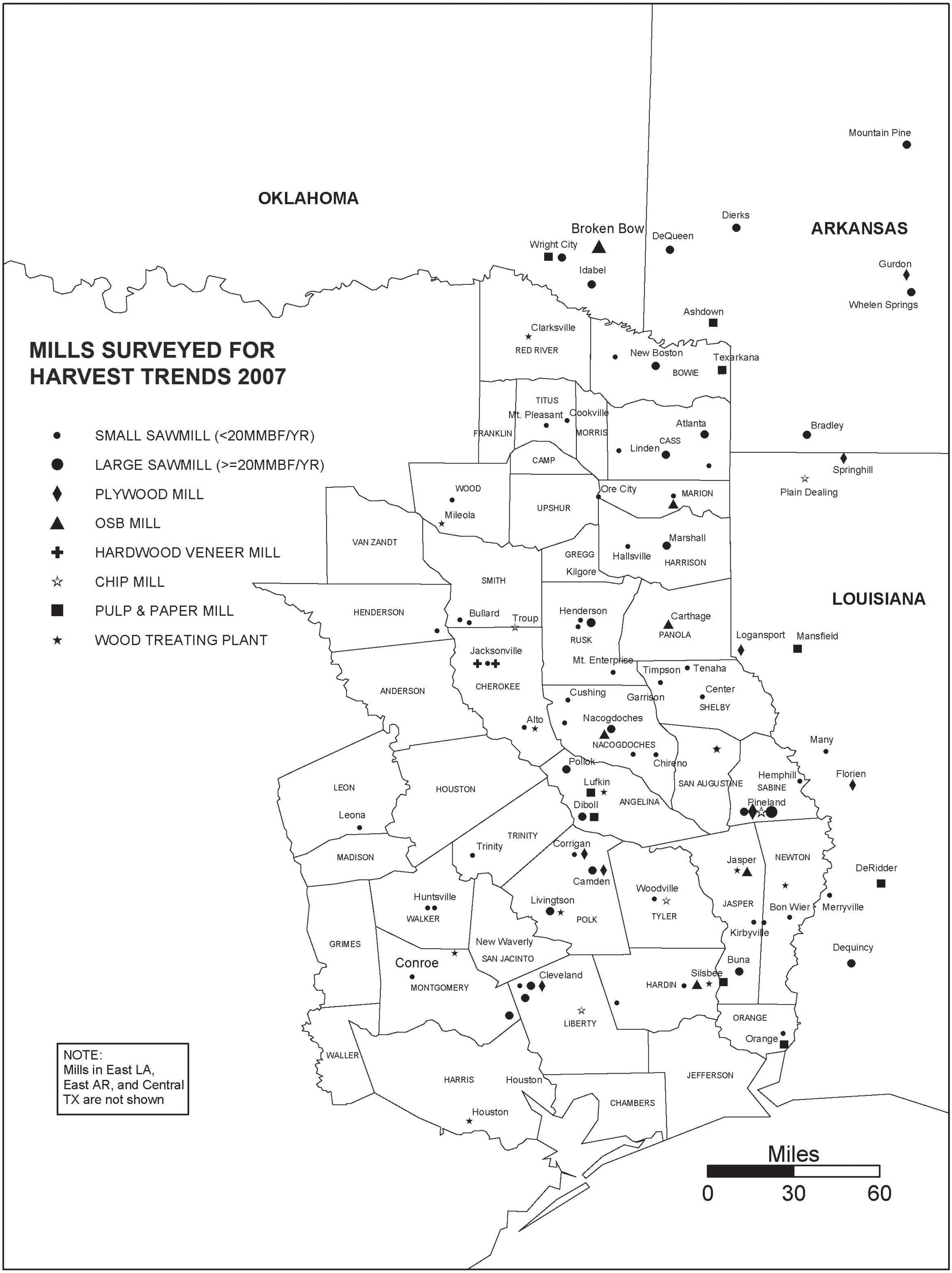
Harvest Trends 2007

November 2008

TEXAS
FOREST SERVICE
The Texas A&M University System


MILLS SURVEYED FOR HARVEST TRENDS 2007
SMALL SAWMILL (<20MMBF/YR)
LARGE SAWMILL (>=20MMBF/YR)
PLYWOOD MILL
OSB MILL
HARDWOOD VENEER MILL
CHIP MILL
PULP & PAPER MILL
WOOD TREATING PLANT
NOTE:
Mills in East LA,
East AR, and Central
TX are not shown
OKLAHOMA
ARKANSAS
LOUISIANA
Mountain Pine
Dierks
Broken Bow
DeQueen
Wright City
Idabel
Gurdon
Whelen Springs
Ashdown
Clarksville
RED RIVER
New Boston
Texarkana
BOWIE
TITUS
Mt. Pleasant
Cookville
FRANKLIN
MORRIS
Atlanta
CASS
Linden
Bradley
Springhill
CAMP
Plain Dealing
WOOD
Ore City
MARION
Mileola
UPSHUR
VAN ZANDT
Marshall
Hallsville
GREGG
HARRISON
Kilgore
SMITH
HENDERSON
Bullard
Troup
Henderson
Carthage
PANOLA
RUSK
Logansport
Mansfield
Jacksonville
CHEROKEE
Mt. Enterprise
Timpson
Tenaha
ANDERSON
Cushing
Garrison
Center
SHELBY
Alto
Nacogdoches
NACOGDOCHES
Many
Pollok
Chireno
LEON
HOUSTON
Lufkin
SAN AUGUSTINE
Hemphill
SABINE
Florien
Diboll
ANGELINA
Pineland
Leona
TRINITY
Trinity
Corrigan
MADISON
Jasper
NEWTON
DeRidder
Camden
Huntsville
WALKER
Livingston
Woodville
TYLER
JASPER
Bon Wier
Merryville
POLK
GRIMES
New Waverly
SAN JACINTO
Kirbyville
Dequincy
Conroe
Buna
MONTGOMERY
Cleveland
Silsbee
HARDIN
LIBERTY
ORANGE
Orange
WALLER
HARRIS
Houston
JEFFERSON
CHAMBERS
Miles
0
30
60

Texas Forest Resource

Harvest Trends 2007

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TEXAS FOREST SERVICE
The Texas A&M University System

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HIGHLIGHTS

Texas Forest Resource Harvest Trends 2007

2007 TIMBER REMOVAL

- Total growing stock timber removal was 619.3 million cubic feet in 2007, a decrease of 3.6 percent from last year.
  - Pine removal was down 0.3 percent to 490.7 million cubic feet.
  - Hardwood removal was down 14.4 percent to 128.6 million cubic feet.
- Harvest of timber for industrial use in the production of wood products was 628.8 million cubic feet.
  - 501.2 million cubic feet of pine was harvested for industrial consumption.
  - 127.6 million cubic feet of hardwood was harvested for industrial consumption.
- Stumpage value rose 16.3 percent to $496.9 million, and delivered value was up 2.7 percent to $834.5 million.
- Harvest of sawlogs decreased 4.6 percent from last year to 1.4 billion board feet.
- Harvest of wood for veneer and structural panel production decreased 9.5 percent to 164.2 million cubic feet from a year ago.
- Pulpwood harvest increased 2.7 percent to 2.8 million cords.
- Timber volume imported from surrounding states to Texas was slightly higher than timber exported to surrounding states from Texas in 2007. The total timber import from other states was 80.8 million cubic feet while the total export was 71.7 million cubic feet. The net import was 9.0 million cubic feet in 2007.

PRIMARY FOREST PRODUCTS

- Production of primary wood products in 2007 included:
  - 1.7 billion board feet of lumber, a drop of 9.7 percent from last year.
  - 2.5 billion square feet of structural panel products, a decrease of 14.7 percent from 2006.
  - 2.8 million tons of paper and paperboard, almost the same as last year.

MILL AND LOGGING RESIDUES

- Total production of mill residue in 2007 was 5.9 million tons.
- Total production of logging residue in 2007 was 3.4 million tons.

Harvest Trends 2007

INTRODUCTION

Forests are vital economic and environmental assets in East Texas. The wood-based industry employed about 76,000 people in 2004 and was one of the top 10 manufacturing sectors in the state. In 23 of 43 East Texas counties, the forest sector was one of the top two largest manufacturing employers. The value of timber ranked sixth in 2006 among Texas' top agricultural commodities, behind beef, cotton, greenhouse and nursery, broilers, and milk[1].

To gather the most current information on the status of this valuable resource, Texas Forest Service conducts an annual survey of the state's primary forest products industry. This 42nd annual report provides information on the volume and value of timber harvested in East Texas during 2007, and reports the production of primary wood products, logging residue, and mill residue. Data on forest management activities is also presented.

