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Timber Supply, Camden Arkansas



College of Forestry,
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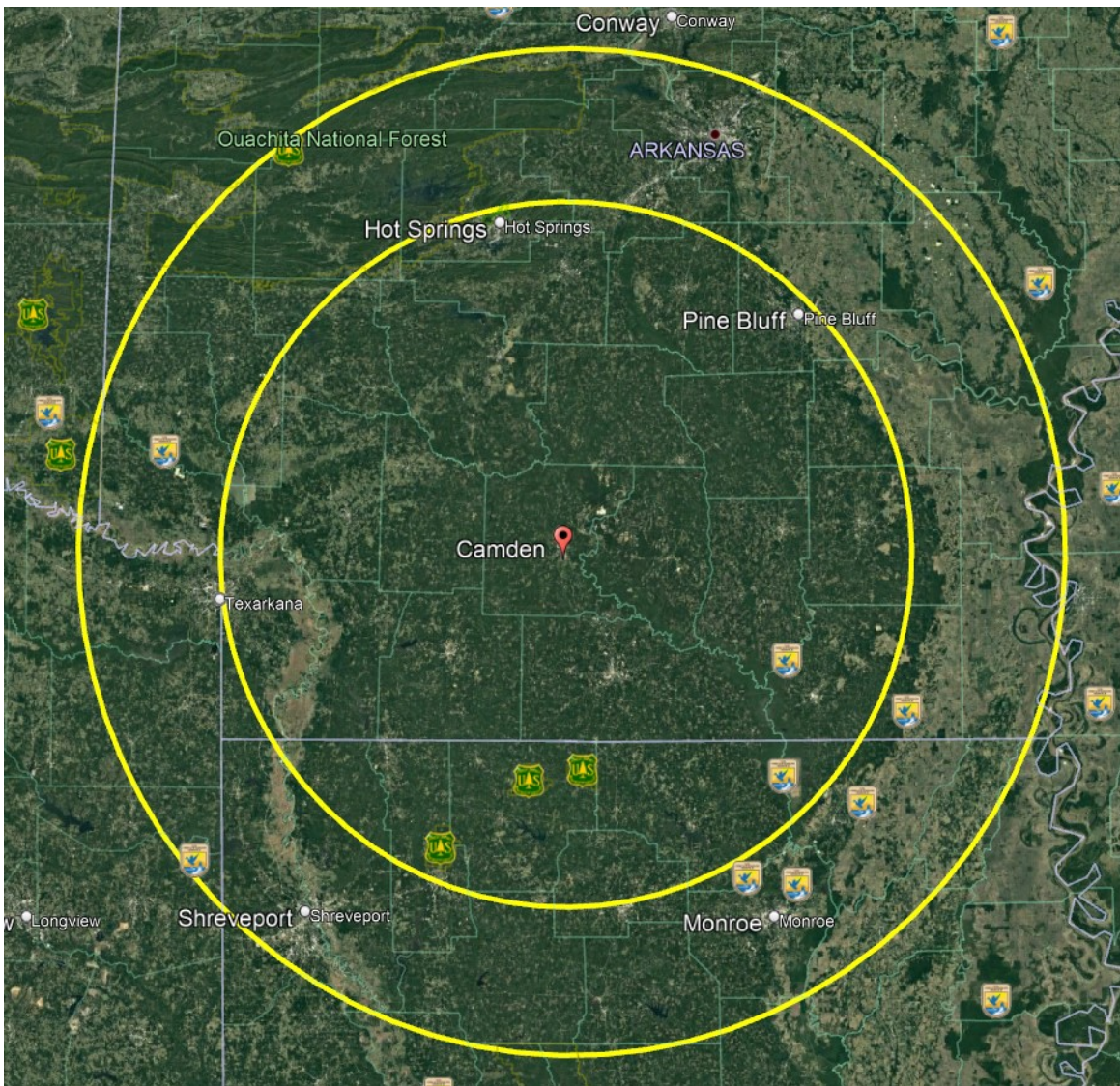


Figure 1. 70 and 100 mile radii around Camden, Arkansas.

