

ATASCOSA COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, sodium adsorption ratio, and residual sodium carbonate).

Water-bearing unit: Keeb, Edwards and associated limestones (Balcones Fault Zone aquifer); Tw1, Wilcox Group; Tc, Carrizo Sand; Tb, Bigford Member; Tep, Pico Clay; Tq, Queen City Sand; Tla, Laredo Formation; Ts, Sparta Sand; Tms, Mount Selman Formation; Tm, Cook Mountain Formation; Tn, Vega Formation; Tj, Jackson Group; Tct, Catahoula Tuff; Tok, Oakville Sandstone; Qle, Leona Formation.

Dissolved Solids : The bicarbonate "reported" is converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate, and the carbonate figure is used in the computation of this sum.

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness CaCO <sub>3</sub>	Specific conductance (microhm/cm at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
AL-68-50-201	Keeb	2,379	Nov. 1, 1955	14	0.8	70	22	80	5.8	232	182	49	1.4	0.0	0.5	539	265	858	7.7	38.96	2.1	0.0
201	Keeb	2,379	July 22, 1957	22	--	96	34	13	2.0	226	183	22	3.2	.0	--	486	380	757	7.4	6.89	.2	.0
201	Keeb	2,379	Feb. 4, 1959	--	--	--	--	--	--	224	186	31	--	--	--	--	380	779	7.6	--	--	--
201	Keeb	2,379	Sept. 8, 1959	--	--	--	--	--	--	218	--	34	--	--	--	--	382	767	7.1	--	--	--
201	Keeb	2,379	Dec. 1, 1959	--	--	--	--	--	--	218	194	34	--	--	--	--	380	780	7.1	--	--	--
201	Keeb	2,379	Sept. 19, 1960	--	--	--	--	--	--	218	190	36	--	--	--	--	380	786	7.4	--	--	--
201	Keeb	2,379	Mar. 6, 1961	--	--	--	--	--	--	218	190	34	--	--	--	--	378	795	7.1	--	--	--
201	Keeb	2,379	Sept. 12, 1961	--	--	--	--	--	--	206	188	38	--	--	--	--	372	772	7.5	--	--	--
201	Keeb	2,379	Oct. 10, 1961	--	--	--	--	--	--	98	188	120	--	--	--	--	400	889	6.1	--	--	--
201	Keeb	2,379	Mar. 19, 1962	--	--	--	--	--	--	218	187	42	--	--	--	--	382	789	7.1	--	--	--
201	Keeb	2,379	Aug. 20, 1962	--	--	--	--	--	--	220	185	38	--	--	--	--	390	812	6.9	--	--	--
201	Keeb	2,379	Sept. 19, 1962	--	.4	96	37	22	--	221	190	45	3.0	.4	--	502	393	928	7.6	10.88	.4	.0
201	Keeb	2,379	Mar. 4, 1963	--	--	--	--	--	--	224	190	39	--	--	--	--	394	811	7.1	--	--	--
201	Keeb	2,379	Mar. 8, 1963	18	.1	100	34	24	--	220	191	38	3.0	.0	--	516	390	802	6.8	11.82	.5	.0
201	Keeb	2,379	Aug. 7, 1963	--	--	--	--	--	--	220	190	40	--	--	--	--	396	793	6.7	--	--	--
201	Keeb	2,379	Mar. 4, 1964	--	--	--	--	--	--	226	194	40	--	--	--	--	394	818	7.5	--	--	--
201	Keeb	2,379	Aug. 21, 1964	--	--	--	--	--	--	228	189	41	--	--	--	--	382	807	7.4	--	--	--
201	Keeb	2,379	Mar. 1, 1965	--	--	--	--	--	--	--	181	40	--	--	--	--	382	806	8.1	--	--	--
201	Keeb	2,379	July 29, 1977	14	--	62	15	8	--	214	17	23	1.6	3.5	--	249	215	426	8.0	7.44	.2	.0
603	Tw1	249	Nov. 20, 1969	25	--	149	31	83	14.0	377	189	138	1.7	.4	--	816	500	1,250	7.1	25.87	1.6	.0
603	Tw1	249	Sept. 2, 1977	23	--	98	25	74	15.0	350	108	92	1.5	.4	--	608	348	956	8.2	30.51	1.7	.0
51-101	Keeb	2,656	Dec. 1, 1959	--	--	--	--	--	--	124	1,400	590	--	--	--	--	1,650	3,790	7.0	--	--	--
101	Keeb	2,656	Mar. 6, 1961	--	--	--	--	--	--	74	270	580	--	--	--	--	1,590	3,680	7.2	--	--	--
101	Keeb	2,656	Oct. 10, 1961	15	--	420	169	299	--	139	1,370	600	2.8	.0	--	2,944	1,740	3,870	6.7	27.17	3.1	.0
101	Keeb	2,656	Mar. 29, 1962	--	--	--	--	--	--	118	1,280	540	--	--	--	--	1,620	3,610	6.6	--	--	--
101	Keeb	2,656	Sept. 25, 1962	--	--	--	--	--	--	240	1,080	500	--	--	--	--	1,510	3,440	6.9	--	--	--
101	Keeb	2,656	June 24, 1964	--	--	--	--	--	--	236	720	350	--	--	--	--	1,050	2,450	6.8	--	--	--
101	Keeb	2,656	Sept. 1, 1977	16	--	259	78	120	--	204	678	256	2.5	.4	--	1,510	966	2,040	8.1	21.25	1.6	.0

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Table 4. -- Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
AL-68-51-701	Tc	--	Apr. 1, 1970	33	--	16	4	25	3.0	40	22	41	0.1	< 0.4	--	164	55	260	6.8	47.45	1.4	0.0
701	Tc	--	June 9, 1977	39	--	30	7	50	7.0	41	25	114	.1	< .4	--	292	104	504	6.6	49.13	2.1	.0
52-715	TW1	672	Aug. 15, 1973	--	0.1	86	20	80	--	370	101	53	.3	1.0	--	710	295	--	7.7	36.95	2.0	.1
715	TW1	672	Oct. 21, 1974	--	1.2	95	23	91	--	367	143	73	.3	1.2	--	810	331	--	8.3	37.37	2.1	.0
715	TW1	672	Oct. 18, 1976	--	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
716	TW1	632	Aug. 15, 1973	--	.8	94	23	98	--	362	127	72	2.2	1.0	--	780	329	--	7.9	39.30	2.3	.0
716	TW1	632	Oct. 21, 1974	--	.2	88	19	78	1.2	365	103	58	.3	1.0	--	730	300	1,022	8.4	36.18	1.9	.0
716	TW1	632	Oct. 18, 1976	--	.1	86	21	78	--	371	104	58	.1	.6	--	730	299	--	7.9	36.05	1.9	.0
718	Tc	377	Aug. 1, 1969	34	--	32	4	20	5.0	81	19	40	.2	< .4	--	194	97	307	6.9	29.75	.8	.0
718	Tc	377	July 13, 1972	28	--	64	8	19	7.0	134	48	57	.2	< .4	--	297	191	462	7.0	17.01	.5	.0
718	Tc	377	July 20, 1973	28	3.2	39	5	17	4.0	104	20	37	.2	< .4	0.1	205	116	320	7.1	23.11	.6	.0
718	Tc	377	July 22, 1974	29	--	43	5	22	--	94	26	47	.1	.6	--	218	126	361	7.3	27.23	.8	.0
718	Tc	377	June 19, 1975	27	--	57	2	11	4.0	150	20	23	.1	< .4	--	218	151	355	7.6	13.33	.3	.0
718	Tc	377	July 23, 1976	27	--	47	3	17	6.0	127	16	36	.1	< .4	.1	215	130	351	7.2	21.22	.6	.0
718	Tc	377	June 9, 1977	35	--	46	2	14	--	128	13	27	.1	< .4	--	200	125	321	7.3	19.84	.5	.0
58-204	Tc	160	July 28, 1977	29	--	16	3	21	6.0	26	26	39	.1	< .4	--	153	52	244	6.6	43.25	1.2	.0
59-501	Tc	290	July 23, 1976	25	--	22	4	35	7.0	40	35	62	.1	< .4	--	210	72	351	7.0	48.67	1.8	.0
501	Tc	290	July 27, 1977	31	--	24	4	35	--	44	34	60	.1	< .4	--	210	76	351	7.1	49.93	1.7	.0
614	Tc	455	Sept. 16, 1969	19	--	22	4	24	7.0	31	32	50	.2	< .4	--	173	71	294	6.4	39.40	1.2	.0
614	Tc	455	July 28, 1977	22	--	31	4	25	7.0	51	37	54	.1	< .4	--	205	94	345	7.1	34.60	1.1	.0
60-305	Tc	378	Oct. 2, 1969	28	--	10	2	17	5.0	27	16	27	.1	< .4	--	118	36	180	6.1	48.30	1.2	.0
305	Tc	378	July 13, 1972	28	--	12	3	16	4.0	29	18	27	.1	< .4	.1	122	42	183	6.2	42.34	1.0	.0
305	Tc	378	July 27, 1977	29	--	11	1	16	--	27	16	24	.1	< .4	--	110	34	167	6.7	52.44	1.2	.0
702	Tc	800	Oct. 28, 1955	37	2.2	26	4	38	--	49	39	60	.1	< .4	--	230	82	--	--	--	--	--
702	Tc	800	Aug. 23, 1966	--	.5	33	7	29	--	48	47	65	.3	< .4	--	205	111	--	--	--	--	--
702	Tc	800	Sept. 12, 1967	--	1.8	42	10	50	--	71	67	94	.4	< .4	--	298	145	--	--	--	--	--
726	Tc	840	Mar. 4, 1969	--	1.2	37	8	33	--	48	56	76	.1	< .4	--	259	127	--	--	--	--	--
726	Tc	840	Sept. 10, 1969	17	4.7	45	11	44	8.0	60	66	100	.2	< .4	--	325	158	561	6.6	36.32	1.5	.0
726	Tc	840	Apr. 20, 1973	--	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726	Tc	840	July 5, 1973	--	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726	Tc	840	Nov. 27, 1973	--	1.4	28	6	31	--	39	47	61	.1	.6	--	216	93	--	6.3	41.63	1.3	.0
809	Tc	835	May 26, 1932	16	10.6	28	6	21	7.0	55	32	47	--	.0	--	194	95	--	--	--	30.62	.9

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
AI-68-60-809	Te	835	Aug. 14, 1945	17	1.3	25	5	24	5.6	48	33	49	0.2	0.0	--	195	83	--	7.8	36.68	1.1	0.0
809	Te	835	Sept. 16, 1948	14	.9	26	3	39	--	55	36	57	.2	< .4	--	203	78	--	7.9	52.35	1.9	.0
809	Te	835	Oct. 28, 1955	14	6.2	26	4	33	--	55	36	50	.2	< .4	--	196	82	--	--	46.88	1.5	.0
809	Te	835	Jan. 2, 1970	--	.1	27	5	23	--	49	33	49	.2	< .4	--	186	88	--	7.6	36.26	1.0	.0
841	Te	1,300	Aug. 12, 1969	16	--	32	6	23	7.0	78	32	43	.3	< .4	--	198	104	340	7.0	30.59	.9	.0
841	Te	1,300	July 28, 1977	17	--	31	4	21	7.0	65	32	43	.1	< .4	--	187	94	322	7.5	30.77	.9	.0
61-207	Te	805	July 30, 1969	20	--	17	3	20	6.0	33	24	37	.1	< .4	--	143	55	234	6.7	41.06	1.1	.0
207	Te	805	Sept. 7, 1977	20	--	15	4	19	6.0	39	22	33	.1	< .4	--	138	52	225	6.8	40.17	1.1	.0
805	Tqc	655	Sept. 2, 1970	21	--	139	45	126	11.0	273	300	206	.5	< .4	--	983	530	1,510	7.6	33.42	2.3	.0
805	Tqc	655	July 25, 1973	20	--	134	45	134	12.0	275	317	202	.6	< .4	--	1,000	520	1,500	7.5	35.27	2.5	.0
805	Tqc	655	July 24, 1974	20	--	141	45	131	--	276	299	205	.7	< .4	--	977	540	1,500	7.9	34.67	2.4	.0
805	Tqc	655	June 20, 1975	20	--	133	38	126	--	281	274	191	.6	< .4	--	921	492	1,450	7.8	35.95	2.4	.0
805	Tqc	655	July 22, 1976	20	--	136	38	124	14.0	300	273	183	.3	< .4	--	936	495	1,450	7.5	34.43	2.4	.0
805	Tqc	655	June 15, 1977	21	--	134	41	132	--	275	283	202	.4	< .4	--	949	510	1,500	7.8	36.34	2.5	.0
78-02-301	Te	1,205	Apr. 6, 1964	16	--	92	9	26	5.5	241	63	50	.4	.2	--	380	268	650	6.8	17.12	.6	.0
301	Te	1,205	July 28, 1977	20	--	89	7	26	--	217	61	47	.3	< .4	--	357	250	580	7.8	18.39	.7	.0
03-509	Te	1,528	June 13, 1969	15	--	90	7	21	5.0	277	36	29	.5	< .4	--	340	255	564	7.6	14.95	.5	.0
509	Te	1,528	June 10, 1977	17	--	87	7	22	--	276	30	31	.3	< .4	--	330	249	556	7.6	16.29	.6	.0
04-308	Tqc	722	Nov. 20, 1967	--	.0	36	20	118	--	293	66	97	.7	< .4	--	481	173	--	7.7	59.86	3.9	1.3
308	Tqc	722	Apr. 22, 1969	--	--	36	25	117	--	292	67	95	.6	< .4	0.2	483	192	--	7.7	56.91	3.6	.9
308	Tqc	722	July 28, 1977	20	--	41	16	122	--	290	67	93	.6	< .4	--	502	168	855	8.1	61.22	4.0	1.3
502	Te	1,635	June 18, 1932	--	.9	68	15	39	--	278	41	33	--	.0	--	332	232	--	--	26.82	1.1	.0
502	Te	1,635	June 29, 1938	13	.8	66	16	40	--	281	36	35	.3	.3	--	345	230	--	7.7	27.40	1.1	.0
502	Te	1,635	Oct. 2, 1941	12	.3	62	14	51	--	299	32	32	.4	< .4	--	351	212	--	7.9	34.32	1.5	.6
502	Te	1,635	Aug. 14, 1945	13	.7	69	13	26	11.0	266	31	32	.4	.5	--	327	226	573	7.6	19.09	.7	.0
502	Te	1,635	Jan. 8, 1948	17	.8	68	13	37	--	275	33	32	.2	< .4	--	336	223	--	7.5	26.50	1.0	.0
502	Te	1,635	June 30, 1949	14	.6	70	13	41	--	287	35	32	.2	< .4	--	347	228	--	7.6	28.10	1.1	.1
502	Te	1,635	May 23, 1960	--	.9	60	18	27	--	275	28	35	.3	< .4	--	303	225	570	7.4	20.79	.7	.0
502	Te	1,635	Aug. 27, 1963	--	.4	55	13	59	--	284	32	46	.4	< .4	--	345	194	690	7.5	40.22	1.8	.8
502	Te	1,635	Jan. 19, 1965	--	.2	64	11	42	--	278	31	36	.6	< .4	--	322	206	630	7.5	30.83	1.2	.4
502	Te	1,635	Oct. 8, 1965	--	.1	69	15	69	--	281	67	55	.3	< .4	--	413	234	776	7.4	39.09	1.9	.0
502	Te	1,635	Oct. 8, 1965	--	.0	59	12	81	--	282	50	62	.4	< .4	--	403	194	756	7.8	47.26	2.5	.6
502	Te	1,635	Mar. 3, 1967	--	.1	65	13	33	--	273	30	34	.5	< .4	--	310	214	449	7.8	24.97	.9	.1

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
Al-78-04-502	Tc	1,635	Feb. 21, 1969	--	0.0	82	10	23	--	262	35	34	0.4	0.5	--	314	244	620	7.7	16.91	0.6	0.0
503	Tqc	1,150	Aug. 9, 1950	61	35.0	26	10	189	--	270	54	135	.2	< .4	--	643	106	608	8.2	79.50	7.9	2.3
503	Tqc	1,150	Mar. 3, 1967	--	.0	44	24	89	--	301	76	59	.4	< .4	--	440	206	850	7.7	48.14	2.6	.7
503	Tqc	1,150	Feb. 21, 1969	--	.3	81	11	23	--	264	36	33	.4	< .4	--	448	246	--	7.7	16.82	.6	.0
504	Tc	1,800	Mar. 7, 1967	--	.0	79	12	23	--	267	33	34	.4	< .4	--	312	244	448	7.6	16.87	.6	.0
504	Tc	1,800	Aug. 12, 1969	13	--	82	9	22	6.0	267	32	30	.4	< .4	0.2	326	244	553	7.6	16.10	.6	.0
507	Tc	2,007	Dec. 13, 1967	--	.0	87	8	23	--	272	32	36	.4	< .4	--	320	249	640	7.4	16.67	.6	.0
507	Tc	2,007	Feb. 21, 1969	--	--	81	11	23	--	264	36	33	.4	< .4	--	314	--	616	7.7	16.82	.6	.0
507	Tc	2,007	Feb. 8, 1971	--	--	84	9	23	--	271	29	32	.4	< .4	--	310	248	604	7.4	16.86	.6	.0
507	Tc	2,007	June 26, 1972	--	.8	83	9	23	--	270	31	33	.5	< .4	--	313	244	604	7.6	17.00	.6	.0
507	Tc	2,007	May 21, 1974	--	.3	84	8	23	--	264	30	34	.5	< .4	--	444	243	--	8.3	17.10	.6	.0
507	Tc	2,007	Sept. 6, 1975	--	.9	86	7	24	--	268	29	33	.4	2.1	--	449	244	--	7.6	17.66	.6	.0
507	Tc	2,007	Nov. 12, 1975	--	.3	82	8	24	--	266	31	34	.4	< .4	--	445	239	--	8.1	18.01	.6	.0
703	Tc	2,007	Aug. 20, 1964	17	.0	48	12	41	7.7	211	40	39	.3	.2	.2	309	170	522	7.5	33.25	1.3	.0
703	Tc	1,900	Aug. 7, 1969	20	--	35	20	125	9.0	278	73	110	.5	< .4	--	529	172	867	7.8	60.02	4.1	1.1
703	Tc	1,900	July 28, 1977	18	--	72	12	55	--	281	45	52	.4	< .4	--	392	228	651	8.0	34.31	1.5	.0
803	Tc	1,960	Aug. 5, 1964	16	.6	73	11	27	6.8	270	28	28	.5	.0	--	329	227	552	7.2	19.92	.7	.0
803	Tc	1,960	Oct. 8, 1965	--	.1	71	10	29	--	253	26	31	.5	< .4	--	292	218	567	7.6	22.41	.8	.0
803	Tc	1,960	Mar. 3, 1967	--	.0	71	12	29	--	266	28	33	.5	< .4	--	305	226	600	7.7	21.78	.8	.0
803	Tc	1,960	June 26, 1972	--	.6	71	11	30	--	268	26	30	.5	< .4	--	301	222	584	7.6	22.68	.8	.0
803	Tc	1,960	July 14, 1972	16	--	71	11	29	6.0	268	25	30	.3	< .4	--	320	224	512	7.6	21.51	.8	.0
902	Ts	372	Sept. 2, 1970	12	--	49	21	720	6.0	206	840	550	.5	1.5	--	2,301	209	3,400	7.6	87.86	21.6	.0
902	Ts	372	July 29, 1977	16	--	43	16	760	--	177	860	590	.1	< .4	--	2,372	174	3,400	7.4	90.52	25.1	.0
905	Tc	1,900	Mar. 3, 1967	--	.0	67	11	29	--	271	26	30	.5	< .4	--	297	214	584	7.6	22.89	.8	.1
05-103	Tqc	815	Feb. 20, 1928	20	.1	7	4	173	3.0	356	2	90	--	.1	--	474	32	--	--	90.88	12.9	5.1
103	Tqc	815	July 20, 1938	15	.1	10	8	176	--	360	6	99	.5	< .3	--	491	60	--	8.0	86.87	10.0	4.7
103	Tqc	815	July 20, 1938	14	.1	10	8	176	--	360	5	99	.5	< .3	--	489	59	--	7.7	86.87	10.0	4.7
103	Tqc	815	Mar. 12, 1941	14	.1	8	4	189	--	378	2	96	< .4	< .4	--	499	37	--	7.9	91.86	13.6	5.4
103	Tqc	815	Aug. 14, 1945	15	.1	8	4	175	6.3	330	1	94	.2	.0	--	465	35	838	8.0	89.54	12.6	4.6
103	Tqc	815	Feb. 28, 1948	12	.1	8	4	181	--	354	5	96	.6	< .4	--	481	37	--	8.0	91.53	13.0	5.0
103	Tqc	815	Aug. 14, 1948	--	--	--	--	--	--	--	--	96	--	--	--	--	--	--	--	--	--	--
103	Tqc	815	May 1, 1953	17	.2	12	4	189	--	348	32	96	.3	< .4	--	522	47	--	8.0	89.86	12.0	4.7