Information for this report was provided by 116 mills in Texas and 29 mills in surrounding states. Texas Forest Service appreciates the cooperation of these companies, without which this report would not be possible.

2007 ECONOMIC CONDITIONS

The growth of the U.S. economy continued to slow down in 2007. The real Gross Domestic Product (GDP) growth was 2.0 percent on a year-over-year basis comparing GDP in 2007 as a whole and GDP in 2006 as a whole[2]. The quarterly GDP growth rates in 2007 varied substantially during the year. First quarter GDP growth rate in 2007 was 0.1 percent. It increased to 4.8 percent for both second and third quarters in the year. In the forth quarter, the GDP growth rate was negative 0.2 percent. Lower housing prices and high oil prices took a toll on the national economy in 2007. The Federal Reserve left the federal funds rate unchanged in the first half of the year. In the second half of the year, to combat the obvious slowdown of the economy, the Federal Reserve lowered its target for the federal funds rate three times for a total of 100 basis points from 5-1/4 percent to 4-1/4 percent.[3] Inflation in 2007 was moderate. Mortgage rates went up moderately in 2007. The nation wide average monthly mortgage rate for 30 fixed rate mortgage was 6.33 percent in January. It rose to the high of 6.96 percent in August, and dropped back to 6.61 percent by December[4].

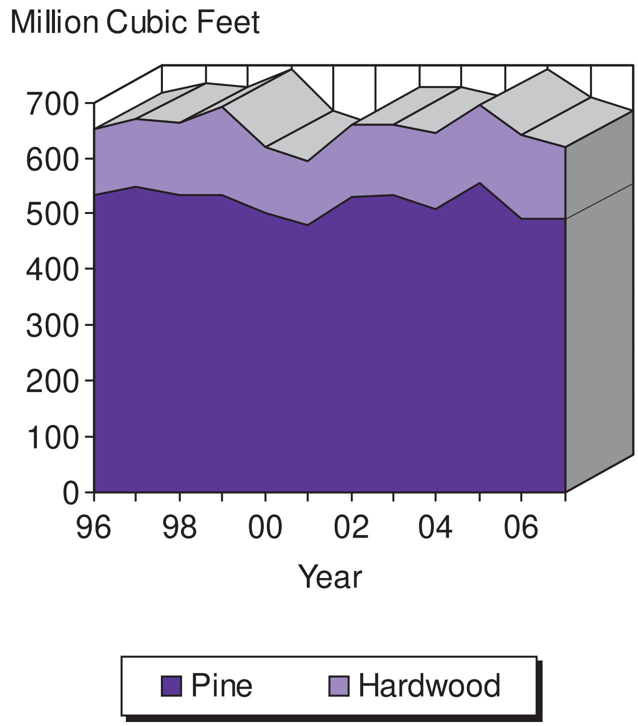
The housing market in the U.S. continued its historical decline following the downward trend set in 2006. The national total number of residential housing units authorized by building permits dropped a whopping 23.8 percent to 1.40 million units in 2007 from 1.84 million units in 2006. Single-family building permits declined 28.7 percent, from 1.38 million units in 2006 to 986,000 million units in 2007. Multi-family permits decreased 9.1 percent in 2007, from 461,000 units to 419,000 units[5].

The growth of the Texas economy was slower than last year but still stronger than the national average. Real Gross State Product (GSP) was up 4.1 percent to $903.4 billion (based on chained 2000 dollar) in 2007 from the previous year[6]. The housing market in Texas also fared better than the national average. The total number of residential building permits in Texas decreased 17.5 percent in 2007 to 178,908 units. Single-family buliding permits declined 26.2 percent to 120,366 units while multi-family housing increased 8.6 percent to 58,542 units in 2007[5].

The slumping housing market had significant negative impact on the demand for solid wood products. Total softwood lumber production in the U.S. in 2007 was 34.8 billion board feet, a drop of 10.1 percent from 2006. Of the total softwood lumber production, 46.8 percent was from the U.S. West, 47.8 percent was from the U.S. South, and 5.3 percent was from the rest of the country. The annual softwood lumber production dropped 7.6 percent in the U.S. West, 5.2 percent in the U.S. South, and 7.2 percent in the other U.S. regions from the previous year[7].

The weak demand of softwood lumber in 2007 resulted in falling prices. The annual average Random Lengths Framing Lumber Composite price decreased 13.1 percent, from $327 per thousand board feet (mbf) in 2006 to $284 per mbf in 2007[7].

The 2007 production of structural panels in the U.S., including plywood and oriented strand board (OSB), slipped 4.9 percent from a year ago, as a result of the weak housing market. The U.S. produced 27.0 billion square feet (3/8-inch basis) of structural panels in 2007, compared to 28.4 billion square feet in 2006. Plywood production was down 9.0 percent to 12.2 billion square feet, while OSB production was off by 1.3 percent to 14.8 billion board feet. OSB



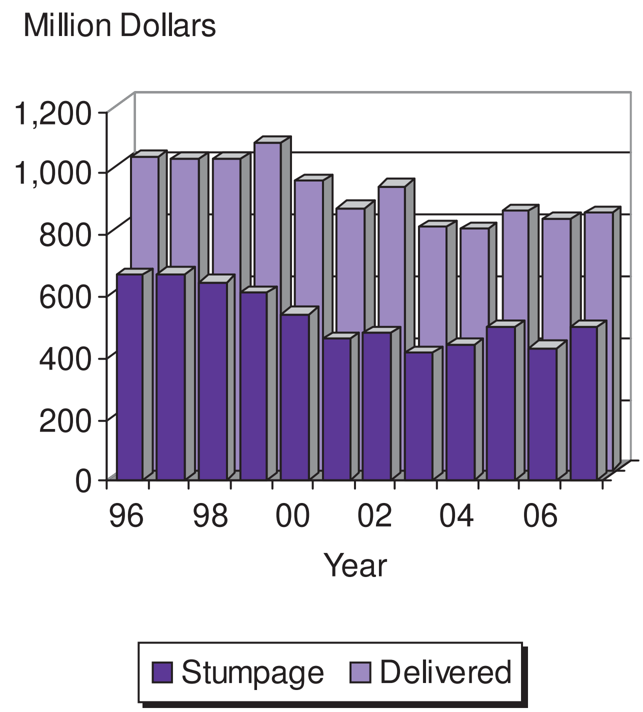


Figure 1. Total Timber Removals, 1996-2007

Figure 2. Value of the Timber Harvest, 1996-2007

continued to gain market share over plywood because of its lower wood cost and higher manufacturing efficiency. The share of OSB in total panel production in the U.S. increased to 54.8 percent in 2007, up from 52.7 percent in 2006[7].

The average price of structural panel continued to decrease in 2007. The average annual Random Lengths Structural Panel Composite price was $298 per thousand square feet (msf) in 2007, which was 5.4 percent lower than that of 2006[7].

The total production of paper and paperboard in the U.S. was up slightly in 2007 compared to the previous year. The total production of paper and paperboard went down 1.1 percent from last year to 91.2 million short tons in 2007. Paper production totaled 40.7 million tons in 2007, a decrease of 2.5 percent from 2006. Paperboard production rose 0.1 percent to 50.5 million tons[8].

STUMPAGE PRICES

According to the *Texas Timber Price Trends* bimonthly timber market report, the average annual pine sawtimber price rose 5.2 percent to $321.40 per mbf, Doyle scale, in 2007, from the 2006 average annual price of $305.58 per mbf. The average annual mixed hardwood sawtimber prices decreased 0.9 percent from its 2006 level to $162.69 per mbf in 2007. Pine pulpwood price jumped up 88 percent to $32.79 per cord from its 2006 price. Mixed hardwood pulpwood prices rose 52.8 percent to $30.09 per cord in 2007. Table 6 provides historic data on stumpage prices. The flat sawtimber prices were due to the slow housing market, while the higher pulpwood prices were the result of market recovery from the effects of salvaged timber from Hurricane Rita.

TIMBER REMOVALS

Growing Stock Removals

Total removals of growing stock in East Texas in 2007, including both pine and hardwood, decreased 3.6 percent from the previous year (Figure 1). The total volume of growing stock removed from the 43-county region was 619.3 million cubic feet in 2007, compared to 642.2 million cubic feet in 2006. Included in the total growing stock removals are timber harvested for industrial use and an estimate of logging residue. Growing stock removals in 2007 and the past years were adjusted using the harvest residue ratios from the updated Texas Wood Utilization Study by the USDA Forest Service.