Summary

The timber resources in the 70-miles surrounding Camden, Arkansas can support additional harvests greater than 4.6 million tons per year in pine saw logs and 3.2 million tons in pine pulpwood and top wood. Within 100 miles, these values increase to 7.4 and 3.4 million tons per year in saw logs and pulpwood/top wood, respectively. Annual hardwood removals could increase by 1.3 million tons in saw logs and 0.7 million tons in pulpwood and top wood, with these values increasing to 2.7 and 1.7 million tons, respectively, in a 100-mile radius.

Highlights of Tables

- There are 7.8 and 13.7 million acres of forest land within 70 and 100 miles, respectively, of Camden, Arkansas
- Pine is the dominant forest type in the region (50%) followed by upland hardwoods (20%) and bottomland hardwoods (18%)
- Naturally regenerated forests cover account for 65% of all forestland in the region, but 62% of pine covertypes are artificially regenerated. Only 8% of non-pine forests are artificially regenerated
- 95% of the forest land is privately owned and forest growing stock, growth, and removals are generally proportional to ownership
- Within 70 miles of Camden
 - 268 million tons of pine growing stock, 191 million tons of which is pine saw timber and 77 million tons of pulpwood and top wood
 - 192 million tons of hardwood growing stock, 111 million tons of which is saw timber and 81 million tons is pulpwood and top wood
 - Annual surplus in pine growth is 4.6 million tons in saw timber and 3.2 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 Camden
 - 415 million tons of pine growing stock, 297 million tons of which is pine saw timber and 118 million tons of pulpwood and top wood
 - 377 million tons of hardwood growing stock, 215 million tons of which is saw timber and 161 million tons is pulpwood and top wood
 - Annual surplus in pine growth is 7.4 million tons in saw timber and 3.4 million tons in pulpwood and top wood
 - Annual surplus in hardwood growth is 2.7 million tons in saw timber and 1.7 million tons in pulpwood and top wood

Purpose/Objectives

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

- Forest area within 70 and 100 miles aerial radius of Camden, Arkansas by ownership and forest type group (Tables 1 and 2)
- Forest area within 100 miles aerial radius of Camden, Arkansas by forest type group and stand origin (Table 3)
- Forest area within 100 miles aerial radius of Camden, Arkansas by county//parish and forest type group (Table 4)
- 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 5 and 9)
 - Annual net growth for merchantable bole, saw logs, and pulpwood/top wood (Table 6 and 10)
 - Annual removals group for merchantable bole, saw logs, and pulpwood/top wood (Table 7 and 11)
 - Annual net surplus for merchantable bole, saw logs, and pulpwood/top wood (Table 8 and 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 (2019), Louisiana (2018), Oklahoma (2018) and east Texas (2019) 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 33.584558 degrees north latitude and - 92.834329 degrees west longitude (center of Camden, Arkansas)
- The results show acre and tonnages based on forestland 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 forestland resources. The Arkansas Center for Forest Business upon request can provide more detailed analysis and information regarding the region.

Table 1. Forest acres by forest type group and ownership within a 70-mile radius of Camden, Arkansas in 2019.

Forest type group	Total	Public	Private
Total	7,826,045	396,939	7,429,106
Loblolly / shortleaf pine group	4,364,519	140,544	4,223,974
Other eastern softwoods group	1,650	0	1,650
Oak / pine group	825,220	44,951	780,269
Oak / hickory group	1,380,455	61,257	1,319,198
Oak / gum / cypress group	1,003,614	120,600	883,014
Elm / ash / cottonwood group	139,980	23,886	116,094
Other hardwoods group	12,561	0	12,561
Exotic hardwoods group	8,754	5,701	3,052
Nonstocked	89,293	0	89,293

Table 2. Forest acres by forest type group and ownership within a 100-mile radius of Camden, Arkansas in 2019.

