

2022

Timber Supply, Dierks, Arkansas



University of Arkansas at
Monticello
College of Forestry,
Agriculture, and Natural
Resources

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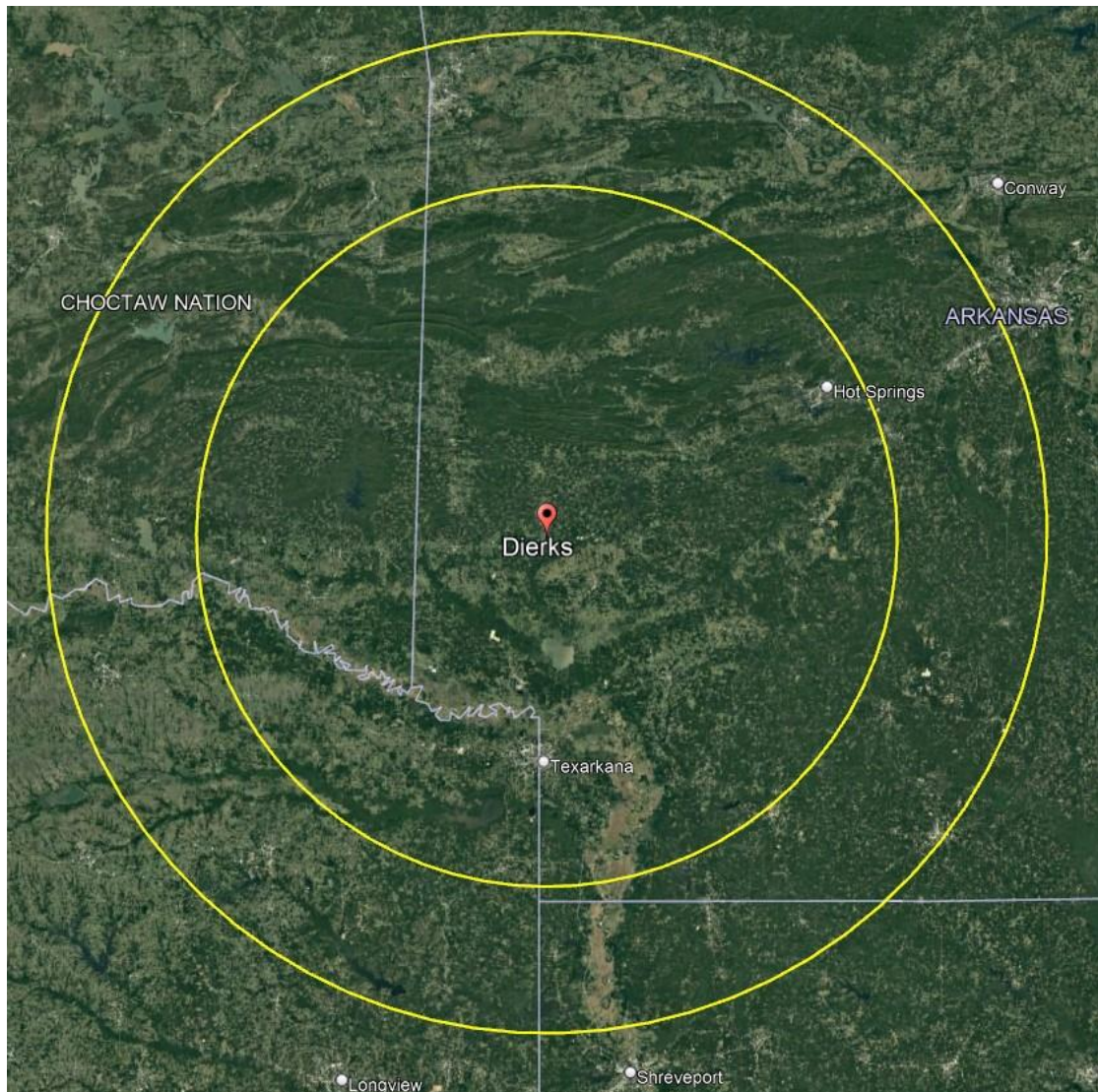


Figure 1. 70 and 100-mile radii around Dierks, Arkansas.

Summary

The timber resources in the 70-miles surrounding Dierks, Arkansas can support additional harvests greater than 3 million tons per year in pine saw logs and 1.4 million tons in pine pulpwood and top wood. Within 100 miles, these values increase to 6.9 and 9.1 million tons per year in saw logs and pulpwood/top wood, respectively. Annual hardwood surplus within 70 miles is 1.3 million tons of sawtimber and 0.7 million tons of pulpwood. When the supply area is increased to a 100-mile radius, the annual surplus in hardwood sawtimber is 2.4 million tons, but there is a DEFICIT of 4.6 million tons in pulpwood and topwood.

