

Appendix F
Detailed Information for Agricultural Resources

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Irrigation

Surveys of the BGRWPA counties were completed in 1994 by the TWDB and in 1997 and 2002 by the US Department of Commerce (Census of Agriculture). The total irrigated acreage for the BGRWPA was 214,096 acres in the 1994 survey, 202,442 acres in the 1997 survey, and 207,102 acres in 2002. Irrigated acreage declined from 1994 to the current time in the Cross Timbers Region by 19,600 acres. This decline was a result of a change in the governmental peanut program in the 1995 Farm Bill. The peanut-poundage quota was allowed to transfer across county lines, with the result that a significant portion of the peanut quota from the peanut growing counties of the Cross Timbers was moved to West Texas where the profits were greater from higher yields and lower costs of production. The movement of the peanut quota is thought to be the primary reason for the decrease of 21,128 irrigated acres in Comanche County. This decrease should not be regarded as a trend; the peanut quota transfer is largely complete (only 40 percent of the quota is allowed to transfer out of a county). The irrigated acres may increase in the future as profitable field, tree and horticultural irrigated crops increase. None of the irrigated acreage decrease was the result of a transfer of irrigation water to municipal use. The town of Comanche is not expanding into farmland with peanut production. Most of the irrigation water was from the Trinity Aquifer from individual wells and pumps. Some peanuts are irrigated with surface water from the Leon River and Lake Proctor.

Irrigated acreage decreased in Rolling Plains by 13,047 acres since 1994. The region is exhibiting a trend toward dry land crops such as small grains, hay and silage. Haskell and Knox Counties are the largest irrigating counties in the BGRWPA totaling 53,927 acres which declined 11,975 acres since 1994.

The Blackland, and Southeast and Central Regions showed an increase of irrigation acreage. Most of these counties are located along the Brazos River. Corn acreage increased to more than 450,000 acres in the Blacklands, an increase of 181,439 acres over 1994. Corn is a large water user. A full season (120 days) commercial hybrid requires approximately 20 to 25 gallons from seedling to maturity. Multiplied by a final population of 22,000 to 26,000 plants per acre, classifies corn as a high maintenance crop.

Livestock

The Cross Timbers region is a major dairy area of the state. Erath County is the leading county in milk production, Comanche County ranks third, Hamilton County is sixth and Johnson County ranks eighth. The 199 farms in these four counties produce over 38 percent of the milk in Texas in 2002. Dairy water requirements vary widely, depending on the types of waste removal and cow washing systems. Surveys of 11 dairies in Erath County in the early 1990s showed a daily water use of about 100 gallons per milking cow on dairies with sprinklers for washing cow udders prior to milking. The water use included about 30 gallons of drinking water, 40 gallons for manure removal and 30 gallons for washing cow udders prior to milking. If the dairy does not use a cow washing system, the daily water use averaged about 80 gallons per milking cow. For an average of 100 gallons of water per day per milking cow, the BGRWPA dairy water use for 118,106 milking cows is 1,087 acre feet per month. The source of this water is virtually all

ground water from the Trinity Aquifer as each dairy has its own water supply. With farm numbers declining and size increasing more producers are adopting the latest technology to increase profitability. The evolution from pasture and dry lot to free stall barns will require greater water use. Misting and evaporative systems for summer months will be needed for animal cooling purposes. Manure removal, sanitation, and disinfection will elevate water use as well

Other significant livestock raised in the BGRWPA in 2002 were beef cattle, swine, and sheep. Total number of swine and sheep of all ages were 21,825 and 59,734, respectively. Beef cows numbered 784,668 head and all cattle and calves totaling 2,392,991.

