



2020

FOREST RESOURCE REPORT

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FORWARD

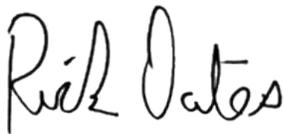
Presented here is the 2020 Forest Resource Report. The Alabama Forestry Commission has drawn data from many sources to present a picture of the current state of our timber resource. In these pages you will find that our citizens are caring for their land and sustainably producing wood in excess of current demand. While this scenario presents challenges, it also offers 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 longer. 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 conducts the FIA survey in the state, and has done so since the year 2000, 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 harvests 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 here for the first time can see where the best resource opportunities may be found.

This report represents a concerted effort by many in this agency to provide an organized, 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*

FOREST RESOURCE REPORT 2020

By

Alabama Forestry Commission (AFC)

This report contains several economic status indicators of the forest resources and forest industry in Alabama for 2020. Included in this report are the following indicators:

- **2020 Timberland Acreage by Forest Type and AFC Region**
- **2020 Timberland Acreage by Forest Stand Size and AFC Region**
- **2020 Timber Volume by Species and AFC Region**
- **2020 Average Annual Net Timber Growth by Major Species Group and AFC Region**
- **2020 Average Annual Timber Harvest Removals by Major Species Groups and AFC Regions**
- **2020 Timber Harvests Volume by County**
- **2020 Timber Price Trends**
- **2020 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 11.4% of Alabama’s timberland while 81.7% 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.
- Alabama Forests are comprised of 46% softwood stands (mostly pine), 42% hardwood stands and 12% mixed hardwood/pine stands. Values were only fractionally different than 2019.

TIMBERLAND ACRES BY FOREST TYPE – NORTHWEST REGION

County	Total	Softwoods	Hardwood/ Pine	Hardwoods
		<i>Acres</i>		
Bibb	314,270	148,026	65,519	100,726
Colbert	221,601	36,488	19,889	165,225
Fayette	339,098	185,019	25,334	128,745
Franklin	299,650	93,054	23,656	182,940
Greene	347,067	131,796	30,492	184,780
Hale	288,918	115,976	41,509	131,433
Lamar	338,615	144,532	25,872	168,212
Lauderdale	180,926	33,402	3,448	144,077
Lawrence	204,038	46,552	40,178	117,307
Limestone	91,381	3,999	1,442	85,940
Marion	369,042	201,005	44,180	123,856
Morgan	189,731	17,342	31,734	140,655
Pickens	476,500	259,812	48,596	168,094
Sumter	455,422	235,122	28,158	192,141
Tuscaloosa	698,091	302,729	114,289	281,074
Walker	387,922	181,713	45,177	161,033
Winston	308,272	117,823	47,659	142,790
Total	5,510,544	2,254,390	637,132	2,619,028

TIMBERLAND ACRES BY FOREST TYPE – NORTHEAST REGION

County	Total	Softwoods	Hardwood/ Pine	Hardwoods
		<i>Acres</i>		
Blount	231,036	112,126	24,252	94,658
Calhoun	195,510	76,056	31,273	88,182
Chambers	310,773	198,646	19,784	92,343
Cherokee	250,574	98,254	47,341	104,980
Clay	304,076	108,319	46,227	149,529
Cleburne	252,981	104,305	35,238	113,438
Coosa	377,061	209,491	35,730	131,841
Cullman	241,232	73,478	32,346	135,408
DeKalb	178,296	62,626	15,582	100,088
Elmore	238,142	103,760	38,576	95,805
Etowah	186,021	56,863	38,003	91,155
Jackson	449,099	29,597	31,734	387,769
Jefferson	387,253	181,106	48,677	157,471
Madison	195,769	33,244	22,025	140,500
Marshall	158,855	28,375	12,573	117,907
Randolph	281,861	131,123	47,067	103,672
St. Clair	309,323	96,491	70,900	141,931
Shelby	338,274	162,452	45,903	129,920
Talladega	306,431	138,970	65,821	101,640
Tallapoosa	393,749	202,302	59,273	132,172
Total	5,586,316	2,207,584	768,325	2,610,409

TIMBERLAND ACRES BY FOREST TYPE – SOUTHEAST REGION

County	Total	Softwoods	Hardwood/ Pine	Hardwoods
		<i>Acres</i>		
Autauga	304,104	157,646	29,367	117,090
Barbour	433,610	225,516	45,365	162,728
Bullock	327,798	168,361	33,040	126,398
Butler	407,831	234,489	58,457	114,885
Chilton	330,408	137,780	74,201	118,427
Coffee	246,818	104,060	22,586	120,171
Covington	491,341	307,566	71,041	112,734
Crenshaw	319,534	145,093	45,988	128,453
Dale	264,049	82,859	46,497	134,693
Geneva	197,270	78,152	29,590	89,529
Henry	269,364	131,009	35,489	102,866
Houston	175,889	58,185	35,987	81,716
Lee	252,394	142,296	25,170	84,927
Lowndes	314,459	159,256	22,529	132,674
Macon	331,666	143,091	34,839	153,736
Montgomery	256,207	59,533	29,538	167,136
Pike	303,583	129,710	29,998	143,874
Russell	314,138	159,449	30,296	124,392
Total	5,540,463	2,624,051	699,978	2,216,429

TIMBERLAND ACRES BY FOREST TYPE – SOUTHWEST REGION

County	Total	Softwoods	Hardwood/ Pine	Hardwoods
		<i>Acres</i>		
Baldwin	718,993	398,278	98,305	222,411
Choctaw	525,673	288,798	68,939	167,935
Clarke	738,824	415,770	111,285	211,768
Conecuh	446,995	257,777	47,781	141,437
Dallas	439,420	198,900	30,818	209,701
Escambia	473,057	328,464	28,308	116,284
Marengo	477,742	224,262	42,702	210,778
Mobile	492,545	249,731	28,583	214,231
Monroe	571,357	346,467	53,610	171,279
Perry	343,920	202,177	31,432	110,311
Washington	625,097	358,216	80,395	186,486
Wilcox	504,987	261,493	61,889	181,606
Total	6,358,610	3,530,333	684,047	2,144,227

NOTES:

Statistics come from 2020 Forest Inventory and Analysis (FIA) data.

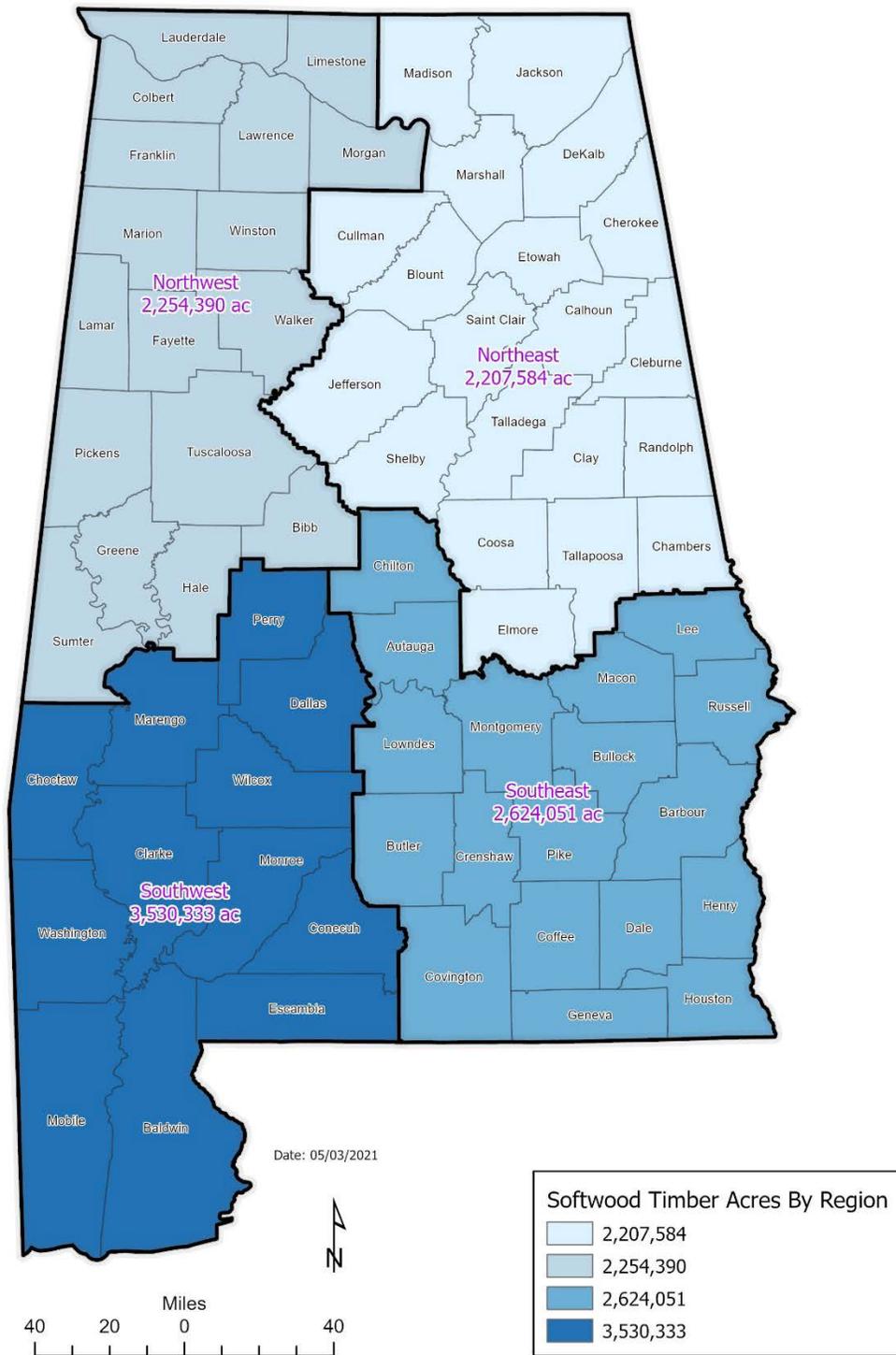
A very small portion of timberland acreage is classified as “non-stocked” by FIA guidelines. The “non-stocked” acres have been included in the “hardwood/pine” category.

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

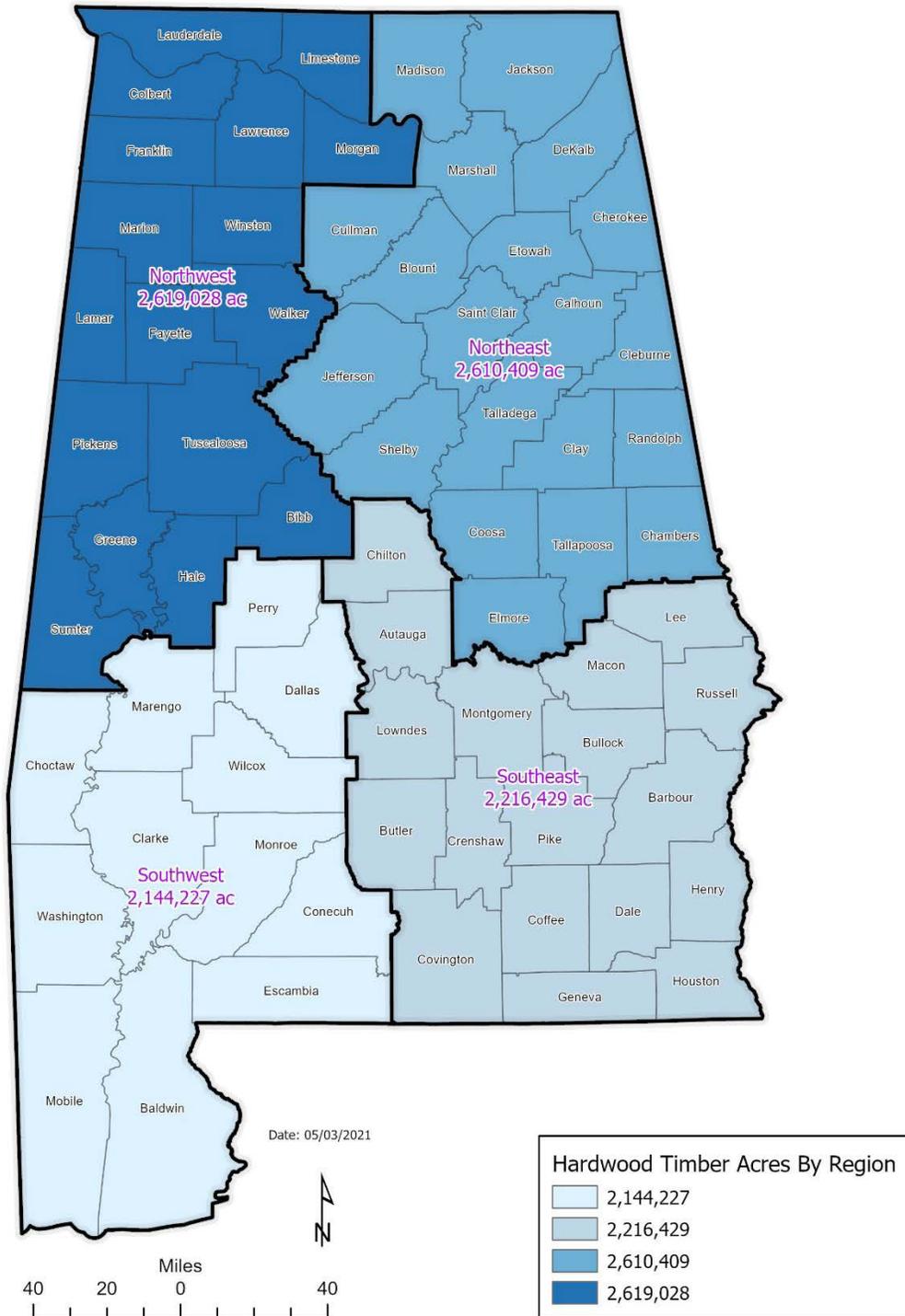
Numbers in rows and columns may not sum due to rounding.