This data comes from the most recent FIA data (AR-2020, LA-2018, OK-2018, and TX-2017) and does not reflect changes in forest cover, growth, or removals from that time to present. Changes in existing mill production and other forest disturbances could have a substantial effect on the values provided here, and those changes will likely increase over time.

Highlights of Tables

- There are 7 and 13.1 million acres of timber land within 70 and 100 miles, respectively, of Dierks, Arkansas
- Pine is the dominant forest type in the region (45%) followed by oak/pine (14%) and upland hardwood (8%)
- Naturally regenerated forests cover account for 73% of all forestland in the region, but 53% of pine forests are artificially regenerated. Only 6% of non-pine forests are artificially regenerated
- 82% of the timberland is privately owned. Forest growing stock, growth, and removals are generally proportional to ownership.
- Within 70 miles of Dierks
 - 200 million tons of pine growing stock, 150 million tons of which is pine saw timber and 48 million tons of pulpwood and top wood
 - 167 million tons of hardwood growing stock, 81.5 million tons of which is saw timber and 85.5 million tons is pulpwood and top wood
 - Annual surplus in pine growth is 3 million tons in saw timber and 1.4 million tons in pulpwood
 - Annual surplus in hardwood growth is 1.3 million tons in saw timber and 0.7 million tons in pulpwood
- Within 100 miles of Dierks
 - 359 million tons of pine growing stock, 262.8 million tons of which is pine saw timber and 97 million tons of pulpwood and top wood
 - 329.9 million tons of hardwood growing stock, 163.4 million tons of which is saw timber and 166.5 million tons is pulpwood and top wood
 - Annual surplus in pine growth is 6.9 million tons in saw timber and 9 million tons in pulpwood
 - Annual surplus in hardwood growth is 2.4 million tons in saw timber, but there is an annual deficit of 4.6 million tons in hardwood pulpwood and topwood.
 - Hardwood resources consist primarily of various oak species, beech, sweetgum, and tupelo/blackgum. 31% of the hardwood sawtimber would be considered high-grade trees suitable for factory grade lumber production.

Hardwood resources are plentiful in the region, but only 31% of the resources are considered “high quality” (Grades 1 and 2) which will produce substantial proportions of grade lumber (Figure 2). Grade 3 trees represent 49% of the sawtimber resource in the region and will produce some factory lumber but the majority of grade 3 and lower trees will largely produce crossties and pallet wood.

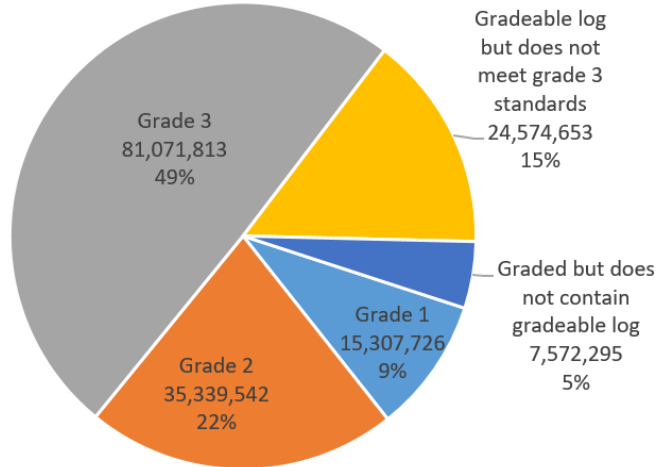


Figure 2. Hardwood saw timber resources by tree trade within a 100-mile radius of Dierks, Arkansas. Volumes are saw timber in green short tons.

The species groups present in the region are largely red and white oaks and sweetgum, which combined make up 86% of the total hardwood saw timber. Select red oak (13%) and select white oak (17%) are present as well. Select species are generally those preferred for factory grade lumber production.