Forest type group	Total	Public	Private
Total	13,670,672	1,743,784	11,926,889
Loblolly / shortleaf pine group	6,887,991	600,178	6,287,813
Other eastern softwoods group	13,208	0	13,208
Oak / pine group	1,475,743	259,930	1,215,813
Oak / hickory group	2,698,146	437,546	2,260,600
Oak / gum / cypress group	1,867,040	336,941	1,530,099
Elm / ash / cottonwood group	532,654	90,796	441,858
Other hardwoods group	29,109	4,806	24,303
Exotic hardwoods group	20,058	5,701	14,357
Nonstocked	146,723	7,885	138,838

Table 3. Stand origin by forest cover type within 100-mile radius of Camden, Arkansas in 2019.

Forest type group	Total	Natural stands	Clear evidence of artificial regeneration
Total	13,670,672	8,893,550	4,777,123
Loblolly / shortleaf pine group	6,887,991	2,648,190	4,239,801
Other eastern softwoods group	13,208	7,648	5,559
Oak / pine group	1,475,743	1,242,649	233,094
Oak / hickory group	2,698,146	2,558,339	139,807
Oak / gum / cypress group	1,867,040	1,762,358	104,682
Elm / ash / cottonwood group	532,654	501,510	31,144
Other hardwoods group	29,109	29,109	0
Exotic hardwoods group	20,058	20,058	0
Nonstocked	146,723	123,688	23,035

Table 4. Forest area by county or parish and forest type group within 100-mile radius of Camden, Arkansas in 2019

