



Central & West Texas Forestlands 2007 Report

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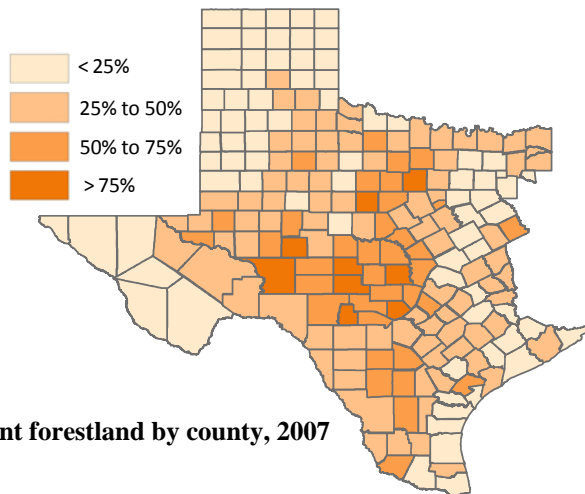
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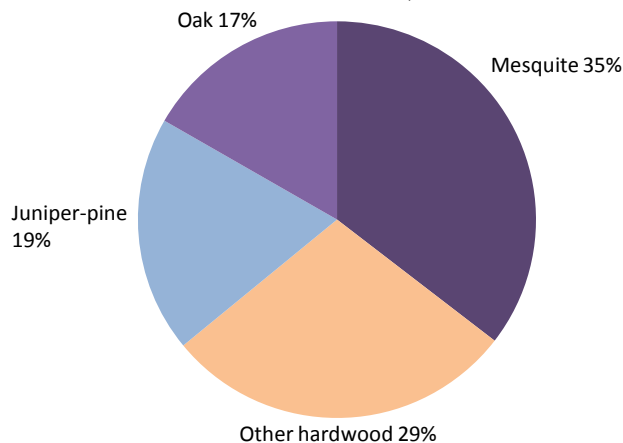
Texas Forest Service Forest Inventory and Analysis Program

In 2004, Texas Forest Service, in cooperation with the Southern Research Station's Forest Inventory and Analysis (FIA) Program, initiated an inventory of 211 counties in Central and West Texas.

The information contained in the FIA database is based on the first cycle of inventory data collected in Central and West Texas and represents just four of the 10 panels. The data was based on the measurement of 10,062 plots. For the sake of brevity, the term Central and West Texas generalizes all regions of the state outside East Texas.



Area of forestland, 2007



Area

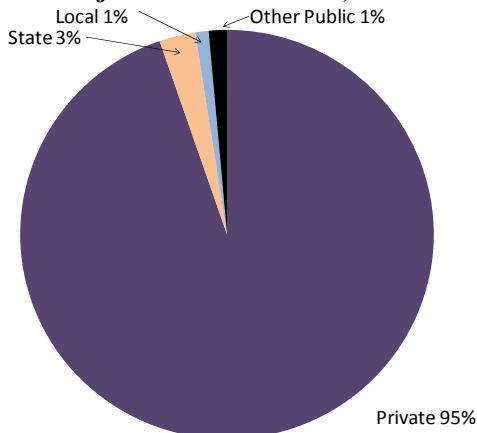
Forest type

Mesquite woodland is the dominant forest type and comprises nearly 35 percent of the forestland area. It is located throughout Central and West Texas, but heavily concentrated in more southwesterly counties (**Appendix I – Figure 1**). The majority of acres of juniper-pine can be found in southwestern counties while oaks are more predominant in more easterly counties.

Forestland

Estimates show forestland makes up about 35 percent of the Central and West Texas region. There are an estimated 48,074,726 acres of forestland in the region (**Appendix I – Figure 2**).

Major forestland owners, 2007



Ownership

Ninety-five percent of the forestland is controlled by private owners while 5 percent is operated by a public agency. Private owners include family forest owners as well as private companies such as limited liability companies (LLC) and land conservation groups.

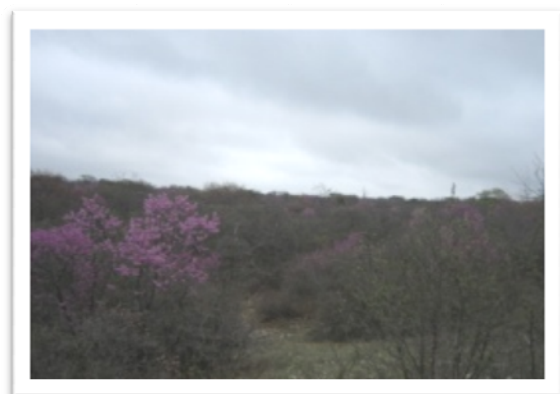
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Questionnaires focusing on tree removal operations and property size were delivered during 2007 to an area-weighted sample of 1,255 land owners. There was a 37 percent return rate.

According to results from the survey, Central and West Texas boasts 37.4 million acres of family forest land. Forty-seven percent of family forests were associated with some sort of tree removal, according to the survey. The questionnaire also found that most people own small tracts of land, with large acreage being owned by just a few people.

Response by family forest owner (formerly NIPF), 2006

Tree removal activity	Area		Size of forest	Area		Owners	
	million acres	percent	Acres	thousand Acres	percent	thousand Number	percent
Tree removal			1-9	305	1	115	48
Yes	17.4	47	10-19	170	<1	15	6
No	19.1	51	20-49	1240	3	46	19
No answer	0.8	2	50-99	885	2	12	5
Harvested past 5 years	12.6	34	100-1000	11689	31	43	18
			> 1000	23106	62	8	3



Stand structure by forest type

Estimates show the majority of mesquite forests are comprised of small- and medium-diameter trees while the majority of juniper-pine, oak and other hardwood forests contain medium sized trees.

Stand-diameter class by forest type, forestland, 2007

Forest type	Area	Not Determined	Stand-diameter class (inches)			
			0 to < 5	5 to < 9	9 to < 20	20 to < 40
Mesquite	17039.3	16.7	6796.2	9043.9	1157.5	24.9
Juniper-pine	9256.1	-	792.7	6392.6	2066.7	4.2
Oak	8025.1	10.4	710.5	5431.1	1800.9	72.1
Other hardwood	13754.3	109.8	3481.3	8580.0	1569.8	13.4
Total	48074.7	136.9	11780.6	29447.7	6594.9	114.5

thousand acres

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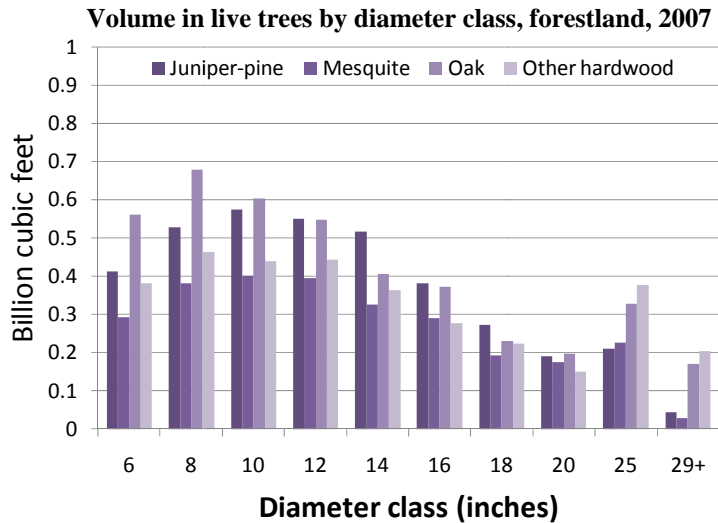
Trees per acre

When examining tree density, mesquite is distributed throughout the region while juniper, oak and other hardwood densities are generally greatest in the eastern region of Central and West Texas (**Appendix I – Figure 3**). Across all forest types, the Northcentral region has the greatest density per acre while the West region has the lowest density per acre (**Appendix I – Figure 4**).

Volume

Stand structure by forest type

Oak forests have the greatest live tree volume with 4.1 billion cubic feet. There are 3.7 billion cubic feet of juniper-pine forests and 2.7 billion cubic feet of mesquite forests. Other hardwoods have a volume of 3.3 billion cubic feet. The total amount of volume across all species is 13.8 billion cubic feet.



Forest type

The majority of mesquite and juniper volume is concentrated in the central part of Central and West Texas while most of the oak volume is in more easterly counties (**Appendix I – Figure 5**). Other hardwood volume is scattered throughout the state.

When combining all forest types, the largest volume of trees are in the Westcentral region while only a relatively small volume exists in far westerly counties (**Appendix I – Figure 6**). The Northcentral region also contains a relatively large amount of volume.

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Standing Biomass Supply

For the purposes of this report, standing biomass is defined as the oven-dry weight (tons) of all aboveground wood and bark in all live trees that are one-inch or greater in diameter on forestland. Thus, foliage and roots are excluded.

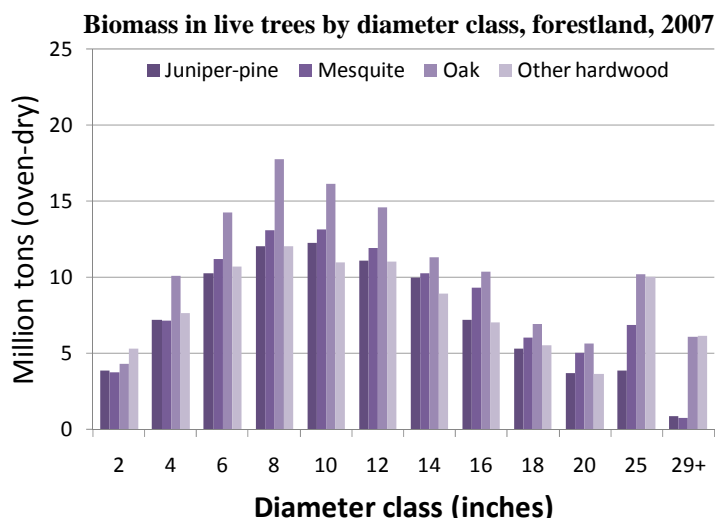
Stand structure by forest type

Biomass in juniper-pine trees is 87.9 million tons (oven-dry), mesquite biomass is 98.8 million tons and the other hardwoods biomass is 99.3 million tons. The greatest biomass (128.0 million tons) can be found in oaks.

Forest type

The majority of mesquite and juniper biomass is concentrated in the central part of Central and West Texas while most of the oak biomass is in more easterly counties (**Appendix I – Figure 7**). Other hardwood biomass is scattered throughout the region.

When combining all forest types, the majority of biomass is in the Westcentral region (**Appendix I – Figure 8**). In fact, the biomass in this region is greater than the summation of the Northwest, South and West regions. Total biomass (oven-dry) across all species is 414 million tons. This amount is comparable to the total amount of biomass in East Texas (476.3 million tons) and demonstrates the potential use of Central and West Texas trees for biomass/bioenergy.



Precautions

Estimates presented in this publication are calculated using a sample obtained from forestlands in the Central and West Texas regions. Although this publication presents useful information, all estimates have error associated with them.

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Definition of Terms

Diameter (non-woodland species): Tree stem diameter in inches measured outside the bark and 4.5 feet above the ground (breast height), commonly referred to as DBH.

Diameter (woodland species): For those woody species that have clumps of stems rather than a single stem, the definition of diameter differs from the traditional DBH measure. Diameter is calculated as the square root of the sum of the squared stem diameters that are at least one foot in length, and one inch in diameter one foot up from the stem diameter measurement point. FIA refers to this diameter as the Diameter at Root Collar (DRC). Notable species include juniper, pinyon pine and mesquite.

Forestland: Land that is at least 10 percent stocked by trees of any size, or land that has been at least 10 percent stocked in the past, and is not currently developed for nonforest use. Minimum dimensions require the land to be at least one acre in size and 120 feet in width.

Forest type: Forestland classification of the species forming a plurality of live tree stocking, and largely based on an algorithm of tallied trees.

