtimber (Tons)	Hardwood Sawtimber (Tons)	Pulpwood All-Species (Tons)	Poles and Piles (Tons)	Total Severance (Tons)
Autauga	183,777	2,193	369,978	4,704	560,651
Baldwin	411,224	216	739,338	18,082	1,168,859
Barbour	655,130	1,830	639,150	3,008	1,299,118
Bibb	267,302	8,738	414,966	28,298	719,304
Blount	35,317	8,910	67,163	294	111,684
Bullock	298,383	719	249,844	797	549,743
Butler	700,366	1,324	413,669	15,111	1,130,469
Calhoun	91,332	9,127	191,113	0	291,572
Chambers	783,129	12,739	296,668	11,896	1,104,431
Cherokee	327,396	525	306,791	1,048	635,760
Chilton	261,699	5,543	463,598	2,932	733,772
Choctaw	609,867	18,658	766,850	35,393	1,430,768
Clarke	901,862	89,782	1,163,616	32,780	2,188,040
Clay	389,686	8,861	339,638	11,580	749,765
Cleburne	289,031	11,451	388,180	6,745	695,406
Coffee	146,622	2,149	223,148	6,728	378,647
Colbert	52,639	10,694	175,006	0	238,339
Conecuh	663,671	9,454	799,402	24,447	1,496,974
Coosa	316,317	10,010	540,128	14,093	880,549
Covington	450,939	96	527,840	22,678	1,001,553
Crenshaw	392,362	32,381	415,641	5,440	845,825
Cullman	36,241	22,759	135,631	462	195,093
Dale	114,459	1,192	118,988	415	235,054
Dallas	227,676	8,981	376,144	5,870	618,671
Dekalb	49,732	2,038	38,338	0	90,107
Elmore	103,656	1,644	136,670	1,527	243,497
Escambia	471,733	10,593	832,266	34,150	1,348,742
Etowah	33,309	2,020	59,485	0	94,814
Fayette	335,549	21,783	209,727	3,291	570,351
Franklin	103,382	22,646	246,396	0	372,424
Geneva	68,658	1,199	96,858	6,163	172,878
Greene	368,387	31,360	209,436	4,818	614,002
Hale	223,924	12,068	216,313	3,184	455,489
Henry	374,497	648	307,037	385	682,567
Houston	109,341	1,964	70,434	291	182,029
Jackson	12,934	9,538	74,609	0	97,081
Jefferson	118,463	17,543	128,020	0	264,026

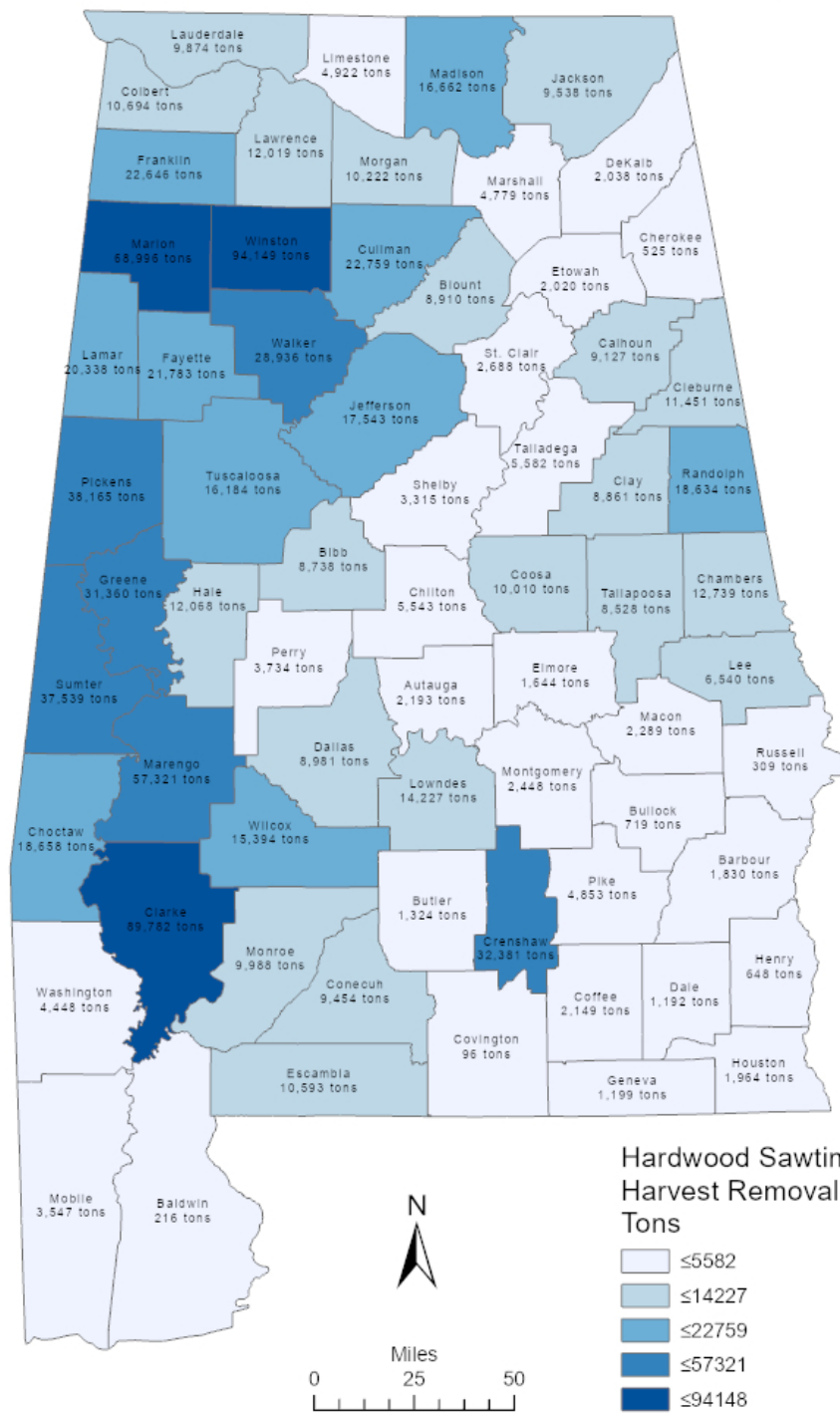
(Continued from page 43)