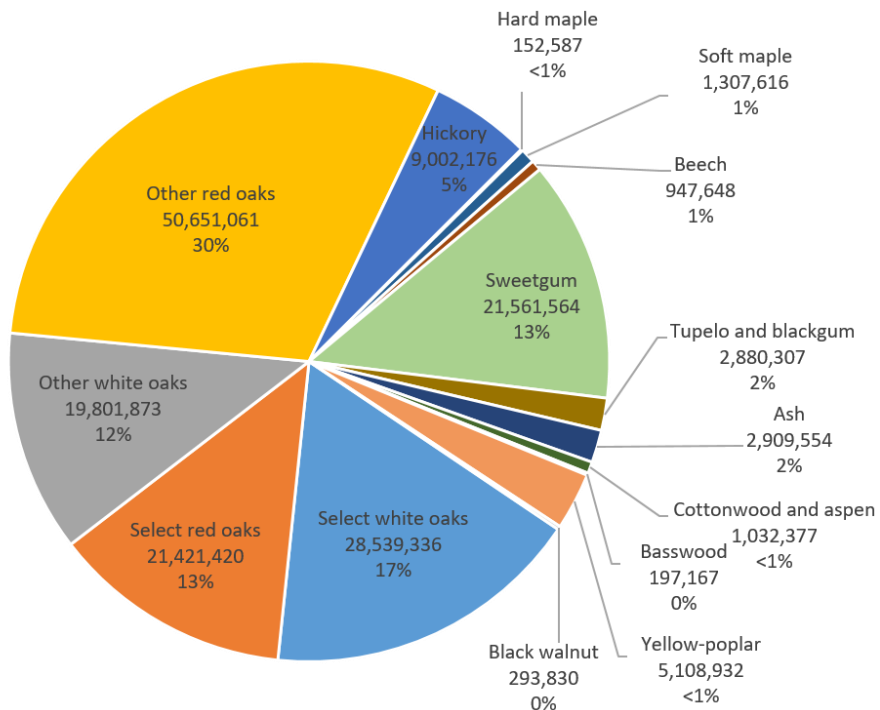


Figure 3. Major hardwood species groups present within a 100-mile radius of Dierks, Arkansas. Volume numbers are saw timber in green short tons.

Many species present could sustain substantial increases in their sustainable harvest levels. Most of these species are bottomland hardwoods. (Figure 4).

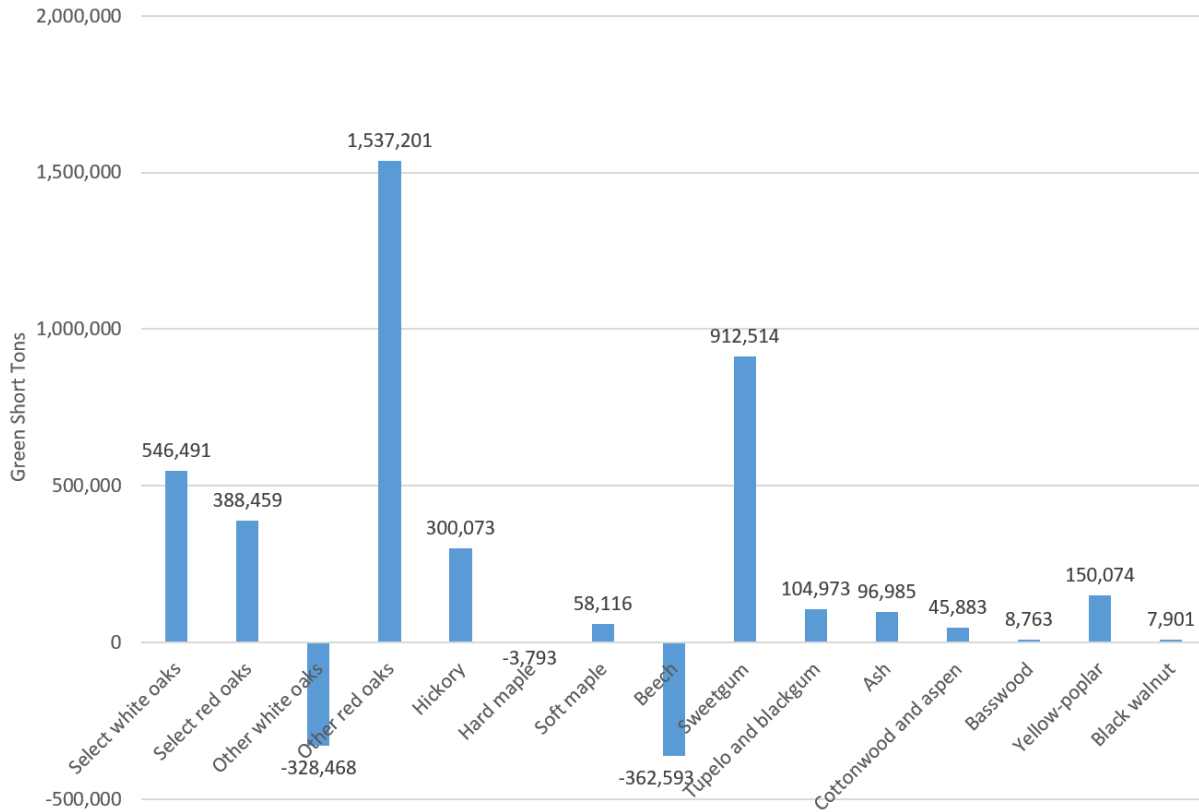


Figure 4. Sustainable annual allowable increase in saw timber harvesting in various species groups. Values are in saw timber green short tons per year within a 100-mile radius of Dierks, Arkansas.