***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.**

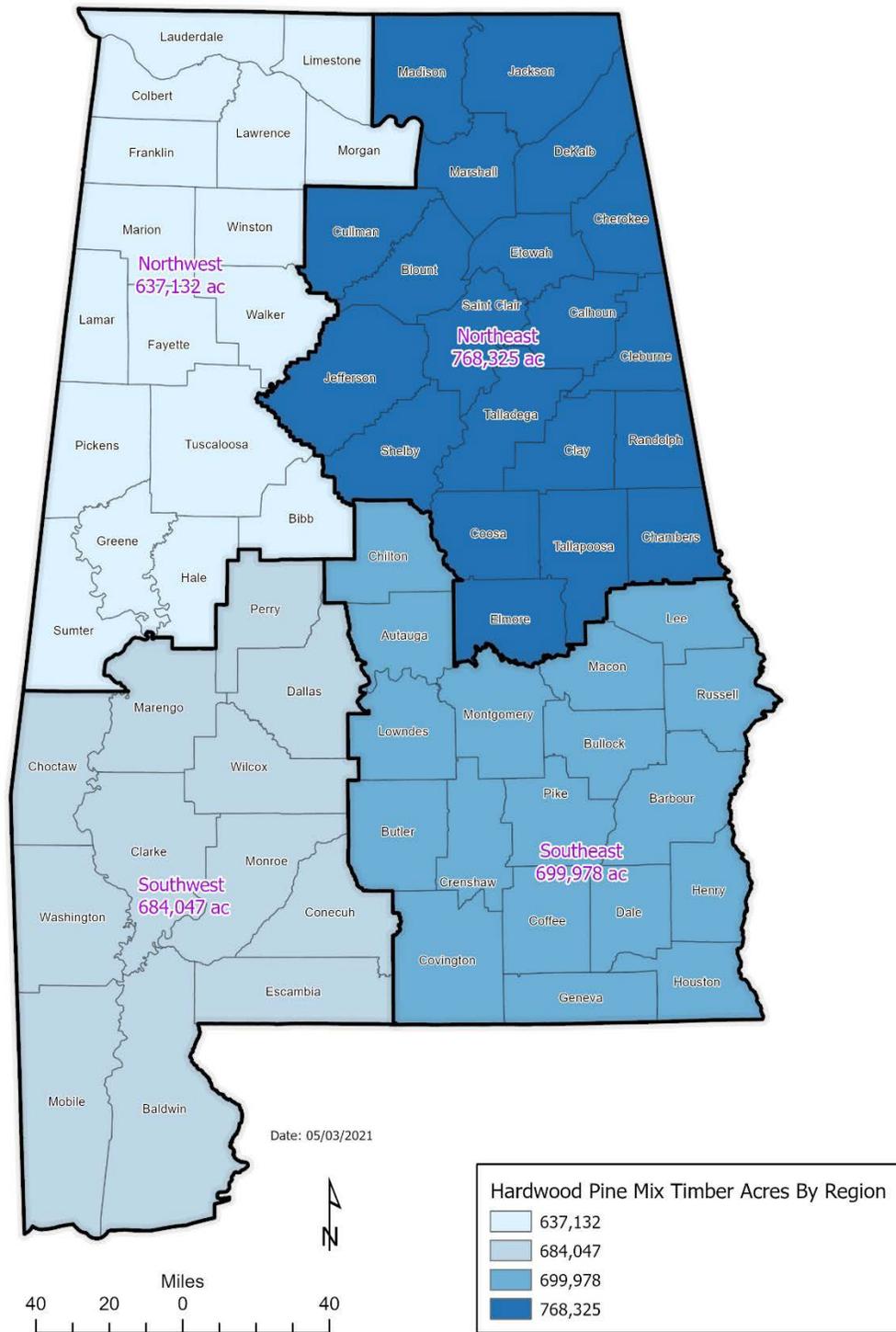
Softwood Timber Acres By Region



Hardwood Timber Acres By Region



Hardwood Pine Mix Timber Acres By Region



- 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 21% of timberland acreage. Compared to 2019, sawtimber-sized increased by over 1% at the expense of a 1% decrease in pulpwood-sized.

TIMBERLAND ACRES BY FOREST STAND SIZE – NORTHWEST REGION

County	Total	Sawtimber	Pulpwood	Seedling/Sapling
		<i>Acres</i>		
Bibb	314,270	180,758	89,237	44,275
Colbert	221,601	110,966	78,060	32,575
Fayette	339,098	126,970	121,813	90,315
Franklin	299,650	116,453	105,601	77,596
Greene	347,067	177,108	86,478	83,481
Hale	288,918	159,997	76,740	52,181
Lamar	338,615	141,042	104,572	93,002
Lauderdale	180,926	106,696	49,422	24,808
Lawrence	204,038	127,858	56,782	19,399
Limestone	91,381	54,863	17,265	19,253
Marion	369,042	153,669	94,420	120,953
Morgan	189,731	118,718	46,715	24,298
Pickens	476,500	257,059	124,272	95,169
Sumter	455,422	245,000	103,291	107,130
Tuscaloosa	698,091	343,838	193,611	160,643
Walker	387,922	221,111	118,558	48,254
Winston	308,272	151,122	95,287	61,863
Total	5,510,544	2,793,228	1,562,124	1,155,195

TIMBERLAND ACRES BY FOREST STAND SIZE – NORTHEAST REGION

County	Total	Sawtimber	Pulpwood	Seedling/Sapling
		<i>Acres</i>		
Blount	231,036	121,783	44,715	64,539
Calhoun	195,510	122,300	34,698	38,512
Chambers	310,773	142,787	83,826	84,161
Cherokee	250,574	131,342	76,879	42,353
Clay	304,076	173,126	94,950	36,000
Cleburne	252,981	179,153	22,857	50,970
Coosa	377,061	192,613	118,402	66,046
Cullman	241,232	131,883	66,469	42,880
DeKalb	178,296	119,001	32,718	26,577
Elmore	238,142	153,308	60,785	24,048
Etowah	186,021	83,456	48,876	53,690
Jackson	449,099	332,453	83,387	33,259
Jefferson	387,253	240,604	104,954	41,695
Madison	195,769	148,957	41,743	5,070
Marshall	158,855	101,435	27,004	30,416
Randolph	281,861	136,601	93,241	52,019
St. Clair	309,323	182,224	73,552	53,547
Shelby	338,274	180,665	93,029	64,580
Talladega	306,431	171,579	71,522	63,331
Tallapoosa	393,749	224,389	93,448	75,912
Total	5,586,316	3,269,659	1,367,055	949,605

TIMBERLAND ACRES BY FOREST STAND SIZE – SOUTHEAST REGION

County	Total	Sawtimber	Pulpwood	Seedling/Sapling
		<i>Acres</i>		
Autauga	304,104	120,480	102,952	80,671
Barbour	433,610	232,396	99,893	101,322
Bullock	327,798	201,039	75,384	51,375
Butler	407,831	222,133	94,942	90,756
Chilton	330,408	177,198	97,847	55,364
Coffee	246,818	115,080	84,934	46,803
Covington	491,341	220,990	156,539	113,811
Crenshaw	319,534	173,726	59,870	85,938
Dale	264,049	152,424	63,275	48,350
Geneva	197,270	110,636	51,797	34,838
Henry	269,364	127,208	81,208	60,949
Houston	175,889	94,770	40,192	40,926
Lee	252,394	137,660	72,129	42,606
Lowndes	314,459	192,660	61,836	59,963
Macon	331,666	201,765	83,533	46,369
Montgomery	256,207	171,272	55,215	29,720
Pike	303,583	159,016	107,944	36,623
Russell	314,138	159,295	75,340	79,503
Total	5,540,463	2,969,748	1,464,830	1,105,887

TIMBERLAND ACRES BY FOREST STAND SIZE – SOUTHWEST REGION

County	Total	Sawtimber	Pulpwood	Seedling/Sapling
		<i>Acres</i>		
Baldwin	718,993	378,748	204,852	135,392
Choctaw	525,673	239,293	147,651	138,728
Clarke	738,824	389,632	194,864	154,328
Conecuh	446,995	191,410	144,100	111,484
Dallas	439,420	211,519	130,020	97,882
Escambia	473,057	163,682	147,406	161,969
Marengo	477,742	216,224	136,358	125,160
Mobile	492,545	227,295	97,346	167,904
Monroe	571,357	267,927	182,647	120,782
Perry	343,920	179,488	103,759	60,674
Washington	625,097	336,917	138,578	149,602
Wilcox	504,987	251,121	154,288	99,578
Total	6,358,610	3,053,256	1,781,869	1,523,483

NOTES:

Statistics come from 2020 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 2/3 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”.**

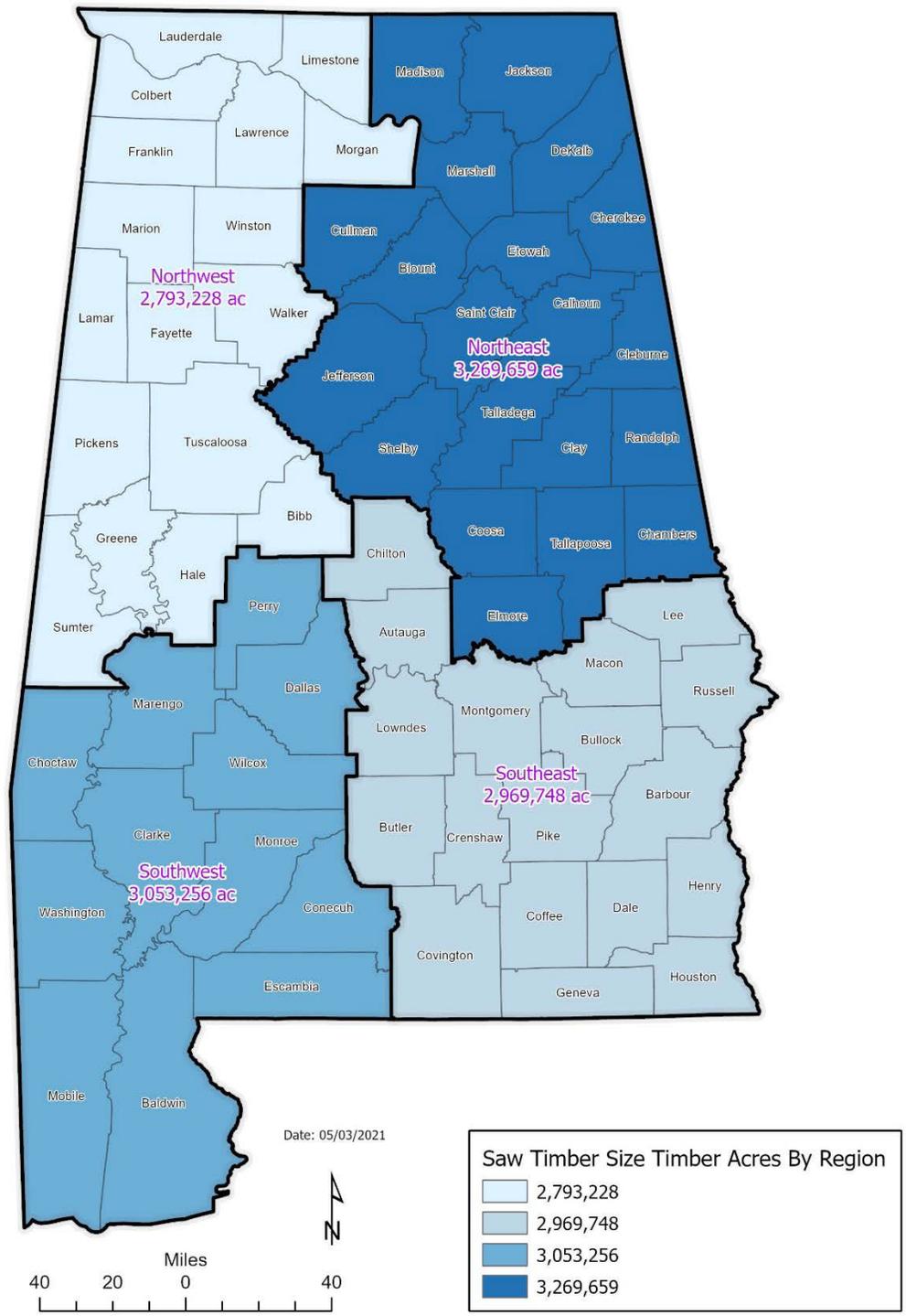
A very small portion of timberland acreage is classified as “non-stocked” by FIA guidelines. The “non-stocked” acres have been included in the “seedling/sapling” category.