Table F-1. 2012 Agricultural Production Statistics

<i>Agricultural District</i>	<i>Market Value (\$1,000)</i>			<i>Livestock</i>	<i>Area (acres)</i>			
	<i>Crops</i>	<i>Livestock</i>	<i>Total</i>	<i>% value</i>	<i>Farmland</i>	<i>Cropland</i>	<i>Harvested</i>	<i>Irrigated</i>
Rolling Plains (2N and 2S)								
Fisher	20,153	10,935	31,088	35%	494,955	210,142	95,249	2,553
Haskell	28,616	10,056	38,672	26%	567,156	298,475	138,173	27,500
Jones	29,683	13,601	43,284	31%	562,944	301,915	157,252	3,576
Kent	*	6,227	6,227	100%	563,124	39,336	*	1,092
Knox	19,127	39,885	59,012	68%	450,631	189,671	113,977	21,583
Nolan	12,395	11,432	23,827	48%	465,160	118,218	60,198	3,307
Stonewall	2,525	44,921	47,446	95%	472,890	79,495	15,103	741
Taylor	10,421	27,204	37,625	72%	578,912	158,876	69,768	1,095
<i>Subtotal, Rolling Plains</i>	<i>122,920</i>	<i>164,261</i>	<i>287,181</i>	<i>57%</i>	<i>4,155,772</i>	<i>1,396,128</i>	<i>649,720</i>	<i>61,447</i>
Cross Timbers (3)								
Callahan	5,837	24,064	29,901	80%	563,179	87,203	39,733	704
Comanche	26,780	131,355	158,135	83%	517,135	133,827	75,520	18,101
Eastland	8,508	19,366	27,874	69%	503,633	91,499	51,561	8,930
Erath	18,473	237,972	256,445	93%	607,550	124,379	81,280	12,337
Hood	8,557	10,185	18,742	54%	224,225	43,336	29,423	2,821
Palo Pinto	9,900	43,887	53,787	82%	593,309	55,421	30,148	712
Shackelford	2,589	19,744	22,333	88%	505,228	54,965	19,267	*
Somervell	1,183	3,120	4,303	73%	91,368	12,296	7,618	59
Stephens	1,069	8,148	9,217	88%	516,748	54,403	7,606	*



Throckmorton	8,724	16,114	24,838	65%	508,002	107,555	64,131	*
Young	7,999	15,693	23,692	66%	523,673	97,793	47,139	229
<i>Subtotal, Cross Timbers</i>	<i>99,619</i>	<i>529,648</i>	<i>629,267</i>	<i>84%</i>	<i>5,154,050</i>	<i>862,677</i>	<i>453,426</i>	<i>43,893</i>
Blacklands (4)								
Bell	58,592	26,287	84,879	31%	421,362	170,451	146,737	3,084
Bosque	50,172	28,124	78,296	36%	569,644	70,328	42,113	656
Coryell	16,183	52,367	68,550	76%	463,039	85,751	59,098	420
Falls	55,025	80,271	135,296	59%	382,651	174,274	136,150	5,069
Hamilton	10,717	45,111	55,828	81%	445,777	75,612	48,244	619
Hill	80,466	39,474	119,940	33%	504,129	231,885	204,309	920
Johnson	19,919	58,931	78,850	75%	428,958	119,878	96,373	2,386
Lampasas (7)	2,924	13,214	16,138	82%	444,755	50,255	18,874	166
Limestone	12,346	35,938	48,284	74%	486,787	80,867	55,553	330
McLennan	74,815	108,267	183,082	59%	553,517	243,981	206,616	3,509
Milam	38,485	106,243	144,728	73%	527,871	143,011	109,855	2,486
Williamson	74,987	54,661	129,648	42%	558,622	211,581	182,106	1,281
<i>Subtotal, Blacklands</i>	<i>494,631</i>	<i>648,888</i>	<i>1,143,519</i>	<i>57%</i>	<i>5,787,112</i>	<i>1,657,874</i>	<i>1,306,028</i>	<i>20,926</i>
Southeast and Central (5S and 8N)								
Brazos	12,410	82,587	94,997	87%	299,108	41,904	31,487	7,291
Burleson	34,301	55,758	90,059	62%	335,346	81,183	64,742	19,598
Grimes	11,057	36,996	48,052	77%	417,142	56,734	42,300	1,609
Lee	12,870	25,691	38,561	67%	318,216	44,136	32,721	940
Robertson	33,205	103,239	136,444	76%	467,568	107,891	85,828	19,679
Washington	11,393	34,334	45,727	75%	368,823	89,366	60,770	1,438
<i>Subtotal, Southeast and Central</i>	<i>115,236</i>	<i>338,605</i>	<i>453,841</i>	<i>75%</i>	<i>2,206,203</i>	<i>421,214</i>	<i>317,848</i>	<i>50,555</i>
Region Totals	832,406	1,681,402	2,513,808	67%	17,303,137	4,337,893	2,727,022	176,821
Source: 2012 Census of Agriculture								
http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_2_County_Level/Texas/								