Purpose/Objectives

The purpose of this analysis is to create a one-time snapshot of merchantable timber around Dierks, Arkansas. The data tables attached will provide information on the following:

- Timberland area within 70 and 100 miles aerial radius of Dierks, Arkansas by ownership and forest type group (Tables 1 and 2)
- Timberland area within 100 miles aerial radius of Dierks, Arkansas by forest type group and stand origin (Table 3)
- Within 70 miles and 100 miles for major species groups and ownership groups:
 - Current growing stock for merchantable bole, saw logs, and pulpwood/top wood (Table 4 and 8)
 - Annual net growth for merchantable bole, saw logs, and pulpwood/top wood (Table 5 and 9)
 - Annual removals group for merchantable bole, saw logs, and pulpwood/top wood (Table 6 and 10)
 - Annual net surplus for merchantable bole, saw logs, and pulpwood/top wood (Table 7 and 11)
- Hardwood saw timber growing stock by grade and estimates of sustainable surplus (or deficit) by species group (Table 12)

Methods

The USDA Forest Service Forest Inventory and Analysis (FIA) database is the source of the data for these tables. Data comes from the Arkansas (2020), Louisiana (2018), Oklahoma (2018), and Texas (2017) inventories, which, at the time of this report are the most current available. The online software EVALIDATOR and DATIM processed the database queries for these reports. EVALIDATOR and DATIM can be accessed on the FIA National Program website (<https://www.fia.fs.fed.us/tools-data/>).

Some specifics to the database queries are important to note:

- The center of the analysis radii of 70 and 100 miles is 34.119279 degrees north latitude and - 94.016582degrees west longitude (Dierks, Arkansas)
- The results show acre and tonnages based on timberland based on FIA definition (FIADEF)
- Ownership categories are either PUBLIC or PRIVATE
- Areas are in acres
- Tree biomass is reported in GREEN SHORT TONS

This report is an initial survey of timber resources. The Arkansas Center for Forest Business upon request can provide more detailed analysis and information regarding the region.

Table 1. Timberland acres by forest type group and ownership within a 70-mile radius of Dierks, Arkansas.

Forest type group	Total	Ownership group	
		Public	Private
Total	6,965,629	1,789,407	5,176,222
Loblolly / shortleaf pine group	3,282,728	836,401	2,446,327
Other eastern softwoods group	31,284	5,909	25,375
Oak / pine group	1,013,229	340,622	672,607
Oak / hickory group	1,893,618	501,638	1,391,980
Oak / gum / cypress group	439,964	57,956	382,008
Elm / ash / cottonwood group	238,737	40,441	198,296
Maple / beech / birch group	1,477	-	1,477
Other hardwoods group	22,678	4,688	17,990
Nonstocked	41,914	1,752	40,162

Table 2. Timberland acres by forest type group and ownership within a 100-mile radius of Dierks, Arkansas.

Forest type group	Total	Ownership group	
		Public	Private
Loblolly / shortleaf pine group	5,929,576	1,007,473	4,922,104
Other eastern softwoods group	109,121	8,908	100,213
Oak / pine group	1,853,936	428,922	1,425,013
Oak / hickory group	3,635,877	654,938	2,980,939
Oak / gum / cypress group	1,031,670	132,344	899,326
Elm / ash / cottonwood group	471,760	55,136	416,625
Maple / beech / birch group	2,927	0	2,927
Other hardwoods group	24,240	4,688	19,552
Exotic hardwoods group	14,898	5,701	9,197
Nonstocked	86,407	9,399	77,008
Loblolly / shortleaf pine group	5,929,576	1,007,473	4,922,104

Table 3. Stand origin by acres and forest cover type within 100-mile radius of Dierks, Arkansas.

Forest type group	Total	Stand origin	
		Natural stands	Clear evidence of artificial regeneration
Total	13,160,412	9,601,651	3,558,762
Loblolly / shortleaf pine group	5,929,576	2,763,690	3,165,886
Other eastern softwoods group	109,121	107,526	1,595
Oak / pine group	1,853,936	1,642,760	211,176
Oak / hickory group	3,635,877	3,501,459	134,419
Oak / gum / cypress group	1,031,670	1,013,384	18,286
Elm / ash / cottonwood group	471,760	458,173	13,587
Maple / beech / birch group	2,927	2,927	0
Other hardwoods group	24,240	24,240	0
Exotic hardwoods group	14,898	14,898	0
Nonstocked	86,407	72,594	13,813

Table 4. Growing stock of merchantable bole biomass, saw log portion, and pulpwood/top wood portion in green tons by major species group and major ownership group within 70 miles of Dierks, Arkansas.