State	CountyGroup	Total	LobSh	OthESw	OKP	OkH	OkGC	EAC	OtHw	ExHd	Nons
ALL	Total	13,670,672	6,887,991	13,208	1,475,743	2,698,146	1,867,040	532,654	29,109	20,058	146,723
AR	Arkansas	94,165	5,935	0	0	9,181	56,327	22,722	0	0	0
AR	Chicot	105,819	11,491	0	0	0	22,232	66,169	0	0	5,927
AR	Desha	83,945	0	0	0	9,040	34,526	35,607	0	0	4,772
AR	Jefferson	208,388	69,783	0	8,236	59,730	35,715	28,989	0	0	5,935
AR	Lincoln	141,756	47,521	0	13,259	34,561	33,400	13,016	0	0	0
AR	Lonoke	55,056	0	0	0	20,596	24,346	5,758	0	0	4,357
AR	Prairie	5,935	0	0	0	0	5,935	0	0	0	0
AR	Ashley	416,452	283,568	0	12,216	25,615	73,703	6,062	0	0	15,289
AR	Bradley	367,484	233,960	0	13,328	58,478	49,595	0	0	0	12,123
AR	Calhoun	355,726	235,682	0	19,199	27,194	66,074	4,546	0	0	3,031
AR	Clark	463,797	274,978	0	37,956	91,513	50,541	8,809	0	0	0
AR	Cleveland	330,416	212,300	0	28,936	33,495	43,850	11,835	0	0	0
AR	Columbia	441,127	275,919	0	62,210	50,567	47,855	4,576	0	0	0
AR	Dallas	411,732	236,338	0	74,550	52,465	39,286	0	0	0	9,092
AR	Drew	420,390	274,778	0	50,295	38,885	48,836	6,071	1,525	0	0
AR	Grant	391,544	240,370	0	27,979	47,453	55,992	19,749	0	0	0
AR	Hempstead	299,738	142,269	0	31,767	64,076	45,154	12,779	2,178	0	1,515
AR	Hot Spring	259,522	126,709	0	39,246	68,424	24,247	0	0	0	897
AR	Howard	278,959	170,270	0	24,935	63,895	7,193	7,616	0	0	5,049
AR	Lafayette	210,182	115,570	0	18,867	42,001	18,185	15,559	0	0	0
AR	Little River	186,883	96,772	0	15,591	51,287	15,583	7,649	0	0	0
AR	Miller	194,064	45,886	1,650	20,239	73,534	25,681	22,774	0	0	4,298
AR	Nevada	329,380	202,703	0	36,257	41,792	42,431	0	0	0	6,196
AR	Ouachita	393,475	204,144	0	56,281	83,822	46,196	3,031	0	0	0
AR	Pike	309,798	176,564	0	51,130	66,950	6,062	3,031	6,062	0	0
AR	Sevier	237,141	78,584	0	49,168	50,213	28,868	21,216	1,515	0	7,577
AR	Union	634,635	356,631	0	35,783	109,988	114,979	6,574	0	0	10,680
AR	Garland	391,119	150,674	0	69,374	146,102	4,499	12,719	5,998	0	1,752
AR	Montgomery	416,257	185,620	0	61,286	160,386	5,003	3,962	0	0	0
AR	Perry	240,535	141,944	5,998	34,930	44,336	6,590	5,377	0	0	1,361
AR	Polk	196,213	51,952	0	74,718	68,044	0	0	1,500	0	0
AR	Pulaski	216,873	49,770	0	29,491	86,829	18,960	31,824	0	0	0
AR	Saline	328,062	161,361	0	13,571	137,204	9,065	3,862	0	0	2,999
AR	Scott	56,631	23,434	0	12,452	20,745	0	0	0	0	0
AR	Yell	169,135	76,349	0	37,497	36,283	5,998	13,007	0	0	0
AR	Faulkner	27,437	0	0	5,658	17,512	4,267	0	0	0	0
LA	Morehouse	247,678	88,262	0	20,019	17,297	85,331	33,719	0	1,625	1,424
LA	Richland	30,677	0	0	0	12,838	9,914	7,925	0	0	0
LA	West Carroll	38,174	4,171	0	0	14,862	17,660	1,481	0	0	0
LA	Natchitoches	6,280	6,280	0	0	0	0	0	0	0	0
LA	Bienville	464,249	323,047	0	31,110	60,604	37,343	6,124	2,729	0	3,292
LA	Bossier	368,496	206,383	0	42,051	62,410	54,475	3,177	0	0	0
LA	Caddo	195,447	71,741	0	31,179	37,520	22,843	32,164	0	0	0
LA	Caldwell	6,124	6,124	0	0	0	0	0	0	0	0
LA	Claiborne	418,654	189,577	0	81,510	85,584	48,339	10,848	2,796	0	0
LA	Jackson	358,296	215,088	5,559	33,876	51,759	46,680	0	0	0	5,333
LA	Lincoln	233,699	126,020	0	23,850	43,705	29,408	0	0	0	10,717
LA	Ouachita	236,167	73,812	0	17,364	24,140	98,380	12,082	0	3,062	7,328
LA	Red River	21,403	8,401	0	0	1,479	11,523	0	0	0	0
LA	Union	442,810	190,601	0	27,348	102,081	105,542	0	0	3,052	14,184
LA	Webster	267,850	127,812	0	40,183	38,874	47,563	1,531	0	10,294	1,593
LA	Winn	11,169	5,064	0	0	6,105	0	0	0	0	0
TX	McCurtain	36,086	5,909	0	8,992	7,890	10,340	2,954	0	0	0
TX	Bowie	216,215	73,116	0	22,434	60,132	43,306	12,421	4,806	0	0
TX	Cass	279,301	133,377	0	24,084	63,141	55,072	1,602	0	2,024	0
TX	Harrison	32,225	18,898	0	0	0	13,327	0	0	0	0
TX	Marion	89,900	54,480	0	5,337	15,530	12,817	1,737	0	0	0

Table 5. 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 Camden, Arkansas in 2019.

TOTAL MERCHANTABLE BOLE GROWING STOCK IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	465,216,897	35,079,987	430,136,909	0
Pines	268,192,868	15,041,888	253,150,980	0
Other softwoods	5,351,834	413,386	4,938,448	0
Soft hardwoods	55,338,097	4,977,738	50,360,359	0
Hard hardwoods	136,334,097	14,646,975	121,687,122	0

SAWLOG PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	306,248,202	27,138,676	279,109,525	0
Pines	191,428,528	13,749,009	177,679,519	0
Other softwoods	4,174,949	255,246	3,919,703	0
Soft hardwoods	24,009,919	2,790,397	21,219,522	0
Hard hardwoods	86,634,806	10,344,025	76,290,781	0

PULPWOOD and TOPWOOD PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	158,968,695	7,941,311	151,027,384	0
Pines	76,764,340	1,292,879	75,471,461	0
Other softwoods	1,176,885	158,140	1,018,745	0
Soft hardwoods	31,328,178	2,187,341	29,140,837	0
Hard hardwoods	49,699,291	4,302,950	45,396,341	0

Table 6. 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 Camden, Arkansas in 2019.

