

**Table 1—Land area by survey unit and land class, east Texas, 2003**

Survey unit	Total land area <sup>a</sup>	Total forest	Forestland			Other land <sup>b</sup>
			Timberland	Productive reserved	Other	
			<i>thousand acres</i>			
Southeast	11,831.5	6,747.0	6,543.6	137.7	65.7	5,084.6
Northeast	9,635.2	5,382.9	5,341.2	0.0	41.7	4,252.3
All units	21,466.7	12,129.9	11,884.8	137.7	107.4	9,336.9

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

0.0 = a value of >0.0 but <0.05 for the cell.

<sup>a</sup> From the U.S. Bureau of the Census, 2000.

<sup>b</sup> Includes 122.2 thousand acres of water according to Forest Inventory and Analysis standards of area classification, but defined by the Bureau of the Census as land.

**Table 2—Area of timberland by survey unit and ownership class, east Texas, 2003**

Survey unit	All classes	Ownership class			
		National forest	Other public	Forest industry	Nonindustrial private
<i>thousand acres</i>					
Southeast	6,543.6	585.1	110.4	2,731.8	3,116.2
Northeast	5,341.2	100.7	151.7	672.7	4,416.0
All units	11,884.8	685.8	262.2	3,404.6	7,532.3

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

**Table 3—Area of timberland by survey unit and forest-type group, east Texas, 2003**

Survey unit	Forest-type group										
	All groups	Longleaf-slash	Loblolly-shortleaf	Pinyon-juniper <sup>a</sup>	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Other western hardwood	Exotic hardwood	Non-stocked
	<i>thousand acres</i>										
Southeast	6,543.6	169.2	3,311.1	11.8	792.2	1,149.5	669.1	242.6	10.3	133.8	53.9
Northeast	5,341.2	29.8	1,638.7	33.9	666.5	1,985.9	592.4	338.6	0.0	0.0	55.3
All units	11,884.8	199.0	4,949.8	45.8	1,458.7	3,135.4	1,261.6	581.2	10.3	133.8	109.2

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

0.0 = a value of >0.0 but <0.05 for the cell.

<sup>a</sup> Pinyon-juniper includes Eastern redcedar forest type.

**Table 4—Area of timberland by survey unit and stand-size class, east Texas, 2003**

Survey unit	All classes	Stand-size class			
		Sawtimber	Poletimber	Sapling-seedling	Nonstocked
<i>thousand acres</i>					
Southeast	6,543.6	3,434.4	1,590.4	1,464.8	53.9
Northeast	5,341.2	2,661.5	1,267.0	1,357.5	55.3
All units	11,884.8	6,095.9	2,857.4	2,822.3	109.2

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

**Table 5—Area of timberland by forest-type group, stand origin, and ownership class, east Texas, 2003**

Forest-type group and stand origin	All classes	Ownership class			
		National forest	Other public	Forest industry	Nonindustrial private
<i>thousand acres</i>					
Softwood types					
Longleaf-slash pine					
Planted	125.5	5.7	0.0	111.7	8.1
Natural	73.5	5.8	0.0	43.9	23.8
Total	199.0	11.5	0.0	155.6	31.9
Loblolly-shortleaf pine					
Planted	2,410.5	127.8	4.6	1,535.8	742.3
Natural	2,539.3	419.6	61.8	535.2	1,522.7
Total	4,949.8	547.4	66.4	2,071.0	2,265.0
Pinyon-juniper <sup>a</sup>	45.8	0.0	0.0	3.3	42.4
Total softwood	5,194.6	558.9	66.4	2,230.0	2,339.3
Hardwood types					
Oak-pine					
Planted	189.4	3.5	0.0	102.3	83.6
Natural	1,269.3	48.6	16.7	272.2	931.9
Total	1,458.7	52.1	16.7	374.5	1,015.5
Oak-hickory	3,135.4	45.0	85.8	320.0	2,684.6
Oak-gum-cypress	1,261.6	17.1	43.6	380.4	820.5
Elm-ash-cottonwood	581.2	12.6	39.2	44.3	484.9
Other western hardwood	10.3	0.0	0.0	0.0	10.3
Exotic hardwood	133.8	0.0	7.9	11.7	114.2
Total hardwood	6,581.0	126.9	193.2	1,130.9	5,130.0
Nonstocked	109.2	0.0	2.5	43.7	63.0
All groups	11,884.8	685.8	262.2	3,404.6	7,532.3

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

0.0 = a value of >0.0 but <0.05 for the cell.

