

Appendix C

Table C-1
Sabine River Basin Population Projections¹
Most Likely Migration Rate Scenario
Upper Basin Cities

Year	1990	2000	2010	2020	2030	2040	2050
Big Sandy	1,185	1,334	1,455	1,566	1,657	1,722	1,776
Caddo Mills	1,068	1,305	1,540	1,742	1,859	1,912	1,967
Canton	2,949	3,406	3,685	3,861	3,813	3,666	3,508
Carthage	6,496	6,860	7,102	7,196	7,173	6,943	6,720
Edgewood	1,284	1,477	1,597	1,674	1,653	1,589	1,520
Emory	963	979	994	1,005	1,014	1,029	1,044
Gladewater	6,027	6,832	7,471	8,122	8,710	9,226	9,749
Grand Saline	2,630	2,907	3,145	3,296	3,254	3,129	2,994
Greenville	23,071	24,137	25,075	25,565	26,276	26,476	26,678
Hallsville	2,288	3,081	3,901	4,514	4,859	4,919	4,980
Hawkins	1,309	1,474	1,590	1,663	1,647	1,552	1,386
Henderson	1,115	1,202	1,217	1,188	1,160	1,157	1,154
Kilgore	11,066	12,767	13,705	14,644	15,435	16,270	17,151
Liberty City	1,607	2,177	2,565	2,863	3,073	3,200	3,332
Lindale	1,214	1,372	1,491	1,566	1,626	1,677	1,709
Longview	70,311	78,218	84,498	91,157	97,281	102,956	108,979
Marshall	18,621	20,094	21,612	22,959	23,211	22,143	21,124
Mineola	4,321	4,858	5,239	5,480	5,426	5,115	4,566
Overton¹	1,954	2,043	2,081	2,048	2,010	2,013	2,015
Quinlan	1,360	1,841	2,322	2,752	2,982	3,089	3,200
Quitman	1,684	1,897	2,046	2,140	2,119	1,998	1,783
Royse City	2,206	3,948	5,827	8,311	11,348	14,920	19,633
Tatum	1,289	1,392	1,443	1,445	1,433	1,427	1,421
Tyler¹	8	8	8	9	9	10	11
Van	91	105	113	119	117	113	108
White Oak	5,136	5,882	6,466	7,089	7,682	8,246	8,851
Wills Point	1,491	1,671	1,810	1,899	1,876	1,805	1,736
Winnsboro¹	2,202	2,453	2,652	2,786	2,776	2,634	2,377

1. City population includes only that portion of the population within the Sabine River Basin

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Table C-2
Sabine River Basin Population Projections¹
Most Likely Migration Rate Scenario
Lower Basin Cities

Year	1990	2000	2010	2020	2030	2040	2050
Bessmay-Buna	2,127	2,528	2,629	2,695	2,738	2,828	2,921
Bridge City	4,820	5,578	6,163	6,755	7,354	7,637	7,931
Center	4,950	5,403	5,911	6,301	6,724	7,059	7,411
Hemphill	1,182	1,265	1,335	1,384	1,470	1,555	1,645
Kirbyville	1,871	2,162	2,248	2,306	2,341	2,419	2,419
Newton	1,885	2,267	2,594	2,908	3,185	3,294	3,407
Orange	19,381	20,317	22,300	24,444	26,612	27,632	28,691
Pinehurst	2,682	2,952	3,189	3,351	3,543	3,760	3,960
Tenaha	1,072	1,169	1,213	1,264	1,320	1,370	1,420
Timpson	1,029	1,142	1,178	1,222	1,269	1,313	1,359
Vidor	3,279	3,606	3,758	3,885	3,990	4,067	4,146
West Orange	4,187	4,785	5,289	5,647	6,073	6,558	7,082

1. Population is for that portion of the city within the Sabine River basin.

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Table C-3
Sabine River Basin: Lower Basin Population Projections
Most Likely Migration Rate Scenario

COUNTY	1990	2000	2010	2020	2030	2040	2050
Jasper	11,337	12,267	12,941	13,589	14,329	14,964	15,556
Newton	13,556	14,271	14,900	15,172	15,231	14,967	14,567
Orange	54,313	59,943	65,092	68,949	73,382	77,802	81,949
Sabine	6,774	7,592	8,252	8,704	8,864	9,086	9,333
San Augustine	785	787	802	813	830	837	843
Shelby	20,095	21,073	21,914	22,852	23,878	24,796	25,710
Total	106,860	115,933	123,901	130,079	136,514	142,452	147,958

Table C-4
Sabine River Basin: Upper Basin Population Projections
Most Likely Migration Rate Scenario

COUNTY	1990	2000	2010	2020	2030	2040	2050
Collin	2,015	3,144	2,646	5,432	9,555	14,759	20,211
Franklin	81	94	109	125	142	151	161
Gregg	103,325	112,188	119,566	127,469	134,662	141,231	148,128
Harrison	37,123	40,283	43,388	45,336	45,169	43,586	42,065
Hopkins	6,257	6,446	6,659	6,804	6,828	6,768	6,669
Hunt	51,714	57,464	62,772	66,990	69,750	70,849	73,395
Kaufman	964	1,135	1,346	1,579	1,782	1,938	2,029
Panola	21,998	23,561	24,716	25,306	25,357	24,650	23,943
Rains	6,715	7,444	8,210	8,870	9,436	9,807	10,506
Rockwall	3,480	5,494	7,711	11,068	15,229	20,162	24,949
Rusk	20,646	22,314	23,783	26,172	28,596	30,131	31,104
Smith	21,554	25,421	27,887	29,018	28,995	28,431	26,973
Upshur	11,139	12,464	13,593	14,630	15,484	16,091	16,593
Van Zandt	20,784	23,291	25,196	26,404	26,072	25,066	23,985
Wood	27,703	31,002	33,434	34,972	34,628	32,641	29,138
Total	335,498	371,745	401,016	430,175	451,685	466,261	479,849

Projections are for the portion of each county that lies within the Sabine Basin.

