

Region C Projected Demands in Acre-Feet per Year

Demand Category	2017 SWP Projections					
	2020	2030	2040	2050	2060	2070
Municipal	1,481,530	1,675,385	1,894,722	2,119,813	2,352,818	2,594,833
Irrigation	33,167	33,383	33,599	33,815	34,032	34,248
Manufacturing	79,540	87,958	96,154	103,307	107,899	112,839
Steam Electric	71,452	94,176	106,033	113,641	124,001	135,443
Livestock	18,778	18,778	18,778	18,778	18,778	18,778
Mining	38,858	35,311	33,662	36,483	39,308	43,739
Region Total	1,723,325	1,944,991	2,182,948	2,425,837	2,676,836	2,939,880

Demand Category	2021 RWP TWDB Draft Projections					
	2020	2030	2040	2050	2060	2070
Municipal	1,477,999	1,671,574	1,891,465	2,122,879	2,357,465	2,599,289
Irrigation	42,905	42,905	42,905	42,905	42,905	42,905
Manufacturing	48,141	52,651	52,651	52,651	52,651	52,651
Steam Electric	30,281	34,072	34,072	34,072	34,072	34,072
Livestock	17,547	17,547	17,547	17,547	17,547	17,547
Mining	38,858	35,311	33,662	36,483	39,308	43,739
Region Total	1,655,731	1,854,060	2,072,302	2,306,537	2,543,948	2,790,203

Demand Category	2021 RWP Revision Request					
	2020	2030	2040	2050	2060	2070
Municipal	1,514,029	1,716,873	1,937,280	2,173,144	2,421,192	2,673,828
Irrigation	43,910	43,910	43,910	43,910	43,910	43,910
Manufacturing	48,382	52,930	52,930	52,930	52,930	52,930
Steam Electric	62,932	66,723	66,723	66,723	66,723	66,723
Livestock	17,547	17,547	17,547	17,547	17,547	17,547
Mining	46,467	38,209	33,536	36,360	39,180	43,601
Region Total	1,733,267	1,936,192	2,151,926	2,390,614	2,641,482	2,898,539