County	Pine Sawtimber (Tons)	Hardwood Sawtimber (Tons)	Pulpwood All-Species (Tons)	Poles and Piles (Tons)	Total Severance (Tons)
Lee	309,273	6,540	272,563	2,656	591,032
Limestone	6,698	4,922	38,492	0	50,112
Lowndes	215,888	14,227	321,614	3,664	555,394
Macon	163,245	2,289	202,692	2,297	370,523
Madison	18,635	16,662	35,240	36	70,573
Marengo	352,342	57,321	663,686	11,865	1,085,214
Marion	256,699	68,996	378,779	2,023	706,496
Marshall	9,104	4,779	15,007	0	28,891
Mobile	421,267	3,547	350,523	7,410	782,747
Monroe	632,525	9,988	684,818	26,898	1,354,229
Montgomery	98,747	2,448	91,848	160	193,202
Morgan	14,229	10,222	60,296	57	84,804
Perry	274,176	3,734	293,222	4,709	575,840
Pickens	484,243	38,165	348,740	2,856	874,004
Pike	374,739	4,853	338,119	3,445	721,157
Randolph	223,588	18,634	235,154	1,106	478,483
Russell	177,143	309	308,711	1,197	487,360
St. Clair	107,455	2,688	191,957	655	302,756
Shelby	127,009	3,315	261,753	61,903	453,981
Sumter	350,263	37,539	483,995	14,898	886,695
Talladega	140,206	5,582	229,840	3,160	378,788
Tallapoosa	462,789	8,528	290,879	11,798	773,994
Tuscaloosa	437,537	16,184	353,242	979	807,941
Walker	239,880	28,936	174,010	5,801	448,628
Washington	741,212	4,448	376,733	6,923	1,129,317
Wilcox	408,028	15,394	570,842	10,532	1,004,796
Winston	172,330	94,149	345,649	74	612,201
<b>Totals</b>	<b>18,535,554</b>	<b>940,008</b>	<b>20,995,772</b>	<b>494,954</b>	<b>40,966,289</b>
<b>2021 vs 2020</b>	<b>+9.4%</b>	<b>+12.2%</b>	<b>-0.0%</b>	<b>+1.0%</b>	<b>+4.3%</b>