By species group, growing stock removals in 2007 were comprised of 490.7 million cubic feet of pine and 127.6 million cubic feet of hardwood. Pine removals were down 0.3 percent and hardwood removals were down 14.4 percent from 2006. Figure 3 and Table 14 illustrate the harvest volume by species group by year.

Industrial Roundwood Harvest

Industrial roundwood harvest in Texas, the portion of the total removals that was subsequently utilized in the manufacture of wood products, totaled 501.2 and 127.6 million cubic feet for pine and hardwood, respectively. Pine industrial roundwood harvest was down 0.2 percent, and hardwood roundwood harvest was down 13.9 percent from 2006. The combined harvest dropped 3.0 percent to 628.8 million cubic feet. Ninety five percent of the industrial roundwood was from growing stock and 5 percent of the industrial roundwood was from non-growing stock in 2007 (Table 13).

Table 1 lists the harvest of pine and hardwood by county for 2007. Top timber producing counties included Polk, Tyler, Cass, Newton, and Nacogdoches.

Figure 4 illustrates the intensity of timber harvest expressed in cubic feet of harvest per acre of timberland. Angelina, Cass, San Augustine, Sabine, and Tyler Counties had the highest relative timber harvesting intensity during 2007.

Value of Timber Harvest

As Figure 2 illustrates, stumpage value of East Texas timber harvest increased 16.3 percent in 2007 to $496.9 million. The delivered value was up 2.7 percent to $834.5 million. Pine timber accounted for 88.2 percent of the total stumpage value. Figure 3 depicts the value of the harvest by product. Table 7 lists stumpage and delivered value by product category.

Sawlogs

Harvest of sawlogs for lumber production decreased 4.4 percent to 1.42 billion board feet, which accounted for 37.4 percent of the 2007 total timber harvest. The pine sawlog cut totaled 1.2 billion board feet, the same as last year, while the hardwood sawlog harvest was down 22.4 percent to 192.1 million board feet. Cass, Angelina, Jasper, Newton, and Cherokee counties were the top producers of sawlogs. Table 2 lists sawlog harvest by county.

Veneer and Panel Roundwood

Harvest of timber for the production of structural panels, including plywood, OSB and hardwood veneer, was 164.2 million cubic feet in 2007, a 9.5 percent decline from 2006. The timber harvest for structural panels was 28 percent of the total timber harvest in 2007. Almost all of the veneer and panel roundwood were pine. Polk, Nacogdoches, Angelina, Tyler, and Cherokee counties were the top producers of veneer and panel roundwood. Table 3 lists the harvest of veneer and panel roundwood by county.

Pulpwood

Harvest of timber for pulp and paper products in Texas increased 4.1 percent in 2007 to 2.9 million cords. Roundwood pulpwood harvest accounted for 34.6 percent of the total timber harvest in 2007. Pine pulpwood made up 58.5 percent of the total pulpwood production in 2007. Tyler, Cass, Newton, Polk, and Hardin Counties were the top producers of pulpwood. Table 4 lists the roundwood pulpwood harvest by county.

Other Roundwood

Other roundwood harvest included posts, poles and pilings that totaled 2.8 million cubic feet in 2007. Table 5 lists harvest of these products by county.

Import-Export Trends

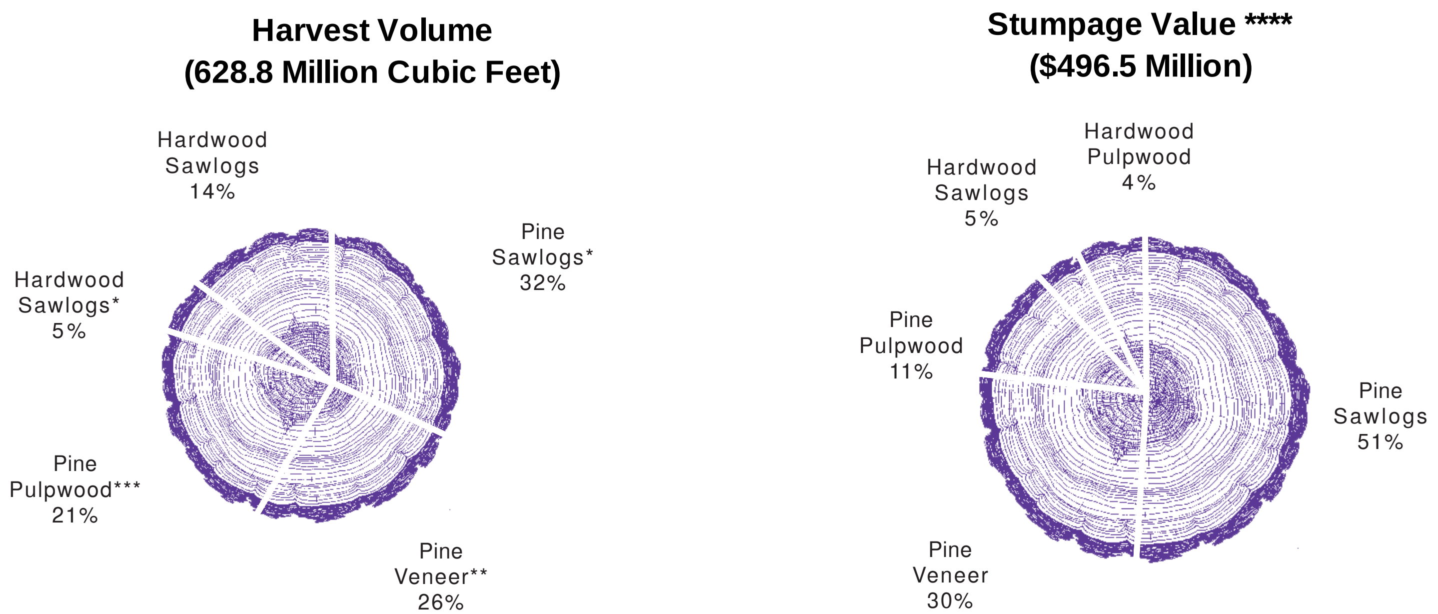
Texas imported slightly more timber from surrounding states than exported to surrounding states in 2007. Exports of roundwood from Texas were 71.7 million cubic feet, while imports totaled 80.8 million cubic feet in 2007. The net imports of roundwood were 9.0 million cubic feet in 2007. Table 8 details the interstate movement of roundwood.

Texas mills utilized 88.6 percent of the timber harvested in the state in 2007. The remainder was processed mainly by mills in Arkansas, Louisiana, and Oklahoma. Details are listed in Table 8.

PRODUCTION OF FOREST PRODUCTS

Lumber

Texas sawmills produced 1.7 billion board feet of lumber in 2007, a decrease of 9.7 percent over 2006. Production of pine lumber decreased 7.5 percent to 1.6 billion board feet in 2007 and hardwood lumber production dropped 24.7 percent to 180.7 million board feet. Table 9 and Figure 5 present a 10-year trend in lumber production.



* Includes chip-n-saw
** Includes panel roundwood (pulpwood sized material chipped for panel producti
*** Includes posts, pole and pilings
**** Products with stumpage value less than 1% of the total are not included