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

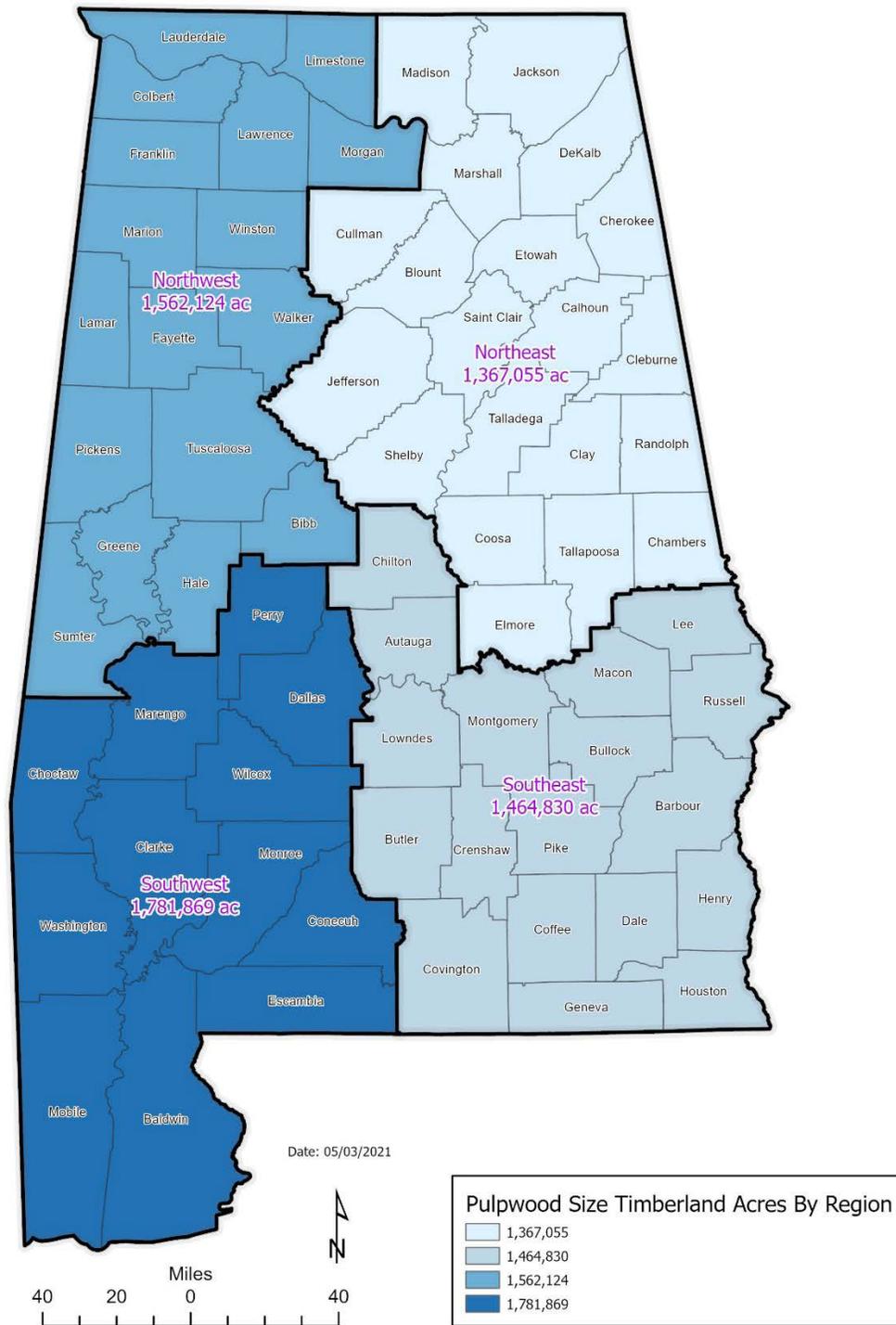
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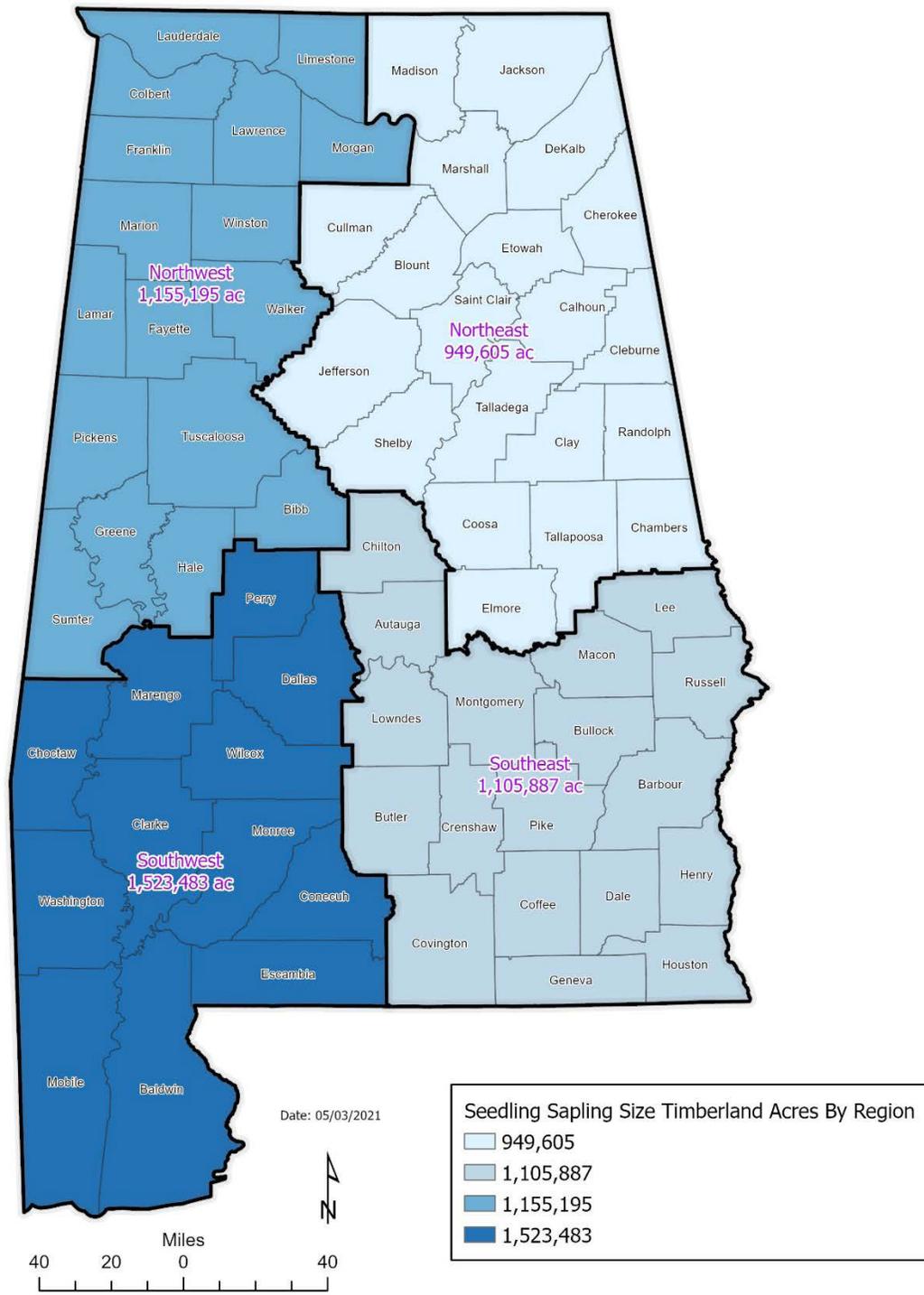
Saw Timber Size Timber Acres By Region



Pulpwood Size Timberland Acres By Region



Seedling Sapling Size Timberland Acres By Region



Timber Volume

- There are an estimated 710.5 million tons of softwood growing stock volume and 607.2 million tons of hardwood growing stock volume in Alabama. This equals 1.3177 billion tons combined. This total is up 2.3% over 2019.
- **Alabama leads the nation in loblolly pine growing stock volume with 583.4 million tons.**
- Since 2000 total growing stock volume has increased 32.7%; softwood volume has increased 59.1% and hardwood volume has increased by 11.1%.
- Using the 4-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 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	8,278,207	3,259,282	1,835,835	1,194,812	912,941
Colbert	3,778,560	1,316,356	3,669,820	1,334,252	831,571
Fayette	9,945,131	1,048,959	1,134,913	1,510,764	2,243,811
Franklin	5,611,433	1,813,766	2,960,750	975,305	1,749,521
Greene	7,048,114	3,434,220	1,834,032	2,005,980	821,241
Hale	5,796,667	2,571,942	1,045,270	1,991,902	624,004
Lamar	8,950,852	2,002,252	1,069,883	1,728,124	416,141
Lauderdale	1,201,200	2,062,857	2,188,773	1,232,037	705,839
Lawrence	3,370,773	1,935,950	3,506,695	890,680	389,148
Limestone	554,031	1,499,471	757,372	651,341	1,236,641
Marion	12,539,213	1,084,601	2,628,177	919,898	1,329,950
Morgan	2,857,713	2,431,034	2,548,465	2,771,717	1,687,062
Pickens	14,933,378	3,364,404	1,793,651	2,659,406	2,511,722
Sumter	12,191,559	4,522,146	1,274,044	1,929,143	508,868
Tuscaloosa	18,587,231	5,297,319	4,405,721	4,664,213	2,369,114
Walker	13,047,385	2,019,261	3,252,763	2,486,604	1,412,738
Winston	7,994,088	1,254,865	4,370,716	1,096,946	2,378,520
Total	136,685,536	40,918,685	40,276,880	30,043,125	22,128,833

GROWING STOCK VOLUME BY SPECIES – NORTHEAST REGION

County	Loblolly Pine	Red Oak	White Oak	Sweetgum	Yellow-poplar
<i>Tons</i>					
Blount	5,902,637	1,991,964	2,056,544	1,062,045	783,977
Calhoun	4,337,536	1,720,033	2,102,667	1,600,219	205,973
Chambers	11,956,568	1,520,457	1,004,411	1,382,545	1,452,649
Cherokee	6,318,604	1,823,424	3,362,832	991,949	64,451
Clay	8,305,175	2,593,632	2,748,183	1,418,318	1,482,117
Cleburne	7,798,046	1,676,344	2,973,579	963,565	1,755,876
Coosa	11,680,001	2,120,593	1,264,478	992,974	1,432,448
Cullman	5,011,625	1,228,668	2,268,126	1,177,390	2,807,369
DeKalb	1,901,120	2,297,966	2,301,614	787,749	1,070,750
Elmore	7,491,627	2,006,500	525,711	1,593,317	638,288
Etowah	3,090,660	1,027,360	1,344,659	814,546	1,327,826
Jackson	1,693,564	5,146,761	9,130,817	1,428,986	3,950,677
Jefferson	12,489,586	2,857,627	2,011,575	2,839,832	2,252,143
Madison	2,922,365	3,447,213	2,317,981	2,513,224	1,124,414
Marshall	1,582,008	1,141,841	1,778,344	890,008	844,336
Randolph	8,282,964	1,490,621	1,659,133	1,300,487	2,831,359
St. Clair	8,650,021	3,140,438	3,271,850	1,774,019	1,337,067
Shelby	10,211,051	3,171,140	2,585,382	1,357,421	609,905
Talladega	9,746,474	1,854,197	1,423,900	1,043,414	553,077
Tallapoosa	14,420,995	2,709,081	1,610,789	2,078,663	2,190,949
Total	143,792,628	44,965,861	47,742,574	28,010,670	28,715,649

GROWING STOCK VOLUME BY SPECIES – SOUTHEAST REGION

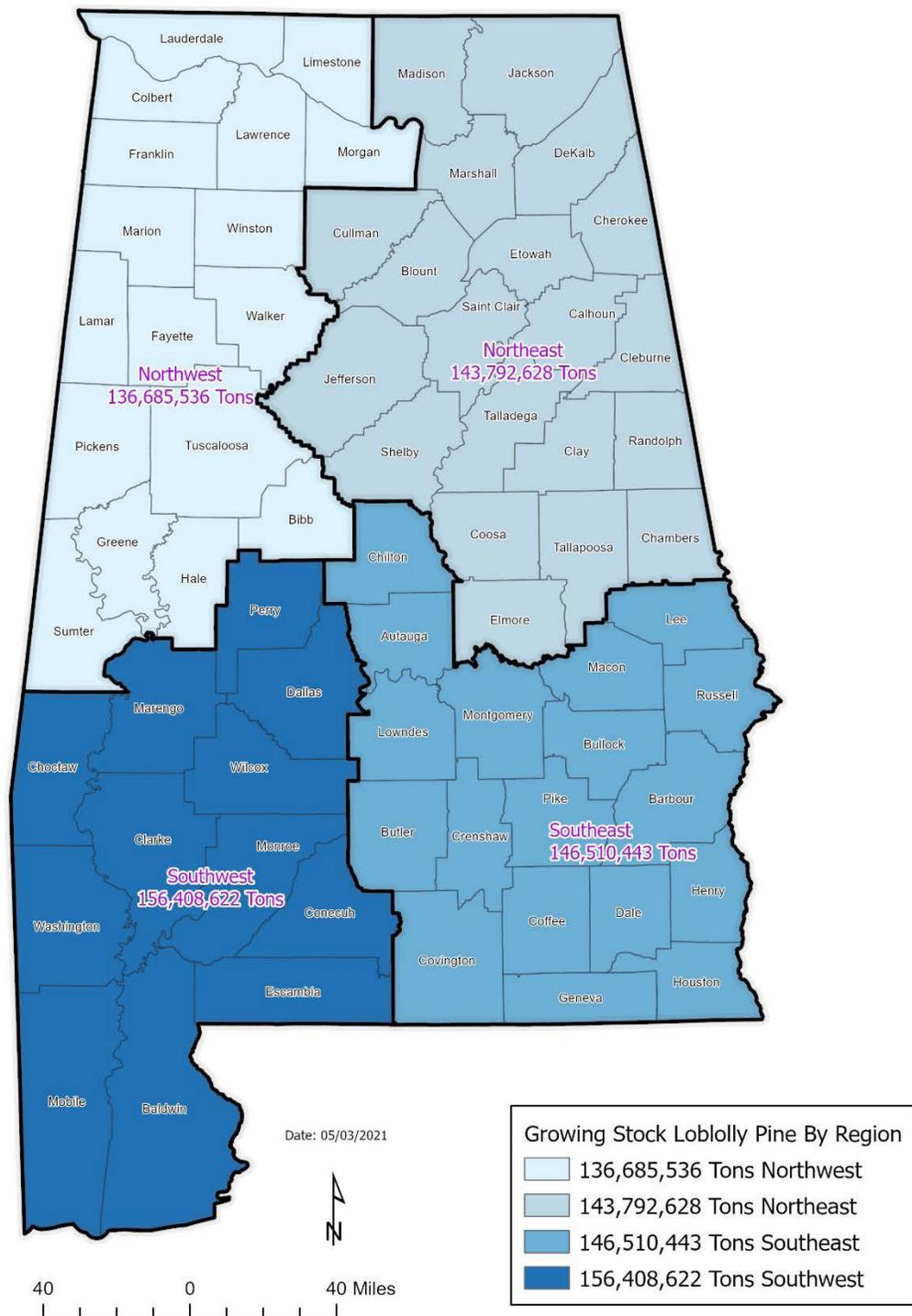
County	Loblolly Pine	Red Oak	White Oak	Sweetgum	Yellow-poplar
<i>Tons</i>					
Autauga	7,584,713	1,572,017	716,002	935,027	1,075,263
Barbour	11,997,403	2,801,339	1,174,872	1,894,962	615,038
Bullock	9,939,289	2,673,099	249,235	1,089,109	720,629
Butler	15,623,445	1,612,802	345,883	1,353,411	1,179,112
Chilton	7,483,491	2,022,773	1,673,384	1,393,624	1,725,709
Coffee	6,646,206	2,118,646	279,010	271,141	708,829
Covington	12,623,460	2,586,446	155,588	614,229	1,310,019
Crenshaw	8,615,568	1,874,073	495,008	813,396	1,376,870
Dale	3,976,040	3,080,051	273,842	1,377,834	1,410,458
Geneva	3,663,002	1,729,612	338,556	395,514	827,779
Henry	6,007,721	1,881,380	151,921	586,756	644,555
Houston	2,948,203	900,338	111,970	295,598	864,711
Lee	9,642,399	2,205,390	498,171	2,200,731	1,255,861
Lowndes	9,912,912	1,995,543	517,121	994,158	161,617
Macon	8,400,094	2,996,495	1,475,419	2,028,164	1,139,668
Montgomery	5,276,768	3,622,323	751,584	1,938,006	370,095
Pike	8,901,271	2,425,385	724,442	1,009,586	1,295,032
Russell	7,268,458	2,899,776	509,734	1,009,450	803,297
Total	146,510,443	40,997,485	10,441,742	20,200,695	17,484,539