Region C Population & Demand Projections by County

Population by County

County	Population from the 2016 Region C Plan						TWDB DRAFT Population						Region C Consultant's Draft Revised Population						Difference Between 2016 and 2021					
	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
COLLIN	956,716	1,116,830	1,363,229	1,646,663	1,853,878	2,053,638	956,716	1,116,830	1,363,229	1,646,663	1,853,878	2,053,638	1,050,506	1,239,302	1,497,921	1,807,279	2,093,719	2,373,092	93,790	122,472	134,692	160,616	239,841	319,453
COOKE	42,033	45,121	48,079	53,532	64,047	96,463	42,033	45,121	48,079	53,532	64,047	96,463	40,903	44,035	46,984	52,427	62,905	95,351	-1,130	-1,086	-1,095	-1,105	-1,142	-1,112
DALLAS	2,566,134	2,822,809	3,107,541	3,355,539	3,552,602	3,697,105	2,566,134	2,822,809	3,107,541	3,355,539	3,552,602	3,697,105	2,587,960	2,871,662	3,180,529	3,429,783	3,627,334	3,770,858	21,826	48,853	72,988	74,244	74,732	73,753
DENTON	901,645	1,135,397	1,348,271	1,576,424	1,846,314	2,090,485	901,645	1,135,397	1,348,271	1,576,424	1,846,314	2,090,485	886,063	1,111,763	1,329,551	1,584,015	1,866,215	2,113,136	-15,582	-23,634	-18,720	7,591	19,901	22,651
ELLIS	183,814	224,000	276,931	362,668	488,768	683,974	183,814	224,000	276,931	362,668	488,768	683,974	191,638	241,778	280,745	360,584	479,939	670,845	7,824	17,778	3,814	-2,084	-8,829	-13,129
FANNIN	38,346	43,391	52,743	69,221	101,915	138,497	38,346	43,391	52,743	69,221	101,915	138,497	38,330	43,084	52,891	69,328	101,706	137,732	-16	-307	148	107	-209	-765
FREESTONE	20,437	21,077	22,947	31,142	44,475	73,287	20,437	21,077	22,947	31,142	44,475	73,287	20,437	21,077	22,947	31,142	44,475	73,287	0	0	0	0	0	0
GRAYSON	134,785	148,056	164,524	185,564	250,872	344,127	134,785	148,056	164,524	185,564	250,872	344,127	135,311	149,527	159,610	178,907	242,865	337,120	526	1,471	-4,914	-6,657	-8,007	-7,007
HENDERSON	60,175	64,059	69,737	76,204	101,827	136,269	60,175	64,059	69,737	76,204	101,827	136,269	67,579	72,592	78,504	85,901	110,493	141,881	7,404	8,533	8,767	9,697	8,666	5,612
JACK	9,751	10,409	10,817	11,033	11,190	11,291	9,751	10,409	10,817	11,033	11,190	11,291	9,751	10,409	10,817	11,033	11,190	11,291	0	0	0	0	0	0
KAUFMAN	146,623	191,707	239,940	309,619	428,577	571,840	146,623	191,707	239,940	309,619	428,577	571,840	146,389	195,107	242,354	306,833	423,277	566,840	-234	3,400	2,414	-2,786	-5,300	-5,000
NAVARRO	52,544	57,032	61,667	71,452	86,952	107,814	52,544	57,032	61,667	71,452	86,952	107,814	52,505	59,556	65,958	74,213	83,221	99,056	-39	2,524	4,291	2,761	-3,731	-8,758
PARKER	199,955	255,133	291,007	366,596	480,530	629,277	199,955	255,133	291,007	366,596	480,530	629,277	201,491	260,194	276,979	360,125	472,097	593,000	1,536	5,061	-14,028	-6,471	-8,433	-36,277
ROCKWALL	104,887	137,304	160,918	198,279	249,594	301,970	104,887	137,304	160,918	198,279	249,594	301,970	119,410	160,315	213,619	246,938	291,850	325,052	14,523	23,011	52,701	48,659	42,256	23,082
TARRANT	2,006,473	2,281,666	2,579,553	2,797,060	2,991,972	3,184,348	2,006,473	2,281,666	2,579,553	2,797,060	2,991,972	3,184,348	2,004,609	2,279,113	2,580,325	2,799,127	2,978,034	3,167,377	-1,864	-2,553	772	2,067	-13,938	-16,971
WISE	79,882	94,734	110,668	149,261	188,770	227,527	79,882	94,734	110,668	149,261	188,770	227,527	79,882	95,086	110,343	135,797	162,282	208,872	0	352	-325	-13,464	-26,488	-18,655
REGION C TOTAL	7,504,200	8,648,725	9,908,572	11,260,257	12,742,283	14,347,912	7,504,200	8,648,725	9,908,572	11,260,257	12,742,283	14,347,912	7,632,764	8,854,600	10,150,077	11,533,432	13,051,602	14,684,790	128,564	205,875	241,505	273,175	309,319	336,877