Hardwoods: Dicotyledonous trees, usually broadleaf and deciduous.

Softwoods: Coniferous trees, usually evergreen, having needles or scale-like leaves.

Volume: The amount of sound wood in live trees at least five inches in diameter from a one-foot stump to a minimum four-inch top diameter outside bark of the central stem.

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Users can conduct their own analysis by going to the FIA web site:

<http://www.fia.fs.fed.us/tools-data/default.asp>

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Appendix I

Figure 1: Acres of forestland by forest type and county, 2007

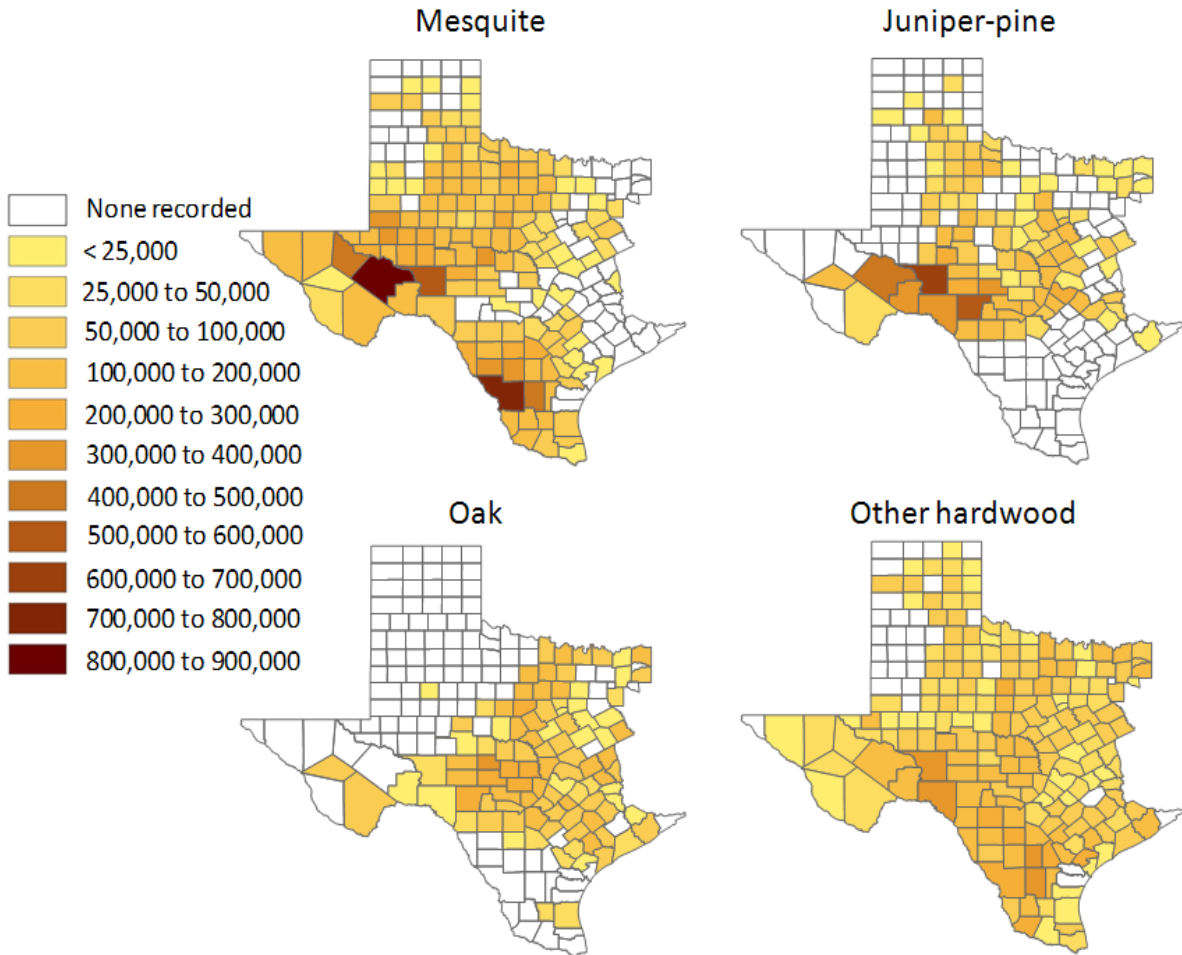
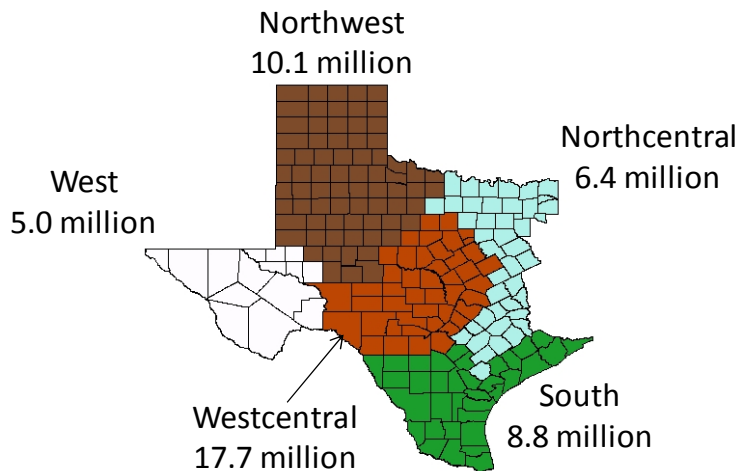


Figure 2: Acres of forestland by region, 2007



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Figure 3: Average trees per acre on forestland by forest type and county, 2007

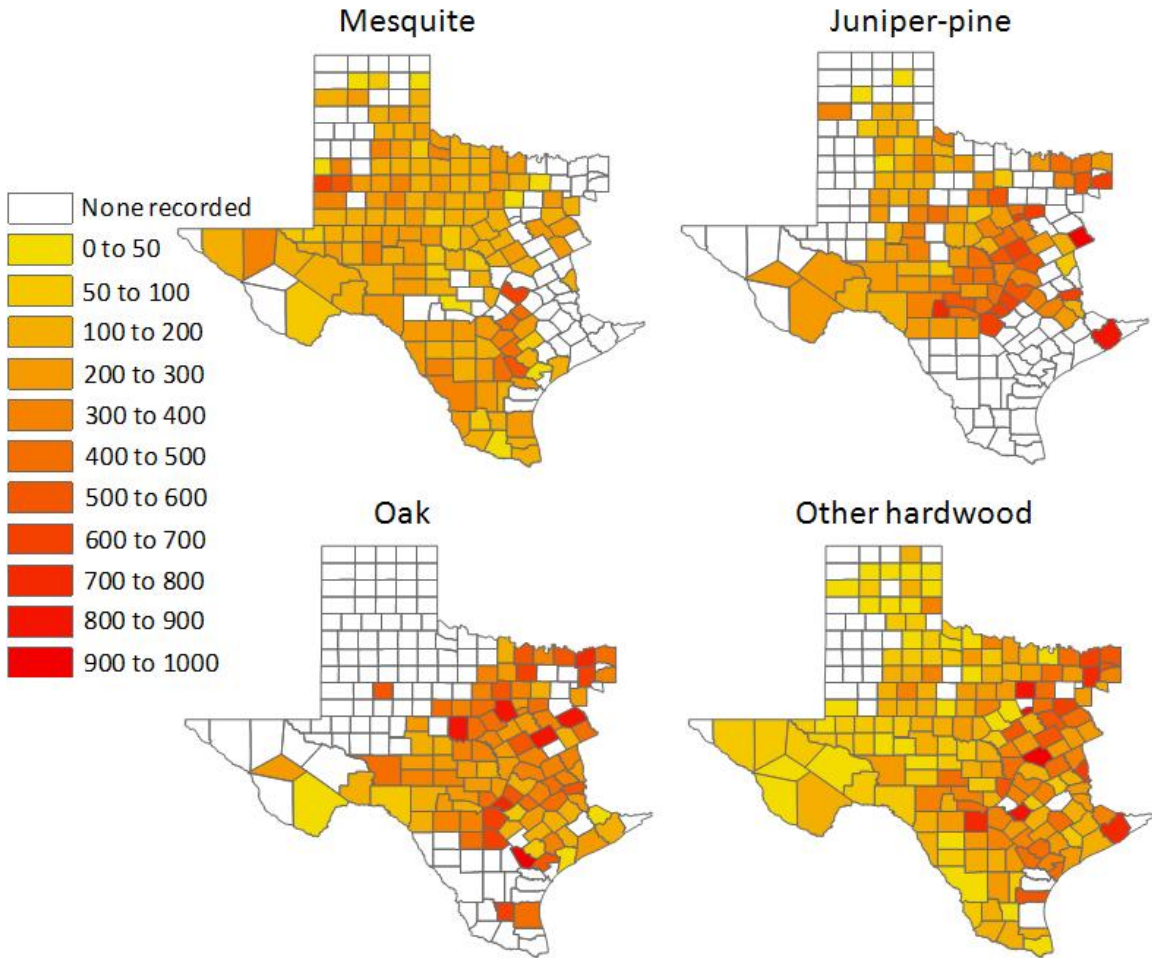
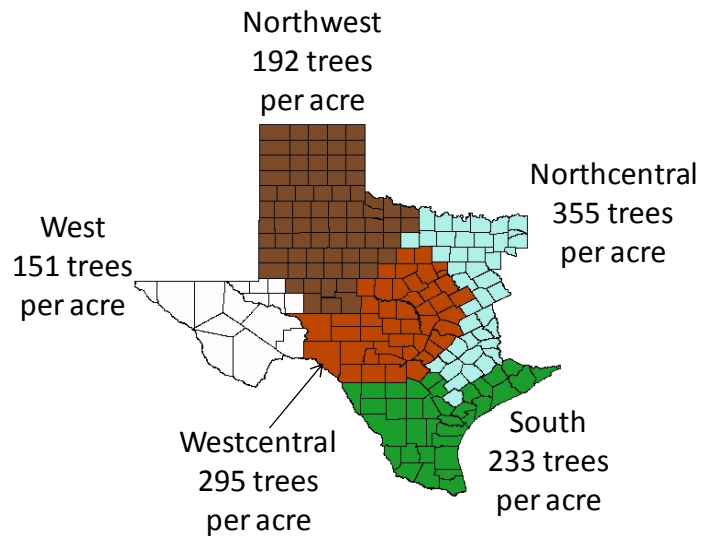


Figure 4: Average trees per acre on forestland by region, 2007



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Figure 5: Growing stock volume (ft³) on forestland by forest type and county, 2007