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Table C-5
Sabine River Basin "Most Likely" Municipal Use Scenario¹
(Acre-Feet/Year)

County	1990	2000	2010	2020	2030	2040	2050
Collin	320	485	377	716	1,231	1,994	2,600
Franklin	13	18	20	21	24	25	26
Gregg	17,469	21,438	21,761	22,248	23,048	23,769	24,849
Harrison	5,287	6,338	6,435	6,407	6,222	5,791	5,583
Hopkins	828	1,070	1,053	1,022	995	956	935
Hunt	9,337	9,762	9,879	9,829	9,933	9,826	10,011
Jasper	1,548	1,752	1,737	1,708	1,731	1,752	1,791
Kaufman	109	153	169	186	204	215	223
Newton	1,675	1,764	1,753	1,701	1,663	1,577	1,551
Orange	8,523	9,553	9,828	9,971	10,348	10,646	11,073
Panola	3,010	3,651	3,607	3,488	3,377	3,171	3,072
Rains	1,096	1,317	1,377	1,415	1,463	1,487	1,579
Rockwall	482	1,004	1,280	1,734	2,347	3,084	3,679
Rusk	2,743	3,250	3,252	3,307	3,431	3,490	3,589
Sabine	751	927	927	917	913	912	934
San Augustine	147	98	93	89	87	85	85
Shelby	2,794	3,104	3,052	3,004	3,053	3,071	3,158
Smith	3,348	3,920	4,042	3,976	3,846	3,680	3,469
Upshur	1,700	1,895	1,930	1,954	1,988	2,003	2,041
Van Zandt	3,017	3,368	3,421	3,385	3,234	2,995	2,869
Wood	4,032	4,864	4,934	4,870	4,702	4,264	3,843
TOTAL	68,229	79,731	80,927	81,948	83,840	84,793	86,960

1. "Most Likely" Scenario uses "most likely" population series and assumes below average rainfall and expected levels of conservation.

Projections are for the portion of each county that lies within the Sabine Basin.

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Table C-6
Sabine River Basin 1.0 Migration Rate Municipal Use Scenario²
(Acre-Feet/Year)

County	1990	2000	2010	2020	2030	2040	2050
Collin	320	619	949	1,385	1,872	2,299	2,404
Franklin	13	13	11	9	7	6	5
Gregg	17,469	20,111	19,274	18,147	17,069	15,497	14,017
Harrison	5,287	6,314	6,393	6,358	6,169	5,757	5,535
Hopkins	828	1,098	1,070	1,047	1,008	921	866
Hunt	9,337	10,245	10,706	10,860	11,142	11,299	11,442
Jasper	1,548	1,604	1,477	1,353	1,245	1,061	869
Kaufman	109	170	202	240	283	326	344
Newton	1,675	1,815	1,808	1,714	1,555	1,411	1,274
Orange	8,523	8,751	7,985	7,109	6,167	5,407	4,627
Panola	3,010	3,764	3,701	3,518	3,411	2,968	2,617
Rains	1,096	1,443	1,615	1,758	1,879	1,983	2,040
Rockwall	482	1,003	1,278	1,732	2,344	3,079	3,672
Rusk	2,743	3,170	3,120	2,968	2,799	2,471	2,271
Sabine	751	882	834	773	705	658	625
San Augustine	147	92	80	67	56	46	38
Shelby	2,794	2,941	2,677	2,349	2,030	1,804	1,548
Smith	3,348	3,923	4,016	3,980	3,850	3,684	3,472
Upshur	1,700	1,822	1,766	1,667	1,544	1,484	1,423
Van Zandt	3,017	3,308	3,340	3,315	3,099	2,864	2,698
Wood	4,032	4,799	4,818	4,679	4,430	4,054	3,625
TOTAL	68,229	77,887	77,120	75,028	72,664	69,079	65,412

2. 1.0 Migration Rate Scenario assumes 1.0 migration rate population series with Below Average Rainfall and Expected Conservation.

Projections are for the portion of each county that lies within the Sabine Basin.