Figure 3. Volume and Value of the Timber Harvest, 2007

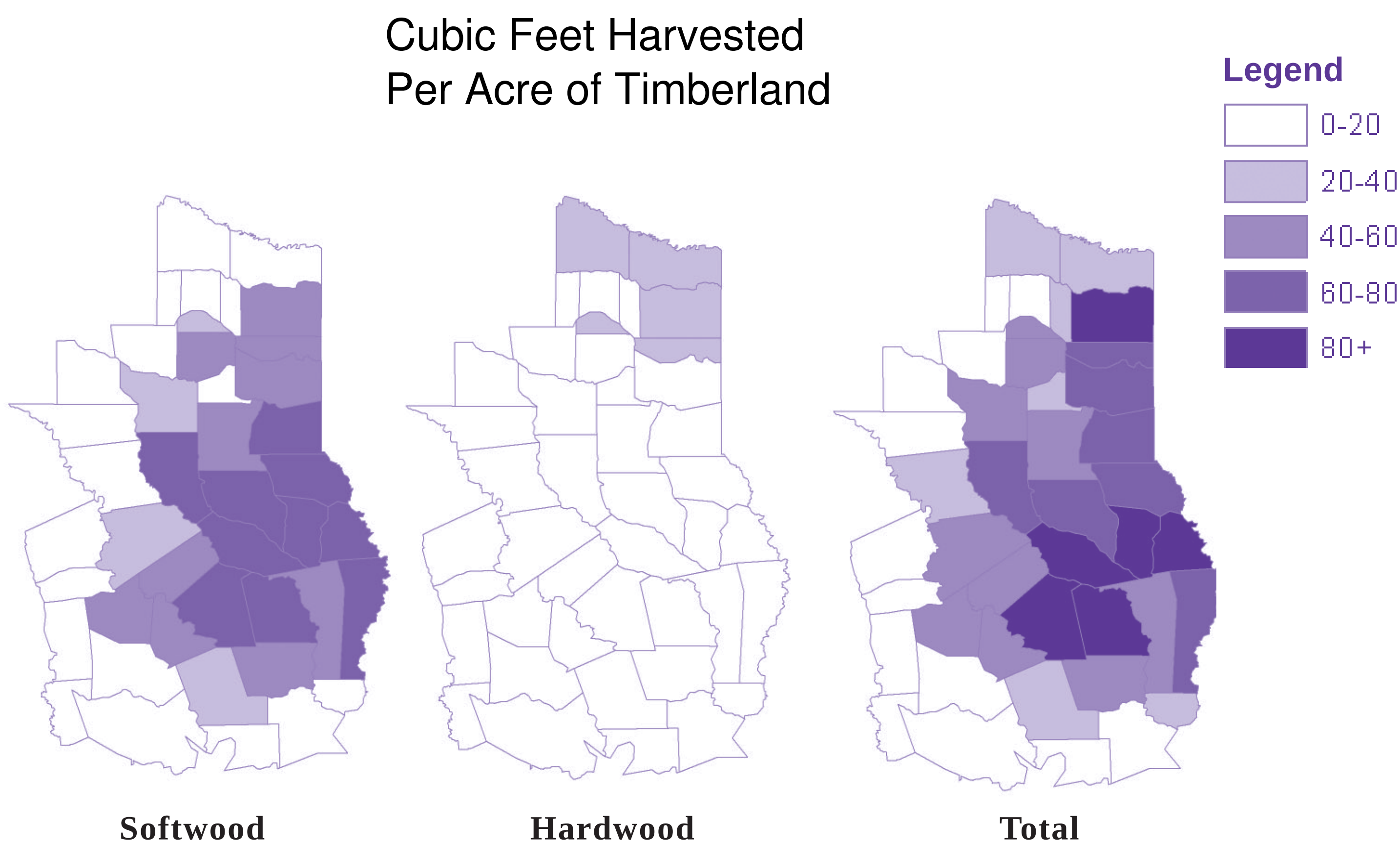


Figure 4. Intensity of Timber Harvest by County, 2007

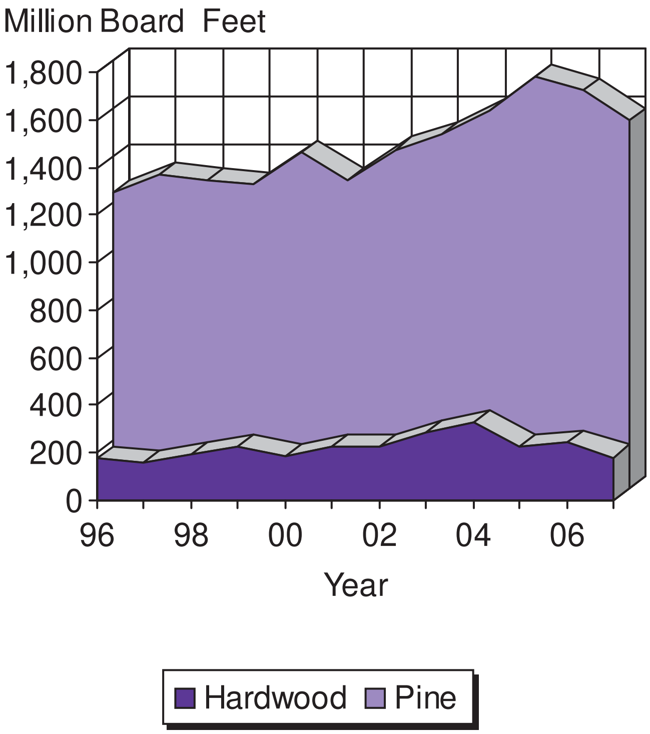


Figure 5. Texas Lumber Production, 1996-2007

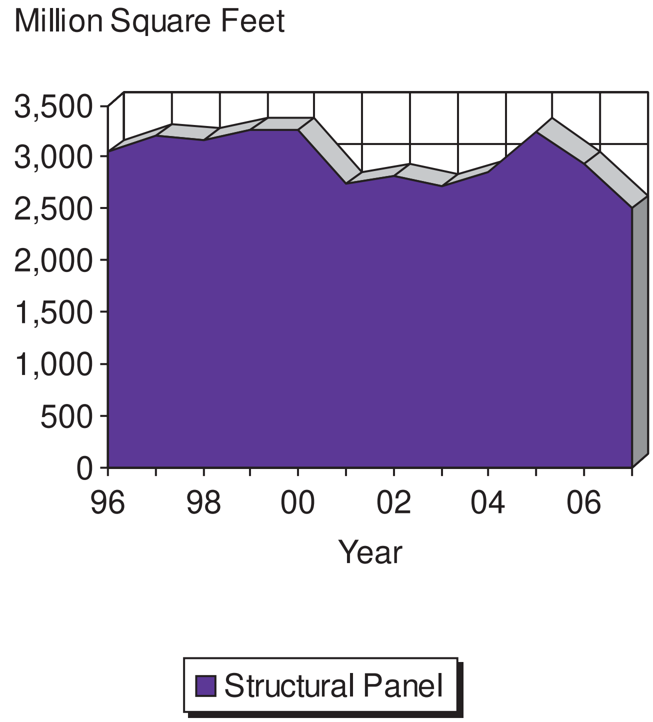


Figure 6. Texas Structural Panel Production, 1996-2007

Structural Panel Products

Production of structural panels, including plywood and OSB, was down 14.7 percent to 2.5 billion square feet (3/8-inch basis) in 2007. Table 9 and Figure 6 show the recent trend in structural panel output.

Paper Products

Production of paperboard totaled 2.8 million tons in 2007, almost the same level as in 2006. There was no paper or market pulp production in Texas in 2007. Table 10 and Figure 7 summarize recent trends in paper product output.

Treated Wood Products

There was a 5.8 percent decrease in the volume of wood processed by Texas wood treaters in 2007 from the previous year. The total volume treated in 2007 was 45.6 million cubic feet. Among major treated products, lumber accounted for 71.7 percent of the total volume, crossties accounted for 15.1 percent, and utility poles and fence posts accounted for 7.3 percent and 3.9 percent, respectively. Table 11 contains treated volume by product for 2006 and 2007.

Primary Mill Residue

Total mill residue, including chips, sawdust, shavings, and bark in primary mills such as sawmills, panel mills and chip mills in 2007 was 5.9 million short tons, 8.5 percent lower than the 2006 level (Table 12). Eighty four percent of the mill residue was from pine species and 16 percent was from hardwood species in 2007. Chips accounted for 50.6 percent of mill residue, followed by bark (35.3 percent), sawdust (8.0 percent), and shavings (6.1 percent) (Figure 8).

Logging Residue

Types of logging residue include stumps, tops, limbs and unutilized cull trees. Total logging residue produced in 2007 was 3.44 million tons. Logging residue comes from both growing stock and non-growing stock trees. In 2007, 22.2 percent of the logging residue was from growing stock trees, and 77.8 percent of the logging residue was from non-growing stock trees. Sixty six percent of the residue was from pine and 34 percent was from hardwood in 2007 (Table 13, Figure 9).