MERCHANTABLE BOLE BIOMASS ANNUAL NET GROWTH IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	25,844,839	760,362	25,057,916	26,562
Pines	20,493,234	401,314	20,079,284	12,636
Other softwoods	142,440	25,048	117,392	0
Soft hardwoods	1,666,048	59,107	1,596,843	10,099
Hard hardwoods	3,543,117	274,893	3,264,397	3,827

SAWLOG PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	17,778,156	685,393	17,082,939	9,824
Pines	14,545,227	390,669	14,146,507	8,051
Other softwoods	118,924	14,072	104,852	0
Soft hardwoods	775,855	48,404	727,073	378
Hard hardwoods	2,338,150	232,248	2,104,507	1,395

PULPWOOD and TOPWOOD PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	8,066,683	74,968	7,974,977	16,738
Pines	5,948,007	10,645	5,932,778	4,585
Other softwoods	23,516	10,976	12,540	0
Soft hardwoods	890,193	10,703	869,769	9,721
Hard hardwoods	1,204,967	42,645	1,159,890	2,432

Table 7. 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 Camden, Arkansas in 2019.

MERCHANTABLE BOLE BIOMASS REMOVALS IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	16,122,333	124,784	15,806,757	190,791
Pines	12,610,847	117,405	12,384,433	109,009
Other softwoods	1,240	0	1,240	0
Soft hardwoods	986,466	1,683	936,597	48,186
Hard hardwoods	2,523,780	5,696	2,484,487	33,597

SAWLOG PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	12,022,153	108,375	11,797,410	116,368
Pines	9,940,120	103,151	9,744,837	92,132
Other softwoods	0	0	0	0
Soft hardwoods	312,873	0	303,344	9,529
Hard hardwoods	1,769,160	5,224	1,749,229	14,707

PULPWOOD and TOPWOOD PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	4,100,180	16,409	4,009,347	74,423
Pines	2,670,728	14,255	2,639,596	16,877
Other softwoods	1,240	0	1,240	0
Soft hardwoods	673,593	1,683	633,254	38,657
Hard hardwoods	754,619	472	735,258	18,889

Table 8. 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 Camden, Arkansas in 2019.

MERCHANTABLE BOLE BIOMASS ANNUAL NET SURPLUS IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	9,722,506	635,578	9,251,159	-164,230
Pines	7,882,387	283,909	7,694,851	-96,373
Other softwoods	141,200	25,048	116,152	0
Soft hardwoods	679,582	57,424	660,245	-38,087
Hard hardwoods	1,019,338	269,197	779,911	-29,770

SAWLOG PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	5,756,003	577,019	5,285,529	-106,544
Pines	4,605,107	287,519	4,401,669	-84,080
Other softwoods	118,924	14,072	104,852	0
Soft hardwoods	462,982	48,404	423,729	-9,151
Hard hardwoods	568,990	227,024	355,278	-13,313

PULPWOOD and TOPWOOD PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	3,966,503	58,559	3,965,630	-57,686
Pines	3,277,280	-3,610	3,293,182	-12,292
Other softwoods	22,276	10,976	11,300	0
Soft hardwoods	216,600	9,020	236,516	-28,936
Hard hardwoods	450,348	42,173	424,632	-16,457

Table 9. 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 Camden, Arkansas in 2019.