Demand by County

County	Demand from the 2016 Region C Plan (acre-feet)						TWDB DRAFT Demand (ac-ft)						Region C Consultant's Draft Revised Demand						Difference Between 2016 and 2021					
	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
COLLIN	215,996	248,030	296,881	345,282	374,359	402,609	212,782	244,686	293,985	346,549	376,312	402,782	235,966	266,883	309,157	366,230	417,267	461,813	19,970	18,853	12,276	20,948	42,908	59,204
COOKE	6,122	6,335	6,565	7,157	8,522	12,650	6,386	6,603	6,841	7,439	8,816	12,956	6,092	6,334	6,574	7,171	8,536	12,688	-30	-1	9	14	14	38
DALLAS	521,968	560,015	607,125	651,210	687,875	711,818	519,933	557,818	605,014	649,092	685,743	709,706	526,405	569,263	620,372	664,276	700,470	724,227	4,437	9,248	13,247	13,066	12,595	12,409
DENTON	176,110	218,419	256,631	295,870	341,498	379,398	176,171	218,482	256,793	296,312	342,032	379,949	174,482	214,499	253,243	296,551	343,953	383,288	-1,628	-3,920	-3,388	681	2,455	3,890
ELLIS	32,686	39,053	47,684	60,586	79,481	109,139	33,380	39,856	48,547	62,295	81,477	110,971	35,587	44,355	50,592	63,114	80,925	109,463	2,901	5,302	2,908	2,528	1,444	324
FANNIN	4,969	5,533	6,854	9,043	12,793	17,006	5,032	5,604	6,822	9,010	12,886	17,247	5,159	5,718	7,021	9,226	13,099	17,382	190	185	167	183	306	376
FREESTONE	2,476	2,480	2,599	3,670	5,030	7,911	2,679	2,661	2,787	3,904	5,339	8,376	2,978	2,981	3,205	4,449	5,991	9,139	502	501	606	779	961	1,228
GRAYSON	25,580	27,254	29,741	33,410	44,009	60,119	25,815	27,545	30,007	33,509	43,637	60,574	25,923	27,784	28,759	31,728	41,911	59,078	343	530	-982	-1,682	-2,098	-1,041
HENDERSON	7,790	8,237	8,809	9,692	13,956	19,634	7,036	7,442	7,988	8,815	12,625	17,464	7,533	8,016	8,577	9,467	13,207	17,841	-257	-221	-232	-225	-749	-1,793
JACK	1,243	1,283	1,302	1,311	1,327	1,337	1,227	1,267	1,286	1,294	1,309	1,321	1,227	1,267	1,286	1,294	1,309	1,321	-16	-16	-16	-17	-18	-16
KAUFMAN	18,199	23,826	29,422	37,766	51,170	67,015	19,133	24,845	30,603	39,616	53,966	71,087	19,543	25,959	32,142	40,518	54,694	72,157	1,344	2,133	2,720	2,752	3,524	5,142
NAVARRO	9,084	9,663	10,307	11,613	13,608	16,207	9,079	9,639	10,271	11,576	13,562	16,152	9,175	10,037	10,876	12,035	13,367	15,469	91	374	569	422	-241	-738
PARKER	30,671	39,528	44,667	55,197	70,446	90,498	30,749	39,638	44,559	55,315	70,621	90,715	32,000	41,708	44,184	55,648	70,799	87,044	1,329	2,180	-483	451	353	-3,454
ROCKWALL	19,893	27,064	30,947	36,425	44,054	52,522	19,830	26,837	30,737	36,264	43,996	52,422	22,657	30,414	40,419	45,201	51,916	57,231	2,764	3,350	9,472	8,776	7,862	4,709
TARRANT	396,470	443,988	497,892	538,525	575,949	612,536	396,370	443,824	497,759	538,619	576,141	612,817	396,608	446,443	503,051	543,999	577,156	612,381	138	2,455	5,159	5,474	1,207	-155
WISE	12,273	14,677	17,296	23,056	28,741	34,434	12,397	14,827	17,466	23,270	29,003	34,750	12,694	15,211	17,821	22,238	26,592	33,305	421	534	525	-818	-2,149	-1,129
REGION C TOTAL	1,481,530	1,675,385	1,894,722	2,119,813	2,352,818	2,594,833	1,477,999	1,671,574	1,891,465	2,122,879	2,357,465	2,599,289	1,514,029	1,716,873	1,937,280	2,173,144	2,421,192	2,673,828	32,499	41,488	42,558	53,331	68,374	78,995