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Table C-7
Sabine River Basin Advanced Conservation Municipal Use Scenario³
(Acre-Feet/Year)

County	1990	2000	2010	2020	2030	2040	2050
Collin	320	464	343	639	1,234	1,813	2,354
Franklin	13	17	18	20	22	23	25
Gregg	17,469	20,706	20,290	20,339	21,274	22,199	23,199
Harrison	5,287	6,109	5,968	5,831	5,730	5,433	5,192
Hopkins	828	1,034	986	938	926	903	882
Hunt	9,337	9,360	9,096	8,800	8,974	8,978	9,140
Jasper	1,548	1,681	1,602	1,558	1,600	1,645	1,672
Kaufman	109	147	157	168	188	200	209
Newton	1,675	1,695	1,610	1,531	1,526	1,484	1,446
Orange	8,523	9,234	9,230	9,198	9,680	10,104	10,438
Panola	3,010	3,531	3,344	3,156	3,101	2,958	2,846
Rains	1,096	1,284	1,293	1,314	1,376	1,418	1,504
Rockwall	482	962	1,195	1,581	2,158	2,833	3,400
Rusk	2,743	3,138	3,007	2,995	3,159	3,248	3,316
Sabine	751	889	864	837	849	859	879
San Augustine	147	94	87	81	82	81	80
Shelby	2,794	2,986	2,834	2,734	2,809	2,871	2,951
Smith	3,348	3,749	3,696	3,547	3,481	3,357	3,189
Upshur	1,700	1,829	1,799	1,785	1,845	1,887	1,909
Van Zandt	3,017	3,245	3,161	3,039	2,945	2,779	2,660
Wood	4,032	4,686	4,544	4,377	4,258	3,982	3,533
Total	68,229	76,840	75,124	74,468	77,217	79,055	80,824

3. Advanced Conservation Scenario assumes "most likely" population series with below average rainfall and advanced levels of conservation.

Projections are for the portion of each county that lies within the Sabine Basin.

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Table C-8
Sabine River Basin Low Oil Price Manufacturing Use Scenario¹
(Acre-Feet/Year)

County	1990	2000	2010	2020	2030	2040	2050
Collin	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0
Gregg	14,634	16,431	18,276	20,363	22,576	24,931	27,351
Harrison	74,107	115,543	150,737	169,499	190,993	214,392	244,883
Hopkins	2	2	3	3	3	4	4
Hunt	409	434	461	485	509	533	559
Jasper	0	0	0	0	0	0	0
Kaufman	0	0	0	0	0	0	0
Newton	114	125	135	146	156	166	180
Orange	49,169	55,518	62,835	71,073	80,130	91,522	104,257
Panola	641	720	804	888	967	1,046	1,121
Rains	0	0	0	0	0	0	0
Rockwall	0	0	0	0	0	0	0
Rusk	48	54	60	66	72	77	84
Sabine	0	0	0	0	0	0	0
San Augustine	0	0	0	0	0	0	0
Shelby	1,204	1,505	1,856	2,242	2,656	3,099	3,560
Smith	229	280	340	402	465	526	587
Upshur	0	0	0	0	0	0	0
Van Zandt	223	296	385	471	570	648	729
Wood	41	48	55	64	73	82	93
TOTAL	140,821	190,956	235,947	265,702	299,170	337,026	383,408

1. Low Oil Price Scenario assumes lower priced oil with no conservation efforts.

Projections are for the portion of each county that lies within the Sabine Basin.

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Table C-9
Sabine River Basin "Most Likely" Manufacturing Use Scenario²
(Acre-Feet/Year)

County	1990	2000	2010	2020	2030	2040	2050
Collin	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0
Gregg	14,634	16,538	18,576	20,934	23,507	26,515	29,716
Harrison	74,107	109,321	133,587	140,270	146,244	159,506	174,422
Hopkins	2	2	3	3	4	5	5
Hunt	409	426	443	456	466	488	508
Jasper	0	0	0	0	0	0	0
Kaufman	0	0	0	0	0	0	0
Newton	114	122	131	139	146	154	162
Orange	49,169	52,936	56,817	60,388	63,391	69,938	76,790
Panola	641	685	730	762	785	844	897
Rains	0	0	0	0	0	0	0
Rockwall	0	0	0	0	0	0	0
Rusk	48	54	59	65	71	76	83
Sabine	0	0	0	0	0	0	0
San Augustine	0	0	0	0	0	0	0
Shelby	1,204	1,436	1,694	1,944	2,189	2,550	2,928
Smith	229	262	298	325	346	377	403
Upshur	0	0	0	0	0	0	0
Van Zandt	223	280	344	396	451	508	566
Wood	41	48	57	67	77	92	107
TOTAL	140,821	182,110	212,739	225,749	237,677	261,053	286,587

2. "Most Likely" scenario assumes base oil price with expected conservation.

Projections are for the portion of each county that lies within the Sabine Basin.

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Table C-10
Sabine River Basin Base with No Conservation Manufacturing Use Scenario³
(Acre-Feet/Year)

County	1990	2000	2010	2020	2030	2040	2050
Collin	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0
Gregg	14,634	16,637	18,801	21,330	24,108	27,177	30,440
Harrison	74,107	113,211	143,704	157,554	171,951	187,617	205,322
Hopkins	2	2	3	3	4	5	5
Hunt	409	434	458	482	504	530	554
Jasper	0	0	0	0	0	0	0
Kaufman	0	0	0	0	0	0	0
Newton	114	122	131	139	146	154	162
Orange	49,169	54,410	60,337	66,691	73,143	80,903	89,017
Panola	641	712	790	864	935	1,004	1,067
Rains	0	0	0	0	0	0	0
Rockwall	0	0	0	0	0	0	0
Rusk	48	54	59	65	71	76	83
Sabine	0	0	0	0	0	0	0
San Augustine	0	0	0	0	0	0	0
Shelby	1,204	1,492	1,833	2,207	2,613	3,045	3,498
Smith	229	273	324	371	416	455	486
Upshur	0	0	0	0	0	0	0
Van Zandt	223	291	374	453	544	612	682
Wood	41	49	58	69	81	95	111
TOTAL	140,821	187,687	226,872	250,228	274,516	301,673	331,427

3. No Conservation Scenario assumes base oil prices with no conservation efforts.

Projections are for the portion of each county that lies within the Sabine Basin.