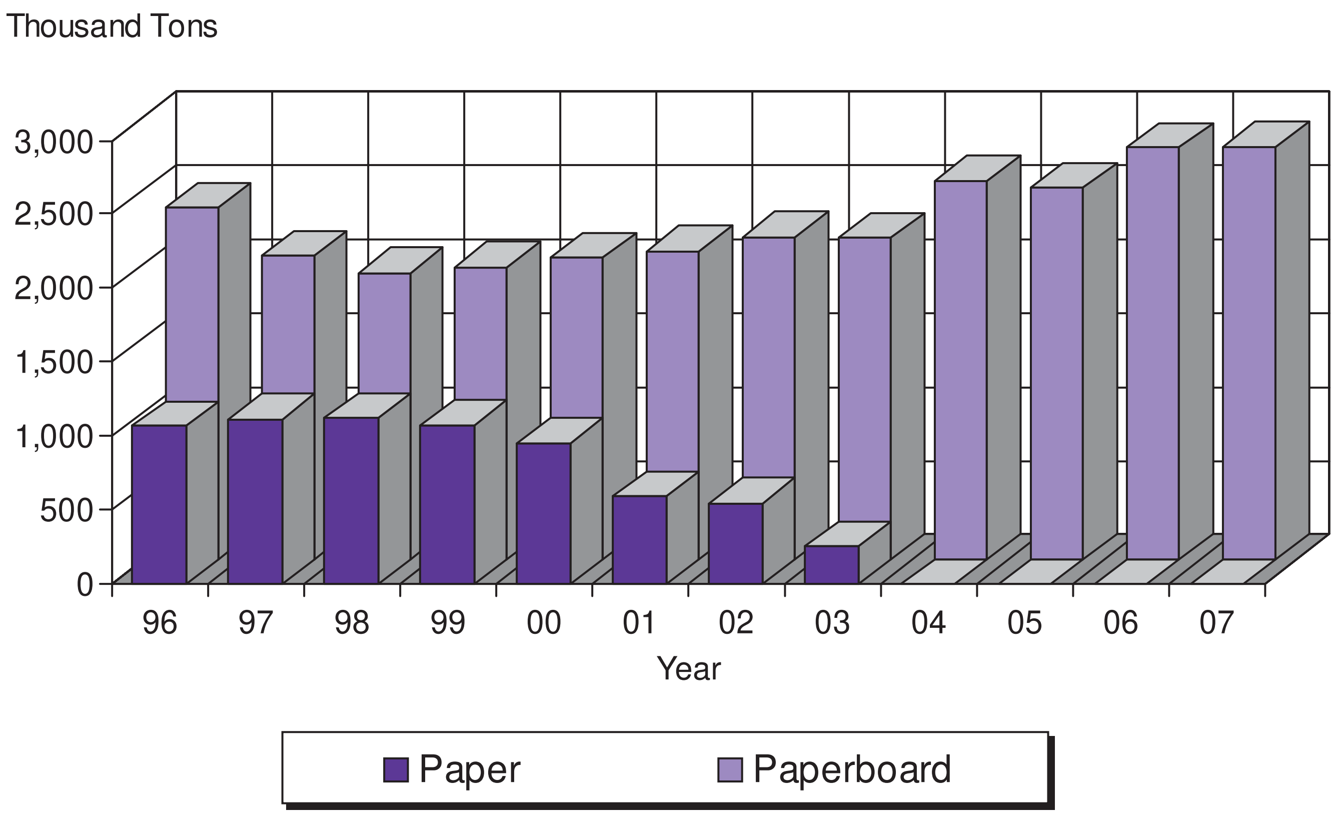
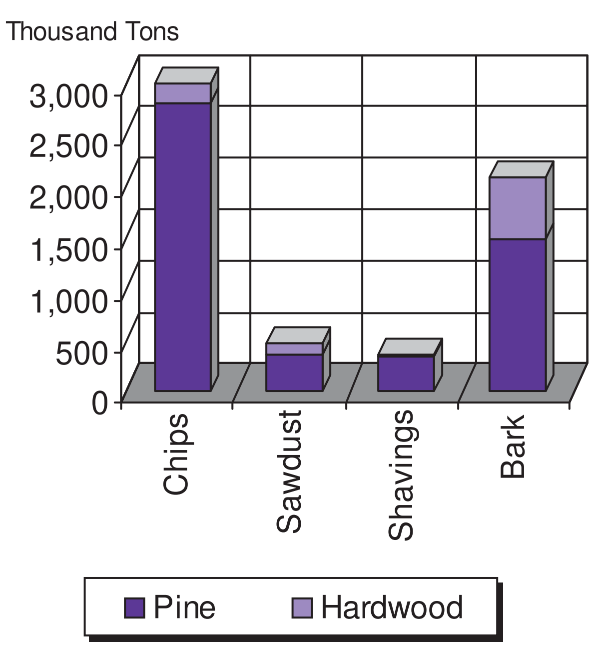


Figure 7. Texas Paper Production, 1996-2007



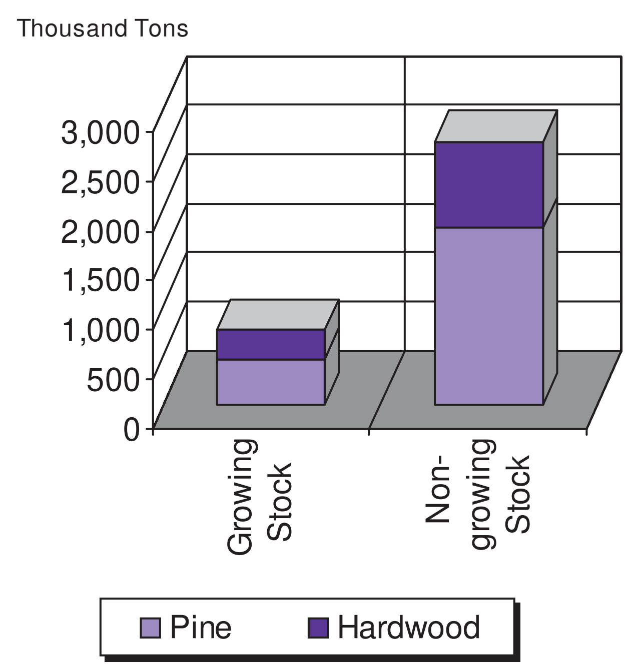


Figure 8. Texas Primary Mill Residue, 2007

Figure 9. Texas Logging Residue, 2007

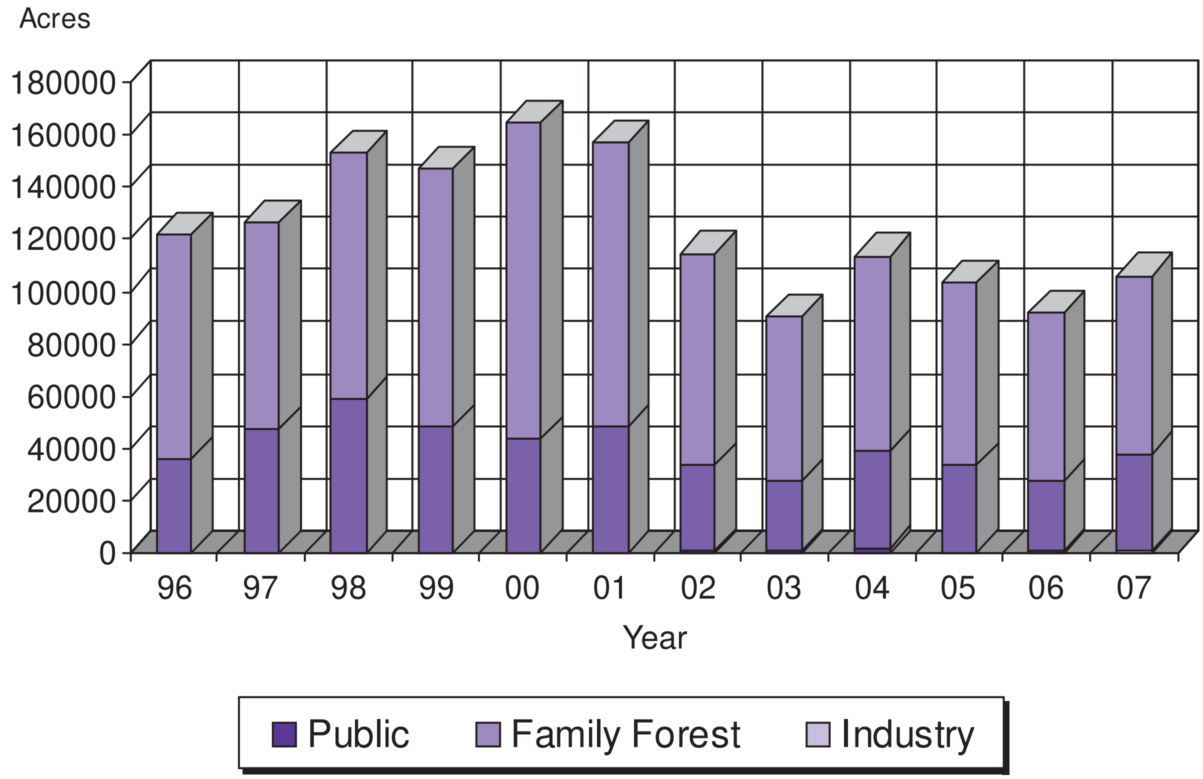


Figure 10. Reforestation Acreage by Ownership in Texas, 1996-2007

REFORESTATION ACCOMPLISHMENTS

Accomplishments in reforestation by funding source and ownership are presented in Table 15. A total of 105,936 acres was planted during the winter 2006/spring 2007 planting season. This was a 15.1 percent increase from the previous year. Industrial landowners planted 67,910 acres, up 5.4 percent from the previous year. Family Forest owners planted 37,229 acres, up 39.4 percent. Public landowners planted 797 acres in 2007. Family Forest owners received $2.3 million in cost share assistance for reforestation through federal and industrial cost share programs. Federal programs provided $2.1 million in cost share funds. The Texas Reforestation Foundation provided $187,000 cost share funding.

