

***Appendix A***  
***Pumping Estimates***

**Table A-1.**  
**Annual Pumping in Nolan County**

<b>Nolan County</b>							
<b>Edwards-Trinity (Plateau) Aquifer</b>							
<b>Year</b>	<b>Municipal</b>	<b>Manufacturing</b>	<b>Steam Electric</b>	<b>Irrigation</b>	<b>Mining</b>	<b>Livestock</b>	<b>Total</b>
1980	787	45	0	295	62	71	1,260
1984	850	43	0	250	90	40	1,273
1985	717	54	0	278	111	37	1,197
1986	468	44	0	178	106	27	823
1987	26	42	0	151	98	30	347
1988	471	46	0	181	91	29	818
1989	1,002	44	0	295	84	29	1,454
1990	1,019	40	0	254	84	28	1,425
1991	892	28	0	209	94	30	1,253
1992	261	36	0	154	94	42	587
1993	285	48	0	320	94	43	790
1994	260	52	0	0	94	43	449
1995	368	43	0	0	62	51	524
1996	327	28	0	0	62	82	499
1997	64	36	0	0	62	47	209
1998	71	46	0	0	62	35	214
1999	70	46	0	0	62	25	203
2000	114	70	0	0	62	22	268
2001	93	75	0	0	62	20	250
2002	95	78	0	0	62	20	255
2003	93	78	0	0	62	87	320
<b>Dockum Aquifer</b>							
<b>Year</b>	<b>Municipal</b>	<b>Manufacturing</b>	<b>Steam Electric</b>	<b>Irrigation</b>	<b>Mining</b>	<b>Livestock</b>	<b>Total</b>
1980	378	0	0	1,498	106	34	2,016
1984	322	0	0	1,360	80	20	1,782
1985	369	0	0	1,515	45	18	1,947
1986	282	0	0	972	43	14	1,311
1987	315	0	0	822	40	14	1,191
1988	510	0	0	988	36	14	1,548
1989	546	0	0	1,566	34	14	2,160
1990	490	0	0	1,382	35	14	1,921
1991	477	0	0	1,138	20	14	1,649
1992	425	0	0	841	19	20	1,305
1993	442	0	0	1,769	19	20	2,250
1994	429	0	0	1,760	19	20	2,228
1995	387	0	0	1,217	19	24	1,647
1996	410	0	0	2,240	19	38	2,707
1997	393	0	0	1,323	19	22	1,757
1998	437	0	0	1,212	19	16	1,684
1999	428	0	0	1,359	19	12	1,818
2000	701	0	0	4,145	19	10	4,875
2001	286	0	0	1,933	19	10	2,248
2002	301	0	0	1,950	19	10	2,280
2003	305	0	0	2,151	19	40	2,515

**Table A-2.**  
**Annual Pumping in Mitchell County**

<b>Mitchell County</b>							
<b>Dockum Aquifer</b>							
<b>Year</b>	<b>Steam</b>						<b>Total</b>
	<b>Municipal</b>	<b>Manufacturing</b>	<b>Electric</b>	<b>Irrigation</b>	<b>Mining</b>	<b>Livestock</b>	
1980	223	0	0	3,218	116	50	3,607
1984	152	19	0	2,739	620	42	3,572
1985	174	19	0	4,414	621	32	5,260
1986	182	19	0	2,765	586	38	3,590
1987	117	0	0	2,262	551	36	2,966
1988	139	0	0	2,129	518	39	2,825
1989	136	0	0	1,477	483	38	2,134
1990	131	0	0	1,593	483	38	2,245
1991	122	0	0	2,241	252	39	2,654
1992	177	0	0	953	252	42	1,424
1993	193	0	0	1,313	244	49	1,799
1994	199	0	0	1,240	244	44	1,727
1995	198	0	0	410	141	42	791
1996	336	0	0	1,044	141	37	1,558
1997	171	0	0	985	141	39	1,336
1998	353	0	0	809	141	43	1,346
1999	418	0	0	2,776	141	41	3,376
2000	1,369	0	0	5,549	141	42	7,101
2001	1,254	0	0	3,423	141	40	4,858
2002	1,801	0	0	3,670	141	33	5,645
2003	1,531	0	0	5,188	141	90	6,950