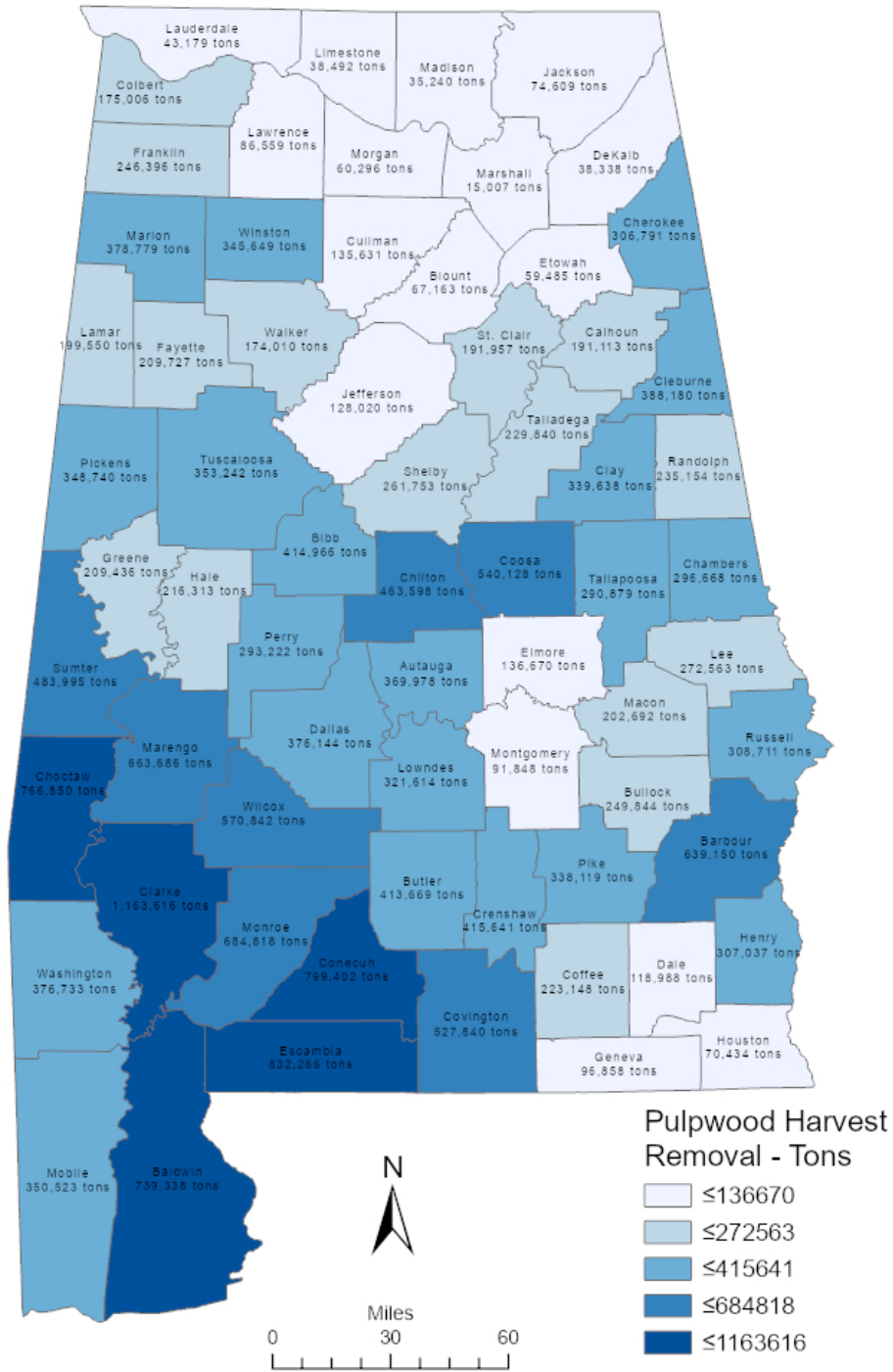
*This data provided by the Alabama Department of Revenue – Forest Product Severance Tax Records.*