<sup>a</sup> Pinyon-juniper includes Eastern redcedar forest type.

**Table 6—Number of live trees on timberland by species group and diameter class, east Texas, 2003**

Species group	All classes	Diameter class ( <i>inches at breast height</i> )											
		1.0 – 2.9	3.0 – 4.9	5.0 – 6.9	7.0 – 8.9	9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>thousand trees</i>													
Softwood													
Yellow pine	2,157,365	955,342	475,931	292,006	183,550	98,668	59,261	34,992	23,498	14,326	8,617	10,164	1,011
Other softwoods	115,988	76,222	18,316	7,643	4,668	3,204	2,025	1,150	831	762	355	565	245
All softwoods	2,273,353	1,031,563	494,248	299,649	188,218	101,872	61,286	36,142	24,329	15,088	8,972	10,729	1,256
Hardwood													
Soft hardwoods	2,100,738	1,499,078	323,434	122,455	67,747	37,338	21,583	13,565	6,738	3,625	2,504	2,486	185
Hard hardwoods	3,209,231	2,274,265	478,700	184,492	99,263	59,913	38,135	27,005	16,006	11,346	7,703	10,515	1,887
All hardwoods	5,309,969	3,773,342	802,134	306,947	167,010	97,251	59,718	40,570	22,744	14,971	10,207	13,001	2,073
All species	7,583,321	4,804,905	1,296,382	606,596	355,228	199,124	121,004	76,712	47,073	30,059	19,179	23,730	3,329

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

**Table 7—Number of growing-stock trees on timberland by species group and diameter class, east Texas, 2003**

Species group	All classes	Diameter class ( <i>inches at breast height</i> )											
		1.0 – 2.9	3.0 – 4.9	5.0 – 6.9	7.0 – 8.9	9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>thousand trees</i>													
Softwood													
Yellow pine	1,944,540	786,211	450,881	282,155	179,263	96,327	58,515	34,569	23,264	14,094	8,463	9,860	940
Other softwoods	74,493	47,185	10,452	5,757	3,683	2,746	1,731	773	630	562	275	487	210
All softwoods	<u>2,019,033</u>	<u>833,396</u>	<u>461,333</u>	<u>287,912</u>	<u>182,946</u>	<u>99,073</u>	<u>60,246</u>	<u>35,342</u>	<u>23,894</u>	<u>14,656</u>	<u>8,738</u>	<u>10,346</u>	<u>1,150</u>
Hardwood													
Soft hardwoods	916,495	537,816	171,077	84,282	50,955	30,316	17,269	11,724	5,719	3,129	2,046	2,046	115
Hard hardwoods	1,059,033	522,992	214,166	112,951	71,447	46,621	30,694	22,091	12,954	9,051	6,071	8,797	1,198
All hardwoods	<u>1,975,527</u>	<u>1,060,808</u>	<u>385,243</u>	<u>197,233</u>	<u>122,402</u>	<u>76,938</u>	<u>47,963</u>	<u>33,815</u>	<u>18,673</u>	<u>12,179</u>	<u>8,117</u>	<u>10,843</u>	<u>1,313</u>
All species	<u>3,994,560</u>	<u>1,894,204</u>	<u>846,575</u>	<u>485,145</u>	<u>305,348</u>	<u>176,011</u>	<u>108,210</u>	<u>69,157</u>	<u>42,567</u>	<u>26,836</u>	<u>16,856</u>	<u>21,190</u>	<u>2,463</u>