GROWING STOCK VOLUME BY SPECIES – SOUTHWEST REGION

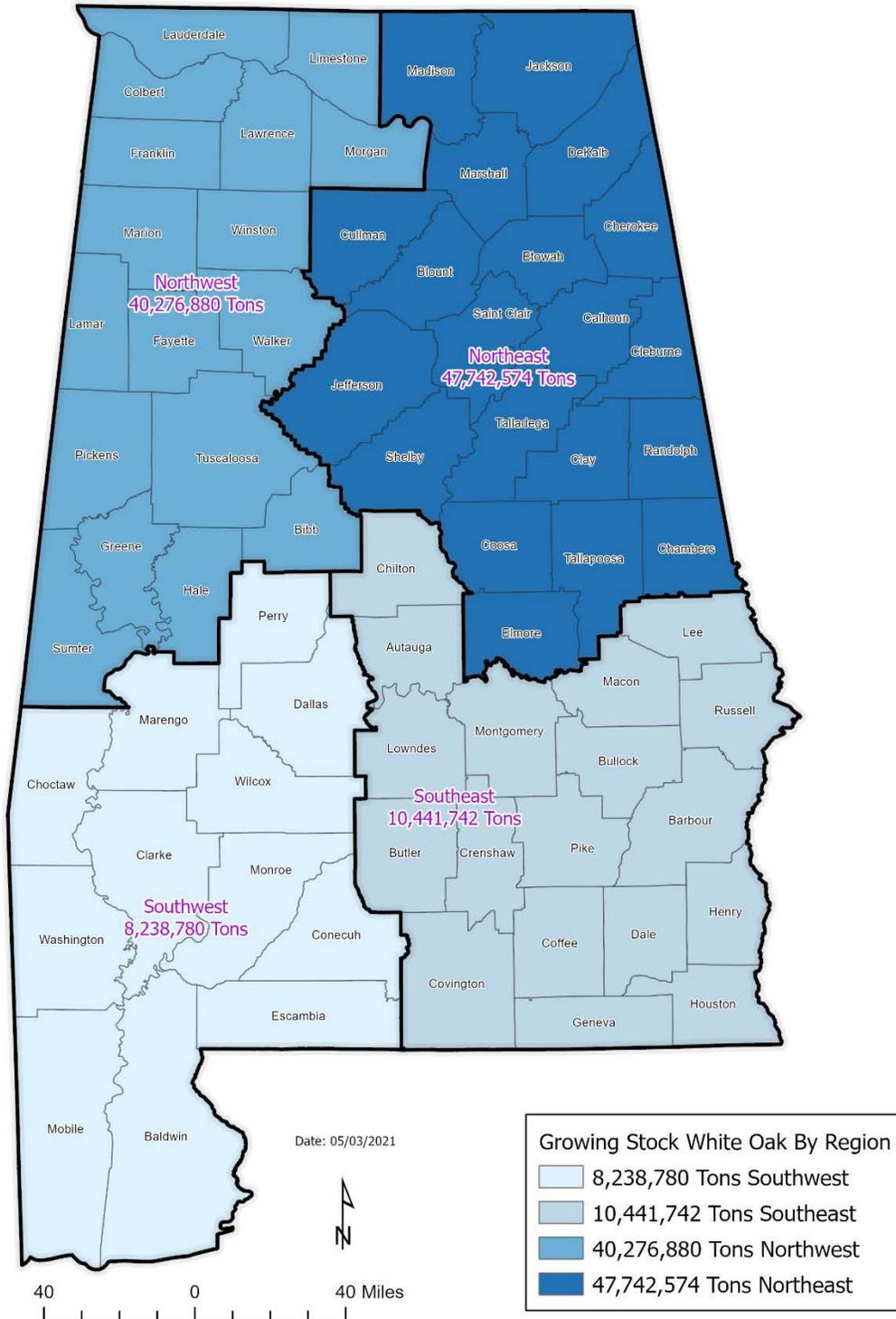
County	Loblolly Pine	Red Oak	White Oak	Sweetgum	Yellow-poplar
<i>Tons</i>					
Baldwin	10,567,917	3,617,954	315,733	393,636	1,065,240
Choctaw	18,679,499	2,054,945	1,189,511	3,864,113	1,094,836
Clarke	23,340,806	4,649,765	925,548	2,803,681	1,222,642
Conecuh	15,553,251	1,588,296	345,468	1,005,601	1,319,995
Dallas	9,134,666	3,745,254	957,513	2,338,042	703,616
Escambia	7,285,156	1,895,549	7,808	423,004	287,078
Marengo	14,219,756	4,562,867	903,975	2,843,430	1,299,326
Mobile	3,808,502	1,929,753	145,983	306,022	291,756
Monroe	17,229,512	2,446,840	1,232,811	3,088,319	309,509
Perry	10,566,874	2,222,038	461,285	1,402,286	1,120,294
Washington	13,234,723	3,925,667	652,843	1,303,620	1,545,938
Wilcox	12,787,962	3,725,533	1,100,303	2,518,620	704,121
Total	156,408,622	36,364,461	8,238,780	22,290,376	10,964,353

NOTES: Statistics come from 2020 Forest Inventory & Analysis (FIA) data.
Numbers in rows and columns may not sum due to rounding.

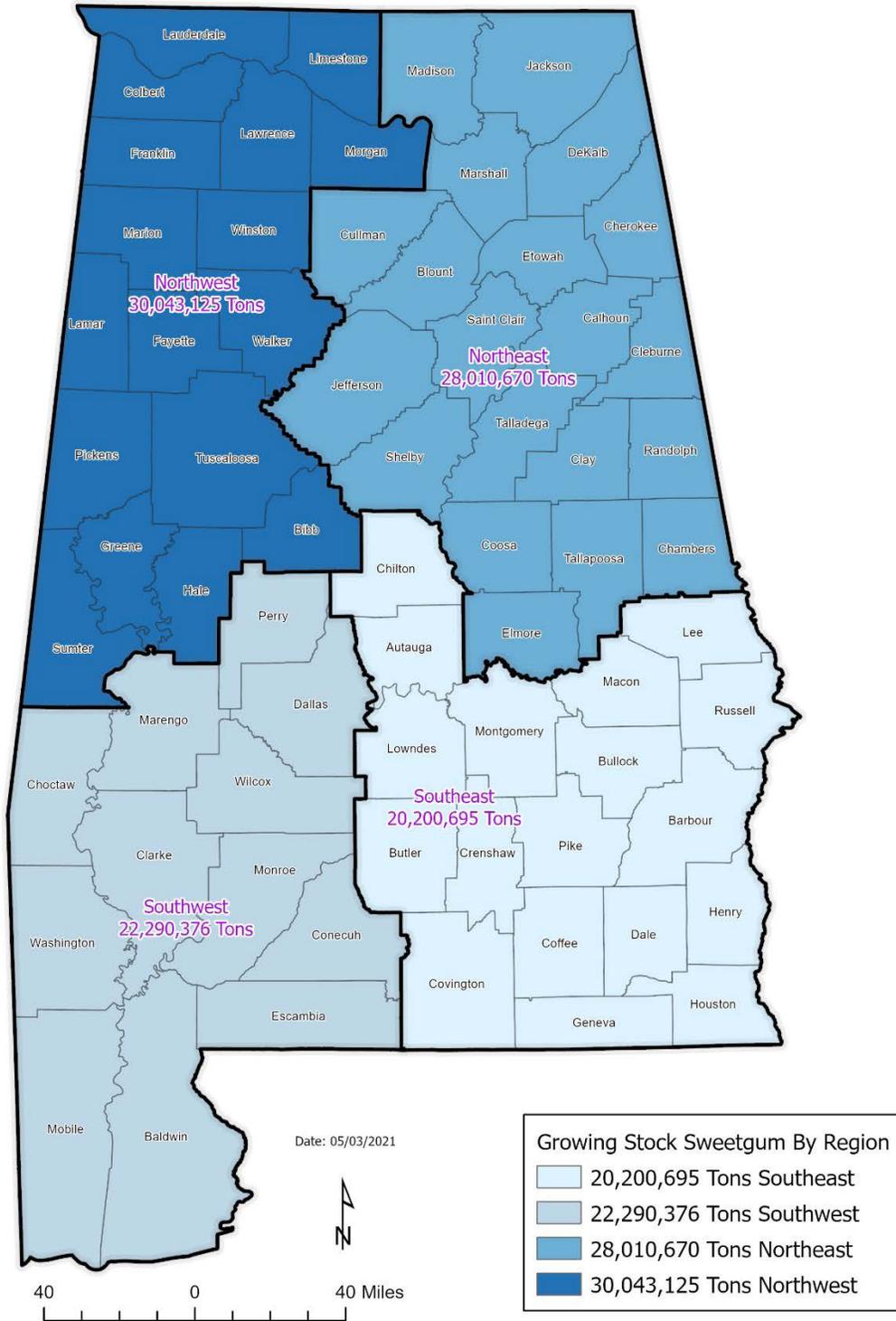
Growing Stock Loblolly Pine By Region



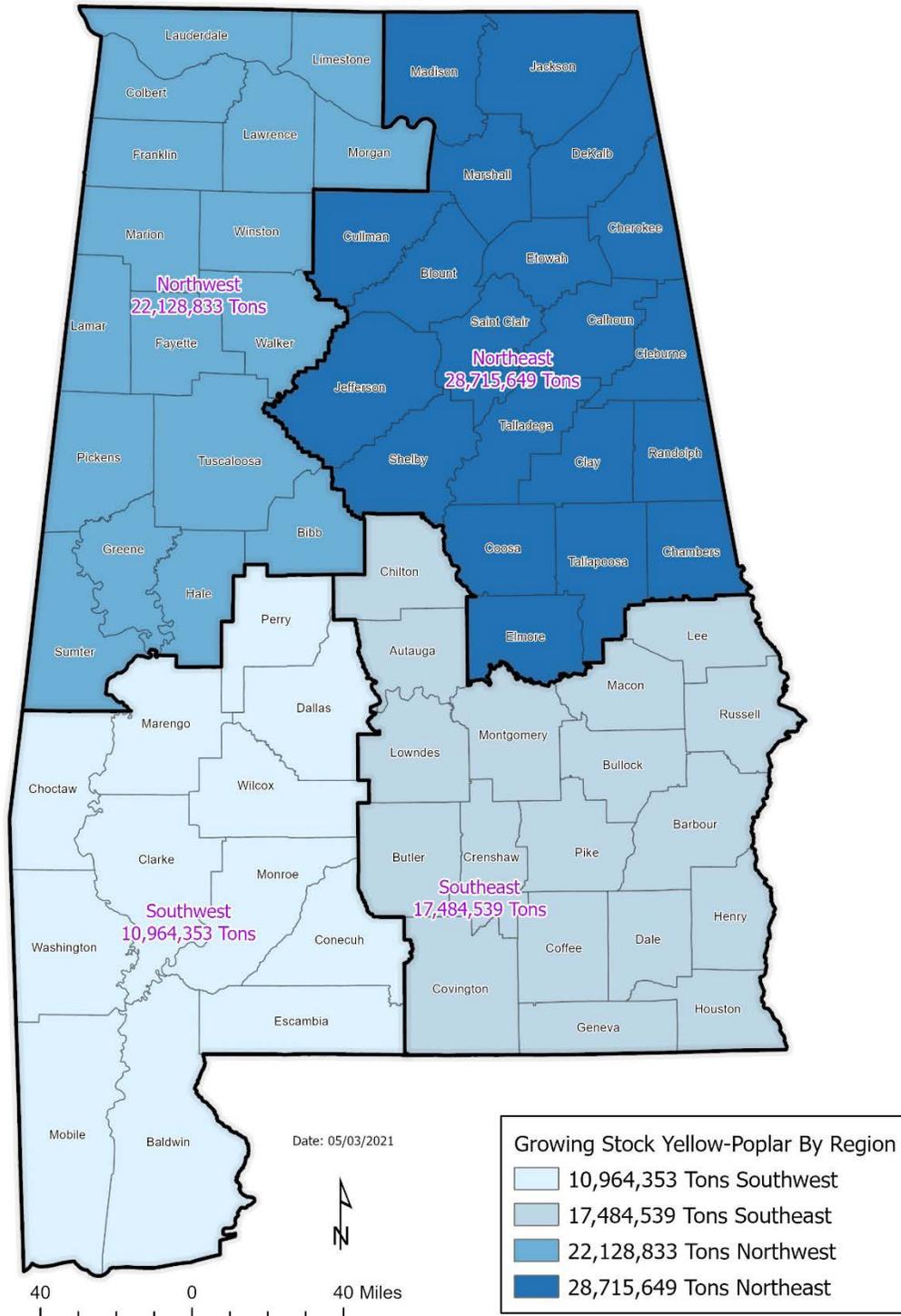
Growing Stock White Oak By Region



Growing Stock Sweetgum By Region



Growing Stock Yellow-Poplar By Region



Timber Average Annual Net Growth (total growth minus mortality)

- Average annual net growth of growing stock trees for softwood species is 52.9 million tons and for hardwood species it is 19.4 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 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	774,275	517,582	256,694
Colbert	653,899	333,345	320,554
Fayette	1,398,958	1,028,751	370,207
Franklin	935,227	583,149	352,078
Greene	1,029,412	698,047	331,365
Hale	892,446	549,781	342,664
Lamar	1,298,945	885,832	413,113
Lauderdale	315,612	113,180	202,432
Lawrence	328,753	142,876	185,878
Limestone	208,075	39,453	168,622
Marion	1,523,716	1,148,940	374,776
Morgan	507,759	122,803	384,956
Pickens	1,828,295	1,377,449	450,846
Sumter	1,494,281	1,102,315	391,966
Tuscaloosa	2,151,065	1,531,894	619,171
Walker	1,297,785	1,006,026	291,759
Winston	1,111,893	723,578	388,315
Total	17,750,396	11,905,000	5,845,396

AVERAGE ANNUAL NET GROWTH OF GROWING STOCK
BY MAJOR SPECIES GROUP

NORTHEAST REGION

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Blount	643,815	425,264	218,551
Calhoun	510,678	349,861	160,817
Chambers	1,322,147	1,062,449	259,697
Cherokee	736,378	513,596	222,782
Clay	876,421	559,787	316,633
Cleburne	743,076	487,739	255,337
Coosa	1,216,186	950,080	266,106
Cullman	591,731	334,707	257,024
DeKalb	436,532	184,726	251,806
Elmore	808,525	607,115	201,410
Etowah	494,232	334,680	159,552
Jackson	743,785	213,523	530,262
Jefferson	1,245,644	864,547	381,096
Madison	607,286	206,922	400,365
Marshall	128,481	92,334	36,148
Randolph	980,274	656,351	323,923
St. Clair	963,116	595,471	367,645
Shelby	1,051,234	842,626	208,608
Talladega	1,033,744	819,449	214,295
Tallapoosa	1,432,499	988,077	444,422
Total	16,565,783	11,089,306	5,476,478