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhosms at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
AL-78-05-103	Tqc	815	Sept. 8, 1964	--	< 0.02	7	3	184	--	355	<	3	99	0.5	< 0.4	472	31	872	8.0	93.06	14.6	5.2
104	Tc	1,700	Nov. 13, 1956	--	1.6	51	27	26	--	260	54	32	32	.2	< .4	318	242	--	7.0	19.18	.7	.0
104	Tc	1,700	July 31, 1963	15	.5	80	8	28	5.6	255	38	34	34	.3	0.1	334	231	553	6.7	20.26	.7	.0
104	Tc	1,700	Jan. 13, 1966	--	.3	38	8	26	--	160	5	36	36	.2	< .4	192	126	386	8.1	30.69	1.0	.0
104	Tc	1,700	Apr. 4, 1969	--	3.2	68	11	30	--	256	24	29	29	.4	< .4	280	214	580	7.7	23.29	.8	.0
104	Tc	1,700	Sept. 22, 1969	16	--	79	11	26	5.0	259	38	33	33	.4	< .4	336	242	569	7.8	18.52	.7	.0
104	Tc	1,700	July 14, 1972	15	.5	80	9	28	5.0	260	38	32	32	.3	< .4	336	236	538	7.4	20.03	.7	.0
105	Tqc	814	Feb. 28, 1948	12	.1	10	5	178	--	360	3	96	96	.7	< .1	481	46	--	7.9	89.48	11.4	4.9
105	Tqc	814	May 4, 1953	28	.3	12	4	184	--	360	16	96	96	.3	< .4	518	47	--	7.9	89.61	11.7	4.9
105	Tqc	814	Mar. 4, 1962	--	.0	7	4	184	--	342	1	100	100	.4	< .4	464	35	850	8.0	92.18	13.7	4.9
105	Tqc	814	Jan. 11, 1966	--	.02	11	6	193	--	346	24	115	115	.6	< .4	520	51	990	8.3	88.95	11.6	4.6
105	Tqc	814	Nov. 9, 1967	--	.0	10	6	194	--	357	12	114	114	.5	< .4	513	48	975	7.9	89.47	11.9	4.8
107	Tqc	810	Mar. 4, 1962	--	.1	6	4	186	--	344	2	98	98	.4	< .4	465	32	854	8.0	92.79	14.4	5.0
107	Tqc	810	Oct. 9, 1963	--	.4	7	3	136	--	364	5	104	104	.4	< .4	434	31	932	8.2	90.84	10.8	5.3
107	Tqc	810	Jan. 11, 1966	--	.4	7	4	188	--	354	4	102	102	.5	< .4	480	36	900	8.0	92.34	14.0	5.1
107	Tqc	810	Nov. 9, 1967	--	.2	10	5	188	--	361	9	111	111	.5	< .4	502	48	955	7.6	89.98	12.1	5.0
107	Tqc	810	Sept. 22, 1969	15	--	8	4	188	4.0	359	7	105	105	.5	< .4	508	35	849	7.4	90.78	13.5	5.1
409	Tqc	800	Mar. 4, 1962	--	.0	7	4	186	--	346	0	102	102	.4	< .4	469	34	860	8.0	92.26	13.8	4.9
409	Tqc	800	Jan. 13, 1966	--	.0	8	4	185	--	357	4	99	99	.4	< .4	476	36	896	8.3	91.70	13.3	5.1
409	Tqc	800	Nov. 9, 1967	--	.0	8	5	183	--	362	7	102	102	.5	< .4	484	40	920	8.0	90.76	12.5	5.1
409	Tqc	800	Apr. 22, 1969	--	.0	8	4	186	--	365	5	103	103	.5	< .4	486	39	942	8.3	91.74	13.4	5.2
501	Tc	1,943	May 9, 1944	--	.2	--	--	--	--	278	24	30	30	--	--	--	216	--	--	--	--	--
501	Tc	1,943	Sept. 7, 1977	12	--	27	8	1,098	--	1,158	250	976	976	.8	1.3	2,942	98	4,480	8.2	95.97	47.7	16.9
06-802	Tc	3,900	Oct. 17, 1969	26	--	8	2	231	4.0	426	93	66	66	.7	< .4	640	30	1,023	8.0	93.78	18.9	6.4
802	Tc	3,900	Sept. 8, 1977	22	--	17	4	171	7.0	362	77	50	50	.5	< .4	526	61	810	8.1	84.57	9.6	4.7
10-305	Twl	3,500	Nov. 5, 1969	21	--	3	2	590	3.0	870	219	272	272	1.8	< .4	1,559	14	2,390	8.3	98.50	64.7	13.9
305	Twl	3,500	July 28, 1977	27	--	4	1	620	--	880	227	265	265	1.6	2.2	1,580	10	2,375	8.3	98.96	71.8	14.1
606	Tc	1,937	Aug. 13, 1969	17	--	61	12	31	7.0	240	41	23	23	.6	< .4	311	203	516	7.6	24.26	.9	.0
606	Tc	1,937	June 10, 1977	21	--	76	9	31	--	272	38	24	24	.5	< .4	333	229	560	7.7	22.92	.8	.0
11-101	Tc	1,869	Feb. 18, 1960	--	.7	68	14	29	--	270	43	32	32	.5	< .4	351	230	585	7.4	21.72	.8	.0
101	Tc	1,869	Mar. 17, 1961	--	.8	70	16	35	--	268	42	25	25	.4	< .4	364	240	607	7.0	24.04	.9	.0
101	Tc	1,869	Aug. 13, 1962	--	.6	68	15	34	--	270	47	16	16	.5	< .4	452	233	636	7.3	24.22	.9	.0
101	Tc	1,869	Aug. 5, 1964	15	.5	72	13	31	7.5	276	44	30	30	.3	.2	349	233	591	7.3	21.74	.8	.0

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Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Ni-trace (Ni)	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
AJ-7B-11-101	Tc	1,869	Dec. 17, 1964	--	0.3	73	12	33	--	271	44	30	0.7 < .4	--	--	464	232	633	7.3	23.66	0.9	0.0
101	Tc	1,869	Jan. 31, 1966	--	.5	76	11	32	--	270	41	30	.5 < .4	--	--	461	235	615	7.5	22.86	.9	.0
101	Tc	1,869	Feb. 1, 1967	--	.4	72	13	31	--	273	45	32	.5 < .4	--	--	467	234	--	7.4	22.43	.8	.0
101	Tc	1,869	Feb. 16, 1968	--	.6	75	12	33	--	276	44	32	.5 < .4	--	--	473	235	648	7.6	23.28	.9	.0
101	Tc	1,869	May 26, 1969	--	.5	74	11	33	--	271	38	31	.5 < .4	--	--	460	233	624	7.7	23.79	.9	.0
101	Tc	1,869	Oct. 28, 1969	12	.9	74	13	32	7.0	272	42	29	.5 < .4	--	--	332	238	570	7.7	21.98	.9	.0
101	Tc	1,869	Apr. 15, 1970	--	1.4	75	12	31	5.0	279	49	27	.6 < .4	--	--	332	237	628	7.8	21.73	.8	.0
101	Tc	1,869	July 25, 1973	15	--	74	13	34	5.0	275	48	31	.6 < .4	--	--	356	240	575	7.6	23.22	.9	.0
101	Tc	1,869	July 22, 1974	15	.6	90	2	32	6.0	262	41	31	.6 < .4	--	0.2	347	232	560	7.9	22.44	.9	.0
101	Tc	1,869	Nov. 12, 1974	--	.4	75	11	32	--	271	46	34	.6 < .4	--	--	477	233	--	7.7	23.04	.9	.0
101	Tc	1,869	June 19, 1975	15	--	78	9	32	--	275	40	31	.6 < .4	--	--	341	234	585	7.9	23.10	.9	.0
101	Tc	1,869	July 21, 1976	15	--	76	11	33	--	276	41	31	.4 < .4	--	--	343	237	580	7.8	23.40	.9	.0
101	Tc	1,869	June 10, 1977	20	--	78	11	33	--	275	42	30	.5 < .4	--	--	350	239	577	7.7	23.03	.9	.0
201	Tc	1,900	Oct. 5, 1949	15	.4	85	13	29	--	278	48	36	.4 < .4	--	--	363	266	--	7.4	19.19	.7	.0
201	Tc	1,900	Feb. 18, 1960	--	1.4	72	15	28	--	268	42	33	.5 < .4	--	--	323	243	590	7.4	20.15	.7	.0
201	Tc	1,900	Aug. 16, 1963	--	4.5	164	65	182	--	238	465	266	.7 < .4	--	--	1,260	675	2,431	7.4	36.91	3.0	.0
201	Tc	1,900	Dec. 23, 1964	--	.4	343	120	399	--	184	1,110	620	.9 < .4	--	--	2,683	1,350	5,358	7.2	39.14	4.7	.0
207	Tc	1,993	Sept. 3, 1965	--	.4	72	12	37	--	275	48	32	.6 < .4	--	--	337	231	639	7.5	26.00	1.0	.0
207	Tc	1,993	Jan. 31, 1966	--	2.4	70	13	38	--	282	32	31	.4 < .4	--	--	323	228	615	7.7	26.59	1.0	.0
207	Tc	1,993	Feb. 1, 1967	--	1.5	44	16	38	--	244	9	33	.4 < .4	--	--	258	167	507	7.9	33.06	1.2	.6
207	Tc	1,993	Feb. 16, 1968	--	.8	71	13	37	--	277	48	32	.5 < .4	--	--	338	231	660	7.6	25.86	1.0	.0
207	Tc	1,993	May 26, 1969	--	.4	75	12	34	--	275	34	31	.4 < .4	--	--	461	235	628	7.7	23.82	.9	.0
207	Tc	1,993	Oct. 28, 1969	13	.9	72	13	36	7.0	275	47	31	.5 < .4	--	--	364	236	579	7.7	24.44	1.0	.0
207	Tc	1,993	Apr. 15, 1970	--	.0	73	12	40	--	272	51	29	.6	--	--	478	233	640	7.7	27.31	1.1	.0
207	Tc	1,993	Aug. 15, 1972	--	.2	73	13	37	--	275	45	33	.6 < .4	--	--	477	237	--	7.4	25.46	1.0	.0
309	Tqc	1,001	Sept. 2, 1977	16	--	46	24	189	11.0	262	98	233	.3 < .4	--	--	746	214	1,250	8.5	64.37	5.6	.0
12-502	Tc	2,610	May 26, 1976	12	--	60	13	45	10.0	267	41	35	.5 < .4	--	--	348	203	577	8.3	31.18	1.3	.3
502	Tc	2,610	May 26, 1976	15	--	67	11	50	--	270	54	38	.5 < .4	--	--	368	214	624	7.9	33.86	1.4	.1
502	Tc	2,610	May 26, 1976	14	--	67	12	55	--	276	53	42	.5 < .4	--	--	379	217	640	7.7	35.58	1.6	.1
502	Tc	2,610	May 26, 1976	16	--	66	11	58	10.0	277	58	44	.5 < .4	--	--	400	211	654	7.7	36.16	1.7	.3
502	Tc	2,610	May 26, 1976	15	--	64	12	67	10.0	282	64	50	.5 < .4	--	--	421	211	686	7.7	39.64	2.0	.4
502	Tc	2,610	May 26, 1976	15	--	66	11	67	--	279	60	50	.5 < .4	--	--	407	210	686	7.7	40.97	2.0	.3
504	Tcm	160	May 27, 1976	18	8.6	620	79	474	--	203	2,080	383	.4 < .4	--	--	3,763	1,870	4,200	7.5	35.51	4.7	.0

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Ferrous iron	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
Al-78-12-602	Ts	614	May 27, 1976	10	--	20	6	730	--	173	800	500	0.2	< 0.4	--	2,131	73	3,210	8.8	95.51	36.7	1.3
13-702	Tqc	1,717	Aug. 5, 1964	18	0.1	25	--	264	1.5	504	83	66	.6	.0	0.4	705	7	1,120	8.2	--	--	--
702	Tqc	1,717	Aug. 31, 1970	18	--	2	3	260	1.0	500	83	66	.5	.4	--	679	18	1,072	8.3	96.81	27.1	7.8
702	Tqc	1,717	June 14, 1977	18	--	4	1	263	--	476	83	66	.6	.4	--	670	13	1,084	8.6	97.59	30.4	7.5
14-302	Tc	3,400	Nov. 14, 1969	19	--	8	3	149	4.0	337	47	28	.4	.4	--	424	36	683	8.5	89.65	11.4	4.8
302	Tc	3,400	July 25, 1973	22	--	4	4	173	1.0	356	65	32	.5	.4	--	476	25	740	7.8	93.14	14.6	5.3
302	Tc	3,400	July 23, 1974	22	--	7	3	174	--	373	53	32	.5	.4	--	475	27	750	8.2	92.70	13.8	5.5
302	Tc	3,400	June 20, 1975	23	--	5	1	177	--	362	53	33	.4	.4	--	470	15	745	8.0	95.86	18.9	5.6
302	Tc	3,400	July 21, 1976	24	--	8	1	176	--	387	48	33	.4	.4	--	481	23	759	8.1	94.08	15.6	5.8
302	Tc	3,400	June 14, 1977	23	--	10	3	173	--	377	58	32	.4	.4	--	485	39	755	8.1	90.98	12.3	5.4
15-504	Tc	4,326	Aug. 26, 1963	33	--	3	--	216	--	468	46	32	.6	.0	--	559	8	969	7.6	--	--	--
504	Tc	4,326	Nov. 7, 1969	29	--	2	2	217	2.0	450	52	53	.6	.4	--	579	15	922	8.0	96.76	25.9	7.1
504	Tc	4,326	June 14, 1977	34	--	4	1	230	--	443	64	56	.5	.4	--	605	10	927	8.1	97.26	26.6	6.9
805	Tc	4,359	June 24, 1968	29	.4	2	1	235	--	451	15	35	.4	.7	--	560	7	955	8.6	98.25	33.8	7.2
805	Tc	4,359	Mar. 3, 1969	--	.2	3	2	228	--	451	23	62	.4	.4	--	559	17	--	8.7	96.93	25.0	7.0
805	Tc	4,359	Nov. 13, 1969	30	.2	2	2	225	2.0	438	65	60	.6	.4	--	602	12	950	7.8	96.87	26.9	6.9
805	Tc	4,359	May 12, 1971	--	.0	3	1	233	--	461	38	62	.6	.4	--	579	11	--	8.7	97.76	29.7	7.3
805	Tc	4,359	May 10, 1972	--	.1	2	2	238	--	475	42	64	.6	1.5	--	593	12	--	8.6	97.51	28.4	7.5
805	Tc	4,359	June 14, 1973	--	.1	2	2	239	--	466	43	64	.7	1.0	--	830	12	--	8.6	97.52	28.6	7.3
805	Tc	4,359	June 15, 1974	--	--	3	1	242	--	464	50	64	.7	1.1	--	860	9	--	8.6	97.86	30.9	7.3
805	Tc	4,359	July 25, 1974	--	.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
805	Tc	4,359	July 7, 1975	--	.0	3	1	242	--	460	42	62	.7	1.3	--	820	9	--	8.6	97.84	30.9	7.3
805	Tc	4,359	Aug. 2, 1976	--	.1	4	1	242	--	464	23	64	.6	1.5	--	830	9	--	8.9	97.39	28.0	7.3
805	Tc	4,359	Sept. 16, 1976	--	.1	4	1	249	--	481	37	64	.6	.2	--	600	10	--	8.7	97.46	28.8	7.6
18-201	Ts	480	June 19, 1932	--	--	9	0	639	--	324	547	412	--	2.7	--	1,699	28	--	--	98.61	58.6	4.8
201	Ts	480	Aug. 31, 1970	13	--	11	7	530	1.0	306	456	365	.6	.4	--	1,534	57	2,400	7.6	95.24	30.7	3.8
201	Ts	480	June 10, 1977	16	--	16	3	560	--	312	479	365	.4	3.1	--	1,595	53	2,450	8.1	95.88	33.7	4.0
601	Tc	2,507	Aug. 18, 1964	19	.4	25	9	88	6.2	286	45	15	.3	.0	0.2	348	101	560	7.3	64.07	3.8	2.6
601	Tc	2,507	Aug. 6, 1969	19	--	25	9	91	6.0	287	47	16	.6	.4	--	355	99	552	7.9	64.89	3.9	2.7
601	Tc	2,507	July 25, 1973	20	.3	38	9	97	4.0	336	50	17	.5	.4	.2	401	133	622	8.3	60.64	3.6	2.8
601	Tc	2,507	July 24, 1974	21	--	26	8	95	--	283	46	17	.5	.2	--	352	100	562	7.9	67.88	4.1	2.6
601	Tc	2,507	June 23, 1975	20	--	27	7	98	--	296	47	18	.5	.4	--	363	96	589	7.7	68.91	4.3	2.9