TOTAL MERCHANTABLE BOLE GROWING STOCK IN TONS				
Species group	Total	Ownership group		Not available
		Public	Private	
Total	372,095,007	125,109,479	246,985,528	0
Pines	200,550,915	71,215,858	129,335,057	0
Other softwoods	4,527,423	890,330	3,637,093	0
Soft hardwoods	37,114,052	7,834,543	29,279,509	0
Hard hardwoods	129,902,617	45,168,748	84,733,869	0

SAWLOG PORTION OF GROWING STOCK IN TONS				
Species group	Total	Ownership group		Not available
		Public	Private	
Total	Total	Public	Private	Not available
Pines	236,054,783	85,988,694	150,066,089	0
Other softwoods	151,799,570	60,059,620	91,739,950	0
Soft hardwoods	2,725,040	436,157	2,288,883	0
Hard hardwoods	14,255,076	3,092,119	11,162,957	0

PULPWOOD and TOPWOOD PORTION OF GROWING STOCK IN TONS				
Species group	Total	Ownership group		Not available
		Public	Private	
Total	136,040,224	39,120,785	96,919,439	0
Pines	48,751,345	11,156,238	37,595,107	0
Other softwoods	1,802,383	454,173	1,348,210	0
Soft hardwoods	22,858,976	4,742,424	18,116,552	0
Hard hardwoods	62,627,519	22,767,950	39,859,569	0

Table 5. Annual net growth of merchantable bole biomass, saw log portion, and pulpwood/top wood portion in green tons by major species group and major ownership group within 70 miles of Dierks, Arkansas.

MERCHANTABLE BOLE BIOMASS NET ANNUAL GROWTH IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	17,425,793	2,933,346	14,468,328	24,119
Pines	12,711,155	1,938,672	10,764,525	7,958
Other softwoods	160,773	33,365	127,408	0
Soft hardwoods	1,074,919	179,423	891,202	4,294
Hard hardwoods	3,478,947	781,886	2,685,194	11,867

SAWLOG PORTION OF NET ANNUAL GROWTH IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	12,156,038	2,614,236	9,524,818	16,984
Pines	9,458,282	1,941,825	7,507,341	9,116
Other softwoods	92,888	15,970	76,918	0
Soft hardwoods	471,002	99,945	370,388	670
Hard hardwoods	2,133,866	556,496	1,570,171	7,199

PULPWOOD and TOPWOOD PORTION OF NET ANNUAL GROWTH IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	5,269,755	319,110	4,943,511	7,135
Pines	3,252,873	-3,154	3,257,184	-1,158
Other softwoods	67,884	17,395	50,489	0
Soft hardwoods	603,917	79,478	520,814	3,625
Hard hardwoods	1,345,081	225,390	1,115,023	4,668

Table 6. Annual removals of merchantable bole biomass, saw log portion, and pulpwood/top wood portion in green tons by major species group and major ownership group within 70 miles of Dierks, Arkansas.

MERCHANTABLE BOLE BIOMASS ANNUAL REMOVALS IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	10,846,768	648,481	9,827,863	370,424
Pines	8,278,593	481,617	7,738,444	58,531
Other softwoods	5,230	1,563	3,667	0
Soft hardwoods	503,787	4,021	449,787	49,979
Hard hardwoods	2,059,158	161,280	1,635,965	261,913

SAWLOG PORTION OF ANNUAL REMOVALS IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	7,691,532	447,914	7,031,198	212,420
Pines	6,423,759	358,941	6,028,964	35,854
Other softwoods	1,167	0	1,167	0
Soft hardwoods	113,330	0	105,694	7,636
Hard hardwoods	1,153,276	88,973	895,373	168,930

PULPWOOD and TOPWOOD PORTION OF ANNUAL REMOVALS IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	3,155,237	200,568	2,796,665	158,003
Pines	1,854,834	122,677	1,709,480	22,677
Other softwoods	4,063	1,563	2,500	0
Soft hardwoods	390,458	4,021	344,093	42,343
Hard hardwoods	905,883	72,307	740,592	92,983

Table 7. Annual surplus of merchantable bole biomass, saw log portion, and pulpwood/top wood portion in green tons by major species group and major ownership group within 70 miles of Dierks, Arkansas.