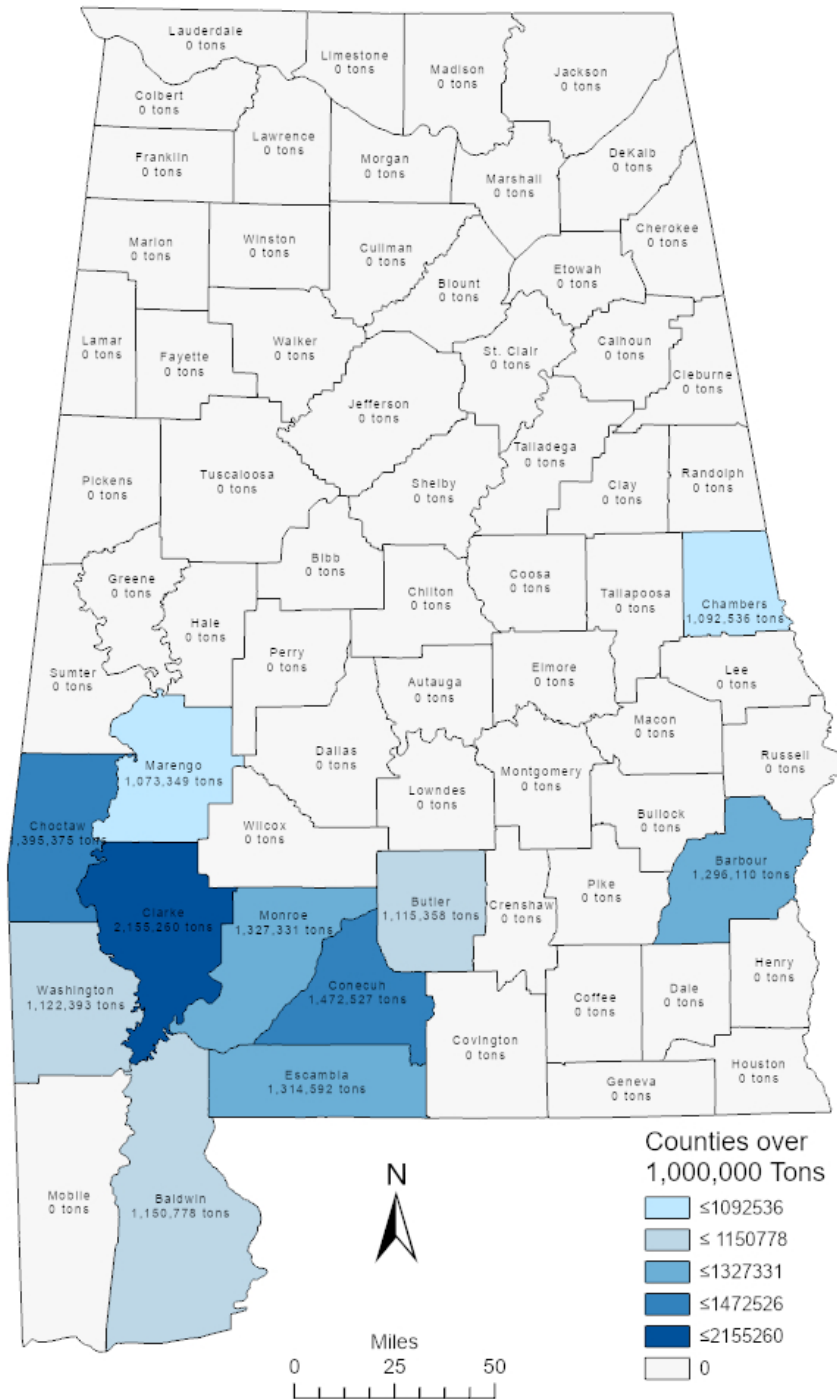
# Hardwood Sawtimber Harvest Removal By County



# Pulpwood Harvest Removal By County

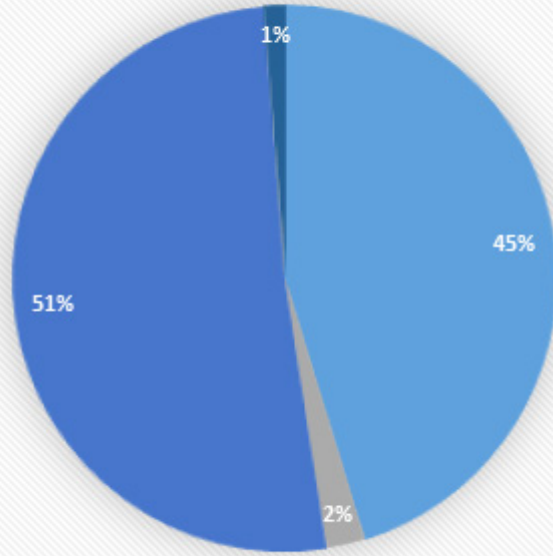


# Counties over 1,000,000 Tons Total Severance





2021 Alabama Timber Harvest, by Product, in Tons,  
by Severance Tax Record



■ Pine Sawtimber 45% ■ Hardwood Sawtimber 2% ■ Pulpwood 51% ■ Poles and Pilings 1%