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Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
AL-78-18-601	Tc	2,507	June 10, 1977	24	--	25	8	95	--	292	45	16	0.6	< 0.4	--	357	96	567	7.9	68.44	4.2	2.8
20-301	Tc	2,975	Aug. 12, 1969	21	--	22	10	88	7.0	273	48	19	.5	< .4	0.1	350	97	560	7.9	64.58	3.9	2.5
301	Tc	2,975	July 23, 1974	20	--	30	9	84	--	272	47	18	.4	.2	--	342	110	550	8.1	62.02	3.4	2.2
301	Tc	2,975	June 23, 1975	21	--	30	9	79	--	268	46	18	.4	< .4	--	335	113	550	7.8	60.37	3.2	2.1
301	Tc	2,975	July 22, 1976	19	--	29	10	79	--	270	44	18	.3	< .4	--	332	114	543	7.8	60.22	3.2	2.1
301	Tc	2,975	June 13, 1977	19	--	30	10	80	--	275	45	17	.3	< .4	--	336	117	560	7.9	60.00	3.2	2.1
801	Tqc	2,300	Mar. 23, 1959	22	--	2	--	384	--	718	106	79	1.0	< .0	--	965	7	1,540	8.5	--	--	--
801	Tqc	2,300	Nov. 26, 1962	20	0.1	3	0	380	--	744	104	80	.9	.0	--	953	7	1,510	8.0	99.10	60.4	12.0
801	Tqc	2,300	June 23, 1977	20	--	3	1	368	--	675	101	75	.8	< .4	--	901	9	1,460	8.9	98.37	47.0	10.8
22-201	Tc	4,015	Nov. 7, 1969	27	--	3	1	233	2.0	476	52	48	.5	< .4	--	600	12	927	7.9	97.28	29.7	7.5
201	Tc	4,015	July 14, 1972	28	--	3	2	228	2.0	484	47	49	.6	< .4	.3	598	16	900	8.2	96.44	25.0	7.6
201	Tc	4,015	July 23, 1974	27	--	2	1	252	--	540	39	51	.8	.2	--	638	10	1,040	8.0	98.36	36.3	8.6
201	Tc	4,015	June 24, 1975	29	.1	4	1	206	--	411	55	47	.6	< .4	--	545	11	850	8.2	96.95	23.8	6.4
201	Tc	4,015	July 22, 1976	29	--	3	1	213	--	420	54	47	.5	< .4	--	554	9	850	8.3	97.55	27.2	6.6
201	Tc	4,015	June 14, 1977	30	--	3	1	202	--	397	58	44	.5	< .4	--	534	9	834	8.4	97.42	25.8	6.2

BEXAR COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25 °C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
AY-68-45-502	Tv1	100	Feb. 10, 1970	21	--	130	15	57	2.0	479	35	45	0.5	17.0	--	558	387	890	7.4	24.18	1.2	0.1
502	Tv1	100	Aug. 15, 1977	20	--	135	7	48	--	450	19	56	.3	< .4	--	506	365	842	7.8	22.21	1.0	.0
46-302	Tv1	258	July 20, 1977	19	--	90	48	540	--	490	640	390	.2	.9	--	1,969	423	2,840	8.0	73.37	11.4	.0
702	Tv1	500	Aug. 10, 1970	21	0.3	84	27	213	6.0	292	328	157	.8	< .4	--	981	320	1,490	7.9	58.32	5.1	.0
702	Tv1	500	Mar. 9, 1972	--	.0	77	25	213	--	298	317	146	.8	< .4	--	1,080	295	--	7.9	61.10	5.3	.0
702	Tv1	500	June 28, 1973	--	.2	75	27	212	--	301	304	138	1.0	2.5	--	1,060	298	--	7.6	60.73	5.3	.0
702	Tv1	500	Sept. 1, 1974	--	.3	78	23	196	--	307	278	141	.8	2.5	--	1,040	291	--	7.8	59.38	5.0	.0
702	Tv1	500	Mar. 1, 1976	--	.1	77	26	199	--	309	269	140	.6	< .4	--	1,020	297	--	8.1	59.14	5.0	.0
702	Tv1	500	July 20, 1977	22	--	76	23	201	--	310	271	132	.7	< .4	--	878	284	1,350	8.0	60.60	5.1	.0
702	Tv1	500	July 27, 1977	28	--	78	22	206	--	310	278	131	.7	< .4	--	896	285	1,350	8.2	61.11	5.3	.0
52-405	Tv1	408	Feb. 10, 1970	20	1.3	70	21	46	10.0	289	49	62	1.1	< .4	--	422	262	685	7.4	26.76	1.2	.0
405	Tv1	408	July 26, 1977	26	--	73	15	42	--	276	43	46	.8	< .4	--	381	243	630	7.9	27.25	1.1	.0
53-809	Tc	446	Aug. 22, 1977	32	--	9	2	20	6.0	16	13	38	.1	< .4	--	128	30	190	6.4	53.14	1.5	.0

CALDWELL COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhms at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
BU-67-19-306	Twi	330	Jan. 8, 1964	4.3	10.0	142	31	92	5.3	240	190	212	0.8	0.0	--	844	482	1,370	6.7	29.05	1.8	0.0
			Jan. 14, 1970	35	--	126	30	106	4.0	290	180	177	.6	< .4	--	801	440	1,250	7.6	34.23	2.2	.0
306	Twi	330	Aug. 17, 1977	32	--	87	24	135	7.0	318	194	117	.2	< .4	--	752	315	1,150	7.9	47.48	3.3	.0
20-802	Twi	200	Jan. 23, 1964	30	--	16	14	41	--	80	23	68	.1	.2	--	231	98	399	6.2	47.77	1.8	.0
			July 29, 1977	66	--	132	29	52	--	142	315	88	.7	< .4	--	752	447	1,039	7.1	20.13	1.0	.0

DIMIT COUNTY

Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhm/cm at 25°C)	pH	Percent sodium (SAR)	Residual sodium carbonate (RSC)		
H2-76-48-401	Tb1	243	July 21, 1960	13	--	156	61	2,120	--	174	1,180	2,750	0.4	--	--	6,365	640	9,800	6.9	87.81	36.4	0.0	
401	Tb1	243	July 7, 1977	16	--	118	32	1,280	--	214	860	1,570	.4	5.3	--	3,986	427	5,800	7.8	86.72	26.9	.0	
801	Tc	55	Feb. 11, 1965	52	--	138	21	104	--	221	130	195	.9	81.0	--	830	430	1,300	7.0	34.43	2.1	.0	
801	Tc	55	July 19, 1972	57	0.0	178	29	124	6.0	265	163	249	.8	120.0	--	1,057	560	1,550	7.1	32.07	2.2	.0	
801	Tc	55	July 11, 1973	55	.0	199	34	148	4.0	278	193	288	1.1	183.0	0.7	1,242	640	1,840	7.2	33.41	2.5	.0	
801	Tc	55	July 17, 1974	51	--	130	16	97	--	270	119	170	.9	14.0	--	730	391	1,116	7.3	35.09	2.1	.0	
801	Tc	55	July 23, 1975	53	--	134	15	93	--	273	124	170	.9	17.0	--	741	396	1,100	7.3	33.80	2.0	.0	
801	Tc	55	July 20, 1976	50	--	192	28	125	--	260	148	253	.8	161.0	--	1,085	590	1,660	7.6	31.39	2.2	.0	
801	Tc	55	July 7, 1977	53	--	164	22	105	7.0	239	143	215	.9	114.9	--	932	500	1,470	7.6	30.98	2.0	.0	
77-18-704	Tc	1,041	July 24, 1930	21	.0	44	14	59	3.0	267	37	28	--	.1	--	337	167	--	--	42.84	1.9	1.0	
704	Tc	1,041	Nov. 29, 1938	--	--	--	--	--	--	310	92	108	.3	.2	--	--	69	--	--	--	--	--	--
704	Tc	1,041	Dec. 28, 1948	19	--	45	14	55	--	260	38	26	--	.0	--	324	170	537	--	41.32	1.8	.8	
704	Tc	1,041	Mar. 13, 1969	22	--	44	11	66	4.0	264	34	31	.4	.4	.2	342	155	548	7.7	47.27	2.3	1.2	
704	Tc	1,041	July 17, 1974	19	--	42	7	182	--	296	69	158	.7	.2	--	623	133	1,035	7.9	74.77	6.8	2.1	
704	Tc	1,041	July 22, 1975	20	--	46	9	97	--	279	42	66	.5	.4	--	418	150	688	7.9	58.15	3.4	1.5	
704	Tc	1,041	July 28, 1976	22	--	42	10	102	--	273	48	70	.4	.4	--	429	148	697	7.9	60.32	3.6	1.5	
704	Tc	1,041	July 8, 1977	21	--	42	10	113	--	275	54	85	.4	.4	--	461	148	769	7.9	62.74	4.0	1.5	
904	Tc	1,273	June 26, 1969	22	--	58	13	67	4.0	295	60	36	.5	.4	--	405	199	647	7.6	41.75	2.0	.8	
904	Tc	1,273	July 8, 1977	21	--	32	9	118	4.0	304	59	52	.5	.4	--	445	116	708	8.0	67.78	4.7	2.6	
25-205	Tc	325	July 7, 1977	14	--	35	22	138	--	168	188	112	.6	1.4	--	593	180	974	7.3	62.80	4.5	.0	
26-711	Tc	350	Aug. 31, 1960	--	.1	26	8	114	--	282	76	41	.2	.4	--	404	98	669	7.9	71.72	5.0	2.6	
711	Tc	350	Sept. 19, 1962	--	.1	16	5	138	--	288	55	60	.3	.4	--	416	62	732	8.0	83.22	7.7	3.5	
711	Tc	350	June 19, 1963	--	.2	15	5	128	--	285	49	43	.5	.4	--	381	57	702	8.2	82.76	7.3	3.5	
711	Tc	350	Mar. 14, 1968	--	2.2	16	5	159	--	301	61	69	.4	.4	--	438	62	855	7.8	85.11	8.8	3.7	
805	Tc	450	Mar. 14, 1968	--	.2	20	6	118	--	278	46	39	.4	.4	--	366	74	684	7.6	77.48	5.9	3.0	
805	Tc	450	July 7, 1977	20	--	27	9	115	--	265	71	48	.4	.4	--	421	103	675	7.9	70.55	4.8	2.2	
815	Tc	510	Apr. 7, 1975	--	.0	32	8	176	--	270	119	115	.6	.4	--	720	114	1,136	8.0	77.24	7.2	2.1	
27-112	Tc	1,069	July 30, 1968	20	--	54	12	65	--	298	47	30	.4	.4	--	375	184	630	7.6	43.44	2.0	1.2	
112	Tc	1,069	July 3, 1969	26	--	46	16	64	4.0	293	48	31	.5	.4	.2	380	180	605	7.6	42.84	2.0	1.1	
112	Tc	1,069	Aug. 2, 1977	19	--	36	10	83	--	284	42	32	.5	.4	--	362	131	572	8.1	57.95	3.1	2.0	
302	Tc	1,333	June 26, 1969	20	--	52	8	87	5.0	298	69	37	.6	.4	--	425	165	665	7.8	52.81	2.9	1.6	
302	Tc	1,333	July 8, 1977	21	--	46	11	104	5.0	296	75	58	.5	.4	--	466	163	746	8.2	57.61	3.5	1.6	
709	Tb	99	Dec. 12, 1974	36	--	309	42	288	2.0	378	880	241	5.4	5.4	--	1,994	950	2,450	7.6	39.83	4.0	.0	

DIPMUIT COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
HZ-77-28-503	Tc	1,500	July 13, 1964	--	1.1	20	8	124	--	304	55	32	0.6	< 0.4	--	540	81	726	7.9	76.51	5.9	3.3	
503	Tc	1,500	Apr. 11, 1969	20	.4	20	8	119	5.0	307	54	34	.6	< .4	0.3	412	85	684	7.8	74.37	5.6	3.3	
601	Tc	1,700	July 12, 1973	16	--	21	9	131	2.0	303	63	52	.6	< .4	--	443	91	720	7.8	75.60	6.0	3.1	
601	Tc	1,700	July 17, 1974	17	--	14	4	200	--	325	99	82	.7	< .4	--	576	51	916	8.0	89.43	12.1	4.2	
601	Tc	1,700	July 24, 1975	17	--	27	6	130	--	305	66	47	.6	< .4	--	443	91	715	8.1	75.44	5.8	3.1	
601	Tc	1,700	July 21, 1976	19	--	24	7	131	--	305	63	47	.5	< .4	--	441	90	715	8.1	76.26	6.0	3.2	
601	Tc	1,700	July 6, 1977	20	--	23	7	138	4.0	306	73	48	.5	< .4	--	464	85	735	8.2	76.68	6.4	3.2	
33-701	Tb-Tc	300	July 23, 1975	40	--	79	12	92	--	253	62	122	.6	18.0	--	550	248	874	7.4	44.81	2.5	.0	
701	Tb-Tc	300	July 20, 1976	45	--	75	14	90	6.0	250	52	120	.5	36.0	--	561	246	870	7.3	43.68	2.5	.0	
701	Tb-Tc	300	July 7, 1977	13	--	74	14	88	--	252	52	116	.6	19.4	--	500	242	875	7.4	44.14	2.4	.0	
809	Tc-Twl	525	Aug. 3, 1977	45	--	80	11	84	--	221	81	114	.3	5.0	--	528	248	827	7.8	42.73	2.3	.0	
34-204	Tc	670	Dec. 7, 1938	--	--	--	--	--	--	290	172	190	--	.0	--	--	87	--	--	--	--	--	--
204	Tc	670	Mar. 22, 1957	--	--	--	--	--	--	--	--	136	--	--	--	--	--	1,130	--	--	--	--	--
204	Tc	670	Feb. 6, 1969	16	.2	33	9	227	4.0	281	155	166	.7	< .4	.6	750	121	1,190	7.8	79.86	9.0	2.2	
204	Tc	670	Aug. 2, 1977	14	--	15	3	230	--	255	116	167	.7	< .4	--	671	52	1,080	8.2	90.95	14.1	3.1	
408	Tc	610	Mar. 12, 1969	34	--	73	13	159	5.0	292	199	103	.7	< .4	.7	731	237	1,094	7.6	58.83	4.5	.0	
408	Tc	610	Aug. 3, 1977	40	--	64	6	150	--	288	144	95	.6	< .4	--	641	185	968	7.9	63.89	4.8	1.0	
604	Tc	850	July 11, 1973	11	--	280	153	2,090	14.0	96	1,310	3,100	1.2	3.5	--	7,009	1,330	9,200	6.8	77.15	24.9	.0	
604	Tc	850	July 17, 1974	16	--	75	18	425	--	229	317	479	.6	< .4	--	1,443	262	2,260	7.4	77.97	11.4	.0	
604	Tc	850	July 24, 1975	7	--	188	58	1,270	--	138	880	1,760	.8	< .4	--	4,232	710	5,650	7.5	79.60	20.7	.0	
604	Tc	850	July 20, 1976	5	--	25	9	560	--	144	175	710	.4	< .4	--	1,555	101	2,700	8.0	92.45	24.4	.3	
604	Tc	850	Aug. 3, 1977	3	--	10	3	365	--	133	161	396	.4	< .4	--	1,004	38	1,750	8.1	95.51	26.0	1.4	
35-403	Tc	706	Apr. 4, 1969	17	--	42	13	261	5.0	231	182	245	.6	< .4	--	879	159	1,470	7.6	77.51	9.0	.6	
403	Tc	706	Aug. 3, 1977	23	--	48	9	209	--	231	172	174	.4	< .4	--	749	157	1,160	7.9	74.35	7.2	.6	
601	Tc	1,050	Aug. 4, 1977	14	--	29	11	1,112	--	450	587	1,109	1.5	< .4	--	3,085	118	4,610	8.0	95.36	44.6	5.0	
37-102	Tc	1,768	Apr. 10, 1969	20	--	12	6	147	3.0	282	73	59	.5	< .4	.3	459	56	761	7.9	84.54	8.6	3.5	
102	Tc	1,768	July 6, 1977	19	--	13	5	150	3.0	282	74	60	.4	< .4	--	463	53	745	7.9	85.16	8.9	3.5	
106	Tb	970	Dec. 12, 1974	13	--	4	2	850	--	1,010	296	520	3.0	3.4	--	2,188	19	3,250	8.5	99.02	86.6	16.1	
106	Tb	970	July 24, 1975	14	--	5	2	850	--	1,020	275	520	4.2	< .4	--	2,172	20	2,890	8.3	98.89	81.2	16.3	
106	Tb	970	July 27, 1976	13	--	5	1	860	--	1,010	288	520	3.8	< .4	--	2,187	17	3,360	8.5	99.12	91.8	16.2	
106	Tb	970	July 6, 1977	13	--	4	2	870	--	980	291	520	.4	< .4	--	2,182	16	3,420	8.5	99.04	88.7	15.6	
41-401	Tc-Twl	375	Feb. 10, 1965	43	--	99	18	247	--	250	254	281	.7	< .4	.6	1,066	322	1,700	7.4	62.59	5.9	.0	

DIMIT COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Barium (B)	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium (SAR)	Residual sodium carbonate (RSC)
H2-77-41-401	Tc-Tw1	375	Aug. 3, 1977	29	--	71	17	257	--	200	194	322	0.5	< .4	--	247	1,620	8.0	69.35	0.0
42-801	Tc	1,374	Mar. 19, 1930	46	0.2	22	10	201	8.8	248	243	71	--	.3	--	96	--	--	80.29	2.1
801	Tc	1,374	Mar. 14, 1957	--	--	--	--	--	--	--	--	5,150	--	--	--	--	16,100	--	--	--
801	Tc	1,374	Mar. 26, 1957	--	--	--	--	--	--	--	--	73	--	--	--	--	1,090	--	--	--
801	Tc	1,374	July 24, 1975	19	--	37	7	190	--	230	232	72	.6	< .4	--	122	1,053	7.7	77.33	1.6
801	Tc	1,374	July 20, 1976	20	--	34	9	191	--	249	228	72	.4	< .4	--	121	1,044	7.9	77.32	1.6
801	Tc	1,374	Aug. 3, 1977	23	--	35	7	190	--	249	230	71	.4	< .4	--	117	1,014	8.2	78.06	1.7
44-101	Tc	1,200	May 26, 1971	15	--	8	3	288	1.0	349	112	185	.8	< .4	--	32	1,260	8.4	94.91	5.0
101	Tc	1,200	Aug. 3, 1977	19	--	10	2	212	--	249	120	118	.5	< .4	--	35	977	8.5	93.28	3.4
102	Tb-Tc	1,334	Mar. 22, 1950	25	.1	25	24	496	--	230	301	511	.5	< .4	--	161	--	7.6	87.00	.8
102	Tb-Tc	1,334	Feb. 6, 1959	--	.4	24	9	323	--	232	174	328	.3	< .4	--	98	1,970	7.8	87.88	1.8
102	Tb-Tc	1,334	Apr. 9, 1969	16	.1	29	13	468	4.0	244	237	1,500	.6	< .4	0.8	127	2,350	8.1	88.60	1.4
102	Tb-Tc	1,334	May 26, 1971	15	--	40	17	630	2.0	244	330	760	.6	< .4	--	168	2,900	8.1	88.83	.6
102	Tb-Tc	1,334	May 13, 1972	--	.0	37	11	610	--	243	294	690	.6	1.5	--	140	--	8.1	90.60	1.2
502	Tc	1,988	Aug. 3, 1977	18	--	3	1	245	--	272	122	142	.5	< .4	--	12	1,075	8.2	97.87	4.2