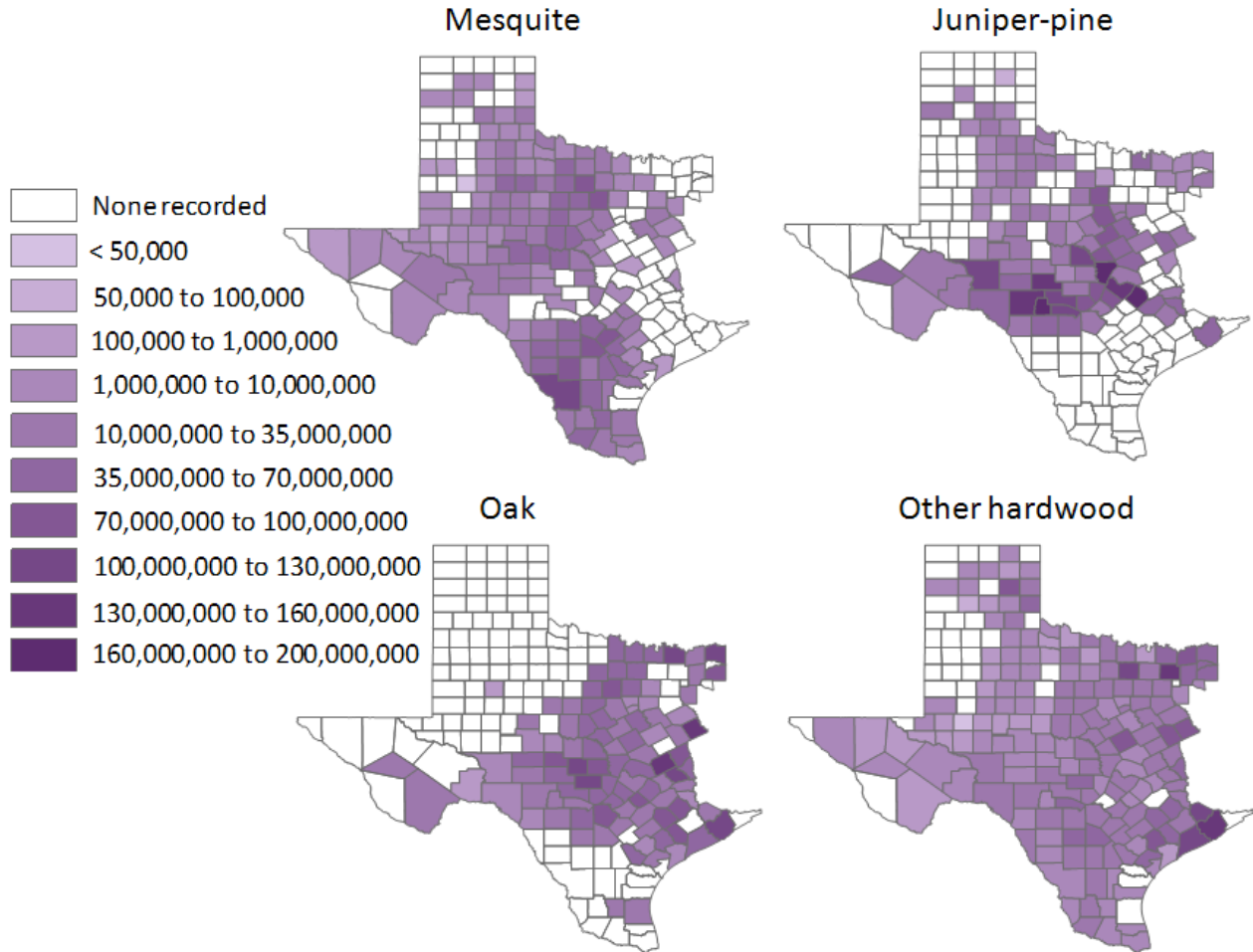
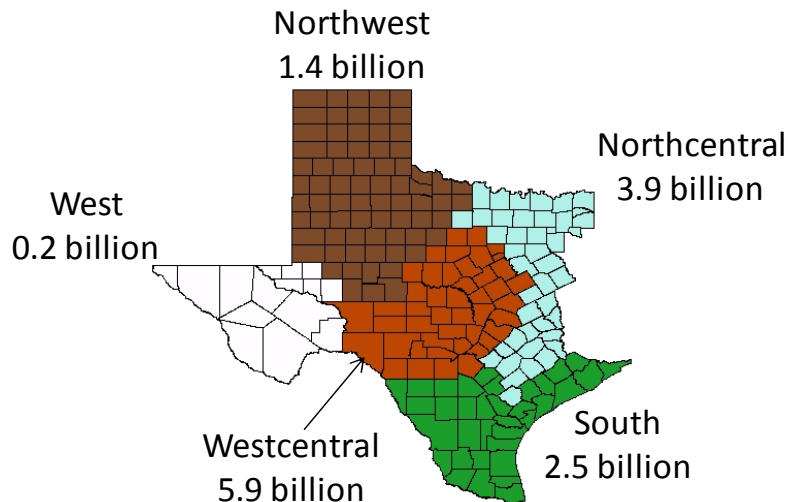


Figure 6: Growing stock volume (ft³) on forestland by region, 2007



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Figure 7: Biomass (oven-dry tons) on forestland by forest type and county, 2007

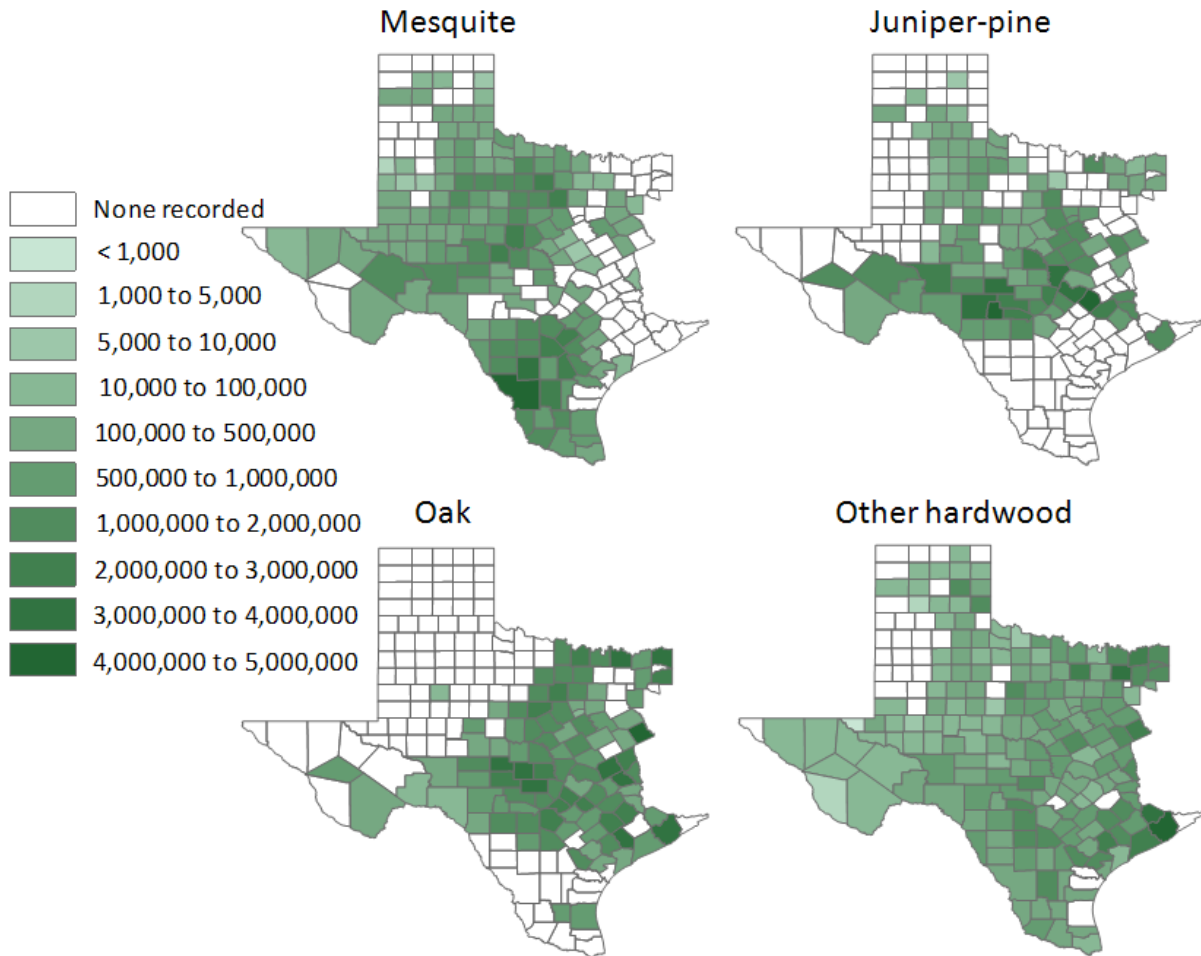
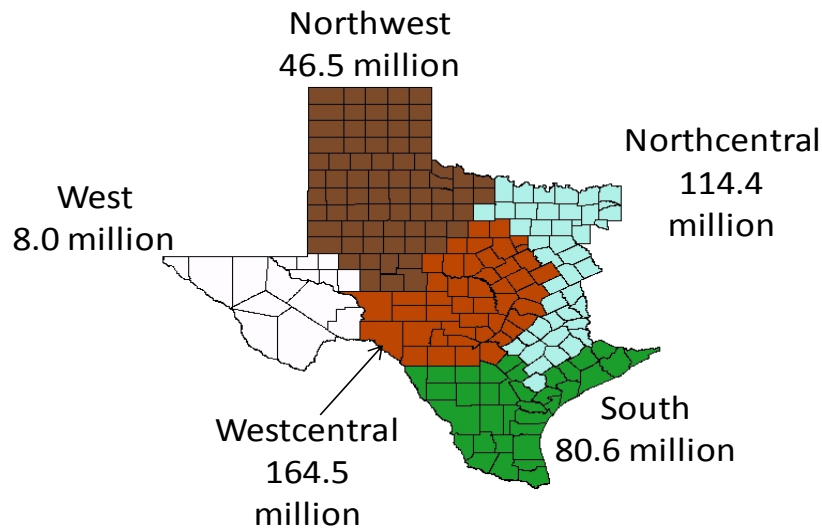


Figure 8: Biomass (oven-dry tons) on forestland by region, 2007



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Figure 9: Average biomass (oven-dry tons) per acre on forestland by forest type and county, 2007

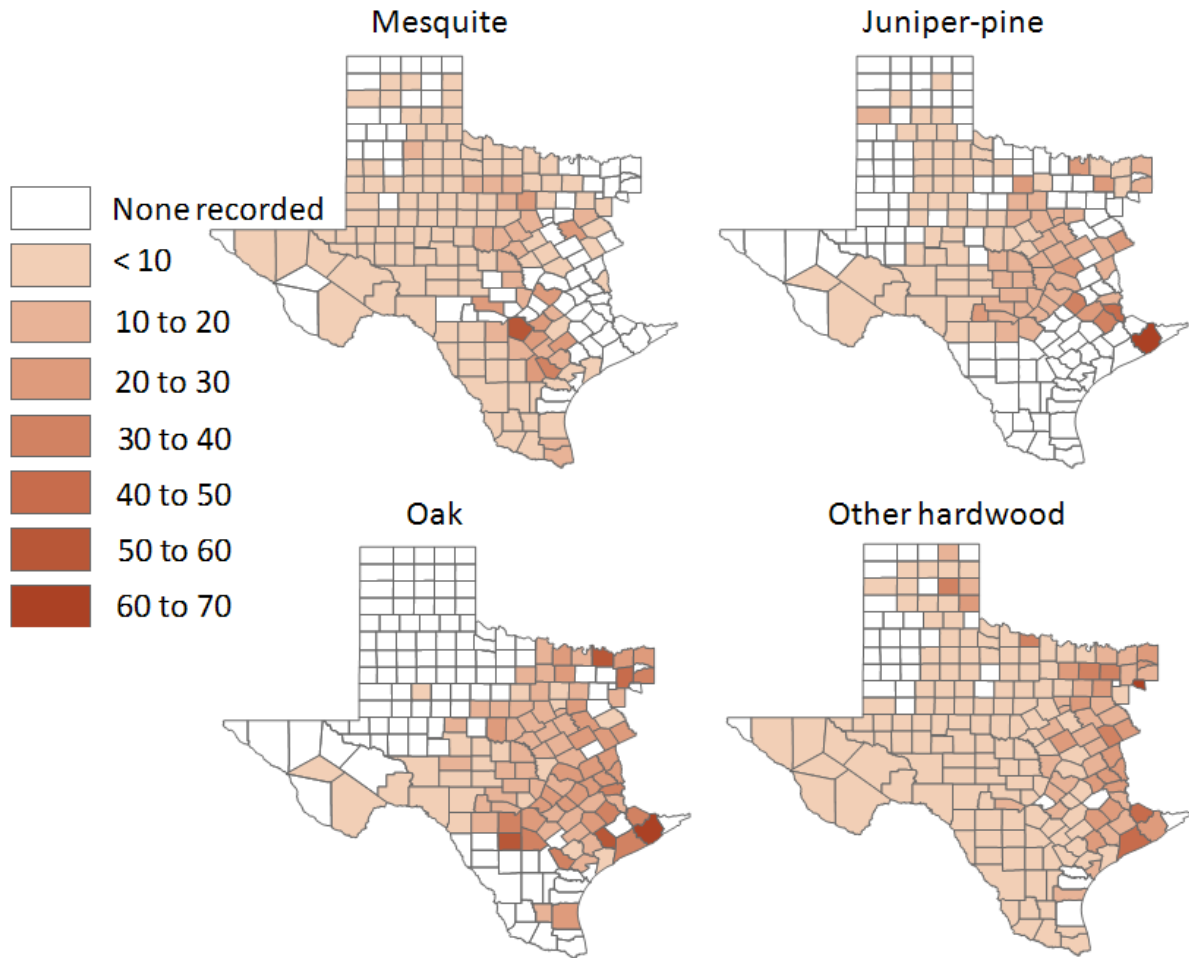
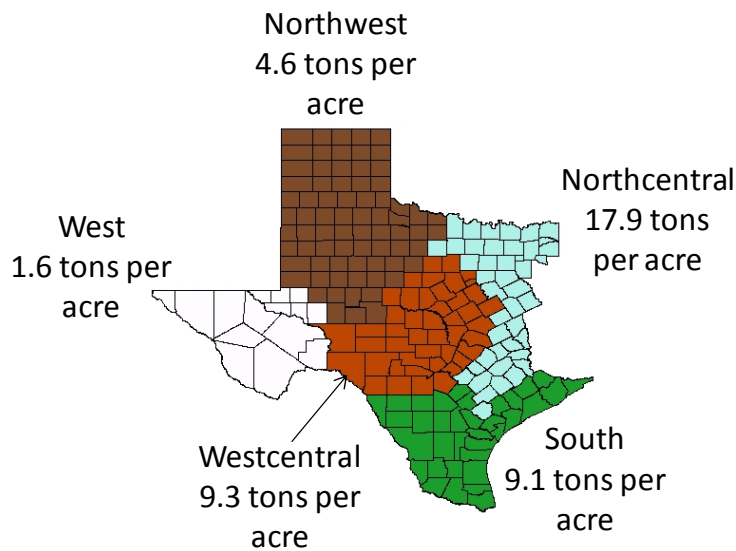