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

**Table 8—Volume of live trees on timberland by species group and diameter class, east Texas, 2003**

Species group	All classes	Diameter class ( <i>inches at breast height</i> )									
		5.0 – 6.9	7.0 – 8.9	9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>million cubic feet</i>											
Softwood											
Yellow pine	9,124.4	673.2	1,082.5	1,156.1	1,186.6	1,074.1	1,040.1	839.0	663.0	1,172.7	237.1
Other softwoods	311.3	18.0	27.2	31.5	32.9	24.4	24.6	33.6	19.5	52.8	46.8
All softwoods	9,435.7	691.2	1,109.7	1,187.5	1,219.5	1,098.5	1,064.7	872.6	682.5	1,225.5	283.9
Hardwood											
Soft hardwoods	2,501.5	275.9	368.9	381.8	365.0	329.8	233.8	162.0	144.8	201.6	38.0
Hard hardwoods	5,240.5	421.4	515.4	568.1	587.8	605.6	494.8	471.6	405.9	847.2	322.6
All hardwoods	7,742.0	697.3	884.3	949.9	952.9	935.3	728.6	633.6	550.7	1,048.8	360.6
All species	17,177.6	1,388.5	1,994.0	2,137.4	2,172.4	2,033.8	1,793.3	1,506.2	1,233.2	2,274.3	644.6

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

**Table 9—Volume of growing-stock trees on timberland by species group and diameter class, east Texas, 2003**

Species group	All classes	Diameter class ( <i>inches at breast height</i> )									
		5.0 – 6.9	7.0 – 8.9	9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>million cubic feet</i>											
<b>Softwood</b>											
Yellow pine	8,977.0	654.0	1,059.9	1,132.4	1,175.7	1,064.0	1,032.9	830.1	655.0	1,148.4	224.5
Other softwoods	260.6	14.5	22.5	27.5	29.5	17.6	19.1	27.1	16.0	47.4	39.2
All softwoods	9,237.5	668.5	1,082.4	1,160.0	1,205.2	1,081.7	1,052.1	857.2	671.0	1,195.8	263.8
<b>Hardwood</b>											
Soft hardwoods	2,109.8	201.3	291.9	324.6	308.8	296.5	207.0	146.5	126.1	178.9	28.1
Hard hardwoods	4,273.8	282.0	396.8	464.5	494.2	515.3	422.7	398.1	341.9	744.3	213.9
All hardwoods	6,383.6	483.4	688.8	789.0	803.1	811.8	629.6	544.6	468.0	923.3	242.0
All species	15,621.1	1,151.8	1,771.1	1,949.0	2,008.2	1,893.5	1,681.7	1,401.8	1,139.1	2,119.0	505.8

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

**Table 10—Volume of sawtimber on timberland by species group and diameter class, east Texas, 2003**

Species group	All classes	Diameter class ( <i>inches at breast height</i> )							
		9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>million board feet</i>									
Softwood									
Yellow pine	39,372.2	4,113.9	5,339.1	5,515.8	5,841.8	4,999.7	4,146.1	7,758.0	1,657.9
Other softwoods	1,154.2	95.6	125.3	82.8	94.2	142.5	87.1	278.7	247.9
All softwoods	40,526.4	4,209.4	5,464.4	5,598.6	5,936.1	5,142.2	4,233.1	8,036.7	1,905.9
Hardwood									
Soft hardwoods	5,879.1	0.0	1,079.9	1,223.1	957.7	732.6	672.9	1,031.9	181.1
Hard hardwoods	15,204.7	0.0	1,780.6	2,152.6	1,949.6	1,972.7	1,781.1	4,219.0	1,349.1
All hardwoods	21,083.9	0.0	2,860.5	3,375.7	2,907.3	2,705.3	2,454.0	5,250.9	1,530.2
All species	61,610.3	4,209.4	8,324.9	8,974.3	8,843.4	7,847.5	6,687.1	13,287.6	3,436.1

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

0.0 = a value of >0.0 but <0.05 for the cell.