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Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness (CaCO <sub>3</sub> )	Specific conductance (micro-mhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
KB-68-57-619	Tc	416	July 14, 1969	33	--	44	5	37	5.0	105	38	60	0.3	< 0.4	--	274	128	443	7.1	37.04	1.4	0.0
619	Tc	416	July 13, 1972	34	--	60	6	49	5.0	126	61	82	.2	< .4	0.1	359	173	567	6.7	37.09	1.6	.0
619	Tc	416	July 18, 1973	29	0.7	48	5	36	2.0	122	30	61	.3	1.3	.1	273	141	450	7.1	35.40	1.3	.0
619	Tc	416	July 30, 1974	31	--	54	4	46	--	110	56	79	.3	1.3	--	325	153	536	7.3	39.82	1.6	.0
619	Tc	416	June 17, 1975	33	--	47	3	38	--	94	37	68	.3	3.0	--	275	131	464	6.9	38.93	1.4	.0
619	Tc	416	Aug. 2, 1976	32	--	48	3	37	--	96	37	70	.1	2.3	--	276	133	464	7.1	37.85	1.4	.0
619	Tc	416	June 2, 1977	38	--	49	3	40	--	105	36	70	.2	1.2	--	289	136	475	7.0	39.26	1.4	.0
58-506	Tc	636	July 17, 1969	25	--	78	5	49	5.0	162	50	97	.3	< .4	--	389	215	664	7.1	32.47	1.4	.0
506	Tc	636	Aug. 19, 1977	27	--	76	6	44	--	174	42	91	.3	< .4	--	372	217	646	7.6	30.87	1.3	.0
69-61-916	Tc	339	Aug. 25, 1977	26	--	118	13	25	--	373	37	44	.4	< .4	--	447	351	721	7.6	13.51	.5	.0
62-704	Tc	545	June 18, 1975	26	--	289	27	127	--	362	98	476	.5	60.0	--	1,281	830	2,110	7.1	24.92	1.9	.0
704	Tc	545	June 2, 1977	23	--	187	18	73	--	346	94	214	.4	2.8	--	782	560	1,310	7.5	22.70	1.3	.0
63-604	Tc	233	Oct. 1, 1969	24	--	239	29	148	9.0	244	264	409	.7	< .4	--	1,243	720	1,970	7.3	30.68	2.4	.0
604	Tc	233	Aug. 30, 1977	16	--	83	11	40	--	184	82	75	.4	< .4	--	398	252	667	8.1	25.63	1.0	.0
64-607	Tc	460	Nov. 19, 1968	--	.8	99	8	44	--	293	46	65	.3	1.0	--	560	282	--	7.4	25.47	1.1	.0
607	Tc	460	June 11, 1969	20	.1	98	9	45	3.0	294	48	63	.3	2.5	--	434	283	721	7.6	25.53	1.1	.0
607	Tc	460	June 7, 1970	--	.2	98	10	46	--	295	52	65	.3	2.0	--	570	285	--	7.3	25.94	1.1	.0
607	Tc	460	Aug. 8, 1971	--	--	103	9	47	--	294	52	70	.3	1.5	--	580	295	--	7.3	25.80	1.1	.0
607	Tc	460	Jan. 14, 1973	--	.5	99	10	52	--	299	58	69	.2	3.5	--	590	287	--	7.3	28.18	1.3	.0
607	Tc	460	Mar. 16, 1974	--	--	104	7	50	--	303	52	72	.3	2.9	--	590	290	--	7.3	27.39	1.2	.0
607	Tc	460	May 31, 1974	--	.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
607	Tc	460	Nov. 29, 1975	--	.9	101	9	55	--	304	58	67	.2	3.5	--	600	290	--	8.1	29.27	1.4	.0
607	Tc	460	Aug. 30, 1977	24	--	101	9	55	--	318	50	63	.9	2.5	--	461	287	750	7.8	29.27	1.4	.0
77-06-307	Tc	1,000	June 21, 1977	14	--	104	14	32	--	340	65	31	.5	< .4	--	428	316	639	7.8	18.00	.7	.0
07-101	Tc	1,136	Aug. 13, 1964	14	1.8	94	14	42	7.6	332	66	39	.6	.0	.2	442	292	734	7.3	23.23	1.0	.0
101	Tc	1,136	Aug. 22, 1969	13	--	109	16	24	5.0	343	58	31	.5	< .4	--	425	336	702	7.3	13.17	.5	.0
101	Tc	1,136	Aug. 25, 1977	16	--	73	15	74	12.0	312	74	63	.5	< .4	--	481	423	784	7.9	38.31	2.0	.2
08-713	Tc	1,302	May 9, 1945	18	.6	95	17	17	--	296	62	25	.6	.0	--	380	307	628	7.1	10.75	.4	.0
713	Tc	1,302	July 25, 1947	17	.5	90	16	31	--	299	65	32	.3	< .4	--	399	291	--	7.7	18.84	.7	.0
713	Tc	1,302	Feb. 6, 1950	17	.1	85	12	52	--	305	70	65	.5	< .4	--	451	262	--	6.9	30.19	1.3	.0
713	Tc	1,302	July 28, 1971	--	.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
714	Tc	1,350	Sept. 8, 1950	23	.4	87	15	32	--	299	60	26	.4	2.7	--	393	279	--	7.3	19.98	.8	.0

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
KB-77-08-714	Tc	1,350	Apr. 26, 1952	15	0.2	84	15	39	--	299	69	28	0.5	< 0.4	--	398	271	--	7.4	23.82	1.0	0.0
714	Tc	1,350	Feb. 13, 1953	15	.2	88	16	5	--	293	64	28	.4	< .4	--	361	336	--	7.5	3.67	.1	.0
714	Tc	1,350	Sept. 8, 1954	10	.2	83	15	38	--	299	64	28	.4	< .4	--	386	269	--	7.3	23.51	1.0	.0
714	Tc	1,350	Feb. 13, 1957	--	.6	80	14	27	--	287	58	24	.4	< .4	--	360	258	597	7.0	18.59	.7	.0
714	Tc	1,350	Jan. 20, 1958	--	.3	80	16	33	--	304	59	27	.4	< .4	--	368	265	563	6.9	21.28	.8	.0
714	Tc	1,350	Oct. 14, 1969	16	--	86	13	25	6.0	287	54	24	.5	< .4	--	366	268	589	7.9	16.47	.6	.0
714	Tc	1,350	July 28, 1971	--	.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
714	Tc	1,350	July 12, 1972	16	--	85	15	26	6.0	293	56	25	.4	< .4	--	373	276	577	7.4	16.73	.6	.0
714	Tc	1,350	July 26, 1974	15	--	93	11	26	5.0	292	57	25	.5	< .4	0.2	376	280	606	7.5	16.62	.6	.0
714	Tc	1,350	June 18, 1975	16	--	91	11	26	--	294	55	25	.5	< .4	--	369	273	610	7.7	17.19	.6	.0
714	Tc	1,350	Aug. 2, 1976	16	--	102	13	24	--	311	71	27	.4	< .4	--	406	306	648	8.1	14.49	.5	.0
714	Tc	1,350	June 7, 1977	20	--	92	12	26	--	294	57	24	.4	< .4	--	376	278	610	7.6	16.85	.6	.0
715	Tc	1,392	Dec. 31, 1969	--	.1	96	15	23	--	298	67	27	.5	< .4	--	530	304	740	7.5	14.24	.5	.0
715	Tc	1,392	July 28, 1971	--	.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
716	Tc	1,572	Nov. 1, 1963	--	.4	94	12	56	--	300	63	26	.5	< .4	--	520	289	708	7.2	30.02	1.4	.0
716	Tc	1,572	July 28, 1971	--	.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-904	Tc	1,628	June 19, 1975	15	--	94	10	23	--	293	56	20	.4	< .4	--	362	277	600	7.7	15.36	.6	.0
904	Tc	1,628	June 7, 1977	20	--	92	12	22	--	292	58	18	.3	< .4	--	366	278	588	7.6	14.64	.5	.0
908	Tc	1,700	July 30, 1973	15	--	93	13	23	3.0	299	63	21	.4	< .4	.1	378	288	604	7.5	14.74	.5	.0
908	Tc	1,700	July 26, 1974	15	--	99	11	23	--	299	58	19	.4	< .4	.1	372	291	600	7.9	14.61	.5	.0
908	Tc	1,700	Aug. 2, 1976	17	--	89	11	23	--	285	61	20	.3	< .4	--	361	269	586	7.8	15.76	.6	.0
908	Tc	1,700	June 7, 1977	21	--	98	10	23	--	299	61	20	.3	< .4	--	380	288	610	7.7	14.90	.5	.0
15-304	Tc	1,460	Aug. 7, 1969	17	--	99	16	23	6.0	321	67	25	.4	< .4	.1	411	313	645	7.5	13.50	.5	.0
304	Tc	1,460	June 8, 1977	21	--	103	14	17	20.0	312	68	27	.3	< .4	--	424	314	657	7.4	9.80	.4	.0
903	Tqc	277	July 24, 1940	--	--	66	23	486	--	212	540	375	.4	1.0	--	1,575	209	--	7.2	83.46	14.6	.0
903	Tqc	277	Aug. 27, 1970	14	--	42	20	473	3.0	222	500	379	.6	1.0	--	1,541	188	2,380	7.4	84.35	15.0	.0
903	Tqc	277	June 8, 1977	18	--	48	17	468	--	216	540	359	.4	< .4	--	1,557	192	2,340	7.5	84.29	14.7	.0
16-501	Tc	1,665	July 30, 1969	16	--	92	17	37	6.0	298	89	36	.5	< .4	--	440	301	703	7.7	20.76	.9	.0
501	Tc	1,665	Aug. 24, 1977	18	--	94	14	29	--	299	72	29	.4	< .4	--	403	292	646	7.9	17.75	.7	.0
22-401	Tc	--	Aug. 19, 1969	20	--	36	9	86	5.0	290	46	21	.6	< .4	.2	366	129	590	7.7	58.40	3.3	2.2
401	Tc	--	June 8, 1977	24	--	39	7	86	--	290	48	22	.5	< .4	--	369	128	590	7.7	59.73	3.3	2.2
23-305	Tc	1,852	July 30, 1973	15	.5	59	13	35	1.0	268	37	15	.5	< .4	--	308	202	500	7.6	27.37	1.0	.3
305	Tc	1,852	July 31, 1974	15	--	64	9	33	--	267	36	14	.5	< .4	--	303	199	502	7.8	26.73	1.0	.4

FRIO COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
KB-77-23-305	Tc	1,852	July 30, 1976	17	--	62	9	35	--	271	35	13	0.4	< 0.4	--	305	195	499	8.0	28.42	1.0	0.6	
305	Tc	1,852	June 7, 1977	21	--	63	9	34	--	267	30	13	.4	< .4	--	302	195	502	7.6	27.57	1.0	.4	
701	Tc	2,045	July 13, 1956	22	--	25	9	99	5.5	292	51	26	--	.2	0.2	381	102	622	7.8	66.92	4.3	2.7	
701	Tc	2,045	Aug. 12, 1964	21	0.1	28	11	98	5.1	298	50	24	.5	.0	.2	384	115	616	7.6	63.67	3.9	2.5	
701	Tc	2,045	Nov. 5, 1969	11	--	15	7	91	5.0	256	22	25	.5	< .4	--	302	66	500	8.1	73.16	4.8	2.8	
701	Tc	2,045	Aug. 24, 1977	24	--	29	9	106	6.0	293	60	36	.4	< .4	--	414	111	652	8.1	66.33	4.4	2.6	
801	Tc	2,010	Jan. 23, 1928	27	.2	32	11	80	4.6	282	45	18	--	< .4	--	356	125	--	--	57.05	3.1	2.1	
801	Tc	2,010	Dec. 8, 1939	20	.9	16	11	104	--	293	44	18	.5	< .4	--	358	85	--	7.2	72.65	4.9	3.0	
801	Tc	2,010	Apr. 13, 1945	--	.6	31	10	89	--	280	47	23	.7	< .4	--	344	119	--	7.9	62.03	3.5	2.2	
801	Tc	2,010	May 9, 1945	27	--	--	--	--	--	--	--	20	--	.2	--	365	--	--	7.9	--	--	--	
801	Tc	2,010	Nov. 17, 1954	22	.6	29	9	100	--	281	58	25	.4	< .4	--	382	110	--	7.9	66.54	4.1	2.4	
801	Tc	2,010	Mar. 4, 1958	--	2.6	20	10	60	--	159	56	38	.4	< .4	--	353	89	589	7.5	58.91	2.7	.7	
801	Tc	2,010	Aug. 21, 1959	10	16.0	26	8	66	--	154	72	51	.4	< .4	--	325	98	568	7.8	59.48	2.9	.5	
802	T1a	523	Oct. 10, 1952	32	.4	27	12	125	--	293	24	46	1.1	< .4	--	411	142	--	8.1	69.96	5.0	2.4	
802	T1a	523	Nov. 17, 1954	20	.6	42	16	217	--	311	227	107	.9	--	--	783	171	--	--	73.45	7.2	1.6	
802	T1a	523	Sept. 28, 1961	--	5.4	90	31	200	--	293	288	162	.8	--	--	975	385	1,900	--	55.27	4.6	.0	
802	T1a	523	Aug. 1, 1966	--	.8	70	43	113	--	299	170	121	1.0	< .4	--	820	352	--	7.6	41.15	2.6	.0	
802	T1a	523	Dec. 18, 1967	--	1.7	116	26	198	--	296	318	186	.9	< .4	--	1,140	395	--	7.6	52.07	4.3	.0	
802	T1a	523	July 31, 1969	--	.0	135	54	288	--	282	570	270	1.1	< .4	--	1,600	560	--	7.5	52.84	5.2	.0	
802	T1a	523	Sept. 10, 1971	--	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
802	T1a	523	Oct. 3, 1973	--	3.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
802	T1a	523	Aug. 26, 1974	--	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
802	T1a	523	Sept. 15, 1976	--	.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
802	T1a	523	June 7, 1977	25	--	102	28	74	12.4	322	146	98	.9	< .4	--	645	369	1,000	7.8	29.45	1.6	.0	
803	Tc	2,082	Dec. 21, 1955	19	1.2	51	14	173	--	305	175	92	.4	< .4	--	675	185	--	7.7	67.06	5.5	1.3	
803	Tc	2,082	Aug. 13, 1956	--	.8	29	10	88	--	287	52	28	.4	< .4	--	357	112	--	8.0	62.77	3.5	2.4	
803	Tc	2,082	Dec. 30, 1957	--	1.0	51	20	160	--	288	194	90	.4	< .4	--	687	210	1,145	7.0	62.42	4.8	.5	
803	Tc	2,082	Jan. 20, 1958	--	1.1	64	25	190	--	293	254	128	.4	< .4	--	648	265	1,080	7.2	61.15	5.1	.0	
803	Tc	2,082	Dec. 8, 1958	--	1.5	73	24	186	--	276	260	136	.4	< .4	--	978	286	1,630	7.7	59.02	4.8	.0	
803	Tc	2,082	Aug. 1, 1959	--	16.0	26	8	66	--	--	72	5	.4	< .4	--	341	98	568	7.8	59.48	2.9	--	
803	Tc	2,082	Aug. 21, 1959	21	.9	51	18	136	--	294	148	79	.5	< .4	--	599	204	1,000	7.9	59.50	4.1	.7	
803	Tc	2,082	Dec. 20, 1960	--	1.1	52	30	146	--	289	165	82	.3	< .4	--	651	255	1,094	7.4	55.64	3.9	.0	
803	Tc	2,082	Mar. 11, 1961	--	.4	50	19	144	--	278	155	76	.4	< .4	--	581	203	--	7.5	60.68	4.3	.4	

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
KB-77-23-803	Tc	2,082	Sept. 28, 1961	--	0.2	46	18	156	--	261	165	84	0.4	< 0.4	--	190	1,250	8.0	64.25	4.9	0.5	
803	Tc	2,082	Oct. 3, 1961	--	52.0	46	18	146	--	276	148	76	.3	< .4	--	190	--	7.5	62.71	4.6	.7	
803	Tc	2,082	May 29, 1962	--	1.3	46	21	152	--	260	179	114	.3	< .4	--	200	1,195	7.8	62.17	4.6	.2	
803	Tc	2,082	June 5, 1962	--	.7	56	22	168	--	281	201	106	.4	< .4	--	230	--	7.5	61.35	4.8	.0	
803	Tc	2,082	July 22, 1963	--	.2	58	23	170	--	265	233	119	.6	< .4	--	239	1,410	8.0	60.71	4.7	.0	
803	Tc	2,082	July 22, 1963	--	.5	63	24	174	--	266	239	121	.6	< .4	--	256	1,416	7.9	59.66	4.7	.0	
803	Tc	2,082	July 26, 1963	--	.2	55	21	155	--	282	199	98	.6	< .4	--	223	--	7.6	60.12	4.5	.1	
803	Tc	2,082	Mar. 30, 1964	--	.0	78	26	223	--	272	321	162	.9	< .4	--	301	1,824	7.8	61.66	5.5	.0	
803	Tc	2,082	July 22, 1964	--	.9	60	22	173	--	283	229	113	.9	< .4	--	241	--	7.6	61.04	4.8	.0	
803	Tc	2,082	Feb. 25, 1965	--	.4	92	36	247	--	282	386	203	.5	< .4	--	379	2,090	7.4	58.72	5.5	.0	
803	Tc	2,082	Nov. 22, 1965	--	.6	79	28	211	--	282	315	158	.6	< .4	--	313	1,771	7.5	59.51	5.1	.0	
803	Tc	2,082	Aug. 1, 1966	--	.6	35	40	180	--	281	225	118	.7	< .4	--	252	--	7.5	60.85	4.9	.0	
803	Tc	2,082	Nov. 21, 1968	--	.5	71	24	179	--	284	255	132	.6	< .4	--	276	--	7.6	58.53	4.6	.0	
803	Tc	2,082	May 29, 1969	--	.1	47	21	155	--	266	179	102	.4	< .4	--	204	1,220	7.8	62.34	4.7	.2	
803	Tc	2,082	July 31, 1969	--	.0	135	54	288	--	282	570	270	1.1	< .4	--	560	--	7.5	52.84	5.2	.0	
803	Tc	2,082	Nov. 5, 1969	18	--	65	23	174	9.0	270	249	120	.6	< .4	--	256	1,210	7.4	58.52	4.7	.0	
803	Tc	2,082	Dec. 1, 1969	--	.5	66	24	188	--	284	258	125	.7	< .4	--	264	--	7.5	60.82	5.0	.0	
803	Tc	2,082	Sept. 1, 1971	--	.6	81	30	216	--	271	328	166	.7	< .4	--	327	--	7.8	59.07	5.2	.0	
803	Tc	2,082	Sept. 3, 1971	--	.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
803	Tc	2,082	July 12, 1972	20	.6	64	22	177	10.0	284	246	121	.6	< .4	--	252	1,168	7.5	59.41	4.8	.0	
803	Tc	2,082	Sept. 12, 1972	--	1.0	68	27	190	9.0	277	280	144	.6	< .4	--	280	--	7.9	58.58	4.9	.0	
803	Tc	2,082	Oct. 3, 1973	--	.0	77	26	208	--	273	300	162	.7	< .4	--	299	1,769	7.9	60.20	5.2	.0	
803	Tc	2,082	Aug. 26, 1974	--	.3	76	22	194	--	273	280	120	.8	< .4	--	281	1,628	8.0	60.10	5.0	.0	
803	Tc	2,082	Sept. 19, 1974	--	1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
803	Tc	2,082	Aug. 11, 1975	--	.5	67	21	181	--	277	260	129	.7	< .4	--	255	--	8.0	60.82	4.9	.0	
803	Tc	2,082	Sept. 13, 1976	--	.4	72	22	187	--	273	283	135	.5	< .4	--	271	--	7.9	60.09	4.9	.0	
803	Tc	2,082	Sept. 15, 1976	--	.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
803	Tc	2,082	June 7, 1977	25	--	66	18	164	--	285	217	106	.5	< .4	--	238	1,141	7.8	59.91	4.6	.0	
24-206	Tc	2,069	June 8, 1977	21	--	59	8	37	--	262	30	12	.4	< .4	--	181	488	7.7	30.88	1.1	.6	
78-01-109	Tqc	147	Aug. 26, 1970	20	--	75	29	167	6.0	455	124	136	1.0	< .4	--	309	1,240	7.3	53.63	4.1	1.3	
109	Tqc	147	Aug. 25, 1977	22	--	81	32	196	--	462	139	182	1.1	< .4	--	333	1,450	7.8	56.09	4.6	.8	
501	Tc	1,199	June 15, 1977	14	--	108	11	33	--	283	62	61	.3	.6	--	316	716	7.5	18.57	.8	.0	
02-709	Tqc	555	Aug. 27, 1970	15	--	112	44	344	14.0	177	241	590	.5	< .4	--	463	2,390	7.4	61.00	6.9	.0	