Figure 10: Average biomass (oven-dry tons) per acre on forestland by region, 2007



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Appendix II. Acre, tree, volume and biomass estimates for the Juniper-pine forest type by county. Volume is ft³ and biomass is oven-dry tons. The information can be used for estimating biosheds of biofuel/bioenergy facilities.

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Andrews	.	.	.	.	.	.	.
Aransas	.	.	.	.	.	.	.
Archer	.	.	.	.	.	.	.
Armstrong	109,638	21,539,000	196	19,691,926	180	440,224	4.0
Atascosa	.	.	.	.	.	.	.
Austin	33,050	6,341,731	192	63,207,483	1,912	1,590,310	48.1
Bailey	.	.	.	.	.	.	.
Bandera	171,763	85,119,379	496	122,002,749	710	2,759,802	16.1
Bastrop	124,882	48,064,234	385	174,533,367	1,398	4,371,919	35.0
Baylor	17,559	3,640,420	207	2,660,927	152	82,773	4.7
Bee	.	.	.	.	.	.	.
Bell	51,790	29,542,284	570	57,713,494	1,114	1,302,838	25.2
Bexar	32,194	20,060,936	623	20,943,343	651	421,152	13.1
Blanco	143,983	61,724,100	429	87,566,943	608	2,078,670	14.4
Borden	51,819	14,661,383	283	5,313,260	103	138,980	2.7
Bosque	128,684	47,437,562	369	60,642,684	471	1,369,075	10.6
Brazoria	24,891	20,100,809	808	57,577,639	2,313	1,546,295	62.1
Brazos	.	.	.	.	.	.	.
Brewster	33,508	6,946,701	207	5,478,736	164	119,656	3.6
Briscoe	96,967	10,380,046	107	16,281,292	168	393,717	4.1
Brooks	.	.	.	.	.	.	.
Brown	18,223	3,170,904	174	4,979,035	273	162,411	8.9
Burleson	.	.	.	.	.	.	.
Burnet	186,240	72,470,802	389	165,580,869	889	3,586,074	19.3
Caldwell	.	.	.	.	.	.	.
Calhoun	.	.	.	.	.	.	.
Callahan	39,916	9,318,156	233	6,041,189	151	176,007	4.4
Cameron	.	.	.	.	.	.	.
Carson	.	.	.	.	.	.	.
Castro	.	.	.	.	.	.	.
Childress	.	.	.	.	.	.	.
Clay	.	.	.	.	.	.	.
Cochran	.	.	.	.	.	.	.
Coke	100,833	39,377,963	391	27,763,218	275	692,391	6.9
Coleman	59,863	8,775,957	147	13,578,475	227	379,388	6.3
Collin	10,183	4,033,859	396	8,495,571	834	226,730	22.3
Collingsworth	.	.	.	.	.	.	.
Colorado	15,960	3,649,929	229	19,427,327	1,217	501,223	31.4
Comal	63,797	38,821,032	609	33,303,168	522	702,987	11.0
Comanche	34,487	12,277,852	356	12,173,402	353	286,896	8.3
Concho	.	.	.	.	.	.	.
Cooke	49,099	14,696,575	299	38,808,478	790	1,052,752	21.4
Coryell	122,708	79,802,815	650	61,473,554	501	1,489,673	12.1
Cottle	63,176	13,258,029	210	11,146,430	176	261,993	4.1
Crane	.	.	.	.	.	.	.
Crockett	658,711	137,264,702	208	120,990,931	184	2,804,915	4.3
Crosby	11,129	301,818	27	1,953,175	176	34,484	3.1
Culberson	.	.	.	.	.	.	.
Dallam	.	.	.	.	.	.	.
Dallas	.	.	.	.	.	.	.
Dawson	.	.	.	.	.	.	.
DeWitt	.	.	.	.	.	.	.
Deaf Smith	16,717	6,175,715	369	11,758,239	703	253,248	15.1
Delta	.	.	.	.	.	.	.
Denton	.	.	.	.	.	.	.
Dickens	50,363	8,208,096	163	9,218,219	183	230,596	4.6
Dimmit	.	.	.	.	.	.	.
Donley	21,107	2,778,009	132	3,157,912	150	84,881	4.0
Duval	.	.	.	.	.	.	.
Eastland	12,450	1,096,687	88	8,914,057	716	178,476	14.3
Ector	.	.	.	.	.	.	.
Edwards	504,446	178,440,191	354	155,410,184	308	3,472,544	6.9
El Paso	.	.	.	.	.	.	.
Ellis	.	.	.	.	.	.	.
Erath	101,075	26,663,250	264	75,023,157	742	1,375,598	13.6
Falls	.	.	.	.	.	.	.
Fannin	16,913	6,949,982	411	1,069,687	63	55,717	3.3
Fayette	80,687	25,710,220	319	69,492,617	861	2,075,410	25.7
Fisher	49,960	14,196,653	284	5,721,476	115	163,597	3.3
Floyd	33,477	8,901,214	266	9,308,430	278	217,734	6.5
Foard	52,692	10,192,252	193	7,017,451	133	177,389	3.4
Fort Bend	.	.	.	.	.	.	.
Freestone	35,760	34,230,126	957	32,398,929	906	988,101	27.6
Frio	.	.	.	.	.	.	.
Gaines	.	.	.	.	.	.	.
Galveston	.	.	.	.	.	.	.
Garza	38,456	6,569,859	171	3,514,033	91	90,032	2.3
Gillisp	30,484	6,993,101	229	23,985,105	787	516,862	17.0
Glasscock	.	.	.	.	.	.	.
Goliad	.	.	.	.	.	.	.
Gonzales	.	.	.	.	.	.	.
Gray	.	.	.	.	.	.	.
Grayson	20,427	9,303,050	455	6,963,647	341	197,662	9.7
Guadalupe	.	.	.	.	.	.	.

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Hale	.	.	.	.	.	.	.
Hall	43,068	6,038,789	140	6,528,857	152	148,166	3.4
Hamilton	90,734	41,084,388	453	74,893,231	825	1,671,764	18.4
Hansford	.	.	.	.	.	.	.
Hardeeman	41,402	14,208,789	343	11,967,294	289	348,279	8.4
Hartley	.	.	.	.	.	.	.
Haskell	.	.	.	.	.	.	.
Hays	124,918	83,844,761	671	79,410,818	636	1,785,153	14.3
Hemphill	.	.	.	.	.	.	.
Hidalgo	.	.	.	.	.	.	.
Hill	.	.	.	.	.	.	.
Hockley	.	.	.	.	.	.	.
Hood	41,211	18,145,161	440	28,869,644	701	621,238	15.1
Hopkins	20,365	13,628,267	669	10,408,356	511	338,884	16.6
Howard	51,964	14,448,744	278	3,971,154	76	123,088	2.4
Hudspeth	.	.	.	.	.	.	.
Hunt	36,491	21,296,048	584	8,215,354	225	326,348	8.9
Hutchinson	.	.	.	.	.	.	.
Irion	230,647	58,917,056	255	18,464,586	80	685,603	3.0
Jack	3,990	288,152	72	323,576	81	9,215	2.3
Jackson	.	.	.	.	.	.	.
Jeff Davis	104,235	28,992,140	278	45,321,866	435	1,030,669	9.9
Jim Hogg	.	.	.	.	.	.	.
Jim Wells	.	.	.	.	.	.	.
Johnson	41,469	25,597,815	617	27,537,728	664	737,931	17.8
Jones	.	.	.	.	.	.	.
Kames	.	.	.	.	.	.	.
Kaufman	.	.	.	.	.	.	.
Kendall	103,217	48,973,102	474	78,059,808	756	1,754,316	17.0
Kenedy	.	.	.	.	.	.	.
Kent	63,626	9,171,629	144	14,762,850	232	369,177	5.8
Kerr	199,570	113,371,597	568	111,696,122	560	2,638,826	13.2
Kimble	364,345	113,825,611	312	152,198,781	418	3,167,469	8.7
King	125,019	46,279,222	370	26,118,370	209	706,955	5.7
Kinney	103,187	30,678,423	297	22,713,558	220	601,690	5.8
Kleberg	.	.	.	.	.	.	.
Knox	137,919	22,706,151	165	28,963,973	210	684,054	5.0
La Salle	.	.	.	.	.	.	.
Lamar	14,810	3,021,445	204	6,647,361	449	175,934	11.9
Lamb	.	.	.	.	.	.	.
Lampasas	104,111	58,443,606	561	81,318,543	781	1,963,222	18.9
Lavaca	.	.	.	.	.	.	.
Lee	.	.	.	.	.	.	.
Limestone	56,780	11,166,075	197	38,247,987	674	1,015,728	17.9
Lipscomb	.	.	.	.	.	.	.
Live Oak	.	.	.	.	.	.	.
Llano	41,639	18,374,885	441	30,001,398	721	652,051	15.7
Loving	.	.	.	.	.	.	.
Lubbock	.	.	.	.	.	.	.
Lynn	.	.	.	.	.	.	.
Martin	.	.	.	.	.	.	.
Mason	20,820	8,373,030	402	9,744,584	468	210,553	10.1
Matagorda	.	.	.	.	.	.	.
Maverick	.	.	.	.	.	.	.
McCulloch	57,254	15,937,068	278	28,825,451	503	647,688	11.3
McLennan	15,721	4,343,925	276	10,034,175	638	205,200	13.1
McMullen	.	.	.	.	.	.	.
Medina	83,279	22,520,430	270	54,059,583	649	1,096,243	13.2
Menard	41,639	3,064,287	74	12,371,418	297	230,897	5.5
Midland	.	.	.	.	.	.	.
Milam	.	.	.	.	.	.	.
Mills	34,487	5,941,069	172	19,810,711	574	330,895	9.6
Mitchell	.	.	.	.	.	.	.
Montague	.	.	.	.	.	.	.
Moore	.	.	.	.	.	.	.
Motley	54,915	3,975,888	72	18,091,140	329	337,703	6.1
Navarro	.	.	.	.	.	.	.
Nolan	173,262	61,186,922	353	33,283,460	192	945,576	5.5
Nueces	.	.	.	.	.	.	.
Ochiltree	.	.	.	.	.	.	.
Oldham	.	.	.	.	.	.	.
Palo Pinto	127,888	72,113,017	564	92,372,275	722	1,972,762	15.4
Parker	.	.	.	.	.	.	.
Parmer	.	.	.	.	.	.	.
Pecos	458,801	116,702,703	254	33,203,162	72	1,037,328	2.3
Potter	16,717	603,637	36	4,070,650	243	78,088	4.7
Presidio	.	.	.	.	.	.	.
Rains	.	.	.	.	.	.	.
Randall	.	.	.	.	.	.	.
Reagan	50,152	7,530,044	150	1,978,648	39	64,705	1.3
Real	167,106	121,494,497	727	170,499,962	1,020	4,035,045	24.1
Reeves
Refugio
Roberts	32,401	1,454,935	45	99,008	3	9,228	0.3

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Appendix II (cont.)