AVERAGE ANNUAL NET GROWTH OF GROWING STOCK
BY MAJOR SPECIES GROUP

SOUTHEAST REGION

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Autauga	930,038	719,120	210,918
Barbour	1,520,915	1,172,351	348,564
Bullock	1,159,826	854,889	304,937
Butler	1,809,439	1,514,836	294,603
Chilton	1,105,894	769,458	336,437
Coffee	831,485	613,342	218,143
Covington	1,480,467	1,269,293	211,175
Crenshaw	1,008,295	831,829	176,465
Dale	517,604	331,443	186,161
Geneva	448,640	283,988	164,653
Henry	845,594	663,412	182,182
Houston	321,217	262,589	58,627
Lee	1,001,758	740,106	261,652
Lowndes	1,161,308	880,825	280,483
Macon	932,924	560,176	372,747
Montgomery	782,411	488,029	294,382
Pike	1,038,931	730,297	308,634
Russell	898,861	698,467	200,394
Total	17,795,607	13,384,449	4,411,157

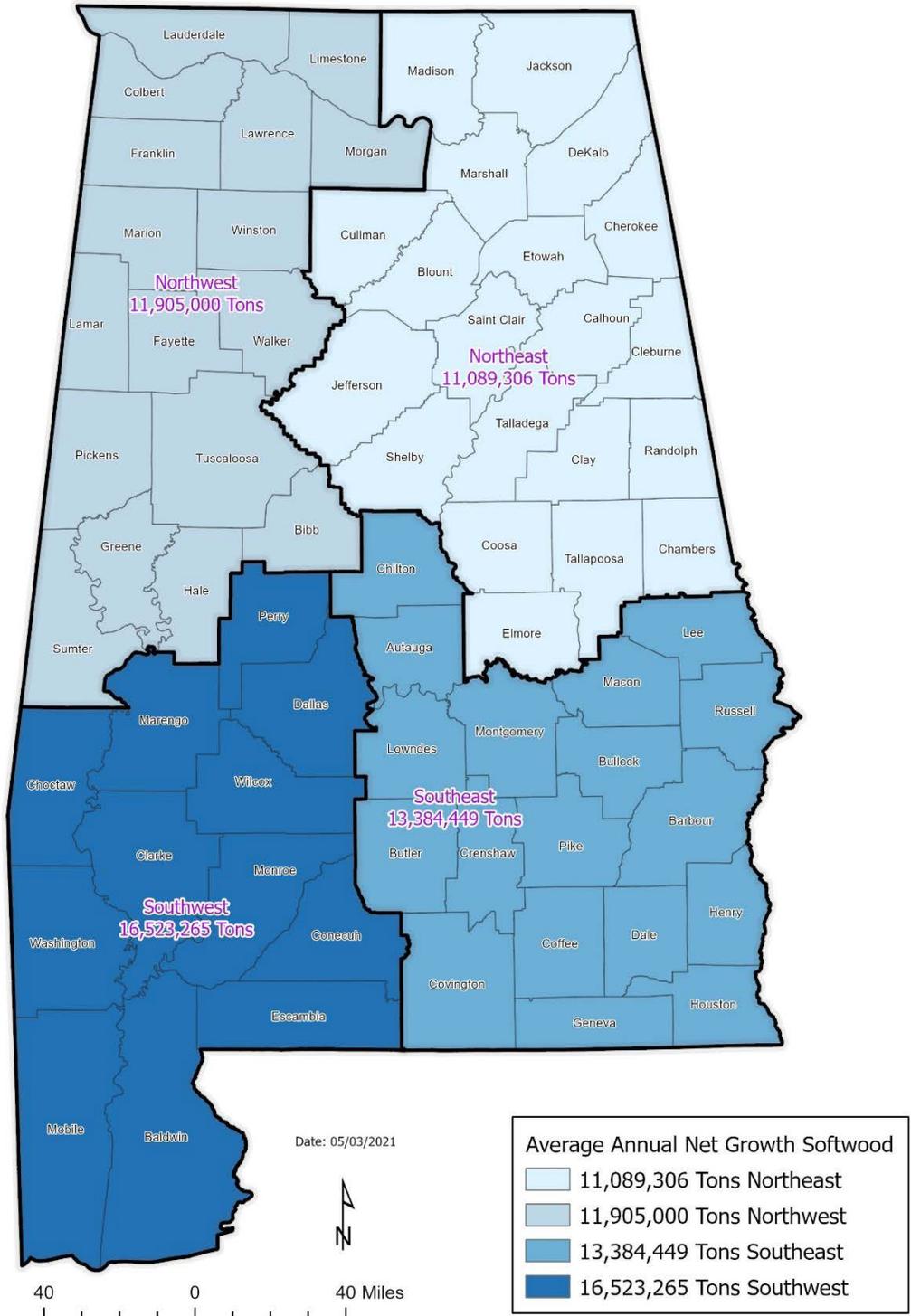
AVERAGE ANNUAL NET GROWTH OF GROWING STOCK
BY MAJOR SPECIES GROUP

SOUTHWEST REGION

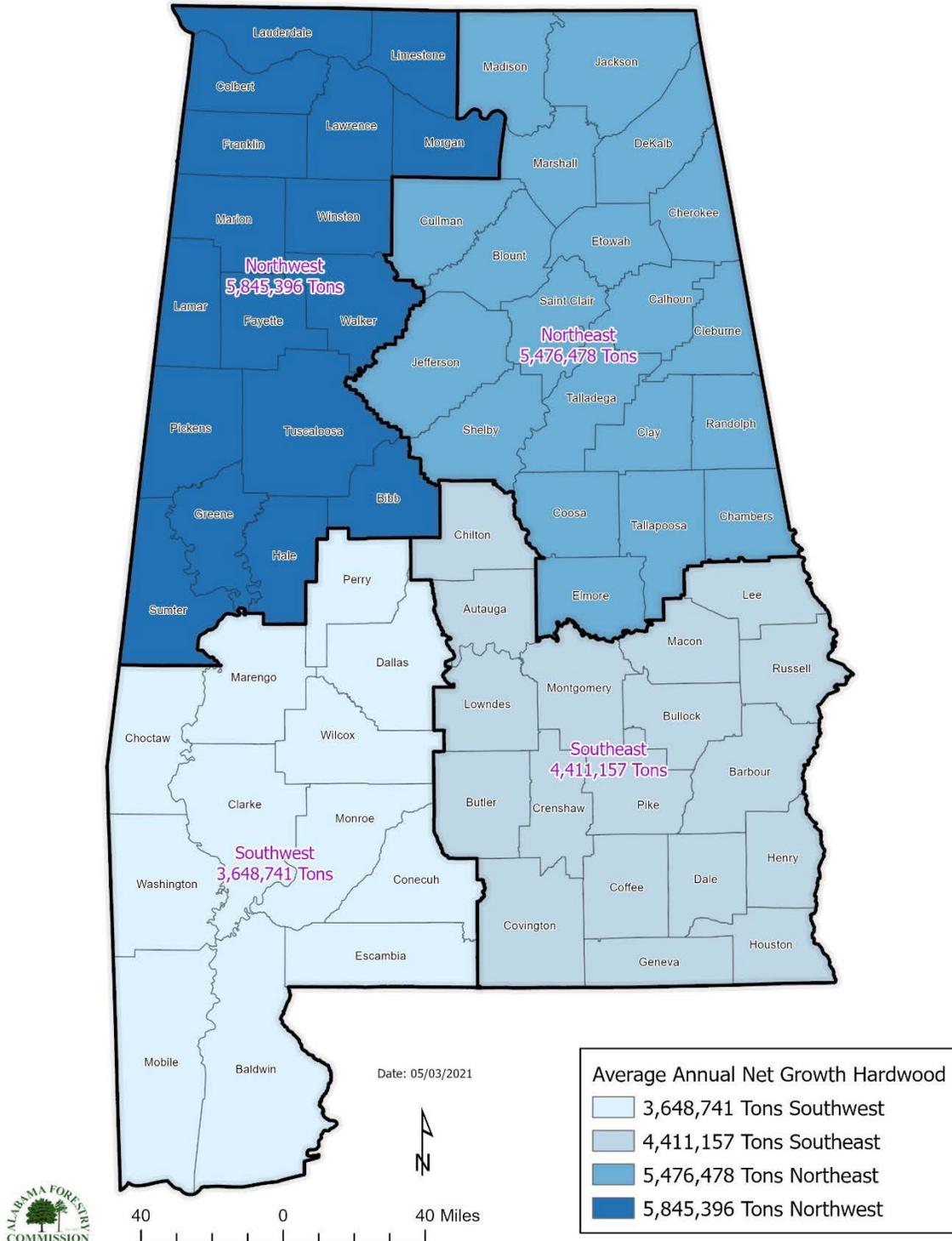
County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Baldwin	2,168,567	1,902,115	266,453
Choctaw	2,001,171	1,619,796	381,375
Clarke	2,485,118	2,068,986	416,132
Conecuh	1,728,159	1,523,220	204,939
Dallas	1,261,999	854,250	407,749
Escambia	1,362,564	1,316,351	46,213
Marengo	1,738,676	1,255,987	482,690
Mobile	889,103	729,967	159,136
Monroe	1,909,398	1,518,087	391,311
Perry	1,203,566	936,263	267,303
Washington	1,926,162	1,587,695	338,467
Wilcox	1,497,523	1,210,549	286,975
Total	20,172,006	16,523,265	3,648,741

NOTES: Statistics come from 2020 Forest Inventory & Analysis (FIA) data.
Numbers in rows and columns may not sum due to rounding.

Average Annual Net Growth Softwood By Region



Average Annual Net Growth Hardwood By Region



Timber Harvest Removals

Softwood timber volume removed annually as a result of harvesting is 29.8 million tons. Hardwood volume removed annually from timber harvesting is 9.3 million tons. Compared with the 2019 estimates, Softwood Removal shows a 1.58% decrease, whereas a 0.58% increase in Hardwood Removal was recorded.

- Volume of timber removed was greatest in the Southwest Region and lowest in the Northeast Region. The Northwest Region saw the greatest volume of Hardwood Removals. Tonnage was nearly unchanged from 2019 estimate. The Southwest Region saw the greatest volume of Softwood Removals. Tonnages recorded were at 1.9% more than the 2019 estimate.

AVERAGE ANNUAL REMOVALS OF GROWING STOCK BY MAJOR SPECIES GROUP

NORTHWEST REGION

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Bibb	193,798	170,563	23,235
Colbert	130,586	90,238	40,348
Fayette	849,340	648,404	200,936
Franklin	915,966	680,551	235,414
Greene	564,101	482,150	81,951
Hale	505,247	463,493	41,753
Lamar	854,533	332,888	521,645
Lauderdale	96,568	43,882	52,686
Lawrence	63,009	54,906	8,103
Limestone	112,283	0	112,283
Marion	873,501	627,810	245,690
Morgan	233,895	27,996	205,899
Pickens	716,883	572,187	144,696
Sumter	984,746	682,903	301,842
Tuscaloosa	1,230,146	973,400	256,745
Walker	387,854	268,086	119,768
Winston	438,757	332,280	106,477
Total	9,151,211	6,451,739	2,699,472

AVERAGE ANNUAL REMOVALS OF GROWING STOCK
BY MAJOR SPECIES GROUP

NORTHEAST REGION

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Blount	273,480	243,364	30,116
Calhoun	380,846	223,097	157,749
Chambers	894,240	658,688	235,552
Cherokee	317,950	213,102	104,848
Clay	387,863	313,375	74,488
Cleburne	495,379	406,261	89,118
Coosa	887,517	741,062	146,455
Cullman	245,085	89,718	155,367
DeKalb	224,095	157,752	66,343
Elmore	384,668	297,537	87,132
Etowah	585,344	373,930	211,414
Jackson	342,476	109,533	232,942
Jefferson	519,281	360,608	158,673
Madison	26,606	0	26,606
Marshall	162,477	80,807	81,670
Randolph	624,330	568,107	56,223
St. Clair	432,550	282,325	150,225
Shelby	566,113	412,397	153,716
Talladega	559,495	502,078	57,417
Tallapoosa	651,795	474,567	177,228
Total	8,961,591	6,508,308	2,453,283

AVERAGE ANNUAL REMOVALS OF GROWING STOCK
BY MAJOR SPECIES GROUP

SOUTHEAST REGION

County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Autauga	550,902	484,520	66,382
Barbour	914,184	793,702	120,482
Bullock	646,246	560,955	85,291
Butler	978,078	844,400	133,678
Chilton	501,658	466,397	35,260
Coffee	393,922	337,080	56,842
Covington	689,066	606,303	82,763
Crenshaw	878,518	766,805	111,713
Dale	220,621	193,259	27,362
Geneva	223,947	183,497	40,450
Henry	722,844	540,899	181,945
Houston	278,874	207,439	71,434
Lee	486,447	381,764	104,683
Lowndes	624,351	498,375	125,975
Macon	435,542	315,196	120,346
Montgomery	263,204	160,277	102,927
Pike	472,958	411,729	61,229
Russell	599,661	323,937	275,724
Total	9,881,021	8,076,535	1,804,487