GPCD by County

County	GPCD from the 2016 Region C Plan						TWDB DRAFT Demand (ac-ft)						Region C Consultant's Draft Revised gpcd						Difference Between 2016 and 2021					
	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
COLLIN	202	198	194	187	180	175	199	196	193	188	181	175	201	192	184	181	178	174	-1	-6	-10	-6	-2	-1
COOKE	130	125	122	119	119	117	136	131	127	124	123	120	133	128	125	122	121	119	3	3	3	3	2	2
DALLAS	182	177	174	173	173	172	181	176	174	173	172	171	182	177	174	173	172	171	0	0	0	0	0	0
DENTON	174	172	170	168	165	162	174	172	170	168	165	162	176	172	170	167	165	162	1	1	0	0	-1	0
ELLIS	159	156	154	149	145	142	162	159	157	153	149	145	166	164	161	156	151	146	7	8	7	7	5	3
FANNIN	116	114	116	117	112	110	117	115	115	116	113	111	120	118	118	119	115	113	4	5	2	2	3	3
FREESTONE	108	105	101	105	101	96	117	113	108	112	107	102	130	126	125	128	120	111	22	21	24	22	19	15
GRAYSON	169	164	161	161	157	156	171	166	163	161	155	157	171	166	161	158	154	156	2	2	-1	-2	-3	0
HENDERSON	116	115	113	114	122	129	104	104	102	103	111	114	100	99	98	98	107	112	-16	-16	-15	-15	-16	-16
JACK	114	110	107	106	106	106	112	109	106	105	104	104	112	109	106	105	104	104	-1	-1	-1	-1	-1	-1
KAUFMAN	111	111	109	109	107	105	116	116	114	114	112	111	119	119	118	118	115	114	8	8	9	9	9	9
NAVARRO	154	151	149	145	140	134	154	151	149	145	139	134	156	150	147	145	143	139	2	-1	-2	0	4	5
PARKER	137	138	137	134	131	128	137	139	137	135	131	129	142	143	142	138	134	131	5	5	5	4	3	3
ROCKWALL	169	176	172	164	158	155	169	174	171	163	157	155	169	169	169	163	159	157	0	-7	-3	-1	1	2
TARRANT	176	174	172	172	172	172	176	174	172	172	172	172	177	175	174	174	173	173	0	1	2	2	1	1
WISE	137	138	140	138	136	135	139	140	141	139	137	136	142	143	144	146	146	142	5	5	5	8	10	7
REGION C TOTAL	176	173	171	168	165	161	176	173	170	168	165	162	177	173	170	168	166	163						

2021 RWP Draft Non-Municipal Water Demand Projections - Summary (in acre-feet)

County	2017 SWP Projections						2021 RWP Draft Projections						2021 RWP Revision Request					
	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070
Irrigation	33,167	33,383	33,599	33,815	34,032	34,248	42,905	42,905	42,905	42,905	42,905	42,905	43,910	43,910	43,910	43,910	43,910	43,910
Manufacturing	79,540	87,958	96,154	103,307	107,899	112,839	48,141	52,651	52,651	52,651	52,651	52,651	48,382	52,930	52,930	52,930	52,930	52,930
Steam Electric	71,452	94,176	106,033	113,641	124,001	135,443	30,281	34,072	34,072	34,072	34,072	34,072	62,932	66,723	66,723	66,723	66,723	66,723
Livestock	18,778	18,778	18,778	18,778	18,778	18,778	17,547	17,547	17,547	17,547	17,547	17,547	17,547	17,547	17,547	17,547	17,547	17,547
Mining	38,858	35,311	33,662	36,483	39,308	43,739	38,858	35,311	33,662	36,483	39,308	43,739	46,467	38,209	33,536	36,360	39,180	43,601
Region Total	241,795	269,606	288,226	306,024	324,018	345,047	177,732	182,486	180,837	183,658	186,483	190,914	219,238	219,319	214,646	217,470	220,290	224,711