FRIO COUNTY

Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhm/cm at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual carbonate (RSC)
KB-78-02-709	Tqc	555	June 8, 1977	19	--	94	28	317	--	189	192	491	0.4	< 0.4	--	1,234	348	2,100	7.8	66.35	7.3	0.0
		1,700	Aug. 13, 1964	16	1.0	74	13	28	6.8	282	44	22	.5	.0	0.1	344	238	573	7.2	19.79	.7	.0
503	Tc	1,700	June 12, 1969	13	--	73	13	56	7.0	283	61	52	.7	< .4	--	415	237	695	7.4	33.24	1.5	.0
		1,700	Aug. 19, 1977	18	--	65	12	80	--	284	63	66	.5	< .4	--	444	214	734	7.9	45.13	2.3	.4
17-502	Ts	310	Sept. 4, 1970	12	--	43	13	351	4.0	231	429	205	.4	2.5	--	1,173	164	1,750	7.5	82.15	12.0	.5
		310	June 15, 1977	13	--	36	12	359	--	207	456	208	.1	< .4	--	1,186	139	1,800	7.8	84.87	13.2	.6

GONZALES COUNTY

Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium (SAR)	Residual sodium carbonate (RSC)	
RR-67-27-903	Tc	600	Apr. 24, 1950	13	--	48	4	19	12.0	128	46	28	0.1	0.2	--	233	138	399	6.9	21.42	0.7	0.0
903	Tc	600	Dec. 23, 1969	12	--	50	5	16	10.0	132	48	26	.1	.4	--	232	145	385	7.8	18.04	.5	.0
903	Tc	600	July 21, 1977	15	--	52	4	16	12.0	128	49	26	.1	.4	--	237	147	390	7.4	17.72	.5	.0
28-204	Tc	262	Oct. 18, 1956	--	0.1	8	2	214	--	226	7	199	.4	.4	--	586	23	--	7.2	94.29	17.5	3.1
204	Tc	262	Aug. 1, 1957	26	--	9	2	206	--	228	12	197	.2	.2	--	564	31	1,010	7.3	93.59	16.1	3.1
204	Tc	262	Oct. 31, 1967	--	.0	10	3	203	--	245	7	193	.4	.4	--	660	38	--	8.1	92.21	14.4	3.2
204	Tc	262	Aug. 13, 1968	--	.0	9	3	199	--	242	5	195	.3	.4	--	660	34	--	8.0	92.56	14.6	3.2
204	Tc	262	July 7, 1969	--	.0	10	10	189	--	243	8	192	.4	.4	--	650	66	--	7.9	86.15	10.1	2.6
204	Tc	262	July 15, 1970	--	.0	10	4	193	--	240	5	192	.4	.4	--	640	42	--	8.0	91.02	13.0	3.1
204	Tc	262	July 16, 1971	--	--	10	4	196	--	237	5	196	.4	.4	--	650	43	--	8.0	91.14	13.2	3.0
204	Tc	262	July 18, 1972	--	.1	11	5	197	--	240	6	198	.3	.4	--	660	47	--	8.0	89.92	12.3	2.9
204	Tc	262	July 18, 1973	--	.1	10	6	197	--	243	5	202	.4	.4	--	660	49	--	8.0	89.62	12.1	2.9
204	Tc	262	Aug. 10, 1977	22	--	12	3	201	--	245	8	188	.3	.4	--	555	41	986	8.6	91.18	13.4	3.1
303	Tqc	138	Oct. 14, 1938	--	--	99	27	59	--	220	127	122	--	--	--	542	356	--	--	26.38	1.3	.0
303	Tqc	138	Aug. 11, 1977	37	--	121	31	59	--	417	64	108	.2	.4	--	625	428	1,016	7.8	23.01	1.2	.0
29-501	Ts	400	Sept. 19, 1962	24	--	20	11	166	--	152	114	150	.2	.0	--	559	95	977	6.9	79.14	7.4	.5
501	Ts	400	Aug. 14, 1970	23	--	31	11	159	4.0	170	120	151	.2	.4	--	583	122	958	7.6	73.03	6.2	.3
501	Ts	400	Aug. 11, 1977	23	--	22	9	160	--	148	117	148	.1	.4	--	552	95	944	7.7	79.10	7.2	.5
701	Tqc	540	Apr. 25, 1962	18	.8	3	2	247	--	446	12	120	.3	.0	--	622	12	1,060	8.0	97.15	27.1	6.9
701	Tqc	540	Aug. 11, 1977	18	--	3	1	255	--	465	4	113	.3	.4	--	623	17	1,098	8.8	97.95	32.5	7.3
30-504	Tc	2,300	May 13, 1969	25	--	3	1	109	1.0	239	14	17	.1	.4	0.2	288	8	458	8.7	94.85	13.9	3.6
504	Tc	2,300	Aug. 10, 1977	26	--	4	1	104	--	243	13	19	.2	.4	--	287	11	445	8.5	94.13	12.0	3.7
601	Tj	292	Dec. 10, 1975	40	--	148	10	890	--	281	1,050	700	.4	.4	--	2,976	411	4,120	8.0	82.50	19.1	.0
602	Ty	520	Dec. 9, 1975	16	--	22	3	840	12.0	431	910	458	.8	.4	--	2,474	66	3,470	7.9	95.67	44.5	5.7
602	Ty	520	Dec. 9, 1975	14	--	23	3	860	--	426	940	469	.8	.4	--	2,519	71	3,460	8.1	96.40	44.8	5.5
31-402	Tqc	700	Oct. 29, 1974	16	--	18	1	890	--	316	850	590	.9	3.5	--	2,524	50	3,500	7.7	97.53	55.2	4.1
402	Tqc	700	Dec. 9, 1975	16	--	17	11	870	--	331	830	600	.5	.4	--	2,507	86	3,560	7.9	95.57	40.4	3.6
404	Tj	362	Dec. 10, 1975	39	--	130	14	378	--	276	530	321	.3	.8	--	1,548	382	2,220	7.6	68.28	8.4	.0
405	Ty	490	Dec. 9, 1975	19	--	20	3	800	--	294	850	492	.3	.4	--	2,329	62	3,400	8.1	96.54	44.1	3.5
406	Tj	80	Dec. 9, 1975	66	--	295	20	272	--	321	370	550	.2	.4	--	1,731	820	2,520	7.7	41.96	4.1	.0
407	Tj	100	Dec. 9, 1975	80	--	187	17	205	--	368	142	379	.3	5.7	--	1,196	540	1,870	7.3	45.38	3.8	.0
503	Tok	85	Dec. 10, 1975	54	--	108	2	16	--	284	17	31	.3	19.0	--	386	280	574	8.1	11.13	.4	.0
703	Tj	454	Dec. 10, 1975	30	--	111	2	16	--	278	60	19	.2	.4	--	375	288	577	7.9	10.87	.4	.0

GONZALES COUNTY

Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
KR-67-34-803	Tqc	54	Jan. 15, 1963	43	--	58	7	52	--	220	39	44	0.4	0.5	--	172	553	6.9	39.46	1.7	0.1	
		54	July 22, 1977	45	--	54	7	49	--	212	43	37	.4	.5	--	340	514	8.0	39.45	1.6	.2	
35-504	Tqc	156	Aug. 13, 1970	18	--	126	50	177	9.0	397	405	117	.5	< .4	--	1,098	1,590	7.6	42.00	3.3	.0	
		156	July 22, 1977	20	--	127	49	184	--	399	408	117	.2	< .4	--	1,101	1,600	7.8	43.56	3.5	.0	
701	Tc	630	Dec. 22, 1969	11	--	22	4	14	11.0	66	24	24	.2	< .4	--	143	247	7.0	26.28	.7	.0	
701	Tc	630	July 22, 1977	17	--	23	4	15	10.0	60	28	26	.1	< .4	--	153	249	7.9	27.35	.7	.0	
36-501	Tc	1,650	Apr. 13, 1959	16	--	3	1	96	3.6	220	17	18	--	.0	0.1	262	436	7.4	92.80	12.2	3.3	
		501	Aug. 11, 1977	22	--	4	2	94	4.0	239	12	16	.3	< .4	--	272	430	8.4	89.76	9.5	3.5	
503	Ts	400	Oct. 11, 1962	18	2.8	39	22	310	--	189	300	278	.3	.8	--	1,063	1,730	6.8	78.21	9.8	.0	
503	Ts	400	Dec. 22, 1969	16	--	43	24	307	6.0	190	319	284	.4	3.5	--	1,096	204	8.4	75.76	9.3	.0	
503	Ts	400	July 22, 1977	20	--	560	341	1,810	--	422	2,740	2,520	.4	1.7	--	8,200	9,600	7.5	58.44	14.8	.0	
37-201	Tc	1,750	Dec. 20, 1944	--	--	--	--	--	--	1,440	2	310	--	1.2	--	1,820	3,220	7.9	--	--	--	
		201	July 24, 1974	20	--	4	1	770	--	1,460	4	341	6.3	1.2	--	1,865	14	7.9	99.16	89.2	23.6	
201	Tc	1,750	June 26, 1975	20	--	4	1	770	--	1,460	4	335	7.7	< .4	--	1,859	12	8.1	99.16	89.2	23.6	
201	Tc	1,750	July 5, 1976	22	--	4	3	760	--	1,450	4	334	7.4	< .4	--	1,847	22	8.2	98.66	69.9	23.3	
201	Tc	1,750	Aug. 11, 1977	23	--	4	1	767	--	1,462	4	333	7.2	< .4	--	1,858	11	8.3	99.16	88.9	23.6	
42-902	Tc	1,382	Apr. 28, 1962	17	.6	60	5	22	9.8	166	41	39	.1	.0	.0	276	171	6.8	20.74	.7	.0	
		902	Sept. 17, 1974	--	.7	57	5	24	--	159	37	35	.2	< .4	--	317	164	7.7	24.28	.8	.0	
903	Tc	1,387	Aug. 5, 1941	11	.2	38	6	47	--	171	31	36	.5	.5	--	254	120	7.8	46.10	1.8	.4	
903	Tc	1,387	Apr. 23, 1943	16	.7	42	7	39	--	171	30	34	.4	.7	--	253	134	8.0	38.84	1.4	.1	
903	Tc	1,387	Dec. 22, 1944	16	.2	44	7	29	5.8	168	30	29	.0	.5	--	244	139	7.9	30.17	1.0	.0	
903	Tc	1,387	Oct. 6, 1950	17	.4	48	16	21	--	171	39	36	.1	< .4	--	262	186	8.0	19.75	.6	.0	
903	Tc	1,387	June 22, 1951	16	.3	32	4	66	--	183	37	36	.1	< .4	--	281	97	8.3	59.85	2.9	1.0	
903	Tc	1,387	May 2, 1956	20	.2	40	9	28	--	171	29	43	.2	< .4	--	253	137	7.5	30.80	1.0	.0	
903	Tc	1,387	May 15, 1959	14	--	46	6	26	8.8	157	30	31	.1	.2	--	239	139	7.0	27.28	.9	.0	
903	Tc	1,387	Oct. 15, 1965	--	.0	58	8	30	--	161	60	39	.2	< .4	--	356	177	7.7	26.86	.9	.0	
903	Tc	1,387	July 17, 1972	15	.6	24	5	199	5.0	314	119	100	.3	< .4	--	628	82	7.6	83.29	9.6	3.5	
903	Tc	1,387	Aug. 1, 1973	12	--	6	3	370	1.0	438	224	167	.7	3.1	1.0	1,003	28	8.4	96.37	30.8	6.6	
903	Tc	1,387	July 25, 1974	13	--	15	2	353	2.0	458	201	163	.6	< .4	1.0	976	44	7.8	94.09	22.7	6.5	
903	Tc	1,387	June 26, 1975	14	--	7	1	354	--	438	188	163	.6	1.8	--	944	24	8.3	97.27	33.1	6.7	
903	Tc	1,387	July 5, 1976	16	1.6	39	5	99	7.0	222	75	62	.2	1.4	--	415	119	8.0	62.93	3.9	1.2	
904	Tc	1,396	Nov. 19, 1975	--	.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
904	Tc	1,396	July 21, 1977	16	--	51	7	37	9.0	163	50	40	.1	< .4	--	290	156	8.0	32.44	1.2	.0	

GONZALES COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate
RR-67-42-906	Tc	1,645	Nov. 15, 1968	14	2.0	55	6	18	--	123	33	34	--	--	--	222	--	--	8.6	19.47	0.6	0.0
906	Tc	1,645	Apr. 5, 1970	13	.4	55	7	16	6.0	157	37	28	0.2	< 0.4	--	240	165	404	7.6	16.69	.5	.0
906	Tc	1,645	Sept. 17, 1974	--	.6	58	6	17	--	155	34	32	.2	< .4	--	302	169	--	8.2	17.91	.5	.0
906	Tc	1,645	Nov. 17, 1975	--	.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
906	Tc	1,645	Nov. 17, 1975	--	.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
908	Tqe	500	Feb. 18, 1976	16	--	40	15	129	--	212	134	98	.1	1.2	--	537	161	870	7.7	63.47	4.4	.2
43-502	Tqe	538	Aug. 14, 1970	13	--	8	4	870	3.0	388	911	456	.9	< .4	--	2,457	37	3,540	7.7	97.91	62.7	5.6
502	Tqe	538	July 21, 1977	12	--	12	5	1,090	7.0	488	910	790	.5	< .4	--	3,066	53	4,440	8.1	97.55	66.7	6.9
801	Ts	500	Apr. 3, 1959	11	--	5	3	1,260	--	834	588	1,040	--	.5	--	3,317	23	5,420	7.9	99.10	110.0	13.1
801	Ts	500	Aug. 12, 1977	17	--	6	3	1,224	--	855	593	1,003	1.3	< .4	--	3,268	26	5,950	8.4	98.98	101.9	13.4
903	Tc	2,530	Apr. 13, 1959	18	--	3	1	192	3.6	416	6	58	.4	.0	0.3	486	12	828	7.9	96.26	24.5	6.5
903	Tc	2,530	July 17, 1972	21	--	3	3	182	4.0	418	6	56	.6	< .4	.4	481	17	762	8.2	94.07	17.7	6.4
903	Tc	2,530	Mar. 15, 1973	--	.0	1	2	184	2.0	422	9	48	.8	< .4	--	670	11	--	8.4	96.79	24.4	6.7
903	Tc	2,530	Aug. 9, 1977	26	--	5	1	185	--	393	6	55	.5	< .4	--	472	17	780	8.9	96.04	19.7	6.1
904	Tc	2,383	Aug. 1, 1973	20	--	3	3	189	1.0	429	10	49	.7	< .4	--	487	20	774	7.9	95.11	18.4	6.6
904	Tc	2,383	July 24, 1974	20	--	1	1	195	--	438	8	49	.8	.6	--	490	6	789	8.0	98.46	33.0	7.0
904	Tc	2,383	May 30, 1975	--	.0	2	1	186	--	425	6	51	.7	< .4	--	680	9	--	8.3	97.80	26.8	6.7
904	Tc	2,383	June 26, 1975	20	--	3	1	194	--	439	7	48	.8	< .4	--	490	9	799	8.3	97.32	24.7	6.9
904	Tc	2,383	July 5, 1976	22	--	3	1	195	--	434	8	48	.7	< .4	--	491	9	778	8.4	97.33	24.9	6.8
44-201	Tc	2,190	Mar. 30, 1962	20	.1	1	0	113	1.3	257	14	18	.4	.0	.3	294	3	477	8.0	98.33	31.1	4.1
201	Tc	2,190	Apr. 3, 1970	17	--	1	1	106	1.0	250	17	13	.4	< .4	--	279	5	445	8.3	96.69	17.9	3.9
201	Tc	2,190	July 21, 1977	21	--	1	1	111	--	239	17	16	.3	1.2	--	286	5	445	8.5	97.33	18.7	3.7
701	Tc	2,967	May 22, 1969	28	--	4	2	453	5.0	970	5	155	1.3	< .4	--	1,130	16	1,770	8.0	97.56	46.1	15.5
701	Tc	2,967	July 24, 1974	24	--	5	2	442	--	959	4	151	1.6	1.0	--	1,102	19	1,700	8.1	97.89	42.2	15.3
701	Tc	2,967	June 26, 1975	24	--	4	1	449	--	960	4	151	1.6	< .4	--	1,107	12	1,750	7.9	98.57	52.0	15.4
701	Tc	2,967	July 5, 1976	25	--	7	2	449	--	960	3	151	1.4	< .4	--	1,110	25	1,720	8.2	97.43	38.5	15.2
701	Tc	2,967	July 21, 1977	25	--	4	1	441	--	950	4	148	1.4	< .4	--	1,091	16	1,730	8.2	98.55	51.1	15.2
46-201	Tct	--	Oct. 28, 1938	--	--	18	4	501	--	671	44	395	.0	--	--	1,291	63	--	--	94.66	27.8	9.7
201	Tct	--	Aug. 12, 1977	97	--	31	3	544	22.0	855	33	416	.5	< .4	--	1,567	92	2,400	8.1	90.94	24.9	12.2