Appendix C

Table C-11
Total Water Requirements - Year 2000
(Acre-Feet per Year)

County	Municipal ¹	Irrigation ¹	Livestock	Manufac. ²	Mining	Power ³	Total
Collin	485	0	38	0	0	0	523
Franklin	18	0	2	0	0	0	20
Gregg	21,438	0	230	16,431	96	2,500	40,695
Harrison	6,338	50	326	115,543	186	5,000	127,443
Hopkins	1,070	0	2,130	2	0	0	3,202
Hunt	9,762	271	896	434	70	800	12,233
Jasper	1,752	0	100	0	2	0	1,854
Kaufman	153	0	72	0	0	0	225
Newton	1,764	2,200	82	125	30	0	4,201
Orange	9,553	3,329	70	55,518	1	6,000	74,471
Panola	3,651	0	2,027	720	3,245	0	9,643
Rains	1,317	20	700	0	0	0	2,037
Rockwall	1,004	0	26	0	0	0	1,030
Rusk	3,250	75	549	54	563	30,000	34,491
Sabine	927	0	337	0	0	0	1,264
San Augustine	98	0	87	0	0	0	185
Shelby	3,104	27	1,635	1,505	0	0	6,271
Smith	3,920	63	453	280	425	0	5,141
Upshur	1,895	0	418	0	0	0	2,313
Van Zandt	3,368	0	1,100	296	1,233	0	5,997
Wood	4,864	235	2,360	48	2,102	0	9,609
TOTALS	79,731	6,270	13,638	190,956	7,953	44,300	342,848

¹. "Most Likely" Projection Series

². Low Oil Price without Conservation Series

³. "High" Projection Series

Projections are for the portion of the county that lies within the Sabine Basin.

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Table C-12
Total Water Requirements - Year 2010
(Acre-Feet per Year)

County	Municipal ¹	Irrigation ¹	Livestock	Manufac. ²	Mining	Power ³	Total
Collin	377	0	38	0	0	0	415
Franklin	20	0	2	0	0	0	22
Gregg	21,761	0	230	18,276	67	3,000	43,334
Harrison	6,435	50	326	150,737	89	5,000	162,637
Hopkins	1,053	0	2,130	3	0	0	3,186
Hunt	9,879	271	896	461	71	0	11,578
Jasper	1,737	0	100	0	2	0	1,839
Kaufman	169	0	72	0	0	0	241
Newton	1,753	2,200	82	135	30	0	4,200
Orange	9,828	3,014	70	62,835	1	10,000	85,748
Panola	3,607	0	2,027	804	2,645	0	9,083
Rains	1,377	20	700	0	0	0	2,097
Rockwall	1,280	0	26	0	0	0	1,306
Rusk	3,252	75	549	60	314	35,000	39,250
Sabine	927	0	337	0	0	0	1,264
San Augustine	93	0	87	0	0	0	180
Shelby	3,052	27	1,635	1,856	0	0	6,570
Smith	4,042	63	453	340	178	0	5,076
Upshur	1,930	0	418	0	0	0	2,348
Van Zandt	3,421	0	1,100	385	1,073	0	5,979
Wood	4,934	235	2,360	55	17,584	7,500	32,668
TOTALS	80,927	5,955	13,638	235,947	22,054	60,500	419,021

¹. "Most Likely" Projection Series

². Low Oil Price without Conservation Series

³. "High" Projection Series

Projections are for the portion of the county that lies within the Sabine Basin.

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**Table C-13
Total Water Requirements - Year 2020
(Acre-Feet per Year)**

County	Municipal ¹	Irrigation ¹	Livestock	Manufac. ²	Mining	Power ³	Total
Collin	716	0	38	0	0	0	754
Franklin	21	0	2	0	0	0	23
Gregg	22,248	0	230	20,363	46	3,000	45,887
Harrison	6,407	50	326	169,499	50	5,000	181,332
Hopkins	1,022	0	2,130	3	0	0	3,155
Hunt	9,829	271	896	485	73	0	11,554
Jasper	1,708	0	100	0	2	0	1,810
Kaufman	186	0	72	0	0	0	258
Newton	1,701	2,200	82	146	31	0	4,160
Orange	9,971	3,014	70	71,073	1	15,000	99,129
Panola	3,488	0	2,027	888	8,697	0	15,100
Rains	1,415	20	700	0	0	0	2,135
Rockwall	1,734	0	26	0	0	0	1,760
Rusk	3,307	75	549	66	104	40,000	44,101
Sabine	917	0	337	0	0	0	1,254
San Augustine	89	0	87	0	0	0	176
Shelby	3,004	27	1,635	2,242	0	0	6,908
Smith	3,976	63	453	402	91	0	4,985
Upshur	1,954	0	418	0	0	0	2,372
Van Zandt	3,385	0	1,100	471	1,026	0	5,982
Wood	4,870	235	2,360	64	17,344	7,500	32,373
TOTALS	81,948	5,955	13,638	265,702	27,465	70,500	465,208

¹. "Most Likely" Projection Series

². Low Oil Price without Conservation Series

³. "High" Projection Series

Projections are for the portion of the county that lies within the Sabine Basin.