**Table A-3.**  
**Estimated Water Supplies Used by City of Sweetwater**

Year	TWDB Water Use Survey			
	Surface Water (acft/yr)		Groundwater (acft/yr)	
	Oak Creek Reservoir	Nolan County	DUER WAGONER	Champion Wellfield
1971	3,770			
1972	4,171			
1973	4,397			
1974	4,596			
1975	5,946			
1976	5,630			
1977	4,558			
1978	4,550			
1979	4,998	202		
1980	5,125	182	424	
1981	2,043	2,485	1,022	
1982	1,686	3,343	455	
1983	3,473	1,465	840	
1984	2,576	2,398	807	
1985	2,037	1,826	673	
1986	2,460	1,849	448	
1987	2,431	2,066	0	
1988	3,029	1,617	434	
1989	5,383	761	975	
1990	2,278	1,713	975	
1991	4,074	912	848	
1992	4,352	809	216	
1993	3,542	0	238	
1994	3,822	0	215	
1995	2,656	1,042	302	
1996	5,146	21	264	
1997	5,298	85		
1998	5,381	706		
1999	3,735	387		61
2000	3,839	234		616
2001	2,000	361		2,500
2002	1,500	36		2,851
2003	0	10		3,333
2004	0	623		2,401
2005	0	971		2,153

**Table A-4.**  
**Pumpage in Champion Wellfield**

<b>Wellfield Name</b>	<b>Champion Wellfield Pumpage (acft/yr)</b>						
	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
<b>Fullwood East</b>	391	555	501	418	528	400	491
<b>Fullwood Home</b>	197	583	589	506	581	358	441
<b>Fullwood Irrigations</b>	173	176	111	73	14	2	0
<b>Fullwood North</b>	388	701	621	541	487	450	586
<b>Nations</b>	194	501	743	560	181	549	476
<b>Nena</b>	434	436	431	420	167	3	0
<b>Sasin North</b>	6	181	124	104	117	374	267
<b>Sasin South</b>	113	273	311	128	114	299	323
<b>Whitfield Irrigations</b>	45	24	0	0	0	0	0
<b>Wilson</b>	0	0	391	135	93	322	256
<b>TOTAL</b>	1,940	3,429	3,823	2,884	2,282	2,757	2,841

***Appendix B***  
***Well Performance in Champion Wellfield***

**Table B-1.**  
**Well Performance Data in Champion Wellfield (page 1 of 3)**

<b>Well ID</b>	<b>Motor Size (HP)</b>	<b>Well Yield (gpm)</b>	<b>Average Pumpage (acft/yr) 2001-2007</b>	<b>Well Depth (ft)</b>	<b>Depth to Top of Screen (ft)</b>	<b>Depth to Bottom of Screen (ft)</b>	<b>Drawdown during Pump Test (ft)</b>	<b>Saturated Thickness above Bottom of Screen during Static Conditions (ft) Jan 2006</b>	<b>Saturated Thickness above Bottom of Screen during Pumping (ft) January 2008</b>	<b>Depth to Water (ft) January 2006</b>	<b>Depth to Water (ft) January 2008</b>	<b>Change in Water Levels (ft) October 2006-January 2008</b>
Nena Wells#2	5	40	39	250		240		148		92		
Nena Wells#4	5	60	43	250		240		130		110		
Nena Wells#7	5	30	12	250		240		112		128		
Nena Wells#8	5	20	23	322		312		138		174		
Nena Wells#9	5	20	22	247		237		155		82		
Nena Wells#10	5	40	38	255		245		100		145		
Nena Wells#12	5	80	60	250		240		82		158		
Nena Wells#14	5	45	34	251		241		99		142		
Nations Wells#1	20	160	93	283	200	273	99	138	41	135	133	2
Nations Wells#2	20	190	122	210	160	200		125		75		
Nations Wells#3	15	105	60	225	185	215	82	114	27	101	106	-5
Nations Wells#4	20	140	100	196	124	186	76	124	27	62	83	-21
Nations Wells#5	5	35	12	250	160	240	75	102	25	138	140	-2
Nations Wells#6	15	110	70	235	170	225	90	103	2	122	133	-11
Fullwood Irrigation#1	25	50	25	225		215		183		32		
Fullwood Irrigation#2	25	80	50	220		210		142		68		
Fullwood Irrigation#3	30	50	4	205		195		121		74		
Fullwood Homeplace#1	10	50	35	230	150	220	114	116	4	104	102	2
Fullwood Homeplace#2	15	70	49	200	160	200	100	101	4	99	96	3
Fullwood Homeplace#3	25	180	182	240	140	230	98	96	3	134	129	5
Fullwood Homeplace#4	30	190	199	200	130	190	102	74	-24	116	112	4