REFERENCES

[1]Texas Agricultural Statistics 2005 Bulletin (http://www.nass.usda.gov/Statistics_by_State/Texas/Publications/Annual_Statistical_Bulletin/bull2006.pdf)
[2]http://www.bea.gov/bea/dn/
[3]http://www.federalreserve.gov/fomc/default.htm#calendars
[4]http://www.hsh.com/mtghst.html
[5]http://recenter.tamu.edu/data/
[6]Interactive Tables: Gross Domestic Product by State (http://www.bea.gov/regional/gsp/)
[7]Random Lengths, Year Book, 2008
[8]Pulp & Paper, RISI, March 2008.

Table 1. Total Industrial Timber Harvest Volume and Value by County in Texas, 2007

County	Volume Harvested			Value of Harvest	
	Pine	Hardwood	Total	Stumpage Value	Delivered Value
	– – – – – – – – – – – cubic feet – – – – – – – – – – –			– – – – – thousand dollars – – – – –	
Anderson	7,929,044	1,593,416	9,522,460	8,558	13,606
Angelina	26,531,565	5,934,283	32,465,848	27,033	44,220
Bowie	5,282,776	7,099,491	12,382,267	8,097	15,339
Camp	777,474	652,559	1,430,033	1,016	1,832
Cass	24,661,572	13,064,294	37,725,866	29,386	49,838
Chambers	79,431	26,497	105,928	121	175
Cherokee	24,483,065	6,594,173	31,077,238	25,392	42,339
Franklin	190,789	542,744	733,533	457	921
Gregg	980,373	1,671,255	2,651,628	2,046	3,749
Grimes	1,481,718	9,799	1,491,517	1,894	2,541
Hardin	17,422,635	4,874,421	22,297,056	15,290	27,620
Harris	1,105,075	149,230	1,254,305	1,513	2,101
Harrison	17,942,577	5,363,848	23,306,425	18,692	31,088
Henderson	936,929	1,000,460	1,937,389	1,460	2,677
Houston	14,573,473	2,631,769	17,205,242	14,755	23,688
Jasper	24,575,641	1,536,220	26,111,861	21,863	35,378
Jefferson	125,824	79,826	205,650	219	333
Leon	1,686,055	344,061	2,030,116	2,151	3,181
Liberty	10,045,962	4,780,863	14,826,825	11,992	20,175
Madison	466,534	3,440	469,974	451	679
Marion	9,697,813	6,223,681	15,921,494	11,448	20,367
Montgomery	5,004,144	1,993,281	6,997,425	6,766	10,390
Morris	1,157,078	1,049,095	2,206,173	1,529	2,795
Nacogdoches	30,763,710	3,379,036	34,142,746	27,618	45,545
Newton	31,612,454	3,752,127	35,364,581	25,607	44,672
Orange	2,034,601	1,733,003	3,767,604	2,516	4,687
Panola	22,570,819	6,289,457	28,860,276	21,548	37,112
Polk	38,941,122	3,582,079	42,523,201	37,812	59,305
Red River	5,270,050	7,316,617	12,586,667	7,922	15,415
Rusk	12,343,731	4,345,477	16,689,208	13,488	22,689
Sabine	21,891,490	1,812,006	23,703,496	18,586	31,050
San Augustine	19,951,352	1,981,798	21,933,150	15,604	27,422
San Jacinto	13,153,328	2,147,684	15,301,012	12,941	20,833
Shelby	19,642,374	1,684,140	21,326,514	14,185	25,797
Smith	6,861,962	3,743,005	10,604,967	7,208	13,423
Titus	366,337	1,030,635	1,396,972	971	1,868
Trinity	16,070,467	1,695,691	17,766,158	13,179	22,675
Tyler	32,625,139	7,447,607	40,072,746	29,681	51,272
Upshur	8,699,124	3,386,338	12,085,462	9,973	16,513
Van Zandt	28,897	122,918	151,815	100	209
Walker	16,353,186	1,474,247	17,827,433	19,549	27,909
Waller	79,637	1,342	80,979	105	140
Wood	3,154,643	1,396,064	4,550,707	4,033	6,401
Other Counties	1,649,477	2,079,864	3,729,341	2,193	4,553
Total Production	501,201,447	127,619,841	628,821,288	496,949	834,526

Table 2. Sawlog Harvest by County in Texas, 2007

County	Pine	Hardwood	Total
	––––––––––––– thousand board feet[1] –––––––––––––		
Anderson	23,690	7,567	31,257
Angelina	76,676	10,924	87,600
Bowie	20,119	5,263	25,382
Camp	2,792	727	3,519
Cass	93,458	5,700	99,158
Chambers	133	158	291
Cherokee	61,959	23,717	85,676
Franklin	732	1,177	1,909
Gregg	2,890	8,318	11,208
Grimes	4,259	5	4,264
Hardin	28,683	5,010	33,693
Harris	1,660	835	2,495
Harrison	56,022	4,146	60,168
Henderson	2,356	4,825	7,181
Houston	38,457	3,824	42,281
Jasper	84,231	3,166	87,397
Jefferson	460	476	936
Leon	6,998	2,044	9,042
Liberty	14,801	11,103	25,904
Madison	1,040	0	1,040
Marion	29,193	5,371	34,564
Montgomery	11,637	3,875	15,512
Morris	3,941	1,046	4,987
Nacogdoches	76,573	6,936	83,509
Newton	83,118	3,524	86,642
Orange	5,243	1,647	6,890
Panola	50,910	3,576	54,486
Polk	56,184	3,397	59,581
Red River	17,382	7,996	25,378
Rusk	35,121	14,341	49,462
Sabine	56,036	1,611	57,647
San Augustine	40,304	2,093	42,397
San Jacinto	29,377	603	29,980
Shelby	28,510	1,244	29,754
Smith	15,608	11,546	27,154
Titus	1,637	3,386	5,023
Trinity	22,194	3,388	25,582
Tyler	62,307	3,990	66,297
Upshur	31,617	6,682	38,299
Van Zandt	5	189	194
Walker	35,382	136	35,518
Waller	132	8	140
Wood	14,818	507	15,325
Other Counties	1,304	6,025	7,329
Total Production	1,229,949	192,102	1,422,051

[1]International ¼-inch rule.

Table 3. Veneer and Panel Roundwood Harvest by County in Texas, 2007

County	Pine	Hardwood	Total
	– – – – – – – – – – – – – – – cubic feet	– – – – – – – – – – – – – – –	
Anderson	3,956,022	91,223	4,047,245
Angelina	10,306,232	0	10,306,232
Bowie	93,232	0	93,232
Camp	79,061	0	79,061
Cass	2,778,273	0	2,778,273
Chambers	57,871	0	57,871
Cherokee	9,375,094	45,611	9,420,705
Franklin	934	0	934
Gregg	497,241	0	497,241
Grimes	776,265	0	776,265
Hardin	4,176,293	0	4,176,293
Harris	828,212	0	828,212
Harrison	7,492,661	0	7,492,661
Henderson	462,844	91,223	554,067
Houston	5,963,247	0	5,963,247
Jasper	5,355,366	0	5,355,366
Jefferson	46,155	0	46,155
Leon	490,843	0	490,843
Liberty	3,826,279	0	3,826,279
Madison	275,675	0	275,675
Marion	2,542,227	0	2,542,227
Montgomery	2,689,218	0	2,689,218
Morris	237,257	0	237,257
Nacogdoches	10,334,916	91,223	10,426,139
Newton	4,366,230	0	4,366,230
Orange	185,972	0	185,972
Panola	7,787,808	0	7,787,808
Polk	19,254,221	0	19,254,221
Red River	1,336	0	1,336
Rusk	5,132,041	0	5,132,041
Sabine	7,231,456	0	7,231,456
San Augustine	5,468,630	0	5,468,630
San Jacinto	3,799,360	0	3,799,360
Shelby	6,304,972	0	6,304,972
Smith	1,127,613	45,611	1,173,224
Titus	7,993	0	7,993
Trinity	8,265,688	0	8,265,688
Tyler	10,271,488	0	10,271,488
Upshur	2,009,913	0	2,009,913
Van Zandt	28,086	91,223	119,309
Walker	9,389,077	0	9,389,077
Waller	58,239	0	58,239
Wood	115,585	0	115,585
Other Counties	189,517	114,028	303,545
Total Production	163,636,643	570,142	164,206,785