**Table 11—Volume of live trees on timberland by survey unit and species group, east Texas, 2003**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Southeast	9,730.1	6,057.0	5,933.5	123.5	3,673.1	1,186.6	2,486.5
Northeast	7,447.5	3,378.7	3,190.9	187.8	4,068.8	1,314.9	2,753.9
All units	17,177.6	9,435.7	9,124.4	311.3	7,742.0	2,501.5	5,240.5

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

**Table 12—Volume of growing-stock on timberland by survey unit and species group, east Texas, 2003**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Southeast	8,935.9	5,980.0	5,871.7	108.2	2,956.0	986.4	1,969.5
Northeast	6,685.2	3,257.6	3,105.2	152.3	3,427.6	1,123.3	2,304.3
All units	15,621.1	9,237.5	8,977.0	260.6	6,383.6	2,109.8	4,273.8

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

**Table 13—Volume of sawtimber on timberland by survey unit and species group, east Texas, 2003**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million board feet</i>							
Southeast	35,780.2	25,881.9	25,401.0	480.8	9,898.4	2,772.6	7,125.8
Northeast	25,830.0	14,644.5	13,971.2	673.3	11,185.5	3,106.5	8,079.0
All units	61,610.3	40,526.4	39,372.2	1,154.2	21,083.9	5,879.1	15,204.7

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

**Table 14—Volume of live trees and growing stock on timberland by ownership class and species group, east Texas, 2003**

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<b>Live trees (million cubic feet)</b>							
National forest	2,122.7	1,755.1	1,755.0	0.1	367.6	121.6	246.1
Other public	478.4	208.1	157.2	50.9	270.4	105.3	165.0
Forest industry	4,501.6	2,955.7	2,838.9	116.8	1,545.9	514.6	1,031.3
Nonindustrial private	10,074.9	4,516.9	4,373.4	143.5	5,558.0	1,760.0	3,798.0
All classes	17,177.6	9,435.7	9,124.4	311.3	7,742.0	2,501.5	5,240.5
<b>Growing-stock trees (million cubic feet)</b>							
National forest	2,083.9	1,751.6	1,751.5	0.1	332.3	111.3	221.0
Other public	430.1	197.8	156.6	41.2	232.3	91.8	140.5
Forest industry	4,243.0	2,928.3	2,814.0	114.3	1,314.7	432.5	882.2
Nonindustrial private	8,864.1	4,359.8	4,254.8	105.0	4,504.4	1,474.2	3,030.1
All classes	15,621.1	9,237.5	8,977.0	260.6	6,383.6	2,109.8	4,273.8

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

**Table 15—Volume of sawtimber on timberland by ownership class and species group, east Texas, 2003**

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<b>All size classes (million board feet)</b>							
National forest	10,463.6	9,481.7	9,481.7	0.0	981.9	301.1	680.8
Other public	1,857.6	1,073.0	886.0	187.0	784.6	286.7	498.0
Forest industry	14,834.6	10,312.2	9,715.7	596.5	4,522.4	1,198.8	3,323.6
Nonindustrial private	34,454.5	19,659.5	19,288.8	370.7	14,795.0	4,092.6	10,702.4
All classes	61,610.3	40,526.4	39,372.2	1,154.2	21,083.9	5,879.1	15,204.7
<b>Trees ≥ 15.0 d.b.h. (million board feet)</b>							
National forest	8,244.2	7,581.6	7,581.6	0.0	662.7	174.1	488.5
Other public	1,442.6	912.2	773.4	138.8	530.4	166.7	363.7
Forest industry	8,296.5	4,940.0	4,411.5	528.5	3,356.5	749.5	2,607.0
Nonindustrial private	22,118.3	11,820.2	11,637.0	183.2	10,298.2	2,485.8	7,812.4
All classes	40,101.7	25,254.0	24,403.5	850.5	14,847.7	3,576.1	11,271.6

Numbers in rows and columns may not sum to totals due to rounding.  
0.0 = a value of >0.0 but <0.05 for the cell.