Appendix C

Table C-14
Total Water Requirements - Year 2030
(Acre-Feet per Year)

County	Municipal ¹	Irrigation ¹	Livestock	Manufac. ²	Mining	Power ³	Total
Collin	1,231	0	38	0	0	0	1,269
Franklin	24	0	2	0	0	0	26
Gregg	23,048	0	230	22,576	37	3,000	48,891
Harrison	6,222	50	326	190,993	24	10,000	207,615
Hopkins	995	0	2,130	3	0	0	3,128
Hunt	9,933	271	896	509	75	0	11,684
Jasper	1,731	0	100	0	2	0	1,833
Kaufman	204	0	72	0	0	0	276
Newton	1,663	2,200	82	156	32	0	4,133
Orange	10,348	2,940	70	80,130	1	20,000	113,489
Panola	3,377	0	2,027	967	16,912	0	23,283
Rains	1,463	20	700	0	0	0	2,183
Rockwall	2,347	0	26	0	0	0	2,373
Rusk	3,431	75	549	72	89	45,000	49,216
Sabine	913	0	337	0	0	0	1,250
San Augustine	87	0	87	0	0	0	174
Shelby	3,053	27	1,635	2,656	0	0	7,371
Smith	3,846	63	453	465	32	0	4,859
Upshur	1,988	0	418	0	0	0	2,406
Van Zandt	3,234	0	1,100	570	1,014	0	5,918
Wood	4,702	235	2,360	73	17,107	7,500	31,977
TOTALS	83,840	5,881	13,638	299,170	35,325	85,500	523,354

¹. "Most Likely" Projection Series

². Low Oil Price without Conservation Series

³. "High" Projection Series

Projections are for the portion of the county that lies within the Sabine Basin.

Appendix C

Table C-15
Total Water Requirements - Year 2040
(Acre-Feet per Year)

County	Municipal ¹	Irrigation ¹	Livestock	Manufac. ²	Mining	Power ³	Total
Collin	1,994	0	38	0	0	0	2,032
Franklin	25	0	2	0	0	0	27
Gregg	23,769	0	230	24,931	29	3,000	51,959
Harrison	5,791	50	326	214,392	18	10,000	230,577
Hopkins	956	0	2,130	4	0	0	3,090
Hunt	9,826	271	896	533	77	0	11,603
Jasper	1,752	0	100	0	2	0	1,854
Kaufman	215	0	72	0	0	0	287
Newton	1,577	2,200	82	166	33	0	4,058
Orange	10,646	2,867	70	91,522	1	25,000	130,106
Panola	3,171	0	2,027	1,046	17,179	0	23,423
Rains	1,487	20	700	0	0	0	2,207
Rockwall	3,084	0	26	0	0	0	3,110
Rusk	3,490	75	549	77	60	45,000	49,251
Sabine	912	0	337	0	0	0	1,249
San Augustine	85	0	87	0	0	0	172
Shelby	3,071	27	1,635	3,099	0	0	7,832
Smith	3,680	63	453	526	18	0	4,740
Upshur	2,003	0	418	0	0	0	2,421
Van Zandt	2,995	0	1,100	648	1,025	0	5,768
Wood	4,264	235	2,360	82	16,107	7,500	30,548
TOTALS	84,793	5,808	13,638	337,026	34,549	90,500	566,314

¹. "Most Likely" Projection Series

². Low Oil Price without Conservation Series

³. "High" Projection Series

Projections are for the portion of the county that lies within the Sabine Basin.

Appendix C

**Table C-15
Total Water Requirements - Year 2050
(Acre-Feet per Year)**

County	Municipal ¹	Irrigation ¹	Livestock	Manufac. ²	Mining	Power ³	Total
Collin	2,600	0	38	0	0	0	2,638
Franklin	26	0	2	0	0	0	28
Gregg	24,849	0	230	27,351	27	4,000	56,457
Harrison	5,583	50	326	244,883	16	15,000	265,858
Hopkins	935	0	2,130	4	0	0	3,069
Hunt	10,011	271	896	559	79	0	11,816
Jasper	1,791	0	100	0	2	0	1,893
Kaufman	223	0	72	0	0	0	295
Newton	1,551	2,200	82	180	34	0	4,047
Orange	11,073	2,797	70	104,257	1	30,000	148,198
Panola	3,072	0	2,027	1,121	16,912	0	23,132
Rains	1,579	20	700	0	0	0	2,299
Rockwall	3,679	0	26	0	0	0	3,705
Rusk	3,589	75	549	84	7	45,000	49,304
Sabine	934	0	337	0	0	0	1,271
San Augustine	85	0	87	0	0	0	172
Shelby	3,158	27	1,635	3,560	0	0	8,380
Smith	3,469	63	453	587	6	0	4,578
Upshur	2,041	0	418	0	0	0	2,459
Van Zandt	2,869	0	1,100	729	1,055	0	5,753
Wood	3,843	235	2,360	93	4,641	15,000	26,172
TOTALS	86,960	5,738	13,638	383,408	22,780	109,000	621,524

¹. "Most Likely" Projection Series

². Low Oil Price without Conservation Series

³. "High" Projection Series

Projections are for the portion of the county that lies within the Sabine Basin.