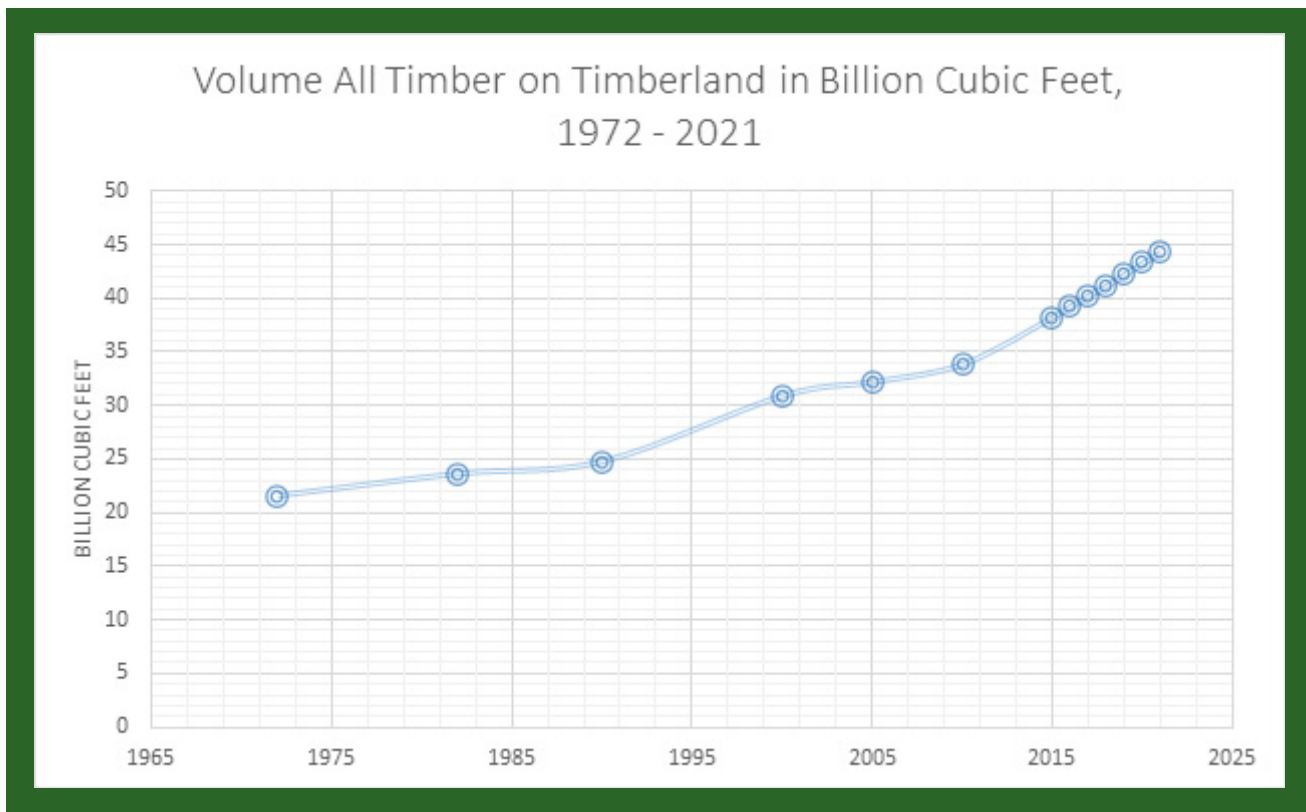


# 2021 Timber Price Trends

PRODUCT	2021 Stumpage Prices		2020 Stumpage Prices	
	Price (Region 1)	Price (Region 2)	Price (Region 1)	Price (Region 2)
Pine Sawtimber	\$23.59/ton	\$25.96/ton	\$22.60/ton	\$24.10/ton
Hardwood Sawtimber	\$36.92/ton	\$34.10/ton	\$38.50/ton	\$33.09/ton
Pine Pulpwood	\$6.36/ton	\$11.56/ton	\$5.52/ton	\$8.16/ton
Hardwood Pulpwood	\$15.94/ton	\$14.43/ton	\$14.52/ton	\$12.49/ton

Data obtained from TimberMart-South, 2020 and 2021. Numbers are averaged from all four quarters.

Region 1 represents the northern half of the state. Region 2 represents the southern third. "Black Belt" counties would be an average of the two regions.