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

SOUTHWEST REGION

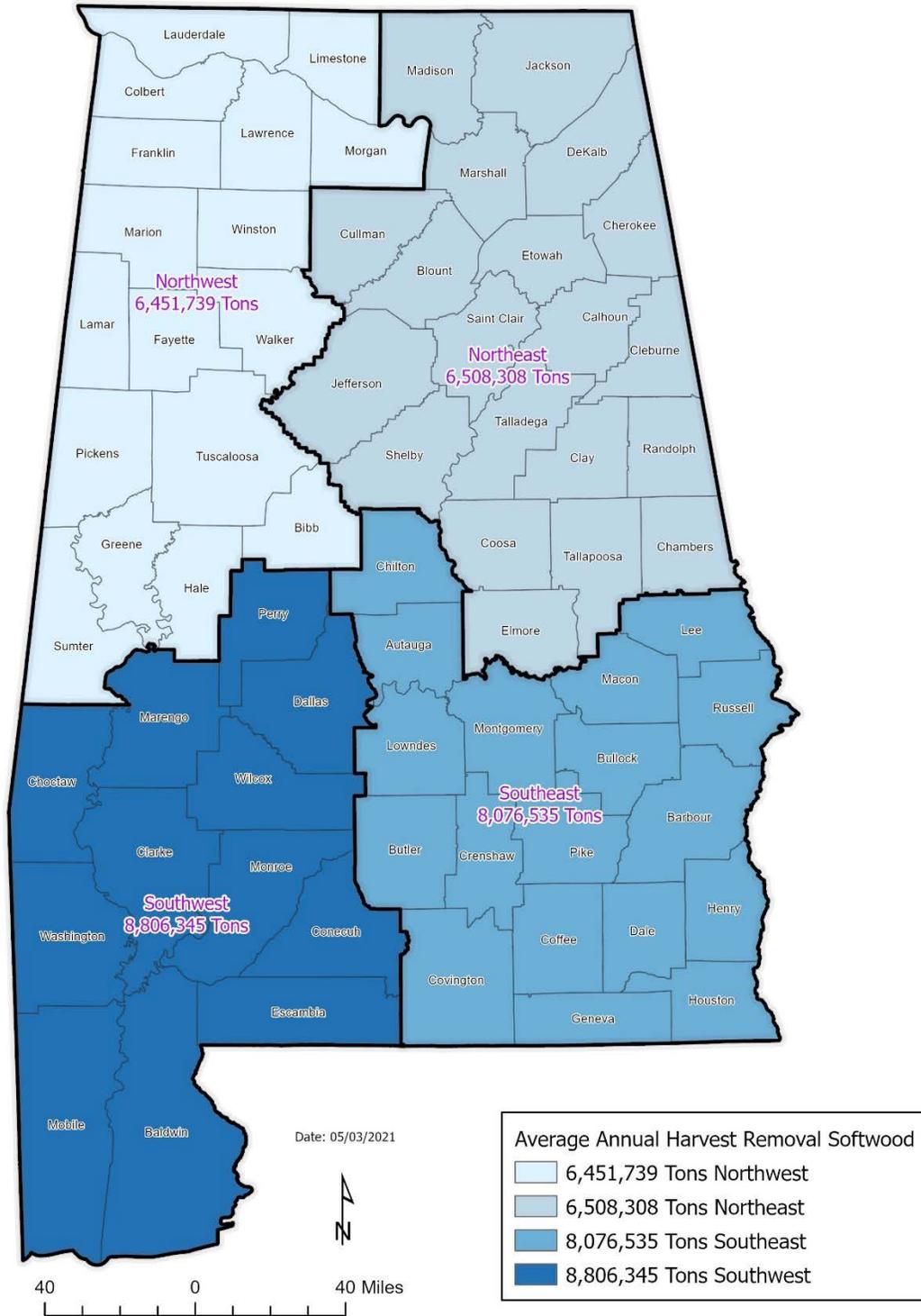
County	Total	Softwoods	Hardwoods
<i>Tons</i>			
Baldwin	601,942	589,632	12,310
Choctaw	1,456,661	1,052,324	404,337
Clarke	1,341,382	1,092,132	249,250
Conecuh	890,572	704,102	186,470
Dallas	678,294	375,657	302,637
Escambia	644,293	633,590	10,702
Marengo	808,264	467,665	340,598
Mobile	519,984	466,249	53,736
Monroe	1,104,961	819,280	285,681
Perry	657,065	609,806	47,259
Washington	1,324,980	1,076,283	248,698
Wilcox	1,093,945	919,625	174,320
Total	11,122,343	8,806,345	2,315,998

NOTES: Statistics come from 2020 Forest Inventory and Analysis (FIA) data.

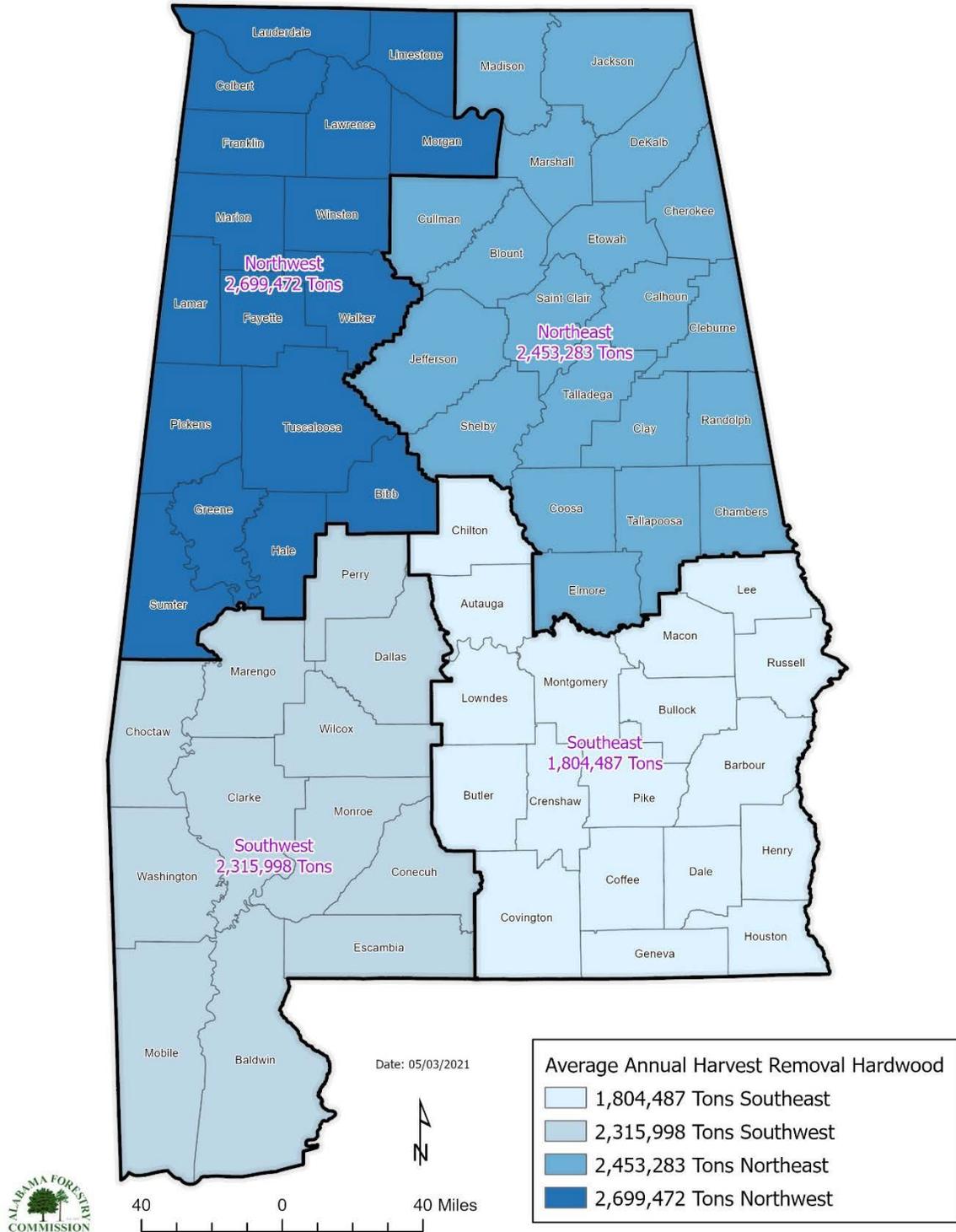
Numbers in rows and columns may not sum due to rounding.

A “0” value does not mean that no timber was 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.

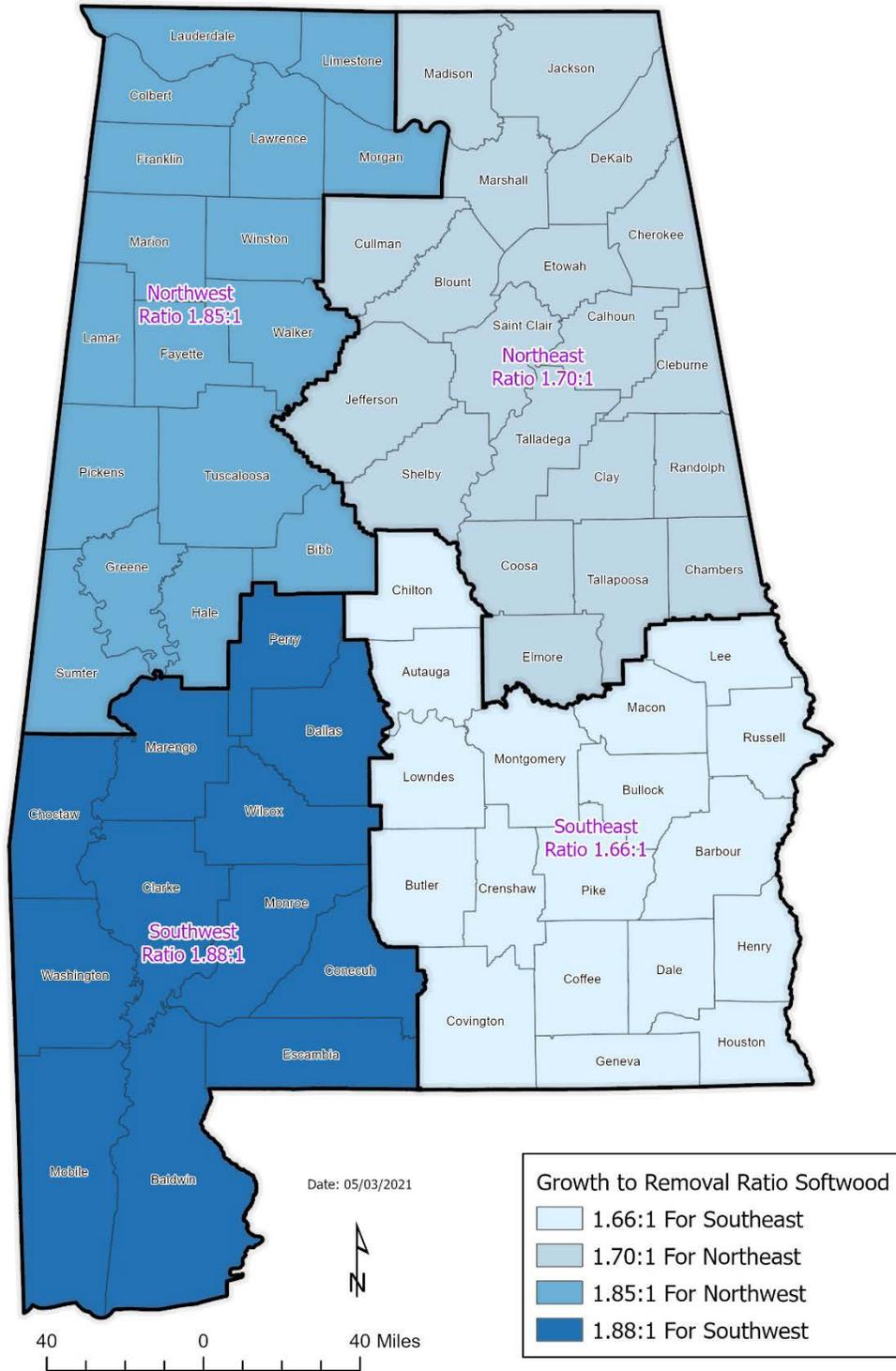
Average Annual Harvest Removal Softwood By Region



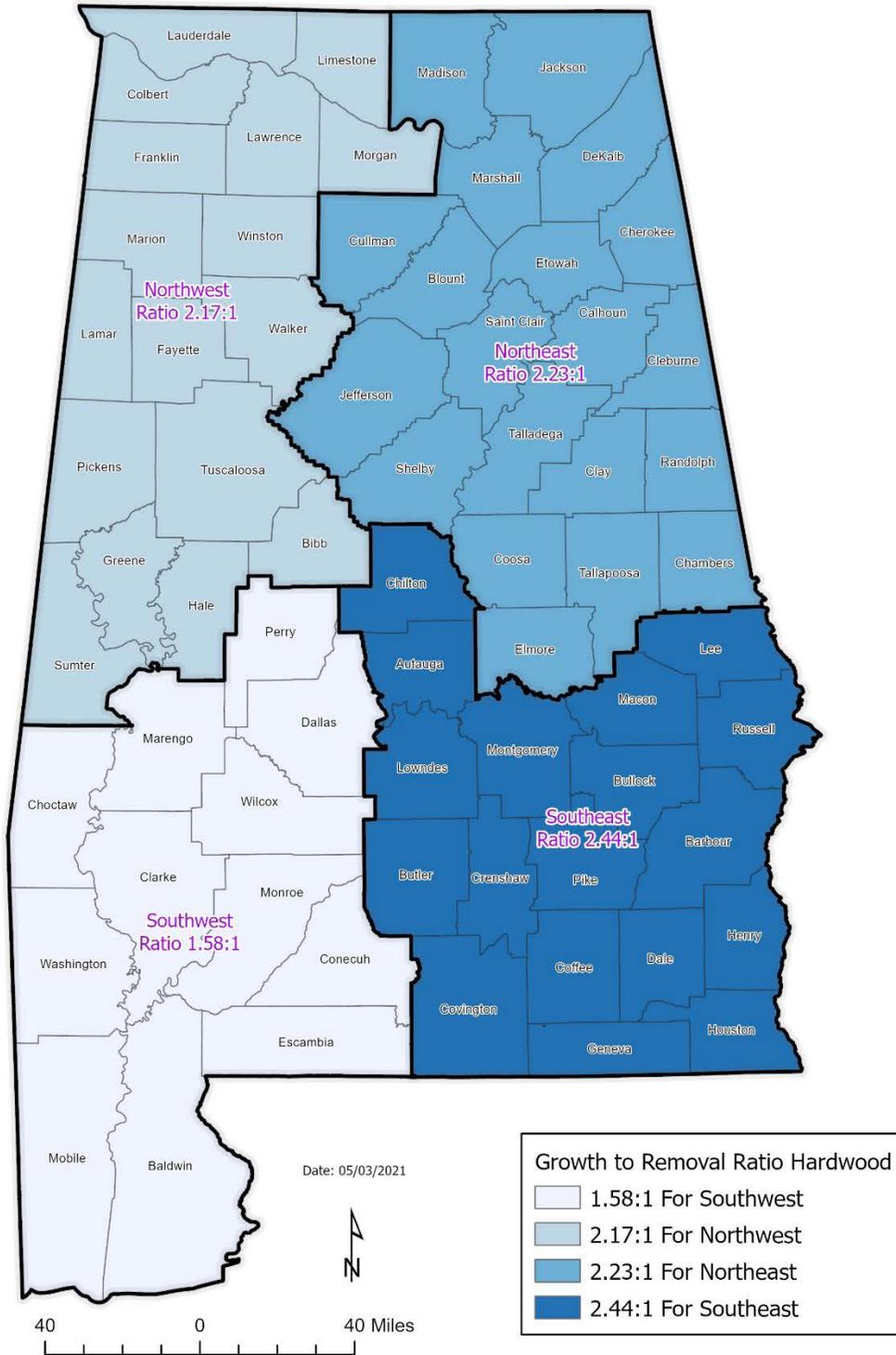
Average Annual Harvest Removal Hardwood By Region