**Table 16—Volume of growing-stock on timberland by forest-type group, stand origin, and species group, east Texas, 2003**

Forest-type group and stand origin	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
<b>Softwood types</b>							
Longleaf-slash pine							
Planted	150.8	146.0	146.0	0.0	4.8	2.2	2.6
Natural	145.3	126.8	126.8	0.0	18.5	10.6	7.9
Total	296.1	272.8	272.8	0.0	23.3	12.8	10.5
Loblolly-shortleaf pine							
Planted	2,447.2	2,311.3	2,310.2	1.0	135.9	58.9	77.0
Natural	5,991.2	5,130.2	5,122.5	7.7	860.9	317.7	543.2
Total	8,438.4	7,441.5	7,432.7	8.8	996.9	376.6	620.3
Pinyon-juniper <sup>a</sup>							
Total softwood	8,752.1	7,730.3	7,707.8	22.4	1,021.9	390.1	631.7
<b>Hardwood types</b>							
Oak-pine							
Planted	50.6	28.8	28.8	0.0	21.8	7.2	14.7
Natural	1,634.0	878.7	865.6	13.0	755.4	219.7	535.6
Total	1,684.6	907.5	894.4	13.0	777.2	226.9	550.3
Oak-hickory	2,679.9	311.2	289.1	22.1	2,368.6	653.9	1,714.7
Oak-gum-cypress	1,888.2	277.0	77.2	199.8	1,611.2	471.1	1,140.1
Elm-ash-cottonwood	574.6	6.8	4.6	2.2	567.8	348.7	219.0
Exotic hardwood	40.1	4.0	3.1	0.9	36.1	18.2	17.8
Total hardwood	6,867.4	1,506.6	1,268.5	238.0	5,360.8	1,718.9	3,641.9
Nonstocked	1.6	0.7	0.6	0.1	0.9	0.8	0.1
All groups	15,621.1	9,237.5	8,977.0	260.6	6,383.6	2,109.8	4,273.8

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

0.0 = a value of >0.0 but <0.05 for the cell.

<sup>a</sup> Pinyon-juniper includes Eastern redcedar forest type.

**Table 17—Average net annual growth of live trees on timberland by survey unit and species group, east Texas, 1992-2002**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Southeast	464.4	355.8	353.7	2.1	108.6	35.8	72.8
Northeast	331.1	190.6	183.5	7.2	140.5	50.4	90.1
All units	795.5	546.5	537.2	9.3	249.1	86.2	162.9

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

**Table 18—Average net annual growth of growing stock on timberland by survey unit and species group, east Texas, 1992-2002**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Southeast	442.1	350.5	349.0	1.5	91.6	29.0	62.7
Northeast	301.4	182.1	175.9	6.2	119.3	39.2	80.1
All units	743.5	532.6	524.8	7.8	210.9	68.2	142.7

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

**Table 19—Average net annual growth of sawtimber on timberland by survey unit and species group, east Texas, 1992-2002**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million board feet</i>							
Southeast	1,682.7	1,334.3	1,325.6	8.7	348.4	82.4	266.0
Northeast	1,261.0	800.9	777.9	23.1	460.1	124.1	336.0
All units	2,943.8	2,135.2	2,103.5	31.7	808.5	206.5	602.0

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

**Table 20—Average annual removals of live trees on timberland by survey unit and species group, east Texas, 1992-2002**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Southeast	419.2	317.6	316.2	1.4	101.6	32.1	69.5
Northeast	318.1	198.3	197.5	0.9	119.8	37.8	82.0
All units	737.3	515.9	513.6	2.3	221.4	69.9	151.5

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

**Table 21—Average annual removals of growing stock on timberland by survey unit and species group, east Texas, 1992-2002**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Southeast	391.5	310.5	309.5	1.0	80.9	27.4	53.6
Northeast	284.3	192.1	191.3	0.8	92.2	29.2	63.0
All units	675.7	502.6	500.8	1.8	173.1	56.6	116.6