When it comes to timber price trends, the inescapable truth involves timber supply. According to the FIA data, it has never been higher, and it continues to expand. Strong, sustained improvement in stumpage prices paid to the landowner are difficult to anticipate while supplies remain at high and growing levels. Costs have been rising across the economy for fuel, inputs, and finished products, while stumpage prices rose accordingly. Record high lumber prices, new capacity coming online, and high-capacity utilization will provide support for timber stumpage prices, but unevenly around the state. As always with timber, local access to a source of demand, weather, availability of logging operators, timber quality, and tract size will play a large role in determining the value of any given ton of wood. The following section addresses Forest Industry, and its recent trend toward expansion, which is poised to take advantage of this record wood supply while being sustainable in the long term.

# Alabama's Forest Industry

## Contributions

The state's forest industry is a primary contributor for rural development within Alabama. According to an IMPLAN analysis done by the Center for Economic Development and Business Research at Jacksonville State University, the industry added approximately \$11.8 billion in annual value to the economy in 2019, and still added \$11.4 billion in COVID-impacted 2020. The areas of interest in the study were Forestry & Logging, Lumber & Wood Products, Pulp & Paper, and Furniture & Related Products. According to the Alabama Department of Labor, there were 1,479 establishments in these four categories. Below is most recent data available at time of publication from the Emsi database concerning forest industry metrics in Alabama.



Source: Alabama Department of Commerce/AIDT, Emsi, Q1, 2022

Alabama's industry rankings relative to the U.S. is second in pulp production, second in paper and paperboard production, third in lumber, and sixth in panel production. Further, the state exported approximately \$1.5 billion in forest products to international market destinations in 2021. Across Alabama's economy, exports fell during 2020 but rebounded well in 2021. For example, for the Solid Wood Products category (NAICS code 321), exports were recorded as having dropped 23% in 2020 from the 2019 level, but then were up 37% in 2021 from 2020.

## Economic Development

Economic Development announcements in recent years have been very active with new and expanding industry within forest products. The investment trend for the industry in the last ten years reflects growth as a function of positive U.S. economic factors. In 2021, there were 27 total new and expanding announcements including 773 job creations and approximately \$617 million in announced capital investment. Although these numbers were not as high as some previous years, it should be pointed out that 2021 represented a strong rebound from a difficult 2020.



# Development Initiatives

Forest-based economic development has always been a priority for Alabama. Retention and expansion of the state's forest industry is achieved through many economic development initiatives. These include the following:



## Accelerate Alabama 2.0 Strategy

*The Alabama Department of Commerce markets the forest products industry, which is one of seven targeted industrial clusters.*



## Forest Product Development Center

*The Center, as a function of the Alabama Department of Commerce and AIDT, facilitates forest-based economic development within the state by providing a wide range of technical information and analytical support to industrial clients, site location consultants, economic developers, and existing industry.*



## Forest Inventory and Analysis & Timber Product Output

*The Alabama Forestry Commission conducts these two critical surveys that provide the foundation of forest industry expansions and recruitment.*



## Forestry Works

*The Alabama Forestry Foundation and its partners are developing a pipeline of qualified workers for the logging and wood product industry.*



## Alabama Wood Innovation Team

*The Alabama Forestry Association has initiated a public-private consortium formed to analyze opportunities to grow markets for forest products, develop strategies to increase demand for wood products and implement solutions by removing barriers to market growth and expansion.*

# Alabama Forest Industry 2019



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# References

**Alabama Cooperative Extension System** – Website address: <http://www.aces.edu/pubs/docs/A/ANR-1456/ANR-1456.pdf>

**Alabama Department of Commerce** - Website address: [www.madeinalabama.com](http://www.madeinalabama.com)

**Alabama Department of Labor, Labor Market Information Division**

**Alabama Department of Revenue** - Website address: [www.ador.alabama.gov](http://www.ador.alabama.gov)

**Forest2Market** - Website address: [www.forest2market.com](http://www.forest2market.com)

**Forest Inventory & Analysis EVALIDator 1.8.0.00** - Website address: <https://apps.fs.usda.gov/Evalidator/evalidator.jsp>

**Southern Forest Products Association** - Website address: [www.sfpa.org](http://www.sfpa.org)

**TimberMart-South** - Website address: [www.timbermart-south.com](http://www.timbermart-south.com)

**USDA - Economic Research Service** - Website address: [www.ers.usda.gov](http://www.ers.usda.gov)

**United States Department of Labor – Bureau of Labor Statistics** – Website address: <https://www.bls.gov/home.htm>

**The Virginia Tech – U.S. Forest Service Housing Commentary** - Website address: <https://www.woodproducts.sbio.vt.edu/housing-report/>

**Wood Resources International LLC** - Website address: [www.wri-ltd.com](http://www.wri-ltd.com)

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