Growth to Removal Ratio Softwoods



Growth to Removal Ratio Hardwoods



2020 Timber Harvest Volume

- By tonnage, Pine Sawtimber harvests accounted for 43% of the total harvests in 2020 (see chart on page 49). Hardwood Sawtimber accounted for 2% of the harvest, and 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 53% 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 South region, the number of starts was 278,200. This number increased steadily in each of the next ten years, and then further increased to 735,500 in 2020. For the nation, according to the most recent Census data (Mar 2021) 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 934,000 in April and then regained upward momentum. The Seasonally Adjusted Annual Rate of New Housing Starts in December 2020 was 1,670,000 units, which was the highest number of the year. A highly informative, highly readable 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.
- The following quote is taken from last year's 2019 Forest Resource Report: "The housing market, like many things in 2020, is proving difficult to predict." A pandemic followed by an unprecedented lumber price 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. Changes to federal policy, including tax policy, will have implications for industry and the forest itself.
- In international trade, a devastating combination of spruce bark beetle and windstorms has decimated Central European softwood forests, leading to massive salvage cut operations and increases of low-cost lumber exports to China and other markets around the world. These impacts are now being estimated as greater than early forecasts and could affect global trade flows for years to come. For Canada, mountain pine beetles have destroyed approximately 10 years of lumber supplies and reduced the allowable harvest by 40%. Since 2005, about 40 sawmills have been closed there in response to U.S. housing market challenges and beetle kill. Many Canadian firms have added to their footprint in the U.S. South to be better positioned for the future.
- 2019 was a year of quarter-by-quarter declines for lumber prices. 2020 was different. Prices rose in the 1st Quarter, dropped sharply in April in anticipation of a depressed economy, then began to surge in May. Record high prices in August were quickly surpassed in September. Prices returned closer to "normal" levels in the 4th Quarter. The records were being re-written again through the first half of 2021.

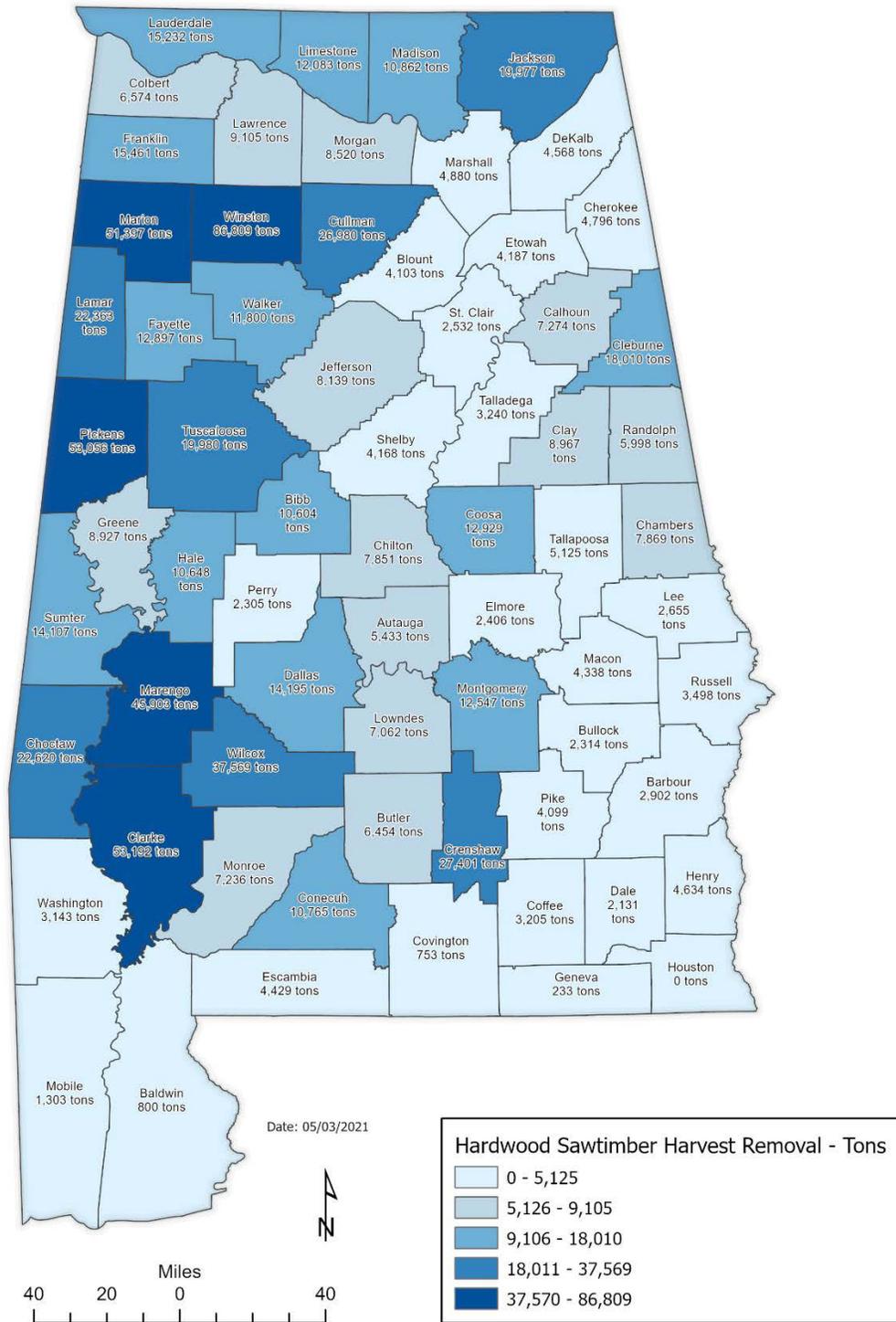
Table 1. Production of Forest Products by Product and County for Calendar Year 2020.
 This data provided by the Alabama Department of Revenue – Forest Product Severance Tax Records.

County	Pine Sawtimber (Tons)	Hardwood Sawtimber (Tons)	Pulpwood All-Species (Tons)	Poles and Piles (Tons)	Total Severance (Tons)
AUTAUGA	152,609	5,433	313,471	769	472,282
BALDWIN	648,210	800	784,918	32,316	1,466,244
BARBOUR	446,424	2,902	646,703	1,938	1,097,966
BIBB	191,434	10,604	277,719	27,922	507,678
BLOUNT	42,137	4,103	107,566	1,385	155,191
BULLOCK	260,632	2,314	312,551	3,455	578,952
BUTLER	597,776	6,454	524,290	18,097	1,146,618
CALHOUN	152,051	7,274	161,980	1,139	322,444
CHAMBERS	616,890	7,869	305,603	6,958	937,321
CHEROKEE	140,320	4,796	122,256	867	268,239
CHILTON	214,473	7,851	351,513	12,172	586,010
CHOCTAW	343,918	22,620	726,736	17,141	1,110,415
CLARKE	831,776	53,192	1,112,457	38,299	2,035,725
CLAY	300,128	8,967	348,281	8,119	665,495
CLEBURNE	262,307	18,010	378,583	1,844	660,743
COFFEE	197,570	3,205	379,492	4,443	584,709
COLBERT	14,655	6,574	56,428	0	77,657
CONECUH	636,577	10,765	728,554	30,776	1,406,673
COOSA	417,555	12,929	460,601	25,781	916,865
COVINGTON	398,878	753	424,443	20,937	845,012
CRENSHAW	423,180	27,401	434,621	19,977	905,179
CULLMAN	24,938	26,980	120,753	122	172,792
DALE	28,297	2,131	147,754	707	178,890
DALLAS	208,662	14,195	425,023	6,046	653,927
DEKALB	19,785	4,568	86,563	0	110,916
ELMORE	88,111	2,406	153,544	1,645	245,705
ESCAMBIA	265,035	4,429	548,373	24,007	841,844
ETOWAH	67,238	4,187	76,658	251	148,333
FAYETTE	354,741	12,897	249,818	7,963	625,419
FRANKLIN	146,022	15,461	322,181	0	483,664
GENEVA	28,407	233	117,083	3,452	149,175
GREENE	376,663	8,927	203,968	9,962	599,520
HALE	118,610	10,648	152,907	6,067	288,233
HENRY	309,415	4,634	322,485	484	637,017
HOUSTON	55,475	0	118,254	801	174,530
JACKSON	12,467	19,977	86,090	0	118,535
JEFFERSON	116,815	8,139	121,675	260	246,889

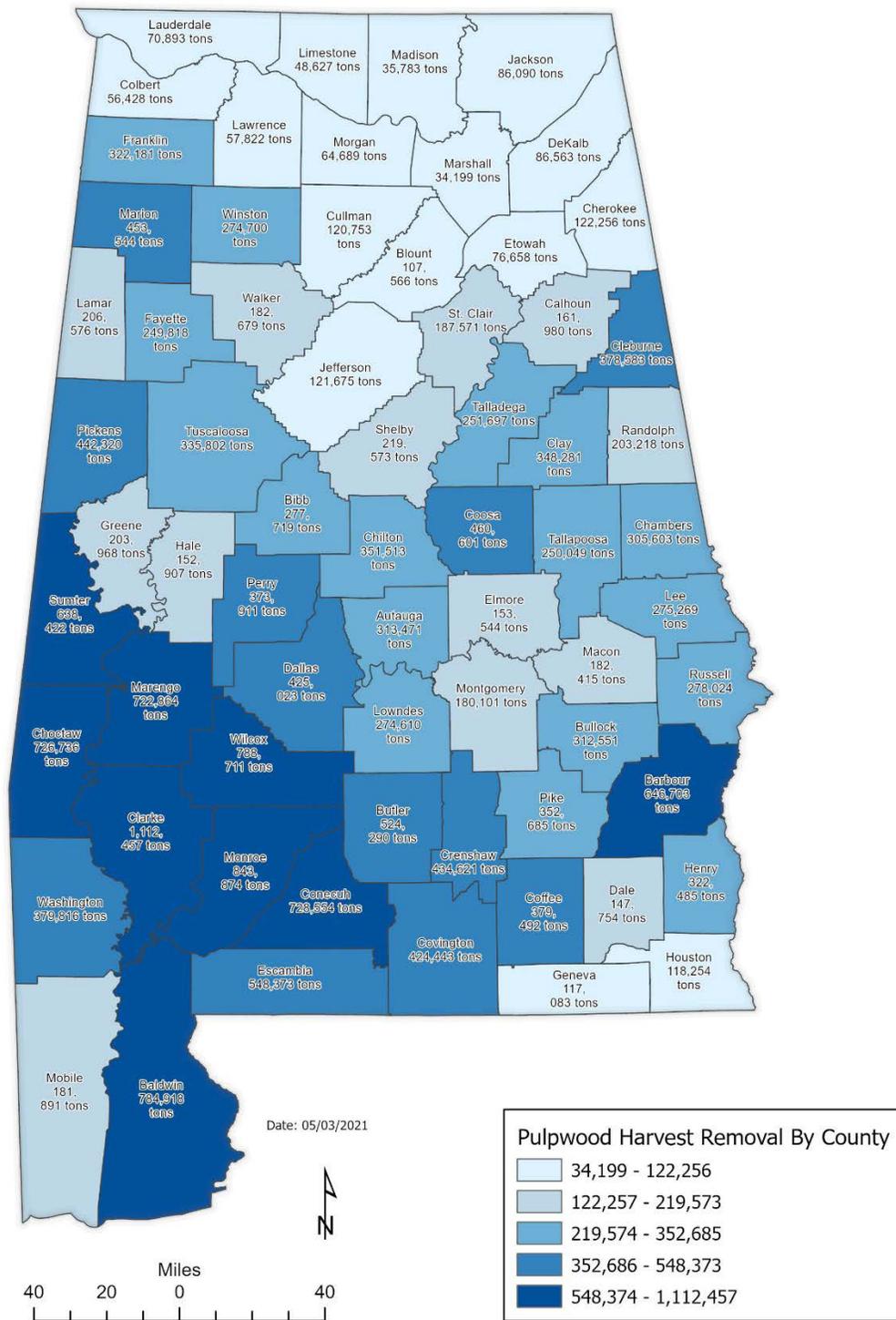
LAMAR	272,552	22,363	206,576	3,167	504,658
LAUDERDALE	24,733	15,232	70,893	0	110,857
LAWRENCE	22,721	9,105	57,822	0	89,649
LEE	211,567	2,655	275,269	3,039	492,531
LIMESTONE	25,573	12,083	48,627	0	86,283
LOWNDES	196,159	7,062	274,610	2,489	480,320
MACON	173,552	4,338	182,415	1,530	361,835
MADISON	12,997	10,862	35,783	0	59,642
MARENGO	419,009	45,903	722,864	11,436	1,199,212
MARION	332,575	51,397	453,544	1,874	839,389
MARSHALL	16,474	4,880	34,199	0	55,554
MOBILE	296,481	1,303	181,891	5,212	484,887
MONROE	579,186	7,236	843,874	26,178	1,456,475
MONTGOMERY	142,920	12,547	180,101	269	335,837
MORGAN	11,133	8,520	64,689	57	84,398
PERRY	287,054	2,305	373,911	3,039	666,308
PICKENS	556,867	53,056	442,320	4,287	1,056,530
PIKE	333,709	4,099	352,685	2,957	693,450
RANDOLPH	265,776	5,998	203,218	2,967	477,958
RUSSELL	227,615	3,498	278,024	182	509,319
ST. CLAIR	55,600	2,532	187,571	190	245,893
SHELBY	176,754	4,168	219,573	19,615	420,111
SUMTER	443,143	14,107	638,422	19,727	1,115,398
TALLADEGA	181,180	3,240	251,697	5,384	441,503
TALLAPOOSA	397,414	5,125	250,049	14,125	666,714
TUSCALOOSA	427,991	19,980	335,802	3,250	787,022
WALKER	285,860	11,800	182,679	2,819	483,159
WASHINGTON	525,318	3,143	379,816	6,312	914,589
WILCOX	413,044	37,569	788,711	13,893	1,253,217
WINSTON	120,297	86,809	274,700	0	481,806