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

**Table 22—Average annual removals of sawtimber on timberland by survey unit and species group, east Texas, 1992-2002**

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million board feet</i>							
Southeast	1,410.3	1,168.1	1,162.6	5.6	242.2	64.8	177.4
Northeast	1,089.9	818.4	816.0	2.3	271.5	64.5	207.0
All units	2,500.2	1,986.5	1,978.6	7.9	513.7	129.3	384.4

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

**Table 23—Average net annual growth and average annual removals of live trees, growing stock, and sawtimber on timberland by species group, east Texas, 1992-2002**

Species group	Live trees		Growing stock		Sawtimber	
	Net annual growth	Annual removals	Net annual growth	Annual removals	Net annual growth	Annual removals
	----- million cubic feet -----				million board feet	
Softwood						
Yellow pine	537.2	513.6	524.8	500.8	2,103.5	1,978.6
Other softwood	9.3	2.3	7.8	1.8	31.7	7.9
All softwoods	546.5	515.9	532.6	502.6	2,135.2	1,986.5
Hardwood						
Soft hardwood	86.2	69.9	68.2	56.6	206.5	129.3
Hard hardwood	162.9	151.5	142.7	116.6	602.0	384.4
All hardwoods	249.1	221.4	210.9	173.1	808.5	513.7
All species	795.5	737.3	743.5	675.7	2,943.8	2,500.2

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

**Table 24—Average annual mortality of live trees, growing stock, and sawtimber on timberland by species group, east Texas, 1992-2002**

Species group	Live trees	Growing stock	Sawtimber
	<i>--- million cubic feet ---</i>		<i>mmbf</i>
Softwood			
Yellow pine	70.9	65.4	277.8
Other softwood	1.4	1.2	5.4
All softwoods	72.3	66.7	283.2
Hardwood			
Soft hardwood	32.7	22.4	57.1
Hard hardwood	74.5	39.7	142.0
All hardwoods	107.2	62.1	199.1
All species	179.5	128.7	482.3

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

**Table 25—Average net annual growth and annual removals of live trees on timberland by ownership class and species group, east Texas, 1992-2002**

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<b>Average net annual growth (million cubic feet)</b>							
National forest	59.0	50.1	50.1	—	8.9	2.8	6.1
Other public	11.1	5.0	4.5	0.6	6.1	2.1	4.0
Forest industry	293.6	243.3	241.3	1.9	50.3	15.1	35.2
Nonindustrial private	431.8	248.1	241.3	6.8	183.8	66.2	117.6
All classes	795.5	546.5	537.2	9.3	249.1	86.2	162.9
<b>Average annual removals (million cubic feet)</b>							
National forest	26.6	24.4	24.4	—	2.2	1.2	1.0
Other public	9.4	6.2	6.2	—	3.2	1.5	1.7
Forest industry	236.2	194.8	194.4	0.4	41.4	9.8	31.6
Nonindustrial private	465.1	290.5	288.6	1.8	174.6	57.4	117.2
All classes	737.3	515.9	513.6	2.3	221.4	69.9	151.5

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

— = no sample for the cell.

**Table 26—Average net annual growth and annual removals of growing stock on timberland by ownership class and species group, east Texas, 1992-2002**

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<b>Average net annual growth (million cubic feet)</b>							
National forest	59.7	50.7	50.7	—	9.0	2.5	6.5
Other public	10.1	4.7	4.1	0.6	5.4	2.0	3.5
Forest industry	284.1	239.3	237.5	1.8	44.9	13.5	31.4
Nonindustrial private	389.6	238.0	232.6	5.4	151.6	50.3	101.4
All classes	743.5	532.6	524.8	7.8	210.9	68.2	142.7
<b>Average annual removals (million cubic feet)</b>							
National forest	26.3	24.3	24.3	—	2.0	1.0	1.0
Other public	8.7	6.2	6.2	—	2.5	1.3	1.2
Forest industry	225.0	190.9	190.5	0.4	34.1	8.3	25.8
Nonindustrial private	415.7	281.2	279.8	1.4	134.5	45.9	88.6
All classes	675.7	502.6	500.8	1.8	173.1	56.6	116.6

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

— = no sample for the cell.