Acre, tree, volume and biomass estimates for the Juniper-pine forest type by county.

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Robertson	9,462	490,238	52	4,471,503	473	123,774	13.1
Rockwall	.	.	.	.	.	.	.
Runnels	.	.	.	.	.	.	.
San Patricio	.	.	.	.	.	.	.
San Saba	152,253	67,646,614	444	125,887,871	827	2,677,088	17.6
Schleicher	136,286	17,075,554	125	15,252,778	112	372,868	2.7
Scurry	37,164	4,821,815	130	4,388,880	118	113,529	3.1
Shackelford	.	.	.	.	.	.	.
Sherman	.	.	.	.	.	.	.
Somervell	57,254	39,438,174	689	33,744,361	589	959,152	16.8
Starr	.	.	.	.	.	.	.
Stephens	20,820	6,755,045	324	15,937,889	766	324,082	15.6
Sterling	145,206	26,867,616	185	7,729,564	53	218,025	1.5
Stonewall	71,049	12,761,561	180	26,298,689	370	616,913	8.7
Sutton	268,060	68,162,639	254	61,786,756	230	1,436,869	5.4
Swisher	13,625	755,096	55	1,893,626	139	65,863	4.8
Tarrant	.	.	.	.	.	.	.
Taylor	82,616	39,046,783	473	28,075,730	340	805,291	9.7
Terrell	390,331	70,674,895	181	23,729,499	61	727,855	1.9
Terry	.	.	.	.	.	.	.
Throckmorton	.	.	.	.	.	.	.
Tom Green	96,756	29,120,455	301	17,402,432	180	532,050	5.5
Travis	236,855	129,395,744	546	156,721,716	662	3,642,431	15.4
Upton	.	.	.	.	.	.	.
Uvalde	140,919	39,499,903	280	40,453,212	287	930,214	6.6
Val Verde	305,750	42,946,410	140	40,609,137	133	945,361	3.1
Victoria	.	.	.	.	.	.	.
Ward	.	.	.	.	.	.	.
Washington	61,096	39,470,068	646	28,472,029	466	1,003,146	16.4
Webb	.	.	.	.	.	.	.
Wharton	.	.	.	.	.	.	.
Wheeler	.	.	.	.	.	.	.
Wichita	.	.	.	.	.	.	.
Wilbarger	.	.	.	.	.	.	.
Willacy	.	.	.	.	.	.	.
Williamson	14,805	4,546,506	307	11,575,017	782	258,662	17.5
Wilson	.	.	.	.	.	.	.
Winkler	.	.	.	.	.	.	.
Wise
Yoakum
Young	16,595	3,867,675	233	10,639,004	641	345,484	20.8
Zapata
Zavala

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Appendix III: Acre, tree, volume and biomass estimates for the Mesquite woodland forest type by county.

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Andrews	335,026	52,290,340	156	2,766,972	8	272,220	0.8
Aransas	.	.	.	.	.	.	.
Archer	136,525	25,761,163	189	29,311,877	215	890,407	6.5
Armstrong	70,996	11,739,138	165	11,514,548	162	390,563	5.5
Atascosa	237,909	44,415,500	187	88,689,006	373	2,978,991	12.5
Austin	.	.	.	.	.	.	.
Bailey	.	.	.	.	.	.	.
Bandera	.	.	.	.	.	.	.
Bastrop	.	.	.	.	.	.	.
Baylor	247,888	44,072,417	178	40,441,153	163	1,349,724	5.4
Bee	37,239	19,374,127	520	42,006,201	1,128	1,256,626	33.7
Bell	18,597	3,571,699	192	720,160	39	30,394	1.6
Bexar	32,120	8,609,805	268	49,119,825	1,529	1,666,991	51.9
Blanco	18,223	1,864,367	102	10,713,304	588	231,012	12.7
Borden	149,881	32,555,322	217	6,174,173	41	335,712	2.2
Bosque	.	.	.	.	.	.	.
Brazoria	.	.	.	.	.	.	.
Brazos	15,588	2,106,655	135	1,403,503	90	75,657	4.9
Brewster	159,165	11,031,089	69	3,623,617	23	143,985	0.9
Briscoe	82,784	13,641,307	165	8,073,172	98	284,355	3.4
Brooks	177,823	19,412,894	109	51,711,906	291	1,498,581	8.4
Brown	116,671	12,795,845	110	42,093,918	361	1,426,119	12.2
Burleson	.	.	.	.	.	.	.
Burnet	.	.	.	.	.	.	.
Caldwell	31,234	12,542,557	402	14,776,732	473	508,884	16.3
Calhoun	9,416	1,457,067	155	163,951	17	15,461	1.6
Callahan	209,975	37,610,228	179	36,395,615	173	1,347,919	6.4
Cameron	12,446	1,947,340	156	4,512,731	363	137,595	11.1
Carson	.	.	.	.	.	.	.
Castro	.	.	.	.	.	.	.
Childress	67,711	13,993,733	207	7,971,413	118	324,203	4.8
Clay	68,634	17,704,245	258	16,884,249	246	596,424	8.7
Cochran	15,793	201,212	13	120,546	8	4,317	0.3
Coke	101,882	27,028,562	265	27,489,217	270	827,875	8.1
Coleman	184,764	18,247,507	99	63,530,212	344	2,229,176	12.1
Collin	.	.	.	.	.	.	.
Collingsworth	47,322	8,003,669	169	10,315,194	218	337,029	7.1
Colorado	.	.	.	.	.	.	.
Comal	.	.	.	.	.	.	.
Comanche	41,626	5,447,996	131	18,507,280	445	570,207	13.7
Concho	316,876	26,286,723	83	69,135,690	218	2,186,745	6.9
Cooke	.	.	.	.	.	.	.
Coryell	13,948	4,182,408	300	.	.	5,966	0.4
Cottle	45,571	2,442,339	54	1,393,817	31	52,536	1.2
Crane	190,509	38,129,686	200	9,189,569	48	397,917	2.1
Crockett	553,525	100,261,205	181	29,098,582	53	1,305,865	2.4
Crosby	141,867	18,620,355	131	6,059,444	43	349,669	2.5
Culberson	124,714	40,533,719	325	2,165,450	17	164,711	1.3
Dallam	.	.	.	.	.	.	.
Dallas	15,960	3,257,417	204	5,030,038	315	151,613	9.5
Dawson	.	.	.	.	.	.	.
DeWitt	8,992	768,406	85	6,999,769	778	187,433	20.8
Deaf Smith	.	.	.	.	.	.	.
Delta	.	.	.	.	.	.	.
Denton	10,438	469,047	45	1,539,191	147	75,667	7.2
Dickens	108,994	19,960,908	183	14,918,676	137	633,983	5.8
Dimmit	308,068	103,037,134	334	43,210,560	140	1,810,702	5.9
Donley	45,571	10,074,778	221	8,157,378	179	270,035	5.9
Duval	437,243	94,710,257	217	57,816,636	132	2,186,317	5.0
Eastland	99,016	15,716,041	159	28,289,602	286	950,135	9.6
Ector	306,139	38,010,587	124	772,651	3	115,338	0.4
Edwards	.	.	.	.	.	.	.
El Paso	.	.	.	.	.	.	.
Ellis	27,931	4,794,230	172	12,305,530	441	459,713	16.5
Erath	41,261	7,607,742	184	27,304,672	662	816,525	19.8
Falls	5,173	.	.	.	.	.	.
Fannin	.	.	.	.	.	.	.
Fayette	.	.	.	.	.	.	.
Fisher	123,639	17,083,292	138	19,079,191	154	807,790	6.5
Floyd	11,721	4,418,961	377	5,259,781	449	172,832	14.7
Foard	65,126	20,516,145	315	1,958,978	30	172,410	2.6
Fort Bend	.	.	.	.	.	.	.
Freestone	.	.	.	.	.	.	.
Frio	213,190	25,312,832	119	52,295,485	245	1,825,435	8.6
Gaines	77,915	30,843,740	396	3,206,850	41	213,102	2.7
Galveston	.	.	.	.	.	.	.
Garza	142,209	33,845,499	238	7,593,731	53	381,419	2.7
Gillispie	.	.	.	.	.	.	.
Glasscock	213,213	44,330,393	208	7,809,284	37	440,591	2.1
Goliad	16,913	2,489,230	147	3,992,987	236	170,531	10.1
Gonzales	88,735	23,687,015	267	22,709,226	256	787,443	8.9
Gray	.	.	.	.	.	.	.
Grayson	.	.	.	.	.	.	.
Guadalupe	25,457	11,856,457	466	16,825,331	661	544,709	21.4