GUADALUPE COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
KX-67-17-708	Q1e	28	Nov. 20, 1957	--	--	--	--	--	--	280	--	47	--	--	--	184	279	716	7.4	--	--	--	
708	Q1e	28	Aug. 19, 1977	24	--	117	6	53	--	342	40	53	0.2	51.7	--	513	317	809	7.7	26.69	1.2	0.0	
18-801	Tw1	156	Apr. 13, 1962	36	1.1	87	14	60	4.0	333	48	64	.2	.0	0.4	478	274	772	6.9	31.78	1.5	.0	
801	Tw1	156	Aug. 18, 1977	39	--	85	13	56	--	334	40	56	.2	< .4	--	433	265	720	7.7	31.44	1.4	.1	
25-704	Tw1	75	Oct. 9, 1936	--	--	--	--	--	--	201	38	72	--	--	--	337	--	--	--	--	--	--	--
704	Tw1	75	Jan. 29, 1964	49	2.0	56	19	68	--	188	51	112	.4	.0	--	467	218	752	6.8	40.43	2.0	.0	
704	Tw1	75	Aug. 19, 1977	52	--	89	11	72	--	183	54	154	.4	1.2	--	523	267	860	7.3	36.94	1.9	.0	
27-401	Tc	27	Aug. 20, 1964	25	.0	69	6	15	--	248	14	9	.2	--	--	260	198	424	6.5	14.21	.4	.1	
401	Tc	27	July 25, 1974	22	--	57	6	8	--	189	12	12	.2	.6	--	210	167	350	7.3	9.44	.2	.0	
401	Tc	27	July 8, 1975	20	--	41	6	8	--	132	11	20	.2	< .4	--	171	128	292	7.3	12.05	.3	.0	
401	Tc	27	July 6, 1976	22	--	58	7	9	6.0	190	19	19	.2	< .4	--	234	175	377	7.3	9.75	.2	.0	
401	Tc	27	July 20, 1977	20	--	90	10	9	--	206	93	18	.4	< .4	--	342	267	535	7.2	6.86	.2	.0	
33-209	Tw1	401	Feb. 19, 1964	35	2.3	108	23	74	--	286	114	121	.6	.0	--	639	364	984	7.4	30.65	1.6	.0	
209	Tw1	401	Aug. 31, 1977	35	--	137	19	71	7.0	284	166	133	.5	< .4	--	708	419	1,075	7.8	26.47	1.5	.0	
803	Tc	140	Aug. 20, 1964	10	12.0	5	2	15	--	20	17	14	.0	.8	--	85	22	123	5.8	61.18	1.4	.0	
803	Tc	140	Aug. 19, 1977	29	--	8	3	14	6.0	22	15	26	.1	< .4	--	112	33	169	6.5	43.24	1.0	.0	
34-704	Tc	123	Aug. 20, 1964	34	14.0	55	19	140	--	0	34	410	.0	.2	--	706	215	1,520	3.3	58.57	4.1	.0	
704	Tc	123	Dec. 23, 1969	29	--	32	13	103	13.0	0	73	221	.1	< .4	--	484	133	955	3.7	59.90	3.8	.0	
704	Tc	123	July 25, 1974	29	--	23	9	74	--	0	74	135	.2	< .4	--	344	94	621	4.2	63.03	3.3	.0	
704	Tc	123	July 8, 1975	30	--	30	8	98	--	0	97	175	.2	< .4	--	438	108	800	3.8	66.42	4.1	.0	
704	Tc	123	July 6, 1976	25	--	14	5	45	--	10	49	71	.1	< .4	--	214	58	373	6.1	63.81	2.6	.0	
704	Tc	123	July 20, 1977	29	--	10	4	41	5.0	1	51	56	.1	< .4	--	196	41	323	5.2	65.10	2.7	.0	
68-60-710	Tw1	256	Feb. 4, 1964	31	13.0	111	20	51	--	416	69	40	.3	.0	--	656	360	844	7.5	23.59	1.1	.0	
710	Tw1	256	Aug. 30, 1977	31	--	98	16	60	--	400	66	37	.3	< .4	--	505	309	784	7.9	29.60	1.4	.3	

KARNES COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium sulfate (SAR)	Residual sodium carbonate (RSC)	
EZ-78-07-901	Tc	3,766	Nov. 4, 1969	22	--	5	2	230	3.0	493	48	47	0.6	< 0.4	--	600	21	947	8.0	95.32	21.9	7.6
901	Tc	3,766	July 26, 1973	28	--	4	3	242	2.0	510	45	49	.7	< .4	0.5	625	20	948	8.0	95.48	22.2	7.9
901	Tc	3,766	July 30, 1974	27	--	4	2	235	--	520	43	51	.6	.6	--	618	18	972	8.0	96.56	23.9	8.1
901	Tc	3,766	June 25, 1975	6	--	2	1	292	--	464	77	67	.6	< .4	--	674	5	1,190	9.2	98.58	42.1	7.4
901	Tc	3,766	July 7, 1976	26	--	8	1	233	--	540	19	47	.5	< .4	--	600	22	943	8.1	95.46	20.6	8.3
901	Tc	3,766	Aug. 9, 1977	30	--	5	1	235	--	539	30	47	.6	< .4	--	614	18	953	8.0	96.85	25.1	8.5
08-301	Tc	3,564	Apr. 26, 1962	--	0.3	4	1	276	--	594	16	78	.6	< .4	--	668	13	1,250	8.3	97.70	31.9	9.4
301	Tc	3,564	July 26, 1966	--	.0	2	2	289	--	630	16	81	.8	< .4	--	1,020	15	--	8.3	97.94	34.5	10.0
301	Tc	3,564	Sept. 13, 1967	--	.1	5	--	294	--	610	24	81	.8	< .4	--	1,020	13	--	8.2	--	--	--
301	Tc	3,564	Sept. 1, 1968	--	.0	5	1	285	--	600	11	81	.9	< .4	--	1,000	13	--	8.6	97.39	30.4	9.5
301	Tc	3,564	Aug. 6, 1969	--	.0	4	1	--	--	600	23	75	.9	< .4	--	398	13	--	8.4	--	--	9.5
301	Tc	3,564	July 14, 1972	31	.2	3	3	271	4.0	620	12	76	.8	< .4	.5	706	21	1,110	8.2	95.94	26.4	9.7
301	Tc	3,564	Aug. 9, 1972	--	.1	4	1	284	--	600	35	78	.9	< .4	--	1,000	15	--	8.0	97.76	32.9	9.5
301	Tc	3,564	July 26, 1973	29	--	3	3	288	2.0	610	18	84	.9	8.0	--	735	21	1,100	8.2	96.55	28.1	9.6
301	Tc	3,564	Sept. 25, 1973	--	.1	4	1	285	--	610	4	78	1.0	10.0	--	1,000	15	--	8.4	97.77	33.0	9.7
301	Tc	3,564	July 30, 1974	27	--	4	1	283	--	600	15	85	.9	9.0	--	719	13	1,147	8.4	97.76	32.8	9.5
301	Tc	3,564	Oct. 16, 1974	--	.1	5	1	289	--	620	19	83	.9	8.0	--	1,030	16	--	8.3	97.42	30.8	9.8
301	Tc	3,564	June 23, 1975	--	.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
301	Tc	3,564	June 23, 1975	--	.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
301	Tc	3,564	June 25, 1975	30	--	4	1	283	--	600	33	79	.9	< .4	--	726	11	1,110	8.1	97.76	32.8	9.5
301	Tc	3,564	Mar. 16, 1976	--	.0	4	1	276	--	610	6	87	.8	< .4	--	990	9	--	8.2	97.70	31.9	9.7
301	Tc	3,564	July 7, 1976	31	--	8	2	276	--	600	32	78	.8	< .4	--	723	26	1,143	8.3	95.51	22.6	9.2
301	Tc	3,564	Aug. 9, 1977	33	--	3	1	284	--	598	35	75	.8	< .4	--	726	11	1,123	8.3	98.15	36.2	9.5
701	Tc	3,807	July 26, 1973	29	--	7	3	299	2.0	660	30	83	.9	< .4	--	778	32	1,200	8.3	95.26	23.8	10.2
701	Tc	3,807	July 30, 1974	30	--	5	1	301	--	650	17	87	1.0	3.7	--	765	18	1,220	8.5	97.52	32.1	10.3
701	Tc	3,807	June 25, 1975	30	--	4	1	305	--	660	14	86	1.0	< .4	--	765	11	1,240	8.4	97.92	35.3	10.5
701	Tc	3,807	July 7, 1976	29	--	4	1	312	--	670	23	83	.9	< .4	--	782	14	1,210	8.3	97.96	36.1	10.6
701	Tc	3,807	Aug. 9, 1977	33	--	5	1	286	--	608	31	70	.9	< .4	--	726	12	1,150	8.5	97.40	30.5	9.6

LA SALLE COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (%)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium (SAR)	Residual sodium carbonate (RSC)	
RX-77-22-802	Tc	2,049	Aug. 15, 1969	20	--	25	9	105	5.0	295	53	27	0.6	< .4	0.2	390	100	625	7.7	68.34	4.5	2.8
802	Tc	2,049	July 3, 1973	16	1.1	16	7	131	2.0	299	55	35	.6	< .4	--	411	68	670	7.7	79.99	6.8	3.5
802	Tc	2,049	July 19, 1974	19	--	27	8	108	--	296	52	30	.5	.6	--	390	98	626	7.9	70.08	4.6	2.8
802	Tc	2,049	July 23, 1975	20	--	29	7	108	--	299	52	29	.5	< .4	--	392	101	600	7.8	69.90	4.6	2.8
802	Tc	2,049	Aug. 4, 1976	20	--	30	7	103	5.0	294	47	27	.4	< .4	.3	386	103	627	8.5	67.06	4.4	2.7
802	Tc	2,049	Aug. 4, 1977	22	--	26	8	107	--	289	56	28	.7	< .4	--	390	99	616	7.8	70.41	4.7	2.7
30-502	Tc	2,030	Aug. 15, 1969	21	--	16	9	138	4.0	301	66	43	.6	< .4	--	446	77	714	7.9	78.53	6.8	3.3
502	Tc	2,030	Aug. 4, 1977	25	--	18	6	143	--	301	74	42	.5	< .4	--	456	68	718	8.2	81.71	7.4	3.5
31-302	T1a	500	Aug. 5, 1977	19	--	61	30	292	--	423	286	198	.3	< .4	--	1,092	276	1,490	7.9	69.74	7.6	1.4
32-601	T1a	250	Apr. 20, 1959	18	--	54	28	292	--	413	311	157	.1	.5	--	1,063	250	1,680	7.4	71.76	8.0	1.7
601	T1a	250	Sept. 10, 1970	17	--	58	29	293	6.0	418	324	163	.4	< .4	--	1,096	265	1,690	7.8	70.11	7.8	1.5
601	T1a	250	Aug. 4, 1977	22	--	58	26	285	--	423	317	155	.1	< .4	--	1,071	251	1,630	8.1	71.12	7.8	1.9
38-102	Tc	2,108	Aug. 14, 1969	19	--	12	8	157	3.0	298	66	59	.6	< .4	--	471	64	768	7.8	83.66	8.6	3.6
102	Tc	2,108	July 5, 1973	17	--	16	5	164	2.0	311	72	59	.6	< .4	.4	489	61	765	7.8	84.98	9.1	3.8
102	Tc	2,108	July 19, 1974	19	--	14	5	160	3.0	300	70	58	.6	< .4	.3	477	55	755	8.1	85.43	9.3	3.8
102	Tc	2,108	July 22, 1975	13	--	14	4	150	--	298	64	57	.6	< .4	--	449	54	745	8.0	86.39	9.1	3.8
102	Tc	2,108	Aug. 3, 1976	13	--	14	4	156	5.0	309	63	57	.4	< .4	.3	465	49	747	8.3	85.45	9.4	4.0
102	Tc	2,108	Aug. 3, 1977	20	--	12	14	161	--	295	74	57	.5	< .4	--	483	47	746	8.1	80.00	7.4	3.0
903	T1a	265	May 28, 1963	17	.2	22	15	297	--	308	214	202	.4	.0	--	919	116	1,520	7.1	84.71	11.9	2.7
903	T1a	265	July 15, 1977	18	--	48	33	270	--	342	309	181	.4	1.2	--	1,028	256	1,610	8.0	69.68	7.3	.4
39-401	Tc	2,300	May 14, 1938	17	.1	7	5	217	--	342	79	103	.5	.3	--	597	37	--	7.8	92.54	15.3	4.8
401	Tc	2,300	Sept. 16, 1940	17	.1	4	0	206	--	329	82	71	.6	< .4	--	542	12	--	8.6	97.82	28.3	5.1
401	Tc	2,300	Feb. 16, 1942	17	.0	4	2	213	--	336	78	82	.4	< .4	--	562	18	--	8.3	96.21	21.7	5.1
401	Tc	2,300	Sept. 15, 1942	26	.0	2	1	214	--	325	79	81	.1	.0	--	562	10	--	8.4	98.08	30.8	5.1
401	Tc	2,300	May 11, 1945	--	--	--	--	--	--	--	--	79	--	--	--	--	--	--	--	--	--	--
401	Tc	2,300	June 10, 1975	--	--	44	19	292	--	254	332	197	.7	1.3	--	1,160	187	--	8.2	77.16	9.2	.4
402	Tc	2,483	Oct. 21, 1942	19	.0	2	2	230	--	380	84	78	.7	.0	--	602	12	--	8.3	97.42	27.5	5.9
402	Tc	2,483	May 11, 1945	--	--	--	--	--	--	--	--	79	--	--	--	--	--	--	--	--	--	--
402	Tc	2,483	Nov. 30, 1967	--	.1	2	2	285	--	510	93	88	.8	< .4	--	980	13	1,309	8.3	97.91	34.1	8.0
402	Tc	2,483	Nov. 4, 1974	--	.1	6	1	474	--	590	182	263	1.0	1.3	--	1,520	19	2,320	8.3	98.18	47.2	9.2
403	Tc	2,345	July 10, 1956	20	--	2	1	251	2.0	331	100	121	.6	.0	.5	660	7	1,080	8.4	97.90	36.2	5.2
403	Tc	2,345	July 21, 1975	--	.1	3	1	400	--	750	109	99	1.3	< .4	--	1,370	11	--	8.5	98.68	51.1	12.0

LA SALLE COUNTY

Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
RX-77-39-403	Tc	2,345	Oct. 10, 1956	17	--	3	2	361	2.0	670	108	93	0.9	< 0.4	--	16	1,430	8.4	97.72	39.6	10.6	
404	Tc	2,347	Aug. 4, 1977	19	--	4	5	347	--	475	142	165	.7	< .4	--	32	1,430	8.2	96.11	27.3	7.1	
406	Tc	2,447	Feb. 12, 1975	--	0.4	4	1	367	--	598	110	106	1.0	3.1	--	12	--	--	98.26	42.5	9.5	
40-305	Tc	2,740	Sept. 15, 1942	33	.0	3	1	228	--	332	91	88	.5	.0	--	13	--	8.5	97.71	29.1	5.2	
305	Tc	2,740	July 10, 1956	23	--	3	1	336	2.9	604	98	92	1.4	.0	0.5	9	1,350	8.3	97.94	42.9	9.6	
305	Tc	2,740	Oct. 22, 1969	20	--	3	1	393	2.0	770	106	98	1.2	< .4	--	14	1,560	8.3	98.37	50.2	12.3	
305	Tc	2,740	Aug. 5, 1977	22	--	4	1	389	--	730	106	99	1.2	< .4	--	12	1,449	8.3	98.36	45.0	11.6	
47-901	Tc	3,080	July 5, 1973	21	--	6	3	316	1.0	530	113	119	1.1	< .4	--	26	1,300	8.1	96.00	26.3	8.1	
901	Tc	3,080	July 19, 1974	21	--	2	1	317	--	510	115	119	1.0	1.2	--	11	1,300	8.2	98.69	45.7	8.1	
901	Tc	3,080	July 21, 1975	20	--	5	1	316	--	520	113	119	.8	< .4	--	16	1,300	8.0	97.64	33.7	8.1	
901	Tc	3,080	Aug. 3, 1976	21	--	9	1	317	--	530	109	117	.8	< .4	--	22	1,310	8.2	96.29	26.7	8.1	
901	Tc	3,080	Aug. 4, 1977	24	--	4	1	319	--	500	116	118	.9	< .4	--	13	1,300	8.5	98.00	36.9	7.9	
48-301	Tc	3,483	July 18, 1974	23	--	3	1	216	--	356	80	82	.7	1.3	--	8	913	8.3	97.59	27.5	5.6	
301	Tc	3,483	July 22, 1975	22	--	6	1	218	--	376	76	79	.6	< .4	--	15	935	8.0	96.13	21.7	5.7	
301	Tc	3,483	Aug. 3, 1976	23	--	7	1	228	--	398	80	73	.6	< .4	--	17	963	8.1	95.83	21.3	6.0	
301	Tc	3,483	Aug. 4, 1977	29	--	2	1	220	--	349	81	77	.6	< .4	--	8	915	8.5	98.13	31.7	5.5	
56-202	Tla	1,150	Oct. 18, 1942	20	.3	3	1	645	--	823	277	318	.9	.0	--	12	--	8.8	99.18	82.4	13.2	
202	Tla	1,150	Sept. 11, 1970	15	--	7	3	910	1.0	720	490	660	1.1	1.0	--	29	3,740	8.4	98.45	72.5	11.2	
202	Tla	1,150	Aug. 4, 1977	19	--	6	1	990	--	680	600	690	1.1	< .4	--	20	3,830	8.6	99.12	98.5	10.7	
62-405	Tla	750	July 2, 1973	16	--	33	19	294	2.0	257	328	192	.7	.4	--	161	1,550	7.5	79.68	10.0	1.0	
405	Tla	750	July 18, 1974	15	--	47	19	304	--	249	364	208	.9	1.2	--	195	1,650	7.8	77.18	9.4	.1	
405	Tla	750	July 21, 1975	16	--	44	18	295	--	255	333	200	.6	< .4	--	184	1,600	7.8	77.73	9.4	.5	
405	Tla	750	Aug. 3, 1976	17	--	46	17	299	--	256	331	199	.4	< .4	--	188	1,640	8.0	77.88	9.5	.5	
405	Tla	750	July 15, 1977	17	--	37	21	316	--	247	351	212	.4	< .4	--	178	1,650	8.2	79.36	10.2	.4	
63-201	Tc	3,200	Oct. 1, 1942	--	--	--	--	--	--	742	103	176	--	--	--	--	--	--	--	--	--	--
201	Tc	3,200	Oct. 19, 1942	26	.1	2	1	443	--	741	104	179	.9	.0	--	9	--	8.4	99.06	63.8	11.9	
201	Tc	3,200	July 11, 1972	25	--	2	3	433	3.0	760	106	178	1.5	1.5	--	19	1,710	8.1	97.80	45.2	12.1	
201	Tc	3,200	Aug. 4, 1977	28	--	4	1	458	--	780	112	193	1.4	< .4	--	12	1,760	8.3	98.60	53.0	12.5	
64-401	Tc	4,280	July 11, 1956	31	--	3	0	486	4.1	909	56	175	--	.0	.9	8	1,920	8.3	98.81	77.2	14.7	
401	Tc	4,280	May 5, 1959	15	--	1	0	473	3.9	924	35	171	--	.0	.5	3	1,930	8.8	99.27	130.3	15.0	
401	Tc	4,280	July 10, 1972	28	--	4	4	520	4.0	1,060	84	160	1.4	< .4	.8	26	1,960	8.0	97.28	44.0	16.8	
401	Tc	4,280	July 18, 1974	26	--	4	1	493	--	940	61	172	1.8	1.0	--	12	1,870	8.4	98.70	57.1	15.1	
401	Tc	4,280	July 21, 1975	24	--	3	1	490	--	930	60	173	1.5	< .4	--	11	1,850	8.2	98.92	62.5	15.0	