Totals	16,945,437	837,543	21,004,232	490,099	39,277,311
2020 vs 2019	+5.2%	-27.0%	-6.4%	-1.0%	-2.2%

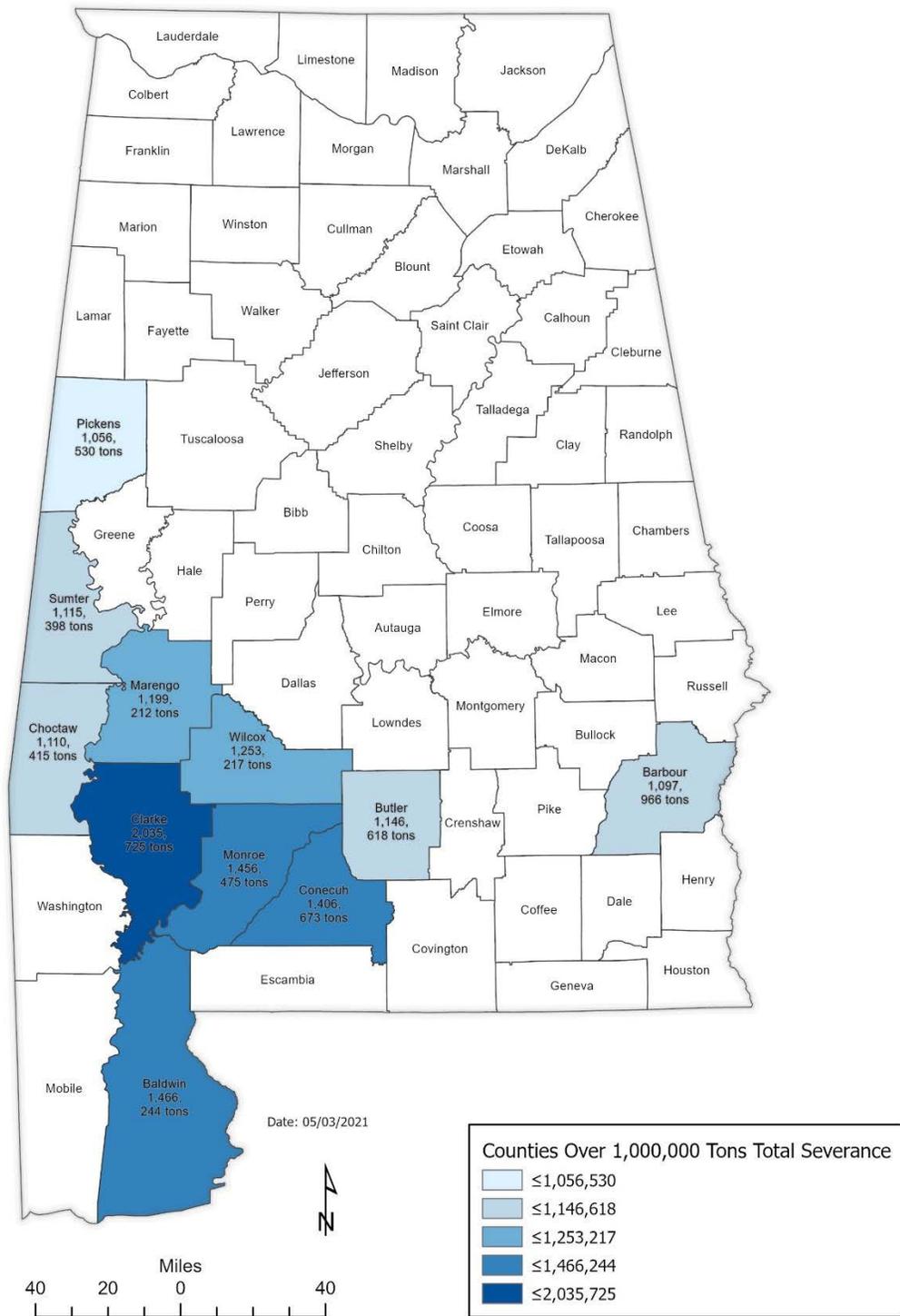
Hardwood Sawtimber Harvest Removal By County



Pulpwood Harvest Removal By County



Counties Over 1,000,000 Tons Total Severance



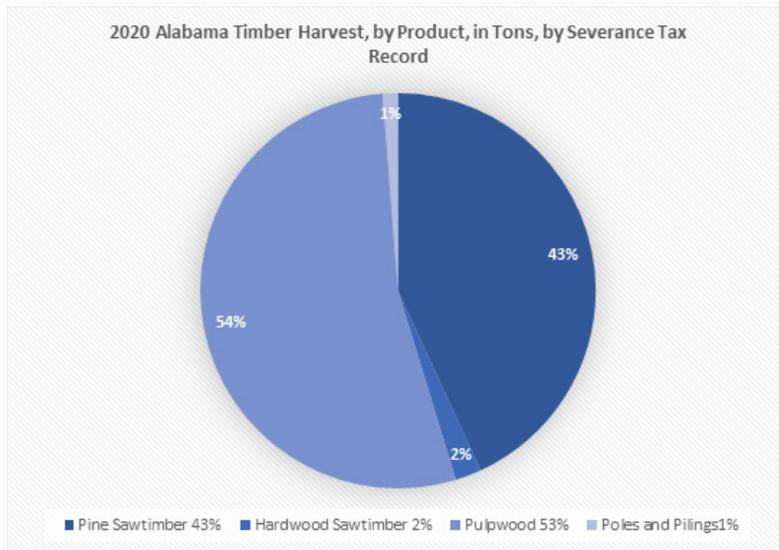


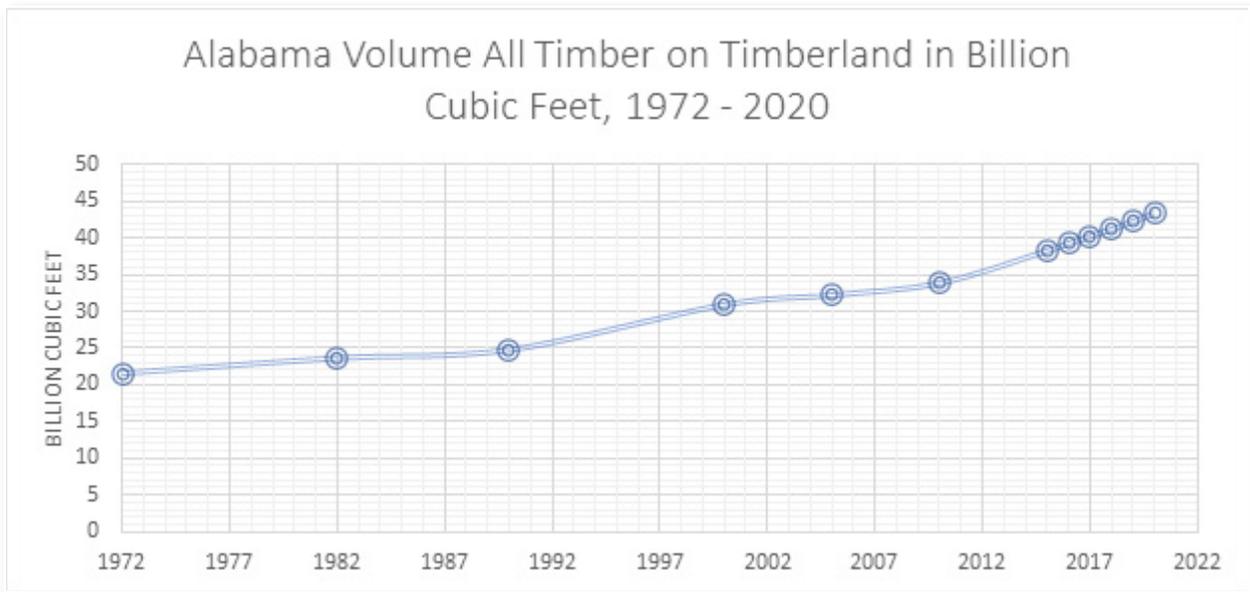
2020 Timber Price Trends

PRODUCT	2020 Stumpage Prices		2019 Stumpage Prices	
	Price (Region 1)	Price (Region 2)	Price (Region 1)	Price (Region 2)
Pine Sawtimber	\$22.60/ton	\$24.10/ton	\$23.01/ton	\$23.93/ton
Hardwood Sawtimber	\$38.50/ton	\$33.09/ton	\$41.98/ton	\$38.17/ton
Pine Pulpwood	\$5.52/ton	\$8.16/ton	\$6.06/ton	\$8.99/ton
Hardwood Pulpwood	\$14.52/ton	\$12.49/ton	\$18.44/ton	\$15.62/ton

Data obtained from Timber Mart South, 2018 and 2019. 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.





An inescapable truth when it comes to timber price trends 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. Although 2020 saw a strong recovery, quarters where demand was impacted negatively dampened the yearly price averages shown above. Record high lumber prices, new capacity coming online, and high capacity utilization will provide support for 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 concerns 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 \$11.1 billion in annual value to the economy and had a total tax output of \$2.2 billion using the most recent data available. 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 1,472 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.

<p>1,472</p> <p>Payrolled Business Locations</p> <p>Payrolled business locations increased by 66 over the last 5 years.</p>	<p>44,122</p> <p>Jobs</p> <p>Jobs increased by 3,044 over the last 5 years. Projected to increase by 1,526 over the next 5 years.</p>	<p>2.57</p> <p>Concentration</p> <p>Regional job concentration is 2.57 times the national job concentration.</p>	<p>\$64.9K</p> <p>Earnings Per Job</p> <p>Regional earnings per job are \$53.6 above the national earnings per job of \$64.8K.</p>
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Source: Alabama Department of Commerce/AIDT, Emsi, Q1, 2021

Alabama’s industry rankings relative to the U.S. is 2nd in pulp production, 2nd in paper and paperboard production, 3rd in lumber, and 6th in panel production. Further, the state exported approximately \$1.29 billion in forest products to international market destinations in 2020. The three top destination nations for Alabama forest product exports were China followed by Canada followed by Mexico. (Alabama Department of Commerce).

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 2020, there were 30 total new and expanding announcements including 814 job creations and approximately \$283 million in announced capital investment. Although these numbers were not as high as previous years, allowance must be made for 2020 being the most atypical year in memory.

Forest Products Totals for New & Expanding Industry 2011 - 2020			
Year	Total Projects	Total Jobs	Total Capital Investment
2020	30	814	\$282,522,590
2019	30	654	\$467,095,232
2018	54	1,975	\$1,304,165,269
2017	47	1,464	\$1,284,628,303
2016	50	1,005	\$1,196,773,911
2015	43	917	\$897,061,100
2014	33	799	\$640,750,000
2013	35	1,385	\$209,526,000
2012	31	1,235	\$302,599,400
2011	24	566	\$161,297,013



2020 New & Expanding Forest Industry Announcements							
N/E	County	Company	City	NAICS	Business Activity	Jobs	Investment (\$)
E	Barbour	Southeast Alabama Forest Products Manufacturing, Inc.	Louisville	321113	Sawmill	5	41,000,000
E	Butler	Coastal Forest Products	Greenville	321212	Forest Products	0	7,210,000
E	Clay	Integrity Cabinets	Lineville	337110	Cabinet Manufacturing	45	4,700,000
E	Clay	Tru Cabinetry	Ashland	337110	Cabinet Manufacturing	10	4,433,890
E	Clay	Wellborn Cabinets	Ashland	337110	Cabinet Manufacturing	15	0
N	Cullman	BBLU	Vinemont	322211	Food Grade Bulk Shipping Boxes	16	1,000,000
E	Cullman	Buettner Brothers Lumber	Cullman	321214	Roof Trusses	0	120,000
E	Cullman	Cullman Cabinet	Cullman	337110	Cabinets and Countertops	0	380,610
E	Cullman	I-Core Composite	Cullman	321219	Balsa Wood Core Material	0	19,000
E	Cullman	Littrell Brothers Lumber Co.	Cullman	321211	Pressure Lumber Treatment	4	0
E	Cullman	Rusken Packaging	Cullman	322211	Corrugated Boxes	40	2,000,000
E	Jackson	West Rock Corp.	Stevenson	322130	Paper Mill	0	14,900,000
E	Lauderdale	Kith Kitchens LLC	Florence	337110	Mfg Kitchen Cabinets and Counter Tops	131	11,000,000
E	Lauderdale	Thacker Caskets	Florence	339995	Burial Caskets Manufacturer	20	2,000,000
N	Marengo	Pinnacle Renewable Energy	Demopolis	321999	Wood Product Manufacturing	45	95,000,000
N	Marion	Timber Creek Homes	Marion	321991	Manufacturing Housing	150	5,000,000
E	Monroe	Harrigan Lumber Inc.	Monroeville	321113	Sawmill	0	26,189,090
E	Montgomery	Bishop Cabinets	Montgomery	337110	Wood Cabinet Manufacturing	0	275,000
E	Montgomery	STS Filing Products Inc.	Montgomery	322230	Stationary Product Manufacturing	6	0
E	Montgomery	Wurth Wood Group	Montgomery	321211	Lumber Warehouse/Distribution	0	180,000
E	Montgomery	Capital Container Inc.	Montgomery	322211	Corrugated Box Manufacturing	15	0
E	Morgan	Applegate Fibers South (Formerly Cell Pak)	Decatur	238310	Cellulose Insulation Manufacturing	0	125,000
N	Randolph	OMM Timber	Wadley	32113	Sawmill	22	2,500,000
E	Randolph	JELD-WEN	Wedowee	321911	Doors and Windows Manufacturing	40	1,000,000
E	Shelby	Printswell	Pelham	541430	Paper Products Manufacturing	25	6,625,000
N	St. Clair	Dixie Bulk Bags	Leeds	322220	Manufacturers Bulk Bags	5	750,000
N	Tallapoosa	Dadeville Pole Company	Dadeville	335129	Manufacturers Utility Poles	12	5,000,000
N	Tuscaloosa	Ashton-Lewis Sullivan Lumber Inc.	Uncorporated	321113	Sawmill	35	5,115,000
E	Walker	Jasper Lumber Company	Jasper	321113	Lumber Production	73	45,000,000
E	Winston	Hamilton Homes Builders LLC	Lynn	321991	Manufacturerd Homes	100	1,000,000
					Total	814	\$282,522,590

Source: Alabama Department of Commerce



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:



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



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.



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



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



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



Alabama Department of Labor
Labor Market Information Division

Source: Alabama's Quarterly Census
of Employment and Wages, 2019

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

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