MERCHANTABLE BOLE BIOMASS ANNUAL NET SURPLUS IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	6,579,025	2,284,865	4,640,465	-346,305
Pines	4,432,562	1,457,054	3,026,081	-50,574
Other softwoods	155,543	31,802	123,741	0
Soft hardwoods	571,132	175,402	441,415	-45,685
Hard hardwoods	1,419,789	620,606	1,049,229	-250,046

SAWLOG PORTION OF ANNUAL NET SURPLUS IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	4,464,507	2,166,323	2,493,620	-195,436
Pines	3,034,523	1,582,885	1,478,377	-26,739
Other softwoods	91,721	15,970	75,752	0
Soft hardwoods	357,673	99,945	264,694	-6,966
Hard hardwoods	980,590	467,524	674,798	-161,731

PULPWOOD and TOPWOOD PORTION OF ANNUAL NET SURPLUS IN TONS

Species group	Total	Ownership group		
		Public	Private	Not available
Total	2,114,518	118,542	2,146,845	-150,869
Pines	1,398,039	-125,830	1,547,704	-23,835
Other softwoods	63,822	15,832	47,989	0
Soft hardwoods	213,459	75,457	176,721	-38,719
Hard hardwoods	439,199	153,083	374,431	-88,315

Table 8. Growing stock of merchantable bole biomass, saw log portion, and pulpwood/top wood portion in green tons by major species group and major ownership group within 100 miles of Dierks, Arkansas.

TOTAL MERCHANTABLE BOLE GROWING STOCK IN TONS				
Species Group	Total	Ownership group		Not available
		Public	Private	
Total	701,479,043	164,209,215	537,269,828	0
Pines	359,736,902	86,390,082	273,346,821	0
Other softwoods	11,862,268	3,995,541	7,866,727	0
Soft hardwoods	76,939,487	13,266,435	63,673,052	0
Hard hardwoods	252,940,386	60,557,157	192,383,228	0

SAWLOG PORTION OF GROWING STOCK IN TONS				
Species Group	Total	Ownership group		Not available
		Public	Private	
Total	433,028,441	112,346,622	320,681,819	0
Pines	262,755,125	72,540,123	190,215,003	0
Other softwoods	6,916,224	2,798,530	4,117,694	0
Soft hardwoods	31,613,756	6,485,578	25,128,178	0
Hard hardwoods	131,743,336	30,522,392	101,220,944	0

PULPWOOD and TOPWOOD PORTION OF GROWING STOCK IN TONS				
Species Group	Total	Ownership group		Not available
		Public	Private	
Total	268,450,602	51,862,593	216,588,009	0
Pines	96,981,777	13,849,959	83,131,818	0
Other softwoods	4,946,044	1,197,011	3,749,033	0
Soft hardwoods	45,325,731	6,780,857	38,544,874	0
Hard hardwoods	121,197,050	30,034,765	91,162,284	0

Table 9. Annual net growth of merchantable bole biomass, saw log portion, and pulpwood/top wood portion in green tons by major species group and major ownership group within 100 miles of Dierks, Arkansas.

MERCHANTABLE BOLE BIOMASS NET ANNUAL GROWTH IN TONS

Species Group	Total	Ownership group		
		Public	Private	Not available
Total	59,269,809	6,541,842	52,645,588	82,378
Pines	30,350,901	3,416,564	26,896,994	37,343
Other softwoods	25,798,092	2,624,676	23,140,230	33,186
Soft hardwoods	491,840	127,164	362,786	1,890
Hard hardwoods	2,628,975	373,438	2,245,578	9,959

SAWLOG PORTION OF NET ANNUAL GROWTH IN TONS

Species Group	Total	Ownership group		
		Public	Private	Not available
Total	22,572,626	3,410,207	19,140,093	22,326
Pines	17,416,268	2,412,240	14,976,820	27,208
Other softwoods	232,443	81,422	150,167	855
Soft hardwoods	1,068,098	206,231	860,444	1,423
Hard hardwoods	3,855,816	710,314	3,152,663	-7,160

PULPWOOD and TOPWOOD PORTION OF NET ANNUAL GROWTH IN TONS

Species Group	Total	Ownership group		
		Public	Private	Not available
Total	36,697,182	3,131,635	33,505,495	60,052
Pines	12,934,633	1,004,324	11,920,174	10,135
Other softwoods	25,565,648	2,543,254	22,990,063	32,331
Soft hardwoods	-576,258	-79,067	-497,658	467
Hard hardwoods	-1,226,841	-336,876	-907,085	17,120

Table 10. Annual removals of merchantable bole biomass, saw log portion, and pulpwood/top wood portion in green tons by major species group and major ownership group within 100 miles of Dierks, Arkansas.