LA SALLE COUNTY

Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
BX-77-64-401	Tc	4,280	Aug. 3, 1976	25	--	11	1	500	--	1,020	84	158	1.3	2.4	--	1,284	28	1,990	8.2	97.18	38.7	16.0
			July 15, 1977	28	--	4	1	560	--	1,100	96	155	155	1.4	< .4	--	1,386	13	2,110	8.3	98.85	64.9
78-25-803	Tc	2,763	Oct. 1, 1942	25	0.0	2	1	207	--	308	87	68	.1	.0	--	541	11	--	8.4	98.01	29.8	4.8
			Mar. 25, 1970	11	--	18	7	1,310	2.0	770	1,070	870	870	2.5	2.0	--	3,671	71	5,100	8.0	97.39	66.3
803	Tc	2,763	July 5, 1973	19	1.1	4	2	201	2.0	326	82	68	.6	< .4	0.3	540	16	850	8.0	95.46	20.4	4.9
			July 31, 1974	19	--	2	1	197	--	326	84	68	.7	.6	.6	--	532	10	866	8.0	97.92	28.4
803	Tc	2,763	July 22, 1975	19	--	3	1	200	--	328	87	68	.5	< .4	--	540	9	855	8.0	97.40	25.5	5.1
			Aug. 3, 1976	20	--	8	1	204	--	349	93	66	.6	.5	< .4	--	564	23	888	8.3	94.85	18.0
803	Tc	2,763	Aug. 5, 1977	23	--	3	1	209	--	328	90	65	.5	< .4	--	553	8	855	8.2	97.51	26.7	5.1
			July 12, 1956	23	--	2	1	216	2.2	345	88	65	.6	--	.0	.3	567	7	941	8.4	97.52	31.1
26-802	Tc	3,400	Mar. 24, 1959	24	--	2	1	225	--	335	93	75	.8	.0	.3	585	9	965	8.6	98.17	32.4	5.3
			Aug. 5, 1977	25	--	4	1	238	--	378	98	74	.6	< .4	.4	--	626	10	964	8.4	97.35	27.5
41-325	Tc	5,518	Aug. 5, 1977	30	--	4	1	259	--	415	104	86	.7	< .4	--	689	10	1,055	8.2	97.55	30.0	6.5

McMILLEN COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (%)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium (SAR)	Residual sodium carbonate ratio (RSC)
SU-78-27-502	Tqc	1,985	Apr. 14, 1959	18	--	5	1	1,870	--	1,440	297	1,840	--	2.5	--	18	7,740	8.1	99.59	23.2
502	Tqc	1,985	May 22, 1963	18	0.2	3	3	1,870	--	1,520	278	1,800	--	1.5	--	19	7,490	8.0	99.51	24.5
502	Tqc	1,985	Aug. 30, 1977	13	--	4	1	1,865	--	1,479	294	1,747	3.1	< .4	--	15	6,800	8.3	99.65	216.1
503	Tc	3,540	Apr. 23, 1963	10	--	2	1	233	--	368	95	79	1.1	.0	--	8	988	8.2	98.23	33.6
503	Tc	3,540	Oct. 20, 1969	22	--	3	1	216	2.0	342	96	77	.3	< .4	--	11	928	8.3	97.07	27.5
503	Tc	3,540	June 22, 1977	24	--	3	1	230	--	356	96	78	.5	< .4	--	13	950	8.0	97.73	29.3
28-101	Tc	3,998	Apr. 23, 1963	23	--	2	0	214	--	346	90	64	.7	.0	--	5	907	8.2	98.93	41.6
101	Tc	3,998	July 19, 1974	23	--	2	1	210	--	342	91	62	.6	.6	--	7	873	8.1	98.04	30.2
101	Tc	3,998	July 16, 1975	22	--	2	1	207	--	342	92	64	.6	< .4	--	8	880	8.1	98.01	29.8
101	Tc	3,998	Aug. 3, 1976	23	--	3	1	207	--	328	91	62	.5	< .4	--	8	878	8.7	97.48	26.4
101	Tc	3,998	June 22, 1977	25	--	2	1	209	--	329	89	62	.5	< .4	--	10	878	8.6	98.03	30.1
601	Tqc	2,765	Mar. 17, 1959	22	--	2	0	813	--	1,480	128	298	3.1	.1	--	6	3,130	8.6	99.71	158.3
601	Tqc	2,765	Sept. 8, 1970	20	--	3	3	850	1.0	1,460	131	396	3.4	< .4	--	21	3,200	8.2	98.87	83.0
601	Tqc	2,765	June 22, 1977	23	--	2	1	840	--	1,460	123	320	3.3	< .4	--	7	3,020	8.2	99.50	121.1
602	Tc	4,560	Jan. 15, 1950	27	.6	4	1	232	4.8	375	103	83	.6	.0	0.5	14	1,040	8.5	96.14	26.8
602	Tc	4,560	Aug. 15, 1969	27	--	4	2	231	2.0	372	94	81	.7	< .4	.4	5	988	8.2	96.03	23.5
602	Tc	4,560	July 22, 1977	27	--	7	1	236	--	375	96	81	.6	< .4	--	20	995	8.4	95.96	22.1
35-602	Tqc	3,500	Apr. 24, 1963	21	--	2	1	981	--	1,820	168	335	--	1.5	--	7	3,830	8.0	99.57	141.4
602	Tqc	3,500	Sept. 8, 1977	21	--	16	1	962	--	1,718	166	341	3.5	< .4	--	40	3,430	8.5	97.93	63.0
36-201	Tc	4,250	Dec. 8, 1949	29	.2	2	1	290	5.6	583	66	72	.6	.0	.4	6	1,200	8.1	97.48	41.8
201	Tc	4,250	July 12, 1956	32	--	2	0	296	3.0	604	49	71	1.0	.0	.4	5	1,190	8.3	98.64	57.6
201	Tc	4,250	Mar. 25, 1959	--	--	2	0	296	3.0	603	--	76	--	--	--	6	1,220	--	98.64	57.6
201	Tc	4,250	Aug. 15, 1969	31	.0	4	2	306	3.0	580	49	75	.8	< .4	--	19	1,200	8.8	96.79	31.2
201	Tc	4,250	Jan. 17, 1972	--	.0	4	1	305	--	580	55	82	.8	< .4	--	13	--	8.7	97.92	35.3
201	Tc	4,250	July 10, 1972	30	--	2	2	288	2.0	590	61	73	.7	< .4	.5	14	1,139	8.2	97.54	34.4
201	Tc	4,250	Nov. 29, 1972	--	.0	4	2	307	--	590	50	81	.9	< .4	--	18	--	8.7	97.34	31.3
201	Tc	4,250	July 6, 1973	29	--	3	2	296	2.0	590	51	79	.9	8.0	--	17	1,140	8.5	97.24	32.4
201	Tc	4,250	July 18, 1974	29	.6	2	1	288	3.0	590	63	72	.9	< .4	.5	8	1,178	8.4	97.97	41.5
201	Tc	4,250	July 16, 1975	27	--	3	1	293	--	570	63	74	.8	< .4	--	9	1,176	8.6	98.21	37.4
201	Tc	4,250	Aug. 3, 1976	30	--	3	1	291	--	600	62	71	.7	< .4	--	9	1,166	8.4	98.20	37.1
201	Tc	4,250	June 23, 1977	38	--	2	1	299	--	586	62	70	.8	< .4	--	8	1,170	8.4	98.62	43.1
902	Tc	4,715	Mar. 16, 1959	37	--	2	0	379	--	776	68	87	--	.0	--	6	1,520	8.3	99.39	73.8

MCQUEEN COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
SU-78-36-902	Tc	4,715	Aug. 15, 1969	29	--	2	1	365	3.0	740	70	86	1.0	< 0.4	--	921	8	1,440	8.5	98.39	52.6	11.9
902	Tc	4,715	July 10, 1972	32	--	3	2	358	3.0	740	66	83	1.0	< .4	--	912	15	1,360	8.5	97.55	39.2	11.8
902	Tc	4,715	July 6, 1973	32	0.2	2	1	379	2.0	740	70	86	1.1	< .4	0.6	939	12	1,400	8.5	98.60	54.6	11.9
902	Tc	4,715	July 18, 1974	31	--	2	1	365	--	740	61	86	1.3	< .4	--	911	9	1,420	8.6	98.86	52.6	11.9
902	Tc	4,715	July 16, 1975	29	--	3	1	378	--	750	63	86	.9	< .4	--	930	8	1,450	8.4	98.60	48.2	12.0
902	Tc	4,715	Aug. 3, 1976	34	--	3	1	359	--	730	64	83	1.0	< .4	--	904	8	1,450	8.7	98.53	45.8	11.7
902	Tc	4,715	June 23, 1977	38	--	3	1	378	--	750	63	93	1.0	< .4	--	946	11	1,440	8.4	98.60	48.2	12.0
37-103	Tc	5,200	July 16, 1956	36	--	2	0	441	4.0	929	35	112	1.8	.2	--	1,088	6	1,730	8.2	98.95	85.9	15.1
103	Tc	5,200	Mar. 25, 1959	38	--	4	1	713	--	1,460	17	240	3.2	.0	--	1,734	10	2,790	8.2	99.09	82.6	23.6
103	Tc	5,200	June 25, 1977	38	--	2	1	590	--	1,210	7	174	2.5	< .4	--	1,409	8	2,180	8.6	99.29	85.0	19.6
302	TJ	58	Sept. 8, 1977	28	--	93	13	990	37.0	355	662	1,091	.3	< .4	--	3,089	286	4,550	7.3	86.61	25.4	.1
38-101	Tc	5,400	Apr. 3, 1959	45	--	4	2	1,310	--	2,760	0	420	--	.8	--	3,138	18	4,990	8.7	99.36	133.5	44.8
101	Tc	5,400	May 8, 1963	--	.1	3	--	361	--	850	2	77	1.2	< .4	--	1,290	9	1,608	7.9	--	--	--
101	Tc	5,400	Oct. 25, 1963	37	.2	2	1	366	4.6	868	0	76	1.0	.0	.9	915	8	1,480	7.5	98.15	52.7	14.0
101	Tc	5,400	Oct. 20, 1964	--	.2	3	--	373	--	860	5	80	1.2	2.0	--	1,330	9	1,632	8.4	--	--	--
101	Tc	5,400	Jan. 7, 1966	--	.6	4	--	377	--	860	4	74	1.1	< .4	--	1,320	10	1,576	7.9	--	--	--
101	Tc	5,400	Jan. 7, 1966	--	.4	3	1	383	--	850	4	81	1.2	2.5	--	1,330	13	1,608	8.4	98.62	48.9	13.6
101	Tc	5,400	July 10, 1972	38	.5	3	2	361	4.0	870	4	76	1.1	< .4	.6	918	16	1,340	8.1	97.41	39.6	13.9
101	Tc	5,400	July 6, 1973	36	--	4	3	372	4.0	870	4	77	1.3	< .4	--	929	22	1,410	7.9	96.72	34.2	13.8
101	Tc	5,400	July 18, 1974	34	.2	2	1	379	4.0	870	4	76	1.5	.8	.7	930	9	1,400	8.3	98.30	54.6	14.0
101	Tc	5,400	Mar. 4, 1975	--	.1	2	2	376	--	850	4	78	1.3	4.3	--	1,330	15	--	8.6	98.41	44.9	13.6
101	Tc	5,400	Mar. 17, 1975	--	.1	3	1	376	--	840	4	80	1.2	3.3	--	1,320	8	--	8.5	98.60	48.0	13.5
101	Tc	5,400	July 16, 1975	35	--	7	1	365	--	880	4	79	1.3	< .4	--	925	18	1,450	8.1	97.35	34.1	13.9
101	Tc	5,400	Aug. 3, 1976	38	--	7	1	365	--	870	4	75	1.1	< .4	--	919	17	1,420	8.0	97.35	34.1	13.8
101	Tc	5,400	June 23, 1977	40	--	3	1	373	--	870	4	74	1.2	< .4	--	924	11	1,420	7.9	98.59	47.6	14.0
44-402	TJ	108	July 15, 1959	36	--	177	8	279	--	338	456	234	--	.0	--	1,354	473	2,010	7.0	56.11	5.5	.0
402	TJ	108	Sept. 1, 1977	36	--	267	12	305	--	305	622	368	.5	< .4	--	1,760	718	2,440	7.8	48.10	4.9	.0
51-201	Tc	5,050	Mar. 26, 1959	40	--	3	0	826	7.5	1,790	1	228	--	.8	--	1,986	8	3,130	8.5	99.05	131.3	29.1
201	Tc	5,050	Aug. 31, 1977	40	--	16	1	828	--	1,760	4	227	3.5	< .4	--	1,985	46	2,960	8.6	97.61	54.2	27.9
52-801	Tct	287	Apr. 24, 1963	84	--	24	3	652	--	460	312	532	.9	46.0	--	1,880	74	2,930	7.9	95.15	33.3	6.0
801	Tct	287	Sept. 2, 1977	87	--	27	3	637	28.0	412	325	561	.6	55.7	--	1,906	80	2,850	8.7	92.30	31.0	5.1
53-601	Tok	100	May 21, 1963	81	2.9	97	13	784	--	324	402	930	--	4.0	--	2,499	296	4,060	7.6	85.23	19.8	.0

MCQUEEN COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
SU-78-53-601	Tot	100	Sept. 1, 1977	69	--	234	29	200	--	234	55	592	0.4	18.5	--	1,322	705	2,290	7.6	38.22	3.2	0.0
54-403	Tot	240	June 21, 1959	50	--	362	54	246	--	191	94	990	--	12.0	--	1,901	1,120	3,370	6.6	32.22	3.1	.0
403	Tot	240	Sept. 1, 1977	45	--	367	55	208	--	196	91	920	.5	10.8	--	1,793	1,146	3,100	7.6	28.37	2.6	.0

MAVERICK COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual carbonate (RSC)
TB-76-07-911	Tc	100	Mar. 7, 1969	27	--	80	7	57	4.0	251	22	85	0.4	2.0	0.3	408	230	690	7.3	36.68	1.6	0.0
911	Tc	100	July 27, 1972	27	0.0	87	9	44	4.0	249	31	124	.4	2.5	.4	451	257	792	7.3	26.96	1.2	.0
911	Tc	100	July 24, 1973	24	--	88	9	75	2.0	243	36	124	.5	7.0	.3	485	256	815	7.4	38.63	2.0	.0
911	Tc	100	July 9, 1975	24	--	79	5	70	--	246	26	100	.4	1.8	--	427	220	732	7.6	41.15	2.0	.0
911	Tc	100	July 22, 1976	24	--	72	7	64	--	248	24	84	.3	< .4	--	397	208	670	7.5	40.04	1.9	.0
911	Tc	100	July 7, 1977	27	--	110	9	108	.6	254	66	200	.4	11.4	--	657	312	1,121	7.6	42.93	2.6	.0
15-302	Tc	--	Apr. 9, 1970	22	--	97	18	118	4.0	288	136	147	.6	< .4	--	684	316	1,080	7.7	44.41	2.8	.0
302	Tc	--	Aug. 2, 1977	19	--	66	14	160	--	299	173	110	.8	< .4	--	690	222	1,050	8.0	61.02	4.6	.4
16-701	Tc	--	Aug. 2, 1977	18	--	91	23	308	--	439	386	176	1.0	< .4	--	1,219	323	1,780	8.0	67.56	7.4	.7

MEDINA COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmohms at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
TD-68-49-902	Tc	182	May 3, 1971	--	0.0	70	17	107	--	34.3	82	88	0.6	< 0.4	--	710	248	--	7.4	48.76	2.9	0.7	
903	Tc	287	Feb. 19, 1946	13	.0	63	15	98	10.0	34.6	77	56	.6	.0	--	502	218	--	7.7	47.91	2.8	1.2	
903	Tc	287	Sept. 4, 1969	19	7.4	82	14	90	8.0	22.6	83	140	.6	< .4	--	555	262	911	7.3	41.81	2.4	.0	
903	Tc	287	July 13, 1972	17	.2	81	14	99	8.0	32.6	80	100	.6	< .4	0.5	560	259	891	7.4	44.37	2.6	.1	
903	Tc	287	Aug. 8, 1972	--	--	76	17	107	--	32.3	80	96	.7	< .4	--	700	259	--	7.3	47.27	2.8	.1	
903	Tc	287	Mar. 8, 1973	--	.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
904	Tc	613	Aug. 8, 1972	--	--	53	17	162	--	44.2	77	75	.8	1.5	--	830	204	--	7.6	63.05	4.9	3.2	
904	Tc	613	Mar. 8, 1973	--	.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
905	Tc	150	Mar. 25, 1968	--	.0	58	11	80	--	87	60	165	.3	4.0	--	465	190	900	6.5	47.81	2.5	.0	
905	Tc	150	Sept. 4, 1969	--	.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
905	Tc	150	May 3, 1971	--	.0	57	11	79	--	87	67	156	.2	4.0	--	466	188	--	6.6	47.82	2.5	.0	
905	Tc	150	Aug. 8, 1972	--	--	54	13	79	--	87	61	151	.2	5.0	--	450	186	--	6.6	47.72	2.5	.0	
905	Tc	150	Mar. 8, 1973	--	.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
906	Tc	--	Mar. 25, 1968	--	.0	115	16	126	--	177	67	294	.2	6.5	--	800	355	1,521	7.0	43.72	2.9	.0	
906	Tc	--	Sept. 4, 1969	24	15.6	72	9	47	6.0	154	41	107	.1	< .4	--	397	218	656	7.3	31.30	1.3	.0	
906	Tc	--	May 3, 1971	--	.0	100	16	132	--	181	84	269	.3	4.3	--	790	317	--	7.0	47.66	3.2	.0	
906	Tc	--	Aug. 8, 1972	--	--	118	18	155	--	207	79	320	.3	9.0	--	910	369	--	8.1	47.78	3.5	.0	
906	Tc	--	Mar. 8, 1973	--	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
907	Tc	141	Sept. 4, 1969	--	.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
907	Tc	141	May 3, 1971	--	1.5	113	16	114	--	211	77	251	.4	6.5	--	790	350	--	7.0	41.62	2.6	.0	
907	Tc	141	Aug. 8, 1972	--	--	132	16	135	--	248	68	276	.4	12.0	--	890	399	--	7.3	42.63	2.9	.0	
907	Tc	141	Mar. 8, 1973	--	.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
907	Tc	141	July 13, 1973	38	.5	125	18	127	4.0	239	74	280	.5	14.0	.4	798	387	1,350	7.2	41.39	2.8	.0	
907	Tc	141	July 11, 1974	36	.1	129	14	134	12.0	224	84	285	.4	17.0	.4	822	381	1,330	7.3	42.47	2.9	.0	
907	Tc	141	June 17, 1975	35	--	132	13	148	--	24.9	83	291	.5	17.0	--	841	384	1,450	7.3	45.67	3.2	.0	
907	Tc	141	July 23, 1976	43	--	150	17	149	--	259	78	342	.3	5.3	--	911	443	1,560	7.1	42.18	3.0	.0	
907	Tc	141	July 12, 1977	40	--	135	17	157	11.0	223	99	333	.3	19.6	--	921	407	1,540	7.2	44.79	3.3	.0	
69-54-601	Twi	150	Dec. 8, 1969	15	--	83	73	730	12.0	620	256	950	.2	< .4	--	2,424	510	3,800	7.9	75.23	14.0	.0	
601	Twi	150	July 13, 1977	14	--	85	66	760	--	620	241	1,000	.3	< .4	--	2,471	483	3,920	7.5	77.37	15.0	.4	
56-101	Twi	75	Nov. 26, 1969	20	--	118	9	91	2.0	410	43	71	.2	46.0	--	601	331	964	7.3	37.21	2.1	.0	
101	Twi	75	July 13, 1977	22	--	134	7	132	--	346	49	145	.2	145.4	--	804	366	1,260	7.5	33.15	3.0	.0	
901	Twi	365	Sept. 4, 1969	17	--	149	21	42	12.0	299	137	121	.8	1.5	--	648	457	1,016	7.2	16.17	.8	.0	