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Hale	.	.	.	.	.	.	.
Hall	54,115	5,587,066	103	8,967,525	166	264,619	4.9
Hamilton	30,624	3,497,397	114	877,885	29	60,844	2.0
Hansford	.	.	.	.	.	.	.
Hardeman	93,186	21,210,319	228	20,300,647	218	876,270	9.4
Hartley	.	.	.	.	.	.	.
Haskell	95,533	21,570,096	226	31,644,017	331	1,058,958	11.1
Hays	.	.	.	.	.	.	.
Hemphill	6,859	105,671	15	202,943	30	6,101	0.9
Hidalgo	64,014	2,592,287	40	19,572,906	306	602,354	9.4
Hill	32,812	7,200,488	219	32,568,996	993	817,261	24.9
Hockley	31,385	10,746,553	342	288,402	9	60,954	1.9
Hood	.	.	.	.	.	.	.
Hopkins	.	.	.	.	.	.	.
Howard	133,558	18,785,661	141	20,845,599	156	713,352	5.3
Hudspeth	120,371	22,760,875	189	420,065	3	74,532	0.6
Hunt	.	.	.	.	.	.	.
Hutchinson	13,703	1,268,051	93	2,068,236	151	95,046	6.9
Irion	131,469	25,500,001	194	16,033,586	122	657,435	5.0
Jack	108,272	24,091,030	223	20,323,679	188	734,492	6.8
Jackson	.	.	.	.	.	.	.
Jeff Davis	14,669	.	.	.	.	.	.
Jim Hogg	106,247	6,455,502	61	12,467,502	117	535,565	5.0
Jim Wells	143,016	22,005,920	154	20,553,575	144	827,990	5.8
Johnson	.	.	.	.	.	.	.
Jones	50,802	11,965,269	236	4,722,531	93	210,666	4.1
Karnes	93,798	42,283,161	451	35,224,014	376	1,091,342	11.6
Kaufman	31,078	5,554,327	179	2,584,202	83	84,120	2.7
Kendall	.	.	.	.	.	.	.
Kenedy	95,141	19,097,089	201	26,111,195	274	754,700	7.9
Kent	191,151	62,475,132	327	46,113,845	241	1,694,915	8.9
Kerr	7,406	250,588	34	5,294,426	715	153,837	20.8
Kimble	62,459	6,436,391	103	6,224,344	100	343,067	5.5
King	108,097	13,442,036	124	9,892,185	92	347,676	3.2
Kinney	93,252	20,372,687	218	8,525,592	91	334,290	3.6
Kleberg	.	.	.	.	.	.	.
Knox	50,152	5,425,023	108	4,796,813	96	235,177	4.7
La Salle	364,283	63,739,411	175	88,925,849	244	3,005,761	8.3
Lamar	.	.	.	.	.	.	.
Lamb	.	.	.	.	.	.	.
Lampasas	44,828	6,083,145	136	7,223,939	161	232,484	5.2
Lavaca	.	.	.	.	.	.	.
Lee	.	.	.	.	.	.	.
Limestone	31,176	8,324,697	267	2,653,502	85	135,795	4.4
Lipscomb	.	.	.	.	.	.	.
Live Oak	107,230	49,358,479	460	69,098,701	644	2,294,588	21.4
Llano	84,835	9,311,818	110	20,389,683	240	871,250	10.3
Loving	132,990	7,237,407	54	407,937	3	37,562	0.3
Lubbock	.	.	.	.	.	.	.
Lynn	17,559	4,052,651	231	41,437	2	5,643	0.3
Martin	154,588	24,834,620	161	3,413,276	22	180,117	1.2
Mason	.	.	.	.	.	.	.
Matagorda	.	.	.	.	.	.	.
Maverick	215,817	58,171,048	270	15,109,099	70	743,478	3.4
McCulloch	127,573	15,561,866	122	35,496,778	278	1,213,417	9.5
McLennan	.	.	.	.	.	.	.
McMullen	173,251	48,908,372	282	17,254,056	100	685,495	4.0
Medina	99,280	23,616,648	238	35,355,364	356	1,149,473	11.6
Menard	83,279	6,504,457	78	7,822,398	94	299,598	3.6
Midland	233,204	40,699,584	175	1,428,587	6	132,547	0.6
Milam	.	.	.	.	.	.	.
Mills	36,447	4,985,181	137	15,366,345	422	450,028	12.3
Mitchell	84,429	15,116,460	179	11,082,633	131	527,052	6.2
Montague	49,786	14,239,430	286	9,469,031	190	374,964	7.5
Moore	16,717	804,849	48	1,910,752	114	55,654	3.3
Motley	174,485	41,740,995	239	16,902,760	97	895,120	5.1
Navarro	76,496	18,265,735	239	7,980,967	104	328,871	4.3
Nolan	38,883	7,884,154	203	10,690,203	275	354,458	9.1
Nueces	.	.	.	.	.	.	.
Ochiltree	.	.	.	.	.	.	.
Oldham	55,173	6,845,194	124	4,421,723	80	169,577	3.1
Palo Pinto	118,784	31,097,141	262	72,316,365	609	2,423,342	20.4
Parker	31,548	759,441	24	3,872,374	123	117,217	3.7
Parmer	.	.	.	.	.	.	.
Pecos	866,361	154,283,189	178	17,622,572	20	1,162,063	1.3
Potter	51,309	10,747,075	209	2,050,231	40	165,239	3.2
Presidio	49,414	.	.	.	.	.	.
Rains	.	.	.	.	.	.	.
Randall	.	.	.	.	.	.	.
Reagan	284,004	105,917,370	373	6,837,700	24	553,872	2.0
Real	.	.	.	.	.	.	.
Reeves	440,860	59,876,279	136	3,048,532	7	274,950	0.6
Refugio	24,891	898,772	36	5,074,048	204	138,544	5.6
Roberts	.	.	.	.	.	.	.

Central & West Texas Forestlands: 2007



Appendix III (cont.)

Acre, tree, volume, and biomass estimates for the Mesquite woodland forest type by county.

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Robertson	.	.	.	.	.	.	.
Rockwall	.	.	.	.	.	.	.
Runnels	129,211	27,840,015	215	16,505,958	128	760,300	5.9
San Patricio	75,844	21,286,427	281	18,062,869	238	646,952	8.5
San Saba	69,282	5,143,116	74	16,996,133	245	740,143	10.7
Schleicher	209,565	51,673,646	247	23,669,764	113	1,116,714	5.3
Scurry	160,162	48,438,310	302	24,168,395	151	1,016,599	6.3
Shackelford	163,557	22,928,571	140	45,005,115	275	1,391,103	8.5
Sherman	.	.	.	.	.	.	.
Somervell	.	.	.	.	.	.	.
Starr	192,846	23,898,744	124	37,150,880	193	1,319,218	6.8
Stephens	128,278	21,906,636	171	37,004,133	288	1,683,961	13.1
Sterling	142,669	32,636,979	229	8,732,305	61	388,163	2.7
Stonewall	129,953	20,256,491	156	37,537,424	289	1,240,556	9.5
Sutton	83,279	17,121,943	206	13,698,862	164	550,243	6.6
Swisher	.	.	.	.	.	.	.
Tarrant	.	.	.	.	.	.	.
Taylor	83,203	7,883,733	95	22,843,118	275	678,398	8.2
Terrell	104,235	16,521,200	158	2,178,871	21	110,013	1.1
Terry	16,717	10,029,782	600	.	.	8,290	0.5
Throckmorton	153,380	26,031,255	170	43,665,707	285	1,587,628	10.4
Tom Green	199,259	53,388,221	268	36,780,400	185	1,366,278	6.9
Travis	5,267	3,499,910	665	4,472,538	849	119,896	22.8
Upton	281,439	34,716,600	123	6,990,572	25	312,541	1.1
Uvalde	59,901	17,180,232	287	13,256,409	221	502,809	8.4
Val Verde	62,459	14,365,472	230	3,229,287	52	150,030	2.4
Victoria	.	.	.	.	.	.	.
Ward	236,569	34,226,638	145	3,319,330	14	258,870	1.1
Washington	.	.	.	.	.	.	.
Webb	743,638	234,123,920	315	122,023,870	164	4,689,790	6.3
Wharton	.	.	.	.	.	.	.
Wheeler	14,668	1,540,955	105	335,105	23	27,342	1.9
Wichita	65,331	11,963,464	183	12,854,778	197	477,032	7.3
Wilbarger	99,746	10,744,225	108	3,781,109	38	160,712	1.6
Willacy	72,157	13,544,068	188	27,801,356	385	899,412	12.5
Williamson	.	.	.	.	.	.	.
Wilson	75,892	26,673,132	351	70,630,837	931	2,004,061	26.4
Winkler	118,913	8,716,014	73	3,421,201	29	131,859	1.1
Wise	11,691	1,543,799	132	1,922,232	164	58,461	5.0
Yoakum	16,717	11,283,505	675	.	.	35,794	2.1
Young	157,427	29,616,160	188	72,440,491	460	2,540,321	16.1
Zapata	159,155	34,913,411	219	28,770,693	181	1,179,331	7.4
Zavala	177,075	35,226,296	199	56,414,513	319	1,704,170	9.6

Central & West Texas Forestlands: 2007



Appendix IV: Acre, tree, volume and biomass estimates for the Other hardwood forest type by county.

County	Acres	Trees	Per Acre	Volume	Per Acre	Biomass	Per Acre
Andrews	49,119	2,234,907	46	1,230,760	25	40,652	0.8
Aransas	24,891	11,064,117	445	9,137,483	367	431,738	17.3
Archer	45,020	2,253,253	50	894,701	20	46,394	1.0
Armstrong	54,729	1,205,262	22	373,749	7	20,368	0.4
Atascosa	148,703	50,696,173	341	45,540,329	306	1,477,281	9.9
Austin	52,956	14,359,105	271	25,561,813	483	697,368	13.2
Bailey	.	.	.	.	.	.	.
Bandera	133,009	65,578,181	493	69,846,053	525	1,973,894	14.8
Bastrop	45,822	16,002,273	349	1,673,346	37	99,862	2.2
Baylor	87,706	19,940,537	227	12,795,913	146	466,427	5.3
Bee	157,453	68,517,393	435	29,449,089	187	1,300,122	8.3
Bell	3,816	3,459,781	907	1,502,058	394	37,319	9.8
Bexar	35,340	12,886,637	365	10,267,113	291	240,997	6.8
Blanco	57,266	29,331,353	512	6,424,252	112	439,570	7.7
Borden	26,431	2,999,753	113	930,377	35	30,412	1.2
Bosque	55,417	5,722,527	103	8,454,921	153	219,464	4.0
Brazoria	149,877	107,292,902	716	147,283,292	983	4,078,571	27.2
Brazos	42,593	26,639,103	625	39,211,898	921	1,043,833	24.5
Brewster	47,353	6,195,510	131	750,375	16	44,483	0.9
Briscoe	65,519	3,724,430	57	3,506,735	54	89,189	1.4
Brooks	39,785	284,448	7	4,393,940	110	110,756	2.8
Brown	70,273	11,594,153	165	12,216,633	174	423,615	6.0
Burleson	18,341	2,892,375	158	17,960,149	979	457,663	25.0
Burnet	59,561	25,069,856	421	34,642,330	582	875,006	14.7
Caldwell	9,319	610,686	66	3,225,261	346	72,189	7.7
Callahan	24,891	6,350,747	255	507,508	20	45,210	1.8
Callahan	132,591	17,630,570	133	13,672,404	103	516,876	3.9
Cameron	34,820	1,183,221	34	2,867,334	82	85,387	2.5
Carson	.	.	.	.	.	.	.
Castro	.	.	.	.	.	.	.
Childress	.	.	.	.	.	.	.
Clay	111,912	30,293,972	271	25,906,504	231	840,547	7.5
Cochran	.	.	.	.	.	.	.
Coke	16,717	1,857,359	111	766,897	46	27,755	1.7
Coleman	121,653	27,293,714	224	12,583,932	103	422,502	3.5
Collin	94,438	27,417,202	290	155,264,571	1,644	3,622,446	38.4
Collingsworth	46,352	15,756,623	340	57,049,446	1,231	1,382,167	29.8
Colorado	78,009	10,759,531	138	60,283,557	773	1,791,738	23.0
Comal	5,205	.	.	.	.	.	.
Comanche	89,746	4,423,825	49	17,805,633	198	563,274	6.3
Concho	73,679	6,646,851	90	6,194,530	84	195,351	2.7
Cooke	21,027	195,590	9	420,760	20	12,725	0.6
Coryell	73,498	20,604,200	280	77,644,363	1,056	1,949,923	26.5
Cottle	58,511	5,471,472	94	2,962,844	51	119,463	2.0
Crane	42,200	2,160,242	51	785,269	19	49,005	1.2
Crockett	323,262	69,155,360	214	21,724,734	67	872,790	2.7
Crosby	39,508	2,055,356	52	638,293	16	19,279	0.5
Culberson	30,402	1,720,529	57	550,796	18	19,374	0.6
Dallam	.	.	.	.	.	.	.
Dallas	26,275	44,939,471	1,710	17,657,150	672	712,939	27.1
Dawson	.	.	.	.	.	.	.
DeWitt	82,901	19,946,192	241	12,488,456	151	476,216	5.7
Deaf Smith	.	.	.	.	.	.	.
Delta	51,442	27,905,172	542	39,872,780	775	1,079,354	21.0
Denton	7,980	3,641,620	456	11,150,749	1,397	266,131	33.3
Dickens	83,185	1,503,393	61	2,605,173	31	115,320	1.4
Dimmit	98,267	7,480,025	76	4,371,053	44	184,023	1.9
Donley	34,276	523,290	15	2,165,223	63	59,818	1.7
Duval	337,189	68,039,143	202	28,529,818	85	1,103,771	3.3
Eastland	98,104	32,479,221	331	19,017,307	194	539,765	5.5
Ector	17,373	1,511,432	87	500,542	29	16,577	1.0
Edwards	183,279	64,900,146	354	14,164,181	77	560,585	3.1
El Paso	.	.	.	.	.	.	.
Ellis	35,937	23,126,715	644	21,354,119	594	621,674	17.3
Erath	93,758	4,596,597	49	5,301,822	57	123,639	1.3
Falls	31,568	7,763,495	246	17,655,656	559	498,606	15.8
Fannin	120,078	82,722,190	689	83,208,018	693	2,363,711	19.7
Fayette	.	.	.	.	.	.	.
Fisher	53,623	10,055,599	188	2,417,625	45	103,986	1.9
Floyd	.	.	.	.	.	.	.
Foard	16,717	402,424	24	442,136	26	10,878	0.7
Fort Bend	75,892	24,859,190	328	104,582,612	1,378	3,595,832	47.4
Freestone	99,710	28,559,282	286	88,163,513	884	2,517,813	25.3
Frio	234,809	64,837,278	276	50,436,066	215	1,803,700	7.7
Gaines	.	.	.	.	.	.	.
Galveston	.	.	.	.	.	.	.
Garza	65,444	6,713,771	103	592,271	9	42,656	0.7
Gillispie	145,414	12,468,938	86	43,475,154	299	1,108,695	7.6
Glasscock	16,717	1,555,541	93	486,717	29	20,785	1.2
Goliad	45,360	21,425,773	472	5,670,363	125	249,939	5.5
Gonzales	91,349	10,971,158	120	17,521,919	192	600,314	6.6
Gray	51,835	5,268,028	102	71,890,592	1,387	1,622,015	31.3
Grayson	100,320	42,815,512	427	59,063,890	589	1,650,322	16.5
Guadalupe	57,643	51,809,140	899	21,314,521	370	766,185	13.3