**Table 27—Average net annual growth and annual removals of sawtimber on timberland by ownership class and species group, east Texas, 1992-2002**

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<b>Average net annual growth (million board feet)</b>							
National forest	291.1	249.3	249.3	—	41.8	7.9	33.9
Other public	53.8	30.8	28.1	2.6	23.0	9.3	13.7
Forest industry	922.1	757.8	746.2	11.6	164.2	32.4	131.9
Nonindustrial private	1,676.8	1,097.3	1,079.8	17.5	579.5	156.9	422.6
All classes	2,943.8	2,135.2	2,103.5	31.7	808.5	206.5	602.0
<b>Average annual removals (million board feet)</b>							
National forest	114.6	111.8	111.8	—	2.8	0.5	2.3
Other public	31.3	24.7	24.7	—	6.6	2.5	4.1
Forest industry	696.1	584.8	582.5	2.4	111.3	21.6	89.7
Nonindustrial private	1,658.2	1,265.2	1,259.7	5.5	393.0	104.6	288.3
All classes	2,500.2	1,986.5	1,978.6	7.9	513.7	129.3	384.4

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

— = no sample for the cell.

**Table 28—Average net annual growth of growing stock on timberland by forest-type group, stand origin, and species group, east Texas, 1992-2002**

Forest-type group <sup>a</sup> and stand origin	Softwoods				Hardwoods		
	All species	All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
<b>Softwood types</b>							
Loblolly-slash pine							
Planted	17.8	17.5	17.5	—	0.3	0.1	0.2
Natural	6.0	5.5	5.5	—	0.5	0.1	0.4
Total	23.8	22.9	22.9	—	0.8	0.2	0.6
Loblolly-shortleaf pine							
Planted	200.6	194.5	194.4	0.1	6.1	2.3	3.8
Natural	191.1	165.0	164.7	0.3	26.1	9.8	16.3
Total	391.8	359.5	359.1	0.4	32.3	12.1	20.1
Pinyon-juniper <sup>b</sup>							
Total softwood	416.2	383.1	382.3	0.8	33.1	12.4	20.7
<b>Hardwood types</b>							
Oak-pine							
Planted	32.2	28.9	28.9	—	3.3	1.3	2.0
Natural	122.5	75.2	72.0	3.2	47.3	16.3	31.1
Total	154.7	104.1	100.8	3.2	50.7	17.6	33.1
Oak-hickory	109.1	36.7	35.7	1.0	72.4	19.4	53.0
Oak-gum-cypress	52.4	8.2	5.5	2.7	44.2	13.7	30.5
Elm-ash-cottonwood	10.7	0.2	0.2	—	10.5	5.1	5.4
Exotic hardwood	0.2	0.1	0.1	—	0.1	0.1	—
Total hardwood	327.1	149.3	142.3	7.0	177.8	55.8	122.0
Nonstocked	0.0	0.0	0.0	—	—	—	—
All groups	743.4	532.5	524.7	7.8	210.9	68.2	142.7

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

— = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

<sup>a</sup> Forest-type groups largely based on an algorithm from the tree tally at the beginning of the remeasurement period that excluded other western hardwood and exotic forest-type groups.

<sup>b</sup> Includes Eastern redcedar forest type.