Appendix C

Table C-16
Sabine River Basin Total Water Demand: Lower Basin
(Acre-Feet/Year)

1990

COUNTY	Municipal	Irrigation	Livestock	Manufact.	Mining	Power	Total
Jasper	1,548	0	128	0	0	0	1,676
Newton	1,675	2,200	97	114	27	0	4,113
Orange	8,523	3,340	50	49,169	1	5,574	66,657
Sabine	751	0	383	0	0	0	1,134
San Augustine	147	0	78	0	0	0	225
Shelby	2,794	28	1,650	1,204	0	0	5,676
Totals	15,438	5,568	2,386	50,487	28	5,574	79,481

2000

COUNTY	Municipal¹	Irrigation¹	Livestock	Manufact²	Mining	Power³	Total
Jasper	1,752	0	100	0	2	0	1,854
Newton	1,764	2,200	82	125	30	0	4,201
Orange	9,553	3,329	70	55,518	1	6,000	74,471
Sabine	927	0	337	0	0	0	1,264
San Augustine	98	0	87	0	0	0	185
Shelby	3,104	27	1,635	1,505	0	0	6,271
Totals	17,198	5,556	2,311	57,148	33	6,000	88,246

2010

COUNTY	Municipal¹	Irrigation¹	Livestock	Manufact²	Mining	Power³	Total
Jasper	1,737	0	100	0	2	0	1,839
Newton	1,753	2,200	82	135	30	0	4,200
Orange	9,828	3,014	70	62,835	1	10,000	85,748
Sabine	927	0	337	0	0	0	1,264
San Augustine	93	0	87	0	0	0	180
Shelby	3,052	27	1,635	1,856	0	0	6,570
Totals	17,390	5,241	2,311	64,826	33	10,000	99,801

2020

COUNTY	Municipal¹	Irrigation¹	Livestock	Manufact²	Mining	Power³	Total
Jasper	1,708	0	100	0	2	0	1,810
Newton	1,701	2,200	82	146	31	0	4,160
Orange	9,971	3,014	70	71,073	1	15,000	99,129
Sabine	917	0	337	0	0	0	1,254
San Augustine	89	0	87	0	0	0	176
Shelby	3,004	27	1,635	2,242	0	0	6,908
Totals	17,390	5,241	2,311	73,461	34	15,000	113,437

Projections are for the portion of the Sabine River basin.

Appendix C

Table C-16
Sabine River Basin Total Water Demand: Lower Basin
(Acre-Feet/Year)

2030

COUNTY	Municipal¹	Irrigation¹	Livestock	Manufact²	Mining	Power³	Total
Jasper	1,731	0	100	0	2	0	1,833
Newton	1,663	2,200	82	156	32	0	4,133
Orange	10,348	2,940	70	80,130	1	20,000	113,489
Sabine	913	0	337	0	0	0	1,250
San Augustine	87	0	87	0	0	0	174
Shelby	3,053	27	1,635	2,656	0	0	7,371
Totals	17,795	5,167	2,311	82,942	35	20,000	128,250

2040

COUNTY	Municipal¹	Irrigation¹	Livestock	Manufact²	Mining	Power³	Total
Jasper	1,752	0	100	0	2	0	1,854
Newton	1,577	2,200	82	166	33	0	4,058
Orange	10,646	2,867	70	91,522	1	25,000	130,106
Sabine	912	0	337	0	0	0	1,249
San Augustine	85	0	87	0	0	0	172
Shelby	3,071	27	1,635	3,099	0	0	7,832
Totals	18,043	5,094	2,311	94,787	36	25,000	145,271

2050

COUNTY	Municipal¹	Irrigation¹	Livestock	Manufact²	Mining	Power³	Total
Jasper	1,791	0	100	0	2	0	1,893
Newton	1,551	2,200	82	180	34	0	4,047
Orange	11,073	2,797	70	104,257	1	30,000	148,198
Sabine	934	0	337	0	0	0	1,271
San Augustine	85	0	87	0	0	0	172
Shelby	3,158	27	1,635	3,560	0	0	8,380
Totals	18,592	5,024	2,311	107,997	37	30,000	163,961

¹. "Most Likely" Projection Series

². "Low Oil Prices without Conservation" Series

³. "High" Projection Series

Projections are for the portion of the Sabine River basin.

Appendix C

Table C-17
Sabine River Basin Total Water Demand: Upper Basin
(Acre-Feet/Year)

1990

COUNTY	Municipal	Irrigation	Livestock	Manufact.	Mining	Power	Total
Collin	320	0	37	0	0	0	357
Franklin	13	0	0	0	0	0	13
Gregg	17,469	0	200	14,634	124	465	32,892
Harrison	5,287	50	420	74,107	170	4,869	84,903
Hopkins	828	0	1,797	2	0	0	2,627
Hunt	9,337	271	817	409	0	834	11,668
Kaufman	109	0	72	0	0	0	181
Panola	3,010	0	2,145	641	3,208	0	9,004
Rains	1,096	20	790	0	0	0	1,906
Rockwall	482	0	34	0	0	0	516
Rusk	2,743	75	563	48	732	28,320	32,481
Smith	3,348	63	495	229	555	0	4,690
Upshur	1,700	0	287	0	0	0	1,987
Van Zandt	3,017	0	1,023	223	785	0	5,048
Wood	4,032	236	1,673	41	3,162	0	9,144
Totals	52,791	715	10,353	90,334	8,736	34,488	197,417