**Table B-1.**  
**Well Performance Data in Champion Wellfield (page 2 of 3)**

<b>Well ID</b>	<b>Motor Size (HP)</b>	<b>Well Yield (gpm)</b>	<b>Average Pumpage (acft/yr) 2001-2007</b>	<b>Well Depth (ft)</b>	<b>Depth to Top of Screen (ft)</b>	<b>Depth to Bottom of Screen (ft)</b>	<b>Drawdown during Pump Test (ft)</b>	<b>Saturated Thickness above Bottom of Screen during Static Conditions (ft) Jan 2006</b>	<b>Saturated Thickness above Bottom of Screen during Pumping (ft) January 2008</b>	<b>Depth to Water (ft) January 2006</b>	<b>Depth to Water (ft) January 2008</b>	<b>Change in Water Levels (ft) October 2006-January 2008</b>
Fullwood North#1	15	90	77	180	130	170	80	76	2	94	88	6
Fullwood North#2	15	90	90	167	87	157	103	97	-5	60	59	1
Fullwood North#3	20	130	90	160	70	150	76	83	-5	67	79	-12
Fullwood North#4	15	70	64	185	120	175	79	85	8	90	88	2
Fullwood North#5	15	90	112	170	80	145	86	82	-4	63	63	0
Fullwood North#6	25	150	106	170	90	160	89	75	-10	85	81	4
Fullwood East#1	15	90	59	180	100	170	101	109	6	61	63	-2
Fullwood East#2	15	40	46	180	90	170	99	96	-1	74	72	2
Fullwood East#3	30	225	281	240	160	230	72	72	7	158	151	7
Fullwood East#4	15	70	84	174	99	169	93	64	-21	105	97	8
Sasin North#1	15	75	27	200	140	190	47	82	34	108	109	-1
Sasin North#2	25	170	49	210	140	200	61	109	44	91	95	-4
Sasin North#3	20	115	47	205	125	195	58	97	35	98	102	-4
Sasin North#4	20	115	44	200	130	190	57	87	28	103	105	-2
Sasin South#1	30	220	87	180	120	170	65	91	20	79	85	-6
Sasin South#2	15	75	30	190	120	180	58	97	33	83	89	-6
Sasin South#3	25	170	49	175	75	165	73	89	13	76	79	-3
Sasin South#4	30	160	57	175	105	165	69	81	16	84	80	4

**Table B-1.**  
**Well Performance Data in Champion Wellfield (page 3 of 3)**

<b>Well ID</b>	<b>Motor Size (HP)</b>	<b>Well Yield (gpm)</b>	<b>Average Pumpage (acft/yr) 2001-2007</b>	<b>Well Depth (ft)</b>	<b>Depth to Top of Screen (ft)</b>	<b>Depth to Bottom of Screen (ft)</b>	<b>Drawdown during Pump Test (ft)</b>	<b>Saturated Thickness above Bottom of Screen during Static Conditions (ft) Jan 2006</b>	<b>Saturated Thickness above Bottom of Screen during Pumping (ft) January 2008</b>	<b>Depth to Water (ft) January 2006</b>	<b>Depth to Water (ft) January 2008</b>	<b>Change in Water Levels (ft) October 2006-January 2008</b>
Wilson Wells#1	10	80	20	270	180	260	107	110	-5	150	158	-8
Wilson Wells#2	7.5	65	31	270	180	260		126		134	151	-17
Wilson Wells#3	10	50	32	240	150	230		120		110	121	-11
Wilson Wells#4	10	85	28	210	150	200		122		78	88	-10
Wilson Wells#5	5	45	15	240	150	230		154		76	101	-25
Wilson Wells#6	10	120	45	270	180	260	113	114	-7	146	154	-8