**Table 29—Average annual removals of growing stock on timberland by forest-type group, stand origin, and species group, east Texas, 1992-2002**

Forest-type group <sup>a</sup> and stand origin	Softwoods				Hardwoods		
	All species	All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Softwood types							
Longleaf-slash pine							
Planted	22.7	22.1	22.1	—	0.6	0.2	0.4
Natural	5.9	5.8	5.8	—	0.1	0.1	—
Total	28.6	27.9	27.9	—	0.7	0.3	0.4
Loblolly-shortleaf pine							
Planted	136.1	134.2	134.2	—	1.9	0.6	1.3
Natural	242.3	220.3	219.9	0.4	22.0	8.9	13.1
Total	378.4	354.5	354.1	0.4	23.9	9.6	14.4
Pinyon-juniper <sup>b</sup>							
Total softwood	408.1	383.5	382.3	1.1	24.7	9.9	14.8
Hardwood types							
Oak-pine							
Planted	9.8	8.6	8.6	—	1.2	0.7	0.6
Natural	132.8	87.1	87.0	0.2	45.6	17.4	28.2
Total	142.5	95.7	95.6	0.2	46.8	18.1	28.7
Oak-hickory	71.4	19.4	19.2	0.2	52.0	12.1	39.9
Oak-gum-cypress	46.0	3.8	3.5	0.3	42.2	13.3	28.9
Elm-ash-cottonwood	7.6	0.1	0.1	—	7.5	3.2	4.3
Total hardwood	267.5	119.0	118.4	0.6	148.5	46.7	101.8
Nonstocked	0.1	0.1	0.1	—	—	—	—
All groups	675.7	502.6	500.8	1.8	173.1	56.6	116.6

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

— = no sample for the cell.

<sup>a</sup> Forest-type groups largely based on an algorithm from the tree tally at the beginning of the remeasurement period that excluded other western hardwood and exotic forest-type groups.

<sup>b</sup> Includes Eastern redcedar forest type.

**Table 30—Average annual<sup>a</sup> area of timberland by treatment and other threshold<sup>b</sup> disturbance and retained in timberland by type and ownership class, east Texas, 1992-2002**

Treatment or other disturbance	All classes	Ownership class		
		Public	Forest industry	Nonindustrial private
<i>thousand acres</i>				
<b>Cutting</b>				
Final harvest	182.8	2.0	72.8	108.1
Partial harvest <sup>c</sup>	175.9	4.6	25.6	145.7
Commercial thinning	129.6	6.8	77.2	45.7
Seed tree/shelterwood	20.7	1.8	4.9	14.0
Other stand improvement	1.4	—	0.6	0.9
<b>Other treatment</b>				
Artificial regeneration <sup>d</sup>	112.8	0.4	63.4	49.0
Site preparation	98.2	0.1	62.9	35.2
Natural regeneration <sup>d</sup>	45.2	2.5	2.0	40.8
Other silvicultural treatment	9.3	1.9	2.6	4.9
<b>Other threshold<sup>b</sup> disturbance</b>				
<b>Weather</b>				
Flood	41.0	5.4	0.6	34.9
Ice	30.3	1.8	6.2	22.3
Drought	4.6	—	—	4.6
Wind	4.2	1.7	0.6	1.9
Other	1.2	—	—	1.2
<b>Fire (prescribed and natural)</b>				
Ground only	21.3	1.7	9.0	10.6
Crown and other	11.0	2.4	5.1	3.4
Insect	15.3	1.0	1.1	13.3
Disease	7.3	—	—	7.3
<b>Wildlife</b>				
Beaver	9.8	1.3	2.2	6.3
Deer/ungulate	2.3	0.6	—	1.6
<b>Other</b>				
Domestic livestock (includes grazing)	10.8	—	—	10.8
Other human-caused disturbance	31.4	—	5.2	26.2

— = no sample for the cell.

<sup>a</sup> Since the last inventory for previously established plots, and within the last 5 years for newly established plots. There are no column totals as some areas may experience more than one treatment or threshold disturbance.

<sup>b</sup> Affecting 25 percent or more of the trees and at least 1 acre in areal extent.

<sup>c</sup> Includes high-grading and some selective cutting.

<sup>d</sup> Includes trees established for timber production on timberland, other forest, and nonforestland.