County	Acres	Trees	Per Acre	Volume	Per Acre	Biomass	Per Acre
Hale	.	.	.	.	.	.	.
Hall	71,458	5,370,983	75	13,000,332	182	310,981	4.4
Hamilton	49,089	25,249,121	514	24,648,595	502	711,818	14.5
Hansford	.	.	.	.	.	.	.
Hardeman	36,230	2,159,178	60	3,856,352	106	97,902	2.7
Hartley	.	.	.	.	.	.	.
Haskell	.	.	.	.	.	.	.
Hays	32,570	11,652,902	358	12,872,040	395	388,393	11.9
Hemphill	15,684	377,548	24	2,552,372	163	52,886	3.4
Hidalgo	24,070	4,633,286	192	3,371,983	140	107,772	4.5
Hill	60,390	31,616,668	524	15,514,790	257	622,071	10.3
Hockley	.	.	.	.	.	.	.
Hood	13,615	27,112,447	1,991	6,378,123	468	238,733	17.5
Hopkins	128,274	42,024,175	328	46,336,178	361	1,483,297	11.6
Howard	42,635	6,399,902	150	2,336,798	55	117,305	2.8
Hudspeth	17,373	1,511,432	87	1,498,403	86	49,595	2.9
Hunt	98,796	73,806,817	747	55,018,632	557	1,738,347	17.6
Hutchinson	29,322	588,890	20	1,635,362	56	47,359	1.6
Irion	146,657	5,244,070	36	5,140,198	35	194,878	1.3
Jack	147,040	23,323,138	159	16,711,723	114	485,153	3.3
Jackson	69,517	6,854,463	99	41,520,021	597	1,047,208	15.1
Jeff Davis	30,402	731,840	24	2,004,098	66	50,953	1.7
Jim Hogg	136,434	16,376,325	120	10,771,727	79	419,807	3.1
Jim Wells	105,364	5,576,441	53	3,502,658	33	120,450	1.1
Johnson	38,349	16,591,275	433	28,446,409	742	846,872	22.1
Jones	13,169	.	.	.	.	.	.
Karnes	102,913	33,023,980	321	18,511,570	180	629,394	6.1
Kaufman	59,984	15,596,472	260	1,930,961	32	99,722	1.7
Kendall	60,540	7,632,104	126	13,243,503	219	344,662	5.7
Kenedy	24,891	.	.	.	.	.	.
Kent	78,374	10,396,380	133	8,268,727	106	347,907	4.4
Kerr	91,104	32,961,541	362	31,096,465	341	676,126	7.4
Kimble	104,099	42,344,652	407	17,091,615	164	581,918	5.6
King	33,435	1,710,304	51	2,859,125	86	80,606	2.4
Kinney	142,884	14,535,847	102	8,991,426	63	263,171	1.8
Kleberg	10,118	5,570,627	551	6,222,640	615	192,377	19.0
Knox	25,076	1,555,541	62	587,459	23	23,475	0.9
La Salle	162,889	30,933,241	190	13,062,821	80	565,918	3.5
Lamar	57,643	32,849,603	570	47,105,269	817	1,319,119	22.9
Lamb	.	.	.	.	.	.	.
Lampasas	67,838	26,212,061	386	16,725,621	247	523,285	7.7
Lavaca	57,643	24,340,436	422	41,712,007	724	1,292,303	22.4
Lee	7,771	480,254	62	7,253,053	933	219,899	28.3
Limestone	57,732	15,186,487	263	77,381,755	1,340	1,869,536	32.4
Lipscomb	.	.	.	.	.	.	.
Live Oak	202,503	44,310,832	219	20,102,039	99	789,521	3.9
Uano	149,789	37,971,854	254	25,725,404	172	789,124	5.3
Loving	17,373	1,302,335	75	.	.	602	0.0
Lubbock	.	.	.	.	.	.	.
Lynn	.	.	.	.	.	.	.
Martin	.	.	.	.	.	.	.
Mason	145,101	14,893,856	103	6,810,475	47	254,499	1.8
Matagorda	65,472	7,589,739	116	105,494,292	1,611	2,770,562	42.3
Maverick	168,815	20,936,858	124	17,140,833	102	672,292	4.0
McCulloch	153,369	8,648,894	56	7,194,643	47	229,006	1.5
McLennan	46,091	27,248,710	591	13,757,056	298	534,096	11.6
McMullen	319,513	51,361,378	161	10,158,976	32	464,367	1.5
Medina	122,313	94,568,132	773	25,058,302	205	1,085,511	8.9
Menard	41,639	2,688,405	65	1,440,728	35	31,756	0.8
Midland	16,717	1,354,329	81	43,644	3	6,216	0.4
Milam	46,294	21,467,473	464	28,663,930	619	853,832	18.4
Mills	89,277	5,903,863	66	18,250,365	204	472,516	5.3
Mitchell	51,137	5,334,047	104	1,877,994	37	71,582	1.4
Montague	93,646	14,129,884	151	15,167,331	162	515,578	5.5
Moore	16,717	301,818	18	1,009,564	60	33,416	2.0
Motley	66,241	2,371,255	36	3,357,867	51	131,493	2.0
Navarro	56,200	27,608,577	491	33,391,024			

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Appendix IV (cont.): Acre, tree, volume and biomass estimates for the Other hardwood forest type by county.

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Robertson	35,186	10,796,186	307	26,658,550	758	713,293	20.3
Rockwall	.	.	.	.	.	.	.
Runnels	20,820	2,312,522	111	487,012	23	36,983	1.8
San Patricio	.	.	.	.	.	.	.
San Saba	104,000	14,037,126	135	22,017,184	212	631,947	6.1
Schleicher	109,304	2,881,765	26	9,297,582	85	180,716	1.7
Scurry	41,802	15,651,895	374	3,159,617	76	161,491	3.9
Shackelford	233,340	52,864,326	227	30,922,325	133	1,114,556	4.8
Sherman	.	.	.	.	.	.	.
Somervell	13,948	11,325,806	812	10,531,380	755	253,523	18.2
Starr	207,161	21,549,880	104	17,013,920	82	619,971	3.0
Stephens	77,950	21,667,423	278	16,151,176	207	500,733	6.4
Sterling	34,314	2,259,784	66	731,262	21	29,198	0.9
Stonewall	50,866	16,390,030	322	6,779,100	133	332,126	6.5
Sutton	180,889	11,146,601	62	7,150,564	40	250,490	1.4
Swisher	.	.	.	.	.	.	.
Tarrant	32,583	14,204,402	436	21,620,161	664	493,518	15.1
Taylor	33,435	503,031	15	402,312	12	7,783	0.2
Terrell	138,980	6,995,708	50	5,113,420	37	118,888	0.9
Terry	.	.	.	.	.	.	.
Throckmorton	69,556	2,280,713	33	4,516,175	65	133,843	1.9
Tom Green	74,732	10,758,053	144	1,486,214	20	81,208	1.1
Travis	23,665	8,583,968	363	10,775,746	455	262,495	11.1
Upton	65,549	4,090,820	62	879,723	13	60,616	0.9
Uvalde	206,337	53,006,123	257	15,771,041	76	605,570	2.9
Val Verde	310,742	28,754,596	93	18,329,943	59	495,390	1.6
Victoria	106,352	24,794,128	233	83,609,623	786	2,249,736	21.2
Ward	34,745	2,243,271	65	618,415	18	46,505	1.3
Washington	31,229	7,287,400	233	33,452,257	1,071	725,670	23.2
Webb	229,932	11,077,935	48	8,148,016	35	302,526	1.3
Wharton	42,683	7,657,345	179	25,647,467	601	666,037	15.6
Wheeler	17,559	634,026	36	11,939,720	680	253,100	14.4
Wichita	19,453	6,800,095	350	31,082,403	1,598	731,904	37.6
Willbarger	33,257	176,545	5	331,810	10	8,301	0.2
Willacy	64,391	6,650,338	103	4,094,070	64	164,071	2.5
Williamson	45,839	5,915,834	129	4,840,874	106	131,793	2.9
Wilson	61,283	14,528,079	237	17,614,831	287	563,609	9.2
Winkler	100,525	3,998,614	40	4,672,068	46	162,749	1.6
Wise	101,361	29,190,456	288	112,566,374	1,111	2,796,103	27.6
Yoakum	.	.	.	.	.	.	.
Young	71,325	10,254,094	144	6,263,360	88	261,753	3.7
Zapata	94,532	4,791,128	51	4,725,367	50	177,569	1.9
Zavala	175,377	8,430,132	48	8,396,142	48	352,358	2.0

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Appendix V: Acre, tree, volume and biomass estimates for the Oak forest type by county.