MERCHANTABLE BOLE BIOMASS ANNUAL REMOVALS IN TONS

Species Group	Total	Ownership group		
		Public	Private	Not available
Total	19,723,989	837,658	18,011,791	874,540
Pines	14,313,452	610,070	13,435,903	267,480
Other softwoods	51,060	10,501	23,470	17,089
Soft hardwoods	1,365,351	5,587	1,195,049	164,715
Hard hardwoods	3,994,126	211,500	3,357,369	425,257

SAWLOG PORTION OF ANNUAL REMOVALS IN TONS

Species Group	Total	Ownership group		
		Public	Private	Not available
Total	13,067,195	578,032	11,957,616	531,548
Pines	10,511,471	472,225	9,821,780	217,466
Other softwoods	25,751	4,609	10,274	10,868
Soft hardwoods	427,373	0	364,740	62,633
Hard hardwoods	2,102,600	101,198	1,760,821	240,581

PULPWOOD and TOPWOOD PORTION OF ANNUAL REMOVALS IN TONS

Species Group	Total	Ownership group		
		Public	Private	Not available
Total	6,656,794	259,626	6,054,175	342,993
Pines	3,801,982	137,845	3,614,123	50,014
Other softwoods	25,309	5,892	13,196	6,221
Soft hardwoods	937,977	5,587	830,309	102,081
Hard hardwoods	1,891,526	110,302	1,596,548	184,676

Table 11. Annual surplus of merchantable bole biomass, saw log portion, and pulpwood/top wood portion in green tons by major species group and major ownership group within 100 miles of Dierks, Arkansas.

MERCHANTABLE BOLE BIOMASS ANNUAL NET SURPLUS IN TONS				
Species Group	Total	Ownership group		
		Public	Private	Not available
Total	39,545,820	5,704,184	34,633,797	-792,162
Pines	16,037,449	2,806,494	13,461,091	-230,136
Other softwoods	25,747,032	2,614,175	23,116,760	16,097
Soft hardwoods	-873,511	121,577	-832,263	-162,825
Hard hardwoods	-1,365,151	161,938	-1,111,791	-415,298

SAWLOG PORTION OF ANNUAL NET SURPLUS IN TONS				
Species Group	Total	Ownership group		
		Public	Private	Not available
Total	9,505,431	2,832,175	7,182,477	-509,222
Pines	6,904,798	1,940,015	5,155,040	-190,257
Other softwoods	206,692	76,813	139,893	-10,013
Soft hardwoods	640,725	206,231	495,704	-61,210
Hard hardwoods	1,753,216	609,116	1,391,841	-247,741

PULPWOOD and TOPWOOD PORTION OF ANNUAL NET SURPLUS IN TONS				
Species Group	Total	Ownership group		
		Public	Private	Not available
Total	30,040,389	2,872,009	27,451,320	-282,940
Pines	9,132,651	866,479	8,306,051	-39,879
Other softwoods	25,540,339	2,537,362	22,976,868	26,110
Soft hardwoods	-1,514,235	-84,654	-1,327,966	-101,615
Hard hardwoods	-3,118,367	-447,178	-2,503,632	-167,556

Table 12. Hardwood saw timber growing stock and sustainable harvest increase in green tons of saw log portion of growing stock on timberland within 70 miles of Dierks, Arkansas.

Species group	Growing Stock Volume in green short tons						Annual Sustainable Harvest Increase
	Total	Grade 1	Grade 2	Grade 3	Gradeable log but does not meet grade 3 standards	Graded but does not contain gradeable log	
Total	185,097,783	23,854,775	25,720,084	107,870,127	20,081,150	7,571,647	5,261,760
Select white oaks	15,429,380	3,381,535	2,415,577	6,958,246	2,397,700	276,321	362,857
Select red oaks	13,017,461	1,565,347	2,463,303	7,587,857	1,270,563	130,390	302,005
Other white oaks	31,146,446	2,780,166	3,444,482	20,760,724	3,269,519	891,555	707,098
Other red oaks	13,348,685	1,418,204	2,263,301	7,675,444	1,887,666	104,071	352,033
Hickory	241,344	0	0	185,126	56,218	0	8,045
Hard maple	2,437,673	149,818	89,149	1,268,404	656,421	273,881	69,502
Soft maple	1,278,978	0	565,954	678,758	34,266	0	56,843
Beech	22,489,743	1,642,828	3,775,491	14,107,168	1,752,162	1,212,094	525,338
Sweetgum	22,801,167	3,764,297	4,370,726	13,394,143	413,279	858,722	669,431
Tupelo and blackgum	23,594,357	5,072,320	1,769,250	13,625,283	1,869,994	1,257,510	906,492
Ash	6,613,548	2,030,420	152,362	3,176,392	353,205	901,169	220,452
Cottonwood and aspen	278,672	278,672	0	0	0	0	12,385
Basswood	12,500,788	1,220,086	2,218,625	6,101,884	2,534,378	425,815	463,116
Yellow-poplar	242,695	0	60,398	182,298	0	0	6,086
Black walnut	19,676,845	551,080	2,131,466	12,168,400	3,585,780	1,240,119	477,157
Other eastern soft hardwoods	2,765,688	0	471,522	1,821,612	420,855	51,699	122,919