2021 RWP Draft Non-Municipal Water Demand Projections - Mining (in acre-feet)

County	2017 SWP Projections						2021 RWP Draft Projections						2021 RWP Revision Request						Comment
	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	2020	2030	2040	2050	2060	2070	
COLLIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
COOKE	1,583	900	378	446	511	586	1,583	900	378	446	511	586	1,583	900	378	446	511	586	
DALLAS	3,038	2,656	2,279	1,930	1,922	1,916	3,038	2,656	2,279	1,930	1,922	1,916	3,038	2,656	2,279	1,930	1,922	1,916	
DENTON	4,326	2,729	3,345	4,306	5,204	6,291	4,326	2,729	3,345	4,306	5,204	6,291	4,326	2,729	3,345	4,306	5,204	6,291	
ELLIS	147	213	164	123	82	55	147	213	164	123	82	55	931	547	164	123	82	55	Using more consistent TCEQ historical data; recommend peak mining water right diversion (931 ac-ft) be used for 2020 projected mining water demand, and 2030 projected mining water demand should transition to match the draft 2040-2070 projections.
FANNIN	128	128	128	128	128	128	128	128	128	128	128	128	574	351	128	128	128	128	2010-2015 TWDB historical mining water use estimates significantly > TWDB projected mining water demand; recommend peak historical mining water use estimate (574 ac-ft) be used for 2020, and 2030 projected mining water demand should transition to match the draft 2040-2070 projections.
FREESTONE	5,347	5,115	5,251	5,286	5,356	5,582	5,347	5,115	5,251	5,286	5,356	5,582	5,347	5,115	5,251	5,286	5,356	5,582	
GRAYSON	79	91	107	123	142	163	79	91	107	123	142	163	312	210	107	123	142	163	2014 TWDB historical mining water use estimates significantly > TWDB projected mining water demand; recommend peak historical mining water use estimate (574 ac-ft) be used for 2020, and 2030 projected mining water demand should transition to match the draft 2040-2070 projections.
HENDERSON	607	607	607	607	607	607	607	607	607	607	607	607	434	506	481	484	479	469	Historical use significantly less than draft projections; Recommend using values from 2011 BEG Study in proportion to regional split of Henderson Co.
JACK	1,555	1,745	1,698	1,731	1,768	1,862	1,555	1,745	1,698	1,731	1,768	1,862	3,396	1,821	1,698	1,731	1,768	1,862	Historical use significantly greater than draft projections; Recommend use 2011 BEG Study through 2030.
KAUFMAN	296	386	491	646	783	951	296	386	491	646	783	951	296	386	491	646	783	951	
NAVARRO	883	1,071	1,282	1,572	1,806	2,076	883	1,071	1,282	1,572	1,806	2,076	1,193	1,238	1,282	1,572	1,806	2,076	TWDB historical mining water use estimates significantly > TWDB projected mining water demand; recommend peak historical mining water use estimate (1,193 ac-ft) be used for 2020, and 2030 projected mining water demand should transition to match the draft 2040-2070 projections.
PARKER	3,182	4,029	4,006	4,073	4,124	4,364	3,182	4,029	4,006	4,073	4,124	4,364	3,182	4,029	4,006	4,073	4,124	4,364	
ROCKWALL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TARRANT	7,367	4,482	1,589	1,537	1,497	1,464	7,367	4,482	1,589	1,537	1,497	1,464	11,535	6,562	1,589	1,537	1,497	1,464	TWDB historical mining water use estimates significantly > TWDB projected mining water demand; recommend peak historical mining water use estimate (11,535 ac-ft) be used for 2020, and 2030 projected mining water demand should transition to match the draft 2040-2070 projections.
WISE	10,320	11,159	12,337	13,975	15,378	17,694	10,320	11,159	12,337	13,975	15,378	17,694	10,320	11,159	12,337	13,975	15,378	17,694	
Region Total	38,858	35,311	33,662	36,483	39,308	43,739	38,858	35,311	33,662	36,483	39,308	43,739	46,467	38,209	33,536	36,360	39,180	43,601	