Table F-2. Livestock Numbers—2007 Census of Agriculture

<i>Agricultural District</i>	<i>Cattle and Calves</i>	<i>Beef Cows</i>	<i>Dairy Cows</i>	<i>Swine</i>	<i>Sheep</i>
Rolling Plains (2N and 2S)					
Fisher	19,725	9,903	32	66	597
Haskell	16,119	5,707	0	*	*
Jones	25,852	12,876	20	100	1,076
Kent	11,865	8,893	0	*	78
Knox	34,799	8,702	0	17	0
Nolan	13,257	*	*	146	179
Stonewall	17,152	8,834	0	*	*
Taylor	32,336	13,944	0	323	1,954
<i>Subtotal, Rolling Plains</i>	<i>171,105</i>	<i>68,859</i>	<i>52</i>	<i>652</i>	<i>3,884</i>
Cross Timbers (3)					
Callahan	37,809	*	*	177	3,006
Comanche	86,865	30,749	22,975	260	5,201
Eastland	41,452	27,847	0	318	1,510
Erath	120,843	33,909	40,168	312	1,678
Hood	21,035	12,963	17	107	1,176
Palo Pinto	42,276	25,953	0	304	1,636
Shackelford	27,625	13,754	0	*	50
Somervell	6,440	4,042	6	31	291
Stephens	19,866	12,387	0	153	112
Throckmorton	25,179	14,518	0	*	0
Young	29,880	15,439	8	126	418
<i>Subtotal, Cross Timbers</i>	<i>459,270</i>	<i>191,561</i>	<i>63,174</i>	<i>1,788</i>	<i>15,078</i>
Blacklands (4)					
Bell	34,922	22,184	240	750	4,269
Bosque	38,635	23,328	0	108	1,243
Coryell	60,249	23,821	0	1,095	10,132
Falls	86,515	28,551	0	141	1,054



Hamilton	46,286	21,970	6,457	260	7,689
Hill	51,945	32,018	1,191	112	2,132
Johnson	65,951	25,485	4,234	908	2,098
Lampasas (7)	21,636	*	*	275	9,660
Limestone	73,462	43,918	470	169	466
McLennan	70,925	32,519	3,309	364	3,132
Milam	64,720	40,261	0	639	952
Williamson	69,587	27,389	78	154	5,107
<i>Subtotal, Blacklands</i>	<i>684,833</i>	<i>321,444</i>	<i>15,979</i>	<i>4,975</i>	<i>47,934</i>
Southeast and Central (5S and 8N)					
Brazos	47,492	27,288	0	505	836
Burleson	53,269	31,109	540	129	620
Grimes	57,061	40,315	485	1,223	193
Lee	57,048	35,851	0	854	389
Robertson	72,408	*	*	824	624
Washington	61,192	39,453	838	1,240	694
<i>Subtotal, Southeast and Central</i>	<i>348,470</i>	<i>174,016</i>	<i>1,863</i>	<i>4,775</i>	<i>3,356</i>
Region Total	1,663,678	755,880	81,068	12,190	70,252
Source: 2007 Census of Agriculture					

Table F-3. Selected Crop Acreages—2012 Census of Agriculture

Agricultural District	Grains			Cotton	Soybeans	All Hay & Silage	Peanuts	Total in County
	Corn	Sorghum	Wheat					
Rolling Plains (2N and 2S)								
Fisher	*	462	20,462	66,897	0	8,451	0	96,272
Haskell	429	11,289	95,996	23,873	0	6,929	2,946	141,462
Jones	409	4,643	80,316	52,438	*	22,453	22	160,281
Kent	0	0	850	2,684	0	2,126	0	5,660
Knox	0	189	95,732	16,133	0	4,073	*	116,127
Nolan	*	717	6,046	48,940	0	4,336	0	60,039
Stonewall	0	0	7,756	5,005	0	2,334	0	15,095
Taylor	*	744	40,065	12,060	0	16,923	0	69,792
<i>Subtotal, Rolling Plains</i>	<i>838</i>	<i>18,044</i>	<i>347,223</i>	<i>228,030</i>	<i>0</i>	<i>67,625</i>	<i>2,968</i>	<i>664,728</i>
Cross Timbers (3)								
Callahan	*	307	17,354	*	0	20,571	0	38,232
Comanche	0	681	2,069	3,539	*	47,932	1,106	55,327
Eastland	0	*	1,773	5,033	0	42,834	324	49,964
Erath	37	1,207	2,168	992	0	70,709	*	75,113
Hood	*	89	803	0	0	24,675	0	25,567
Palo Pinto	0	*	1,051	0	0	25,799	0	26,850
Shackelford	0	0	10,639	*	0	6,764	0	17,403
Somervell	0	0	*	0	0	7,284	0	7,284
Stephens	0	0	966	0	0	6,216	0	7,182
Throckmorton	*	*	56,401	*	0	6,032	0	62,433
Young	0	*	31,766	898	0	13,839	*	46,503
<i>Subtotal, Cross Timbers</i>	<i>37</i>	<i>2,284</i>	<i>124,990</i>	<i>10,462</i>	<i>0</i>	<i>272,655</i>	<i>1,430</i>	<i>411,858</i>
Blacklands (4)								
Bell	50,730	21,938	27,133	7,318	*	40,089	*	147,208
Bosque	411	1,757	5,466	1,342	0	30,038	0	39,014
Coryell	2,045	4,378	18,180	380	0	28,987	0	53,970
Falls	47,829	8,139	23,021	6,741	1,793	39,011	0	126,534