GLOSSARY OF TERMS

Average annual net growth of growing stock: The annual change in volume of sound wood in live sawtimber and poletimber trees, and the total volume of trees entering these classes through ingrowth, less volume losses resulting from natural causes, over the last 5 years of inventory. Annual net growth is annual gross growth – annual mortality.

Average annual removals from growing stock: The average net growing-stock volume in growing-stock trees removed annually for roundwood forest products and the volume of removals for other purposes (i.e. land conversion).

Annual net surplus: The difference between average annual net growth and average annual net removals.

Forest type: A classification of forestland based upon and named for the tree species that forms the plurality of live-tree stocking. A forest type classification for a field location indicates the predominant live-tree species cover for the field location; hardwoods and softwoods are the first group to be determine predominant group, and Forest Type is selected from the predominant group.

Forest type group: A combination of forest types that share closely associated species or site requirements.

Growing stock tree: All live trees 5.0 inches (12.7) cm) DBH or larger that meet (now or prospectively) regional merchantability requirements in terms of saw-log length, grade, and cull deductions. Excludes rough and rotten cull trees.

Log grade: A log classification based on external characteristics as indicators of quality or value. Also see Tree grade. (See USDA, 2003 on tree grading field techniques.)

Merchantable: Refers to a pulpwood or sawlog section that meets pulpwood or sawlog specifications, respectively.

Net annual growth: The average annual net increase in the volume of trees during the period between inventories. Components include the increment in net volume of trees at the beginning of the specific year surviving to its end, plus the net volume of trees reaching the minimum size class during the year, minus the volume of trees that died during the year, and minus the net volume of trees that became cull trees during the year.

Net volume in cubic feet: The gross volume in cubic feet less deductions for rot, roughness, and poor form. Volume is computed for the central stem from a 1-foot stump to a minimum 4.0-inch top diameter outside bark, or to the point where the central stem breaks into limbs.

Nonstocked: Forestland stocked with less than 10 percent of full stocking with all live trees. Examples are recently cutover areas or recently reverted agricultural fields.

Other red oaks: A group of species in the genus *Quercus* that includes scarlet oak, northern pin oak, southern red oak, bear oak, shingle oak, laurel oak, blackjack oak, water oak, pin oak, willow oak, and black oak.

Other white oaks: A group of species in the genus *Quercus* that includes overcup oak, chestnut oak, and post oak.

Other softwoods: softwood species other than pines. Will include redcedar, bald cypress, and cypress

Pulpwood: Roundwood, whole-tree chips, or wood residues used for the production of wood pulp.

Saw log: A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark of 6 inches for softwoods and 8 inches for hardwoods, or meeting other combinations of size and defect specified by regional standards.

Sawtimber tree: A live tree of commercial species containing at least a 12-foot sawlog or two noncontiguous saw logs 8 feet or longer, and meeting regional specifications for freedom from defect. Softwoods must be at least 9.0 inches d.b.h. Hardwoods must be at least 11.0 inches diameter outside bark (d.o.b.).

Select red oaks: A group of species in the genus *Quercus* that includes cherrybark oak, northern red oak, and Shumard oak.

Select white oaks: A group of species in the genus *Quercus* that includes white oak, swamp white oak, bur oak, swamp chestnut oak, and chinkapin oak.

Timberland: Forestland that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. (Note: Areas qualifying as timberland are capable of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included.)

Tons: Tons expressed in this report are short tons (2000 pounds) and are expressed in green weight. Tons in this report are calculated from net volume in cubic feet, which excludes bark.

Topwood: Merchantable pulpwood that is found above the sawlog portion of sawtimber trees.

Adapted from Forest Inventory and Analysis Glossary of Terms. Last accessed July 3, 2021.

<https://www.nrs.fs.fed.us/fia/data-tools/state-reports/glossary/>



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