TOTAL MERCHANTABLE BOLE GROWING STOCK IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	792,010,015	128,427,262	663,582,752	0
Pines	415,286,318	53,975,418	361,310,899	0
Other softwoods	17,608,754	5,002,109	12,606,645	0
Soft hardwoods	99,199,178	14,488,227	84,710,951	0
Hard hardwoods	259,915,765	54,961,509	204,954,256	0

SAWLOG PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	512,257,381	89,992,629	422,264,752	0
Pines	297,279,017	45,316,118	251,962,899	0
Other softwoods	13,784,836	3,741,496	10,043,341	0
Soft hardwoods	43,016,391	7,315,536	35,700,856	0
Hard hardwoods	158,177,136	33,619,479	124,557,656	0

PULPWOOD and TOPWOOD PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	279,752,634	38,434,633	241,318,000	0
Pines	118,007,301	8,659,300	109,348,000	0
Other softwoods	3,823,918	1,260,613	2,563,304	0
Soft hardwoods	56,182,787	7,172,691	49,010,095	0
Hard hardwoods	101,738,629	21,342,030	80,396,600	0

Table 10. 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 Camden, Arkansas in 2019.

MERCHANTABLE BOLE BIOMASS ANNUAL NET GROWTH IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	40,610,125	2,484,253	38,071,497	54,375
Pines	30,802,929	1,436,578	29,331,677	34,674
Other softwoods	454,068	144,160	309,908	0
Soft hardwoods	2,887,722	222,462	2,655,497	9,763
Hard hardwoods	6,465,406	681,053	5,774,415	9,938

SAWLOG PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	27,931,636	2,182,808	25,715,752	33,076
Pines	22,087,307	1,394,828	20,662,631	29,848
Other softwoods	390,657	128,768	261,888	0
Soft hardwoods	1,337,002	143,797	1,196,247	-3,042
Hard hardwoods	4,116,669	515,414	3,594,985	6,270

PULPWOOD and TOPWOOD PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	12,678,489	301,445	12,355,745	21,299
Pines	8,715,622	41,750	8,669,046	4,826
Other softwoods	63,412	15,392	48,020	0
Soft hardwoods	1,550,720	78,665	1,459,250	12,805
Hard hardwoods	2,348,736	165,639	2,179,430	3,668

Table 11. 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 Camden, Arkansas in 2019.

MERCHANTABLE BOLE BIOMASS REMOVALS IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	25,646,046	553,040	24,509,104	583,901
Pines	20,014,084	313,274	19,370,026	330,784
Other softwoods	22,073	1,377	7,227	13,469
Soft hardwoods	1,548,528	18,190	1,433,368	96,970
Hard hardwoods	4,061,362	220,200	3,698,483	142,678

SAWLOG PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	17,461,758	432,110	16,650,287	379,362
Pines	14,667,166	281,176	14,114,151	271,839
Other softwoods	15,779	0	3,493	12,287
Soft hardwoods	414,028	3,567	391,870	18,591
Hard hardwoods	2,364,786	147,367	2,140,773	76,646

PULPWOOD and TOPWOOD PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	8,184,288	120,931	7,858,818	204,539
Pines	5,346,918	32,098	5,255,876	58,945
Other softwoods	6,293	1,377	3,734	1,183
Soft hardwoods	1,134,500	14,623	1,041,498	78,379
Hard hardwoods	1,696,576	72,833	1,557,710	66,033

Table 12. 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 Camden, Arkansas in 2019.

MERCHANTABLE BOLE BIOMASS ANNUAL NET SURPLUS IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	14,964,079	1,931,213	13,562,393	-529,527
Pines	10,788,845	1,123,305	9,961,650	-296,110
Other softwoods	431,996	142,783	302,682	-13,469
Soft hardwoods	1,339,194	204,272	1,222,129	-87,207
Hard hardwoods	2,404,044	460,853	2,075,931	-132,740

SAWLOG PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	10,469,877	1,750,699	9,065,465	-346,286
Pines	7,420,142	1,113,652	6,548,480	-241,991
Other softwoods	374,877	128,768	258,396	-12,287
Soft hardwoods	922,975	140,231	804,377	-21,633
Hard hardwoods	1,751,884	368,047	1,454,212	-70,375

PULPWOOD and TOPWOOD PORTION IN TONS				
Species group	Total	Ownership group		
		Public	Private	Not available
Total	4,494,202	180,514	4,496,928	-183,240
Pines	3,368,703	9,652	3,413,170	-54,119
Other softwoods	57,118	14,015	44,286	-1,183
Soft hardwoods	416,220	64,041	417,752	-65,574
Hard hardwoods	652,160	92,806	621,719	-62,365