Hamilton	*	3,067	4,566	0	*	32,521	0	40,154
Hill	38,325	25,920	51,499	17,347	0	54,823	0	187,914
Johnson	2,764	8,844	15,729	544	0	66,501	*	94,382
Lampasas (7)	0	0	461	0	0	17,502	*	17,963
Limestone	5,075	1,708	3,949	2,209	*	41,538	0	54,479
McLennan	57,195	13,096	50,981	6,680	534	65,415	30	193,931
Milam	26,443	13,411	14,156	6,285	0	49,162	0	109,457
Williamson	77,643	23,464	17,939	17,942	0	47,145	0	184,133
<i>Subtotal, Blacklands</i>	<i>308,460</i>	<i>125,722</i>	<i>233,080</i>	<i>66,788</i>	<i>2,327</i>	<i>512,732</i>	<i>30</i>	<i>1,249,139</i>
Southeast and Central (5S and 8N)								
Brazos	961	1,461	*	6,978	*	20,703	0	30,103
Burleson	14,194	2,842	*	12,625	710	30,885	0	61,256
Grimes	2,221	579	0	969	0	37,456	0	41,225
Lee	782	102	112	0	*	30,481	0	31,477
Robertson	10,440	5,153	2,822	14,042	*	46,060	0	78,517
Washington	71	170	1,300	1,070	148	57,205	0	59,964
<i>Subtotal, Southeast and Central</i>	<i>28,669</i>	<i>10,307</i>	<i>4,234</i>	<i>35,684</i>	<i>858</i>	<i>222,790</i>	<i>0</i>	<i>302,542</i>
Region Total	338,004	156,357	709,527	340,964	3,185	1,075,802	4,428	2,628,267
Source: 2012 Census of Agriculture http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_2_County_Level/Texas/								

Table F-4. Summary of Irrigation Surveys

<i>Agricultural District</i>	<i>Irrigated Acreage</i>		
	<i>2002 US Agricultural Census</i>	<i>2007US Agricultural Census</i>	<i>2012 US Agricultural Census</i>
Rolling Plains (2N and 2S)			
Fisher	3,284	4,569	2,553
Haskell	30,894	35,058	27,500
Jones	3,701	3,877	3,576
Kent	1,300	815	1,092
Knox	23,033	21,929	21,583
Nolan	2,987	5,158	3,307
Stonewall	1,454	2,399	741
Taylor	2,434	5,087	1,095
<i>Subtotal, Rolling Plains</i>	<i>69,087</i>	<i>78,892</i>	<i>61,447</i>
Cross Timbers (3)			
Callahan	1,331	633	704
Comanche	21,283	12,627	18,101
Eastland	14,594	5,141	8,930
Erath	14,505	12,101	12,337
Hood	3,433	4,336	2,821
Palo Pinto	1,902	601	712
Shackelford	550	*	*
Somervell	129	473	59
Stephens	195	226	*
Throckmorton	*	1,358	*
Young	114	*	229
<i>Subtotal, Cross Timbers</i>	<i>58,036</i>	<i>37,496</i>	<i>43,893</i>
Blacklands (4)			
Bell	2,690	2,746	3,084
Bosque	1,592	1,043	656
Coryell	1,050	767	420
Falls	1,424	4,361	5,069



Hamilton	1,064	763	619
Hill	3,864	1,189	920
Johnson	1,004	1,907	2,386
Lampasas (7)	445	437	166
Limestone	539	759	330
McLennan	3,194	2,937	3,509
Milam	2,631	2,784	2,486
Williamson	3,810	964	1,281
<i>Subtotal, Blacklands</i>	<i>23,307</i>	<i>20,657</i>	<i>20,926</i>
Southeast and Central (5S and 8N)			
Brazos	14,001	9,027	7,291
Burleson	17,415	14,480	19,598
Grimes	2,659	1,991	1,609
Lee	2,377	1,433	940
Robertson	19,179	21,541	19,679
Washington	1,041	1,438	1,438
<i>Subtotal, Southeast and Central</i>	<i>56,672</i>	<i>49,910</i>	<i>50,555</i>
Region Total	207,102	186,955	176,821
Source: 2012 Census of Agriculture			
http://www.agcensus.usda.gov/Publications/2012/Full_Report/Volume_1,_Chapter_2_County_Level/Texas/			
* Withheld to avoid disclosing data for individual farms			

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