2000

COUNTY	Municipal ¹	Irrigation ¹	Livestock	Manufact. ²	Mining	Power ³	Total
Collin	485	0	38	0	0	0	523
Franklin	18	0	2	0	0	0	20
Gregg	21,438	0	230	16,431	96	2,500	40,695
Harrison	6,338	50	326	115,543	186	5,000	127,443
Hopkins	1,070	0	2,130	2	0	0	3,202
Hunt	9,762	271	896	434	70	800	12,233
Kaufman	153	0	72	0	0	0	225
Panola	3,651	0	2,027	720	3,245	0	9,643
Rains	1,317	20	700	0	0	0	2,037
Rockwall	1,004	0	26	0	0	0	1,030
Rusk	3,250	75	549	54	563	30,000	34,491
Smith	3,920	63	453	280	425	0	5,141
Upshur	1,895	0	418	0	0	0	2,313
Van Zandt	3,368	0	1,100	296	1,233	0	5,997
Wood	4,864	235	2,360	48	2,102	0	9,609
Totals	62,533	714	11,327	133,808	7,920	38,300	254,602

Projections are for that portion of the county within the Sabine River basin.

Appendix C

Table C-17
Sabine River Basin Total Water Demand: Upper Basin
(Acre-Feet/Year)

2010

COUNTY	Municipal ¹	Irrigation ¹	Livestock	Manufact. ²	Mining	Power ³	Total
Collin	377	0	38	0	0	0	415
Franklin	20	0	2	0	0	0	22
Gregg	21,761	0	230	18,276	67	3,000	43,334
Harrison	6,435	50	326	150,737	89	5,000	162,637
Hopkins	1,053	0	2,130	3	0	0	3,186
Hunt	9,879	271	896	461	71	0	11,578
Kaufman	169	0	72	0	0	0	241
Panola	3,607	0	2,027	804	2,645	0	9,083
Rains	1,377	20	700	0	0	0	2,097
Rockwall	1,280	0	26	0	0	0	1,306
Rusk	3,252	75	549	60	314	35,000	39,250
Smith	4,042	63	453	340	178	0	5,076
Upshur	1,930	0	418	0	0	0	2,348
Van Zandt	3,421	0	1,100	385	1,073	0	5,979
Wood	4,934	235	2,360	55	17,584	7,500	32,668
Totals	63,537	714	11,327	171,121	22,021	50,500	319,220

2020

COUNTY	Municipal ¹	Irrigation ¹	Livestock	Manufact. ²	Mining	Power ³	Total
Collin	716	0	38	0	0	0	754
Franklin	21	0	2	0	0	0	23
Gregg	22,248	0	230	20,363	46	3,000	45,887
Harrison	6,407	50	326	169,499	50	5,000	181,332
Hopkins	1,022	0	2,130	3	0	0	3,155
Hunt	9,829	271	896	485	73	0	11,554
Kaufman	186	0	72	0	0	0	258
Panola	3,488	0	2,027	888	8,697	0	15,100
Rains	1,415	20	700	0	0	0	2,135
Rockwall	1,734	0	26	0	0	0	1,760
Rusk	3,307	75	549	66	104	40,000	44,101
Smith	3,976	63	453	402	91	0	4,985
Upshur	1,954	0	418	0	0	0	2,372
Van Zandt	3,385	0	1,100	471	1,026	0	5,982
Wood	4,870	235	2,360	64	17,344	7,500	32,373
Totals	64,558	714	11,327	192,241	27,431	55,500	351,771

Projections are for that portion of the county within the Sabine River basin.

Appendix C

Table C-17
Sabine River Basin Total Water Demand: Upper Basin
(Acre-Feet/Year)

2030

COUNTY	Municipal ¹	Irrigation ¹	Livestock	Manufact. ²	Mining	Power ³	Total
Collin	1,231	0	38	0	0	0	1,269
Franklin	24	0	2	0	0	0	26
Gregg	23,048	0	230	22,576	37	3,000	48,891
Harrison	6,222	50	326	190,993	24	10,000	207,615
Hopkins	995	0	2,130	3	0	0	3,128
Hunt	9,933	271	896	509	75	0	11,684
Kaufman	204	0	72	0	0	0	276
Panola	3,377	0	2,027	967	16,912	0	23,283
Rains	1,463	20	700	0	0	0	2,183
Rockwall	2,347	0	26	0	0	0	2,373
Rusk	3,431	75	549	72	89	45,000	49,216
Smith	3,846	63	453	465	32	0	4,859
Upshur	1,988	0	418	0	0	0	2,406
Van Zandt	3,234	0	1,100	570	1,014	0	5,918
Wood	4,702	235	2,360	73	17,107	7,500	31,977
Totals	66,045	714	11,327	216,228	35,290	65,500	395,104