Table 4. Pulpwood Roundwood Harvest by County in Texas, 2007

County	Pine	Hardwood	Total
	––––––––––––––– cords –––––––––––––––		
Anderson	1,599	2,915	4,514
Angelina	42,921	51,279	94,200
Bowie	23,806	77,711	101,517
Camp	3,035	6,633	9,668
Cass	83,134	151,355	234,489
Chambers	0	0	0
Cherokee	59,342	32,140	91,482
Franklin	879	4,317	5,196
Gregg	181	3,454	3,635
Grimes	186	112	298
Hardin	106,058	50,428	156,486
Harris	96	115	211
Harrison	16,898	58,357	75,255
Henderson	1,138	1,251	2,389
Houston	29,338	24,881	54,219
Jasper	68,105	12,566	80,671
Jefferson	63	0	63
Leon	751	16	767
Liberty	47,167	36,486	83,653
Madison	275	43	318
Marion	29,919	66,537	96,456
Montgomery	5,291	16,793	22,084
Morris	3,469	10,921	14,390
Nacogdoches	96,588	26,558	123,146
Newton	168,671	39,296	207,967
Orange	12,321	18,210	30,531
Panola	78,521	71,122	149,643
Polk	130,547	37,655	168,202
Red River	30,261	74,696	104,957
Rusk	18,748	24,256	43,004
Sabine	67,102	19,273	86,375
San Augustine	91,079	20,385	111,464
San Jacinto	56,692	25,582	82,274
Shelby	105,582	18,444	124,026
Smith	39,560	22,014	61,574
Titus	1,148	5,785	6,933
Trinity	51,941	14,094	66,035
Tyler	149,924	84,731	234,655
Upshur	19,310	28,322	47,632
Van Zandt	0	0	0
Walker	15,169	18,143	33,312
Waller	0	0	0
Wood	7,865	16,388	24,253
Other Counties	7,316	11,943	19,259
Total Production	1,671,996	1,185,207	2,857,203

Table 5. Other Roundwood Harvest by County in Texas, 2007[1]

County	Pine	Hardwood	Total
	– – – – – – – – – – – – – – – – – cubic feet	– – – – – – – – – – – – – – – –	
Anderson	3,337	0	3,337
Angelina	319,580	0	319,580
Bowie	0	0	0
Camp	0	0	0
Cass	0	0	0
Chambers	0	0	0
Cherokee	257,789	0	257,789
Franklin	0	0	0
Gregg	0	0	0
Grimes	0	0	0
Hardin	6,329	0	6,329
Harris	0	0	0
Harrison	0	0	0
Henderson	0	0	0
Houston	0	0	0
Jasper	50,000	0	50,000
Jefferson	0	0	0
Leon	0	0	0
Liberty	0	0	0
Madison	0	0	0
Marion	0	0	0
Montgomery	0	0	0
Morris	0	0	0
Nacogdoches	192,823	0	192,823
Newton	110,729	17,470	128,199
Orange	759	0	759
Panola	170,424	0	170,424
Polk	5,395	0	5,395
Red River	0	0	0
Rusk	0	0	0
Sabine	141,431	0	141,431
San Augustine	572,205	0	572,205
San Jacinto	0	0	0
Shelby	163,987	0	163,987
Smith	0	0	0
Titus	0	0	0
Trinity	0	0	0
Tyler	110,107	0	110,107
Upshur	0	0	0
Van Zandt	0	0	0
Walker	0	0	0
Waller	0	0	0
Wood	0	0	0
Other Counties	655,998	0	655,998
Total Production	2,760,893	17,470	2,778,363

[1] Including posts, poles and piling.

Table 6. Timber Stumpage Price in East Texas by Product, 1997-2007

Year	Sawtimber/Veneer		Pulpwood		Pine Chip-N-Saw	Pine Poles
	Pine	Mixed Hardwood	Pine	Mixed Hardwood		
	– – – $/MBF-Doyle – – –		– – – $/cord – – –		$/cord	$/ton
1997	395.46	88.28	25.25	10.78	59.18	77.33
1998	441.75	132.20	33.22	11.71	73.39	96.36
1999	414.51	138.75	37.01	14.41	76.40	72.26
2000	382.86	139.44	28.95	12.24	68.44	62.25
2001	376.57	120.88	19.20	7.97	57.69	54.92
2002	325.14	120.32	12.94	15.11	42.06	55.81
2003	334.86	156.97	12.33	15.67	41.92	66.63
2004	289.30	157.81	14.90	15.85	41.90	68.44
2005	286.42	189.73	19.52	16.90	43.74	77.00
2006	305.58	164.16	17.44	19.69	47.99	77.38
2007	321.40	162.69	32.79	30.09	46.78	59.16

SOURCE: *Texas Timber Price Trends* bi-monthly market report, with pine pole price from *Timber Mart South.*

Table 7. Value of the East Texas Timber Harvest, 2007

Product	Unit	Stumpage		Delivered	
		Price[1]	Value	Price[2]	Value
PINE		$/unit	million $	$/unit	million $
Sawlogs/Chip-n-Saw	m bd.ft.[3]	–	252.4	–	339.2
Sawlogs		214.27	243.8	282.93	322.0
Chip-n-Saw		93.56	8.6	187.60	17.2
Veneer/Panel Roundwood	m cu.ft.	–	128.4	–	212.9
Veneer Logs	m cu.ft.	1,321.65	*	1,745.21	*
Small Roundwood	m cu.ft.	404.81	*	986.42	*
Pulpwood	cords	32.79	54.8	79.90	133.6
Others	m cu.ft.	–	2.2	–	3.8
All pine products			437.9		689.5
HARDWOOD					
Sawlogs	m bd.ft.[3]	119.63	23.0	245.73	47.2
Veneer/Panel Roundwood	m cu.ft.	–	0.4	–	0.8
Veneer Logs	m cu.ft.	713.36	0.4	1,465.36	0.8
Panel Roundwood	m cu.ft.	986.42	0.0	1,022.88	0.0
Pulpwood	cords	30.09	35.7	81.83	97.0
All hardwood products			59.0		145.0
All products			496.9		834.5

[1]Average annual statewide prices as published in Texas Timber Price Trends, Texas Forest Service.

[2]Average annual statewide prices, obtained by adding the difference between the standing timber prices and the delivered prices published in Timber Mart South to the stumpage prices published in Texas Timber Price Trends, Texas Forest Service.

[3]International ¼-inch rule.

* Data suppressed to avoid disclosure of individual company information.

Table 8. Interstate Movement of Roundwood by Species Group and Product in Texas, 2007						
Product	Units	Imports	Produced & Utilized in State	Exports	Texas Mill Receipts	Texas Roundwood Production
PINE						
Sawlogs	m bd.ft.[1]	55,724	1,136,472	93,477	1,192,196	1,229,949
Veneer/Panel Roundwood	m cu.ft.	5,005	150,337	13,299	155,342	163,637
Pulpwood	cords	393,201	1,298,748	373,248	1,691,949	1,671,996
Others	m cu.ft.	3,111	2,761	0	5,872	2,761
All Pine Products	m cu.ft.	48,997	442,517	58,684	491,514	501,201
HARDWOOD						
Sawlogs	m bd.ft.[1]	5,631	191,963	139	197,594	192,102
Veneer/Panel Roundwood	m cu.ft.	342	570	0	912	570
Pulpwood	cords	381,133	1,022,561	162,646	1,403,694	1,185,207
All Hardwood Products	m cu.ft.	31,777	114,567	13,052	146,344	127,620
TOTAL						
Sawlogs	m bd.ft.[1]	61,355	1,328,435	93,616	1,389,790	1,422,051
Veneer/Panel Roundwood	m cu.ft.	5,347	150,907	13,299	156,254	164,207
Pulpwood	cords	774,334	2,321,309	535,894	3,095,643	2,857,203
Posts, Poles, Pilings	m cu.ft.	3,111	2,761	0	5,872	2,761
All Products	m cu.ft.	80,774	557,084	71,737	637,859	628,821

[1]International ¼-inch rule.