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Andrews	.	.	.	.	.	.	.
Aransas	.	.	.	.	.	.	.
Archer	.	.	.	.	.	.	.
Armstrong	.	.	.	.	.	.	.
Atascosa	27,323	17,334,486	634	30,674,290	1,123	1,062,440	38.9
Austin	16,913	4,719,606	279	8,432,916	499	282,820	16.7
Bailey	.	.	.	.	.	.	.
Bandera	59,656	9,129,004	153	29,253,455	490	826,662	13.9
Bastrop	45,310	14,195,037	313	43,254,649	955	1,240,369	27.4
Baylor	.	.	.	.	.	.	.
Bee	49,782	49,617,985	997	41,825,999	840	1,523,350	30.6
Bell	78,834	26,256,546	333	34,543,730	438	979,745	12.4
Bexar	114,573	76,427,643	667	90,891,919	793	2,635,613	23.0
Blanco	120,954	30,395,609	251	48,982,831	405	1,558,183	12.9
Borden	12,160	6,789,642	558	153,895	13	11,474	0.9
Bosque	88,683	24,092,680	272	54,650,895	616	1,674,189	18.9
Brazoria	55,581	9,333,249	168	114,014,671	2,051	3,443,299	62.0
Brazos	52,895	10,581,534	200	45,498,920	860	1,288,308	24.4
Brewster	62,443	2,548,623	41	13,751,888	220	316,738	5.1
Briscoe	.	.	.	.	.	.	.
Brooks	36,688	25,015,504	682	16,282,395	444	584,110	15.9
Brown	141,673	62,902,836	444	36,903,659	260	1,469,636	10.4
Burleson	127,367	40,598,462	319	109,122,212	857	3,491,694	27.4
Burnet	123,398	32,778,783	266	37,242,745	302	1,139,473	9.2
Caldwell	121,030	56,680,484	468	76,779,625	634	2,677,032	22.1
Calhoun	58,386	1,007,880	17	7,015,707	120	214,509	3.7
Callahan	102,898	38,752,079	377	29,443,412	286	1,150,024	11.2
Cameron	.	.	.	.	.	.	.
Carson	.	.	.	.	.	.	.
Castro	.	.	.	.	.	.	.
Childress	.	.	.	.	.	.	.
Clay	82,075	15,544,058	189	42,278,471	515	1,244,446	15.2
Cochran	.	.	.	.	.	.	.
Coke	50,504	12,236,113	242	17,538,561	347	563,285	11.2
Coleman	22,779	19,902,776	874	19,330,522	849	653,137	28.7
Collin	.	.	.	.	.	.	.
Collingsworth	.	.	.	.	.	.	.
Colorado	76,782	12,399,575	161	77,817,699	1,013	2,380,484	31.0
Comal	98,114	73,435,065	748	67,468,292	688	2,088,591	21.3
Comanche	122,956	58,944,238	479	46,832,886	381	1,690,705	13.8
Concho	41,639	8,122,442	195	3,924,814	94	133,027	3.2
Cooke	74,175	29,020,341	391	36,519,367	492	1,248,197	16.8
Coryell	78,834	42,979,717	545	42,830,021	543	1,116,999	14.2
Cottle	.	.	.	.	.	.	.
Crane	.	.	.	.	.	.	.
Crockett	41,639	16,746,061	402	5,371,062	129	193,407	4.6
Crosby	.	.	.	.	.	.	.
Culberson	.	.	.	.	.	.	.
Dallam	.	.	.	.	.	.	.
Dallas	.	.	.	.	.	.	.
Dawson	.	.	.	.	.	.	.
DeWitt	78,007	12,112,178	155	29,337,590	376	853,635	10.9
Deaf Smith	.	.	.	.	.	.	.
Delta	.	.	.	.	.	.	.
Denton	.	.	.	.	.	.	.
Dickens	.	.	.	.	.	.	.
Dimmit	.	.	.	.	.	.	.
Donley	.	.	.	.	.	.	.
Duval	.	.	.	.	.	.	.
Eastland	210,856	100,240,534	475	63,297,097	300	2,378,367	11.3
Ector	.	.	.	.	.	.	.
Edwards	228,663	40,930,866	179	21,293,978	93	790,994	3.5
El Paso	.	.	.	.	.	.	.
Ellis	.	.	.	.	.	.	.
Erath	77,157	64,423,613	835	32,105,992	416	1,406,026	18.2
Falls	.	.	.	.	.	.	.
Fannin	20,365	14,363,624	705	18,135,174	890	573,951	28.2
Fayette	55,853	25,339,236	454	33,328,352	597	1,097,162	19.6
Fisher	.	.	.	.	.	.	.
Floyd	.	.	.	.	.	.	.
Foard	.	.	.	.	.	.	.
Fort Bend	16,748	201,576	12	13,963,803	834	594,020	35.5
Freestone	166,554	81,092,781	487	132,387,772	795	4,067,459	24.4
Frio	16,274	6,580,626	404	32,797,767	2,015	956,380	58.8
Gaines	.	.	.	.	.	.	.
Galveston	.	.	.	.	.	.	.
Garza	.	.	.	.	.	.	.
Gillispie	257,863	76,151,286	295	113,203,063	439	3,190,783	12.4
Glasscock	.	.	.	.	.	.	.
Goliad	36,326	2,030,493	56	7,741,219	213	204,815	5.6
Gonzales	70,761	20,043,919	283	22,832,726	323	817,723	11.6
Gray	.	.	.	.	.	.	.
Grayson	63,903	32,029,699	501	109,283,074	1,710	3,242,475	50.7
Guadalupe	50,642	3,676,782	73	21,308,731	421	709,936	14.0

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Hale	.	.	.	.	.	.	.
Hall	.	.	.	.	.	.	.
Hamilton	20,767	4,510,589	217	14,524,081	699	328,448	15.8
Hansford	.	.	.	.	.	.	.
Hardeman	.	.	.	.	.	.	.
Hartley	.	.	.	.	.	.	.
Haskell	.	.	.	.	.	.	.
Hays	95,355	55,824,822	585	64,436,972	676	2,018,096	21.2
Hemphill	.	.	.	.	.	.	.
Hidalgo	.	.	.	.	.	.	.
Hill	24,397	9,264,771	380	22,353,863	916	646,655	26.5
Hockley	.	.	.	.	.	.	.
Hood	37,194	10,216,306	275	6,591,376	177	202,596	5.4
Hopkins	62,447	21,487,376	344	76,867,268	1,231	2,051,715	32.9
Howard	.	.	.	.	.	.	.
Hudspeth	.	.	.	.	.	.	.
Hunt	12,684	8,680,257	684	21,270,956	1,677	621,439	49.0
Hutchinson	.	.	.	.	.	.	.
Irion	.	.	.	.	.	.	.
Jack	136,234	35,922,445	264	61,675,859	453	1,790,860	13.1
Jackson	60,321	10,470,943	174	96,785,557	1,605	3,067,832	50.9
Jeff Davis	86,863	17,650,614	203	25,809,426	297	850,435	9.8
Jim Hogg	.	.	.	.	.	.	.
Jim Wells	.	.	.	.	.	.	.
Johnson	8,744	4,367,775	500	7,419,996	849	220,958	25.3
Jones	.	.	.	.	.	.	.
Karnes	.	.	.	.	.	.	.
Kaufman	31,729	6,408,482	202	19,050,313	600	581,641	18.3
Kendall	154,417	76,908,877	498	35,789,599	232	1,282,625	8.3
Kenedy	31,094	14,320,583	461	25,986,231	836	664,225	21.4
Kent	.	.	.	.	.	.	.
Kerr	170,432	46,598,809	273	65,231,182	383	1,785,408	10.5
Kimble	224,388	76,968,002	343	55,237,618	246	2,107,057	9.4
King	.	.	.	.	.	.	.
Kinney	41,639	7,564,038	182	6,682,947	160	241,659	5.8
Kleberg	.	.	.	.	.	.	.
Knox	.	.	.	.	.	.	.
La Salle	.	.	.	.	.	.	.
Lamar	111,485	50,594,333	454	103,104,480	925	3,067,889	27.5
Lamb	.	.	.	.	.	.	.
Lampasas	64,427	15,926,282	247	29,166,308	453	861,718	13.4
Lavaca	119,355	18,827,293	158	99,746,066	836	2,995,686	25.1
Lee	25,457	11,611,338	456	16,334,651	642	545,537	21.4
Limestone	12,684	2,035,618	160	11,665,417	920	329,278	26.0
Lipscomb	.	.	.	.	.	.	.
Live Oak	.	.	.	.	.	.	.
Uano	240,745	38,533,279	160	83,783,301	348	2,431,531	10.1
Loving	.	.	.	.	.	.	.
Lubbock	.	.	.	.	.	.	.
Lynn	.	.	.	.	.	.	.
Martin	.	.	.	.	.	.	.
Mason	236,539	63,356,528	268	104,069,844	440	3,184,219	13.5
Matagorda	25,500	5,901,655	231	42,797,621	1,678	887,904	34.8
Maverick	.	.	.	.	.	.	.
McCulloch	80,889	28,496,622	352	20,975,694	259	762,967	9.4
McLennan	13,667	12,085,183	884	7,563,093	553	278,293	20.4
McMullen	.	.	.	.	.	.	.
Medina	56,299	18,898,218	336	62,596,456	1,112	1,951,265	34.7
Menard	351,468	100,124,673	285	90,694,031	258	3,093,865	8.8
Midland	.	.	.	.	.	.	.
Milam	175,469	65,026,044	371	136,977,329	781	3,937,234	22.4
Mills	120,099	43,342,093	361	57,457,075	478	1,724,932	14.4
Mitchell	.	.	.	.	.	.	.
Montague	119,269	68,413,435	574	62,698,924	526	2,390,607	20.0
Moore	.	.	.	.	.	.	.
Motley	.	.	.	.	.	.	.
Navarro	11,970	10,340,248	864	2,775,666	232	103,813	8.7
Nolan	.	.	.	.	.	.	.
Nueces	.	.	.	.	.	.	.
Ochiltree	.	.	.	.	.	.	.
Oldham	.	.	.	.	.	.	.
Palo Pinto	131,819	73,076,305	554	77,084,598	585	2,297,510	17.4
Parker	134,254	45,918,383	342	36,464,925	272	1,154,310	8.6
Parmer	.	.	.	.	.	.	.
Pecos	.	.	.	.	.	.	.
Potter	.	.	.	.	.	.	.
Presidio	.	.	.	.	.	.	.
Rains	.	.	.	.	.	.	.
Randall	.	.	.	.	.	.	.
Reagan	.	.	.	.	.	.	.
Real	67,976	15,811,774	233	29,737,547	437	956,020	14.1
Reeves
Refugio	17,152	8,597,678	501	11,096,419	647	326,715	19.0
Roberts

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Appendix V (cont.): Acre, tree, volume and biomass estimates for the Oak forest type by county.

County	Acres	Trees	Trees Per Acre	Volume	Volume Per Acre	Biomass	Biomass Per Acre
Robertson	106,009	35,794,958	338	85,174,711	803	2,586,526	24.4
Rockwall	.	.	.	.	.	.	.
Runnels	.	.	.	.	.	.	.
San Patricio	.	.	.	.	.	.	.
San Saba	91,394	33,079,518	362	42,868,524	469	1,152,596	12.6
Schleicher	119,713	29,321,864	245	39,468,375	330	1,325,333	11.1
Scurry	.	.	.	.	.	.	.
Shackelford	.	.	.	.	.	.	.
Sherman	.	.	.	.	.	.	.
Somervell	4,649	1,729,890	372	1,985,304	427	58,566	12.6
Starr	.	.	.	.	.	.	.
Stephens	126,614	49,560,043	391	35,069,752	277	1,250,304	9.9
Sterling	.	.	.	.	.	.	.
Stonewall	.	.	.	.	.	.	.
Sutton	113,672	36,619,688	322	23,483,727	207	667,466	5.9
Swisher	.	.	.	.	.	.	.
Tarrant	12,684	1,526,714	120	8,680,242	684	234,247	18.5
Taylor	27,188	11,794,242	434	11,930,498	439	484,496	17.8
Terrell	17,373	1,929,626	111	838,602	48	29,627	1.7
Terry	.	.	.	.	.	.	.
Throckmorton	.	.	.	.	.	.	.
Tom Green	16,717	2,515,153	150	6,336,964	379	126,411	7.6
Travis	20,820	3,382,942	162	11,604,951	557	280,064	13.5
Upton	.	.	.	.	.	.	.
Uvalde	73,442	26,441,423	360	29,858,296	407	1,065,714	14.5
Val Verde	20,820	1,252,941	60	2,835,814	136	70,278	3.4
Victoria	111,563	37,973,130	340	50,855,351	456	1,496,915	13.4
Ward	.	.	.	.	.	.	.
Washington	14,075	7,594,314	540	16,197,576	1,151	435,758	31.0
Webb	.	.	.	.	.	.	.
Wharton	.	.	.	.	.	.	.
Wheeler	.	.	.	.	.	.	.
Wichita	.	.	.	.	.	.	.
Wilbarger	.	.	.	.	.	.	.
Willacy	.	.	.	.	.	.	.
Williamson	57,227	18,846,864	329	48,439,663	846	1,473,664	25.8
Wilson	54,398	8,031,844	148	25,241,388	464	823,737	15.1
Winkler	.	.	.	.	.	.	.
Wise	52,422	32,337,145	617	49,995,768	954	1,540,909	29.4
Yoakum	.	.	.	.	.	.	.
Young	133,024	50,271,665	378	39,101,824	294	1,381,753	10.4
Zapata	.	.	.	.	.	.	.
Zavala	.	.	.	.	.	.	.