2040

COUNTY	Municipal ¹	Irrigation ¹	Livestock	Manufact. ²	Mining	Power ³	Total
Collin	1,994	0	38	0	0	0	2,032
Franklin	25	0	2	0	0	0	27
Gregg	23,769	0	230	24,931	29	3,000	51,959
Harrison	5,791	50	326	214,392	18	10,000	230,577
Hopkins	956	0	2,130	4	0	0	3,090
Hunt	9,826	271	896	533	77	0	11,603
Kaufman	215	0	72	0	0	0	287
Panola	3,171	0	2,027	1,046	17,179	0	23,423
Rains	1,487	20	700	0	0	0	2,207
Rockwall	3,084	0	26	0	0	0	3,110
Rusk	3,490	75	549	77	60	45,000	49,251
Smith	3,680	63	453	526	18	0	4,740
Upshur	2,003	0	418	0	0	0	2,421
Van Zandt	2,995	0	1,100	648	1,025	0	5,768
Wood	4,264	235	2,360	82	16,107	7,500	30,548
Totals	66,750	714	11,327	242,239	34,513	65,500	421,043

Projections are for that portion of the county within the Sabine River basin.

Appendix C

Table C-17
Sabine River Basin Total Water Demand: Upper Basin
(Acre-Feet/Year)

2050

COUNTY	Municipal ¹	Irrigation ¹	Livestock	Manufact. ²	Mining	Power ³	Total
Collin	2,600	0	38	0	0	0	2,638
Franklin	26	0	2	0	0	0	28
Gregg	24,849	0	230	27,351	27	4,000	56,457
Harrison	5,583	50	326	244,883	16	15,000	265,858
Hopkins	935	0	2,130	4	0	0	3,069
Hunt	10,011	271	896	559	79	0	11,816
Kaufman	223	0	72	0	0	0	295
Panola	3,072	0	2,027	1,121	16,912	0	23,132
Rains	1,579	20	700	0	0	0	2,299
Rockwall	3,679	0	26	0	0	0	3,705
Rusk	3,589	75	549	84	7	45,000	49,304
Smith	3,469	63	453	587	6	0	4,578
Upshur	2,041	0	418	0	0	0	2,459
Van Zandt	2,869	0	1,100	729	1,055	0	5,753
Wood	3,843	235	2,360	93	4,641	15,000	26,172
Totals	68,368	714	11,327	275,411	22,743	79,000	457,563

¹. "Most Likely" Projection Series

². "Low Oil Prices without Conservation" Projection Series

³. "High" Projection Series

Projections are for that portion of the county within the Sabine River basin.

Appendix C

Table C-18
Sabine River Upper Basin: Municipal Water Demand for Cities
Upper Basin Cities "Most Likely" Migration Rate Scenario (Acre-Feet/Year)¹

City	1990	2000	2010	2020	2030	2040	2050
Big Sandy	180	220	225	230	236	239	245
Caddo Mills	85	165	181	193	200	201	205
Canton	605	664	681	679	658	612	585
Carthage	1,235	1,629	1,615	1,564	1,527	1,447	1,393
Edgewood	184	200	202	201	191	176	169
Emory	313	194	188	181	179	178	179
Gladewater	1,105	1,194	1,230	1,265	1,326	1,374	1,442
Grand Saline	465	563	578	576	558	522	500
Greenville	5,982	5,894	5,842	5,670	5,710	5,664	5,678
Hallsville	301	418	489	536	561	557	558
Hawkins	229	249	253	250	242	219	197
Henderson	227	246	239	224	212	206	206
Kilgore	2,211	2,731	2,794	2,854	2,940	3,043	3,189
Liberty City	198	410	454	481	506	520	537
Lindale	229	261	267	267	271	274	278
Longview	12,272	15,859	16,279	16,848	17,544	18,221	19,165
Marshall	3,112	3,894	3,970	4,012	3,952	3,671	3,502
Mineola	816	871	892	884	857	779	696
Overton	327	423	413	385	369	361	358
Quinlan	175	221	255	284	301	301	312
Quitman	367	395	408	408	394	363	324
Royse City	313	593	803	1,079	1,450	1,889	2,463
Tatum	160	184	180	169	162	155	152
Tyler	2	2	2	2	2	2	2
Van	22	24	24	25	24	22	21
White Oak	767	824	847	873	912	951	1,011
Wills Point	312	281	288	285	273	255	245
Winnsboro	358	462	476	477	464	431	386

Municipal water demands includes only that portion of the city that lies within the Sabine Basin.

Appendix C

Table C-19
Sabine River Upper Basin: Municipal Water Demand for Cities
Lower Basin Cities "Most Likely" Migration Rate Scenario (Acre-Feet/Year)¹

City	1990	2000	2010	2020	2030	2040	2050
Bessmay-Buna	321	374	368	356	353	355	360
Bridge City	617	812	849	885	939	950	977
Center	705	938	967	981	1,017	1,044	1,087
Hemphill	279	339	342	341	356	371	391
Kirbyville	342	470	466	457	456	461	458
Newton	356	467	506	541	578	590	607
Orange	4,000	4,438	4,621	4,846	5,157	5,262	5,431
Pinehurst	385	513	522	522	536	556	581
Tenaha	148	153	149	146	146	147	151
Timpson	189	299	297	294	301	306	315
Vidor	470	493	484	474	469	465	469
West Orange	509	649	675	683	707	742	793

Municipal water demands includes only that portion of the city that lies within the Sabine Basin.