Table 9. Texas Industrial Roundwood Products, 1997-2007

Year	Lumber			Structural Panel
	Pine	Hardwood	Total	
	------------------ m. bd. ft ------------------			m. sq. ft.
1997	1,316,762	160,553	1,477,315	3,200,317
1998	1,293,432	191,165	1,484,597	3,169,713
1999	1,279,487	225,570	1,505,057	3,260,055
2000	1,410,999	184,172	1,595,171	3,265,644
2001	1,293,823	213,795	1,507,618	2,732,940
2002	1,425,613	223,932	1,649,544	2,818,356
2003	1,490,311	287,062	1,777,373	2,723,225
2004	1,591,109	324,663	1,915,772	2,859,012
2005	1,733,314	230,090	1,963,403	3,249,558
2006	1,676,461	240,214	1,916,676	2,935,637
2007	1,550,716	180,713	1,731,429	2,503,941

Table 10. Texas Pulp, Paper, and Paperboard Production, 1997-2007

Year	Paper Products			Market Pulp
	Paper	Paperboard[1]	Total	
	---------------------------------- tons --------------------------------			
1997	1,116,018	2,052,153	3,168,171	270,235
1998	1,126,648	1,933,906	2,925,856	230,155
1999	1,079,397	1,979,592	3,058,989	242,113
2000	955,117	2,037,148	2,992,265	48,413
2001	599,902	2,083,326	2,683,228	0
2002	551,367	2,179,423	2,730,790	0
2003	255,462	2,170,185	2,425,647	0
2004	0	2,560,480	2,560,480	0
2005	0	2,512,262	2,512,262	0
2006	0	2,781,865	2,781,865	0
2007	0	2,788,308	2,788,308	0

[1]Includes fiberboard and miscellaneous products.

Table 11. Products Treated by Texas Wood Preserving Plants, 2006-2007

Product	Volume by Specific Unit			Volume by Cubic Feet	
	Unit of Measure	2006	2007	2006	2007
Utility poles	number	196,851	198,073	3,315,070	3,335,649
Constr. poles	number	4,810	0	14,430	0
Piling	m lin.ft.	40,051	51	19,476	25
Fence posts	number	3,789,092	2,042,949	3,335,735	1,798,514
Crossties	number	3,569,887	1,868,767	13,176,779	6,897,790
Switch ties	m bd.ft.	1,989	924	197,641	91,816
Cross arms	number	0	0	0	0
Lumber	m bd.ft.	323,060	377,466	27,993,268	32,707,610
Plywood/OSB	m sq.ft.	13,074	25,528	408,573	797,760
Other	cu.ft.	0	0	0	0
Total	cu.ft.	–	–	48,460,972	45,629,165

Table 12. Texas Primary Mill Residue, 2007[1]

Residue Type	Pine	Hardwood	Total
	------------- tons	------------------	
Chips[2]	2,792,210	196,977	2,989,187
Sawdust	356,665	113,849	470,514
Shavings	341,158	19,878	361,036
Bark[3]	1,487,804	601,224	2,089,028
Total	4,977,836	931,929	5,909,765

[1] Primary mills include sawmills, structural panel mills, and chip mills.

[2] Does not include chips produced in chip mills.

[3] Includes bark from sawmills, panel mills, and chip mills.

Table 13. Industrial Roundwood and Logging Residue Removal by Product in East Texas, 2007

Product	Industrial Roundwood			Residue			Total Volume		
	Pine	Hardwood	Total	Pine	Hardwood	Total	Pine	Hardwood	Total
	----- thousand tons -------			----- thousand tons -------			----- thousand tons -------		
Growing Stock									
Sawtimber	8,648.8	1,266.8	9,915.6	411.0	162.6	573.7	9,059.8	1,429.5	10,489.3
Poletimber	6,584.9	2,900.8	9,485.7	61.0	128.7	189.7	6,645.9	3,029.5	9,675.4
Sub-total	15,233.7	4,167.7	19,401.4	472.0	291.3	763.3	15,705.7	4,459.0	20,164.7
Non-growing Stock									
Sawtimber	164.2	27.0	191.2	987.7	276.9	1,264.6	1,151.9	304.0	1,455.8
Poletimber	616.0	210.9	191.2	808.6	599.8	1,408.3	1,424.6	810.6	2,235.3
Sub-total	780.2	237.9	1,018.2	1,796.2	876.7	2,672.9	2,576.5	1,114.6	3,691.1
All									
Sawtimber	8,813.0	1,293.9	10,106.9	1,398.7	439.6	1,838.3	10,211.7	1,733.4	11,945.1
Poletimber	7,200.9	3,111.7	10,312.7	869.6	728.4	1,598.0	8,070.5	3,840.2	11,910.7
Total	16,013.9	4,405.6	20,419.5	2,268.3	1,168.0	3,436.3	18,282.2	5,573.6	23,855.8

Note: Sawtimber includes sawlog, chip-n-saw, veneer log, and pole; poletimber include pulpwood, panel roundwood, post, and piling. See documents from the Forest Inventory and Analysis (FIA) Program for definition of growing stock. The separation of industrial roundwood harvest by source was based wood utilization rates from Texas 2003 Wood Utilization Study.

Table 14. Removals of Industrial Roundwood and Growing Stock in East Texas, 1992-2007

Year	Pine		Hardwood		All	
	Industrial Roundwood	Growing Stock	Industrial Roundwood	Growing Stock	Industrial Roundwood	Growing Stock
	----------------- million cubic feet --------------					
1992	496.6	488.8	111.4	112.8	608.0	601.5
1993	512.1	504.0	121.7	123.2	633.8	627.2
1994	522.3	514.1	139.6	141.3	661.9	655.4
1995	523.5	515.2	143.1	144.8	666.6	660.1
1996	543.5	534.9	116.5	117.9	660.0	652.8
1997	557.5	548.7	118.4	119.8	675.9	668.5
1998	542.4	533.9	127.9	129.5	670.3	663.3
1999	541.4	532.9	157.9	159.8	699.3	692.7
2000	508.9	500.9	116.7	118.1	625.6	619.0
2001	488.5	480.8	111.6	113.0	600.1	593.8
2002	537.0	528.5	130.6	132.2	667.6	660.7
2003	542.1	533.6	126.1	127.6	668.2	661.2
2004	517.7	509.5	133.5	135.1	651.2	644.7
2005	564.3	555.4	137.2	138.9	701.5	694.3
2006	500.0	492.1	148.3	150.1	648.3	642.2
2007	501.2	490.7	127.6	128.6	628.8	619.3

Note: Total industrial roundwood harvest incudes harvest from both growing stock and non-growing stock. The growing stock removal was calculated using wood utilization rates from Texas 2003 Wood utilization study.

Table 15. Tree Planting by Ownership and Funding Source in Texas, 1997-2007

Year[1]	Family Forest								Industry[4]	Public	Total
	Federal Cost Share Programs[2]		Texas Reforestation Foundation (TRe)		All Cost Share Programs		Non-Cost Share[3]	Total Acres	Acres	Acres	Acres
	Acres	Cost Share $	Acres	Cost Share $	Acres	Cost Share $	Acres				
1997	9,254	409,272	13,041	485,242	22,295	894,514	24,715	47,010	78,730	496	126,236
1998	13,371	347,693	13,272	500,919	26,643	848,612	31,951	58,594	93,991	363	152,948
1999	11,998	262,590	11,628	441,787	23,626	704,377	24,732	48,358	98,449	282	147,089
2000	11,496	489,165	5,401	270,451	16,897	694,103	26,284	43,181	120,523	725	164,430
2001	15,818	602,700	6,325	315,030	22,143	917,730	26,295	48,438	108,254	183	156,875
2002	10,772	581,833	5,649	348,273	16,421	930,106	16,743	33,164	80,388	840	114,392
2003	4,938	907,098	3,763	238,903	8,701	1,146,001	17,657	26,358	62,557	1,278	90,193
2004	10,040	945,528	2,091	123,282	12,131	1,068,810	24,765	36,896	74,542	2,248	113,686
2005	11,713	1,267,815	1,061	117,997	12,774	1,385,811	20,522	33,296	69,712	593	103,601
2006	10,034	1,317,024	398	41,896	10,432	1,358,920	16,278	26,710	64,457	863	92,030
2007	12,497	2,073,855	2,912	187,917	15,409	2,261,772	21,820	37,229	67,910	797	105,936

[1] Federal fiscal year. For example, fiscal year 1995 begins on October 1, 1994 and ends on September 30, 1995.

[2] Includes Forestry Incentives Program (FIP), Stewardship Incentives Program (SIP), Environmental Quality Incentives Program (EQIP), Conservation Reserve Program (CRP), and Forest Land Enhancement Program (FLEP) accomplishments.
Federal funding also includes the Ice Storm Recovery Program in 2002 - 2004.

[3] Non-cost share acres include only NIPF acres planted with TFS assistance.

[4] Acres for industry tree planting includes acres planted by TIMOs.