MEDINA COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhos at 25 C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
TD-69-56-901	Tv1	365	July 12, 1977	23	--	109	15	83	--	373	74	95	1.0	< 0.4	--	583	335	950	7.8	35.11	1.9	0.0
64-202	Tc	210	Dec. 2, 1969	16	--	106	11	40	2.0	397	32	24	.1	< .4	--	426	309	689	7.4	21.79	.9	.3
202	Tc	210	July 13, 1972	21	--	141	11	21	3.0	417	43	32	.2	11.0	--	488	399	761	7.2	10.22	.4	.0
202	Tc	210	July 20, 1973	19	--	135	14	23	2.0	403	42	37	.2	17.0	0.2	487	395	782	7.2	11.19	.5	.0
202	Tc	210	July 12, 1974	19	--	136	10	20	--	395	41	35	.2	14.0	--	469	382	748	7.4	10.26	.4	.0
202	Tc	210	June 18, 1975	20	--	141	9	20	--	401	35	36	.3	20.0	--	478	390	773	7.4	10.06	.4	.0
202	Tc	210	July 12, 1977	20	--	141	11	24	--	398	40	48	.2	20.0	--	499	397	815	7.4	11.62	.5	.0

WEBB COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
YZ-77-49-601	Tc	923	Feb. 11, 1965	23	--	51	11	235	--	283	322	78	0.7	< 0.4	--	860	173	1,300	7.6	74.76	7.7	1.1
601	Tc	923	Sept. 18, 1969	20	--	50	11	235	4.0	287	307	80	.8	< .4	--	849	168	1,240	7.7	74.48	7.8	1.3
601	Tc	923	July 13, 1977	22	--	49	9	229	--	289	311	80	.6	< .4	--	843	161	1,250	8.1	75.77	7.8	1.5
50-601	Tc	1,570	Feb. 11, 1965	18	--	5	1	277	--	235	198	149	.6	< .4	--	764	15	1,250	8.1	97.32	29.5	3.5
601	Tc	1,570	Sept. 18, 1969	17	--	3	1	264	1.0	235	191	128	1.0	3.0	--	724	10	1,131	8.2	97.80	33.7	3.6
601	Tc	1,570	July 9, 1974	16	--	5	1	312	--	248	214	199	.6	1.3	--	870	15	1,390	8.1	97.61	33.3	3.7
601	Tc	1,570	July 24, 1975	15	--	3	1	258	--	238	196	130	.6	< .4	--	721	10	1,150	7.7	97.97	32.9	3.6
601	Tc	1,570	July 24, 1976	18	--	2	2	255	--	238	200	130	.4	< .4	--	724	14	1,140	7.9	97.67	30.5	3.6
601	Tc	1,570	July 12, 1977	17	--	2	1	266	--	238	195	129	.4	< .4	--	727	8	1,155	8.1	98.45	38.3	3.7
57-501	Tc	760	Feb. 11, 1965	15	--	4	1	352	--	293	232	202	.7	< .4	0.7	951	15	1,600	8.3	98.19	40.7	4.5
501	Tc	760	Sept. 18, 1969	13	--	3	1	352	1.0	277	223	202	.8	< .4	--	932	11	1,510	8.6	98.34	44.9	4.3
501	Tc	760	July 13, 1977	12	--	4	1	356	--	296	232	205	.6	< .4	--	956	14	1,550	8.5	98.21	41.2	4.5
58-301	Tc-Tw1	1,635	Feb. 11, 1965	17	--	3	2	336	--	301	189	196	.6	< .4	--	892	12	1,500	8.1	97.89	36.8	4.6
301	Tc-Tw1	1,635	Sept. 18, 1969	15	--	3	2	400	1.0	387	195	252	.9	< .4	--	1,059	14	1,710	8.3	98.08	43.9	6.0
301	Tc-Tw1	1,635	July 12, 1977	15	--	10	2	428	--	301	190	384	.7	< .4	--	1,178	35	1,940	8.0	96.55	32.2	4.2
59-401	Tc	1,800	Aug. 22, 1961	--	--	--	--	--	--	556	241	215	--	--	--	--	8	1,980	8.7	--	--	--
401	Tc	1,800	Feb. 11, 1965	17	--	3	0	299	--	292	159	172	.8	< .4	--	794	8	1,300	7.9	98.86	47.5	4.6
401	Tc	1,800	Sept. 18, 1969	16	--	3	1	297	1.0	303	148	170	.8	< .4	--	786	10	1,240	8.3	98.04	37.9	4.7
401	Tc	1,800	July 12, 1977	17	--	1	1	294	--	293	145	170	.7	< .4	--	773	2	1,250	8.1	98.97	49.7	4.6
61-301	T1a	295	Oct. 2, 1970	19	--	136	45	156	6.0	285	333	210	.8	< .4	--	1,046	530	1,550	7.9	38.94	2.9	.0
301	T1a	295	July 12, 1977	23	--	125	44	156	--	257	330	211	.7	< .4	--	1,016	493	1,580	8.2	40.77	3.0	.0
85-01-301	Tc	1,500	Aug. 23, 1961	--	--	--	--	--	--	318	189	167	--	--	--	--	4	1,410	8.2	--	--	--
301	Tc	1,500	Feb. 11, 1965	15	--	2	0	313	--	311	199	164	.9	< .4	.6	847	6	1,400	8.2	99.27	60.9	4.9
301	Tc	1,500	July 11, 1972	8	--	2	2	365	1.0	570	76	179	1.0	< .4	--	914	11	1,500	8.6	98.20	43.6	9.0
301	Tc	1,500	July 8, 1974	12	--	1	1	317	--	314	185	165	1.0	.6	--	836	3	1,330	8.1	99.05	53.6	5.0
301	Tc	1,500	July 14, 1977	32	--	1	1	315	--	292	186	158	.7	< .4	--	837	5	1,360	8.9	99.04	53.3	4.6
04-401	Tc	2,010	Feb. 8, 1965	19	--	6	0	417	--	660	94	199	1.2	< .4	--	1,061	16	1,750	8.1	98.37	46.8	10.5
401	Tc	2,010	Sept. 18, 1969	18	--	1	1	432	1.0	640	93	199	1.2	< .4	--	1,061	8	1,680	8.6	99.16	73.1	10.3
401	Tc	2,010	July 11, 1972	18	0.6	3	3	409	--	660	96	198	1.2	< .4	--	1,059	18	1,635	8.4	97.82	39.9	10.4
401	Tc	2,010	July 3, 1973	16	--	2	2	406	1.0	660	92	197	1.2	< .4	1.0	1,043	15	1,700	8.0	98.38	48.5	10.5
401	Tc	2,010	July 9, 1974	17	--	1	1	407	--	660	91	196	1.3	2.5	--	1,041	5	1,700	8.3	99.25	68.8	10.6
401	Tc	2,010	July 1, 1975	17	--	2	1	407	--	650	82	193	1.4	< .4	--	1,023	7	1,690	8.4	98.98	58.7	10.4
401	Tc	2,010	July 19, 1976	16	--	2	1	405	--	640	87	195	1.2	< .4	--	1,022	11	1,680	8.6	98.97	58.4	10.3

WEBB COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
YZ-85-04-401	Tc	2,010	July 13, 1977	18	--	2	1	429	--	660	91	193	1.2	0.9	--	1,060	6	1,680	8.7	99.03	61.8	10.6
06-802	T1a	468	Oct. 1, 1970	9	--	13	4	760	1.0	255	960	364	.7	< .4	--	2,237	48	3,190	8.1	97.05	47.2	3.2
802	T1a	468	July 12, 1977	8	--	18	2	800	--	296	980	369	.3	< .4	--	2,323	54	3,280	8.3	97.03	47.7	3.7
12-102	Tc	1,850	Aug. 11, 1965	20	--	1	1	520	--	772	136	238	1.5	4.2	--	1,301	6	2,160	8.3	99.41	88.0	12.5
102	Tc	1,850	July 11, 1972	8	--	2	2	365	1.0	570	76	179	1.0	< .4	--	914	11	1,500	8.6	98.20	43.6	9.0
102	Tc	1,850	July 3, 1973	17	--	3	4	486	1.0	750	121	234	1.8	< .4	--	1,236	26	1,920	7.7	97.67	43.2	11.8
102	Tc	1,850	July 9, 1974	19	--	2	1	500	--	750	125	231	1.6	1.7	--	1,250	7	1,890	8.3	99.17	72.1	12.1
102	Tc	1,850	July 1, 1975	20	--	2	1	483	--	750	120	226	1.6	.7	--	1,223	8	1,950	8.3	99.14	69.6	12.1
102	Tc	1,850	July 19, 1976	18	--	3	1	470	--	720	125	229	1.4	< .4	--	1,201	11	1,950	8.6	98.87	60.0	11.5
102	Tc	1,850	July 13, 1977	19	--	3	1	483	--	730	126	227	1.4	< .4	--	1,219	8	1,960	8.5	98.90	61.7	11.7
601	Tep	207	Aug. 24, 1961	--	--	--	--	--	--	338	173	69	--	--	--	--	134	1,070	7.5	--	--	--
601	Tep	207	July 13, 1977	20	--	48	17	158	--	298	177	85	.6	< .4	--	652	192	1,025	7.8	64.43	4.9	1.0
801	Tep	251	Aug. 24, 1961	--	1.1	--	--	--	--	284	534	460	--	--	--	--	71	2,880	7.7	--	--	--
801	Tep	251	July 14, 1977	11	--	19	7	560	--	287	489	399	.6	< .4	--	1,627	78	2,510	8.2	94.11	27.9	3.1
13-402	T1a	505	July 13, 1977	8	--	412	119	680	16.0	84	1,310	1,180	.2	< .4	--	3,766	1,520	4,910	7.6	49.02	7.5	.0
20-501	T1a	216	Oct. 1, 1970	15	--	40	28	730	3.0	466	1,040	213	1.0	< .4	--	2,299	214	3,240	8.4	87.89	21.6	3.3
501	T1a	216	July 13, 1977	18	--	46	23	830	--	477	1,240	219	.8	.8	--	2,612	209	3,400	8.3	89.60	24.9	3.6
29-202	Tc	3,245	Jan. 31, 1976	11	--	5	2	1,230	--	1,760	54	790	3.5	< .4	--	2,961	20	4,720	8.8	99.23	117.6	28.4
301	T1a	200	Oct. 2, 1970	11	--	11	2	1,080	1.0	243	1,040	750	1.1	< .4	--	3,015	37	4,440	8.6	98.45	78.6	3.2
301	T1a	200	July 13, 1977	13	--	14	2	1,360	--	394	1,810	500	.9	< .4	--	3,894	42	5,200	8.3	98.56	90.0	5.5
30-201	Ty	416	Aug. 22, 1961	--	.3	--	--	--	--	274	490	730	--	--	--	--	16	3,630	8.4	--	--	--
201	Ty	416	July 14, 1977	12	--	7	1	780	--	295	480	690	.5	< .4	--	2,115	20	3,260	8.6	98.74	73.0	4.4

WILSON COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
ZL-07-41-301	Tc	600	July 14, 1969	34	--	9	3	22	7.0	5	20	47	0.1	< 0.4	--	144	37	229	5.6	52.24	1.6	0.0	
301	Tc	600	July 31, 1973	29	--	16	4	19	3.0	29	31	35	.1	< .4	0.1	151	57	240	6.4	40.70	1.1	.0	
301	Tc	600	July 3, 1974	29	--	12	3	18	5.0	16	25	34	.2	.2	.1	134	41	214	6.6	44.57	1.2	.0	
301	Tc	600	July 28, 1977	33	--	10	3	19	7.0	10	27	35	.1	< .4	--	139	37	205	6.0	47.19	1.3	.0	
42-801	Tc	1,067	Mar. 12, 1969	16	--	38	7	58	7.0	217	30	30	.2	< .4	--	293	123	483	7.7	48.76	2.2	1.0	
801	Tc	1,067	June 17, 1977	16	--	41	7	53	--	209	31	33	.1	< .4	--	284	130	474	8.1	46.79	2.0	.8	
909	Tqc	600	Feb. 18, 1976	24	--	435	273	474	--	204	720	1,630	.2	< .4	--	3,656	2,210	5,420	7.1	31.83	4.3	.0	
910	Tqc	300	Feb. 18, 1976	16	--	91	38	133	--	195	306	146	.1	< .4	--	826	383	1,250	7.8	43.01	2.9	.0	
911	Tqc	350	Feb. 18, 1976	17	--	68	33	108	--	242	179	118	.1	< .4	--	642	304	1,000	7.9	43.47	2.6	.0	
912	Tcm	37	Feb. 18, 1976	40	--	116	21	112	--	209	133	164	.4	111.0	--	800	378	1,200	7.8	39.33	2.5	.0	
49-101	Tqc	315	Mar. 23, 1938	10	0.8	40	28	95	--	250	128	60	.1	.9	--	485	215	--	7.6	49.01	2.8	.0	
101	Tqc	315	Aug. 25, 1939	23	.4	72	23	66	--	244	126	62	.4	< .4	--	493	276	--	7.6	34.36	1.7	.0	
101	Tqc	315	Aug. 12, 1941	10	.2	63	21	87	--	262	123	57	.4	< .4	--	490	244	--	7.8	43.72	2.4	.0	
101	Tqc	315	Dec. 8, 1942	25	1.6	65	24	73	--	244	133	57	.4	< .4	--	499	261	--	7.6	37.83	1.9	.0	
101	Tqc	315	Nov. 6, 1947	24	.4	70	29	58	--	244	130	60	.1	< .4	--	491	294	--	7.7	30.03	1.4	.0	
101	Tqc	315	Nov. 13, 1952	30	.0	57	22	75	--	244	117	53	.2	< .4	--	474	233	--	8.0	41.21	2.1	.0	
101	Tqc	315	Jan. 9, 1953	--	.3	--	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	--	--	
101	Tqc	315	June 16, 1954	17	.1	54	21	76	--	238	109	53	.2	< .4	--	447	217	--	7.8	42.78	2.2	.0	
101	Tqc	315	Dec. 6, 1955	25	.6	62	21	114	--	226	167	92	.1	< .4	--	593	241	--	7.7	50.70	3.1	.0	
101	Tqc	315	June 22, 1960	--	.6	73	29	92	--	215	154	96	.1	< .4	--	556	305	927	7.4	39.90	2.3	.0	
101	Tqc	315	Mar. 31, 1964	--	.2	36	2	176	--	329	21	125	.2	< .4	--	690	98	1,045	7.8	79.61	7.7	3.4	
101	Tqc	315	Nov. 5, 1965	--	.8	29	0	123	--	296	19	65	.2	< .4	--	540	90	726	7.6	78.71	6.2	3.4	
101	Tqc	315	Dec. 13, 1966	--	1.1	53	19	116	--	221	163	96	.2	< .4	--	670	210	--	7.5	54.53	3.4	.0	
101	Tqc	315	Feb. 26, 1968	--	.8	28	4	114	--	294	16	58	.2	< .4	--	520	87	--	7.8	74.17	5.3	3.0	
101	Tqc	315	Dec. 31, 1968	--	.9	15	3	109	--	240	14	52	.1	< .4	--	440	50	--	8.6	82.65	6.7	2.9	
101	Tqc	315	Feb. 18, 1969	11	.6	23	5	113	--	290	19	54	.1	< .4	--	374	79	637	7.8	75.92	5.5	3.1	
101	Tqc	315	Nov. 17, 1971	--	.0	33	12	86	--	272	35	45	.1	< .4	--	481	131	--	8.0	58.68	3.2	1.8	
201	Tc	912	Apr. 23, 1963	13	.0	31	3	107	--	305	13	42	--	--	--	358	89	615	7.4	72.18	4.9	3.2	
201	Tc	912	Apr. 25, 1963	--	--	--	--	--	--	320	--	--	--	--	--	--	--	--	--	--	--	--	--
201	Tc	912	Feb. 18, 1969	13	.1	23	6	94	--	272	14	37	.1	< .4	--	321	82	560	7.4	71.36	4.5	2.8	
201	Tc	912	July 24, 1972	16	.2	28	6	96	1.0	281	18	42	.4	< .4	0.2	346	96	555	7.3	68.54	4.2	2.7	
201	Tc	912	July 31, 1973	15	--	27	6	97	5.0	281	20	43	.2	< .4	--	351	93	580	7.4	68.18	4.3	2.7	
201	Tc	912	July 3, 1974	15	--	29	3	92	9.0	270	15	39	.2	< .4	.3	335	85	540	7.9	67.53	4.3	2.7	

WILSON COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
AL-67-49-201	Tc	912	June 25, 1975	15	--	30	4	90	--	265	19	40	0.2	< 0.4	--	328	90	564	7.7	68.19	4.0	2.5	
201	Tc	912	July 7, 1976	16	0.0	30	4	88	8.0	262	20	40	.2	< .4	--	335	91	556	7.7	65.34	4.0	2.4	
201	Tc	912	June 17, 1977	16	--	32	3	91	8.0	273	17	41	.2	< .4	--	342	92	559	7.6	65.90	4.1	2.6	
202	Tqc	460	Feb. 18, 1969	13	.6	38	17	173	10.0	228	211	114	.2	< .4	--	694	166	1,076	7.9	67.94	5.8	.4	
202	Tqc	460	June 17, 1977	15	--	40	15	175	11.0	221	201	114	.1	1.0	--	680	162	1,070	7.9	68.43	5.9	.3	
50-103	Tqc	263	Aug. 17, 1970	15	--	152	60	127	16.0	195	437	213	.3	< .4	--	1,114	630	1,640	7.6	30.02	2.2	.0	
103	Tqc	263	June 22, 1977	14	--	153	59	134	--	195	453	221	.1	< .4	--	1,130	630	1,670	7.6	31.82	2.3	.0	
68-47-301	TW1	119	Apr. 24, 1936	--	--	--	--	--	--	214	48	86	--	--	--	377	--	--	--	--	--	--	--
301	TW1	119	Aug. 17, 1970	29	--	239	69	72	4.0	366	324	283	.7	< .4	--	1,201	880	1,800	7.1	15.03	1.0	.0	
301	TW1	119	June 22, 1977	31	--	396	114	113	--	376	740	449	.6	< .4	--	2,028	1,460	2,720	7.2	14.43	1.2	.0	
902	Tc	453	Mar. 4, 1969	34	--	30	3	19	6.0	92	16	30	.2	< .4	--	183	89	280	7.1	30.34	.8	.0	
902	Tc	453	July 26, 1977	28	--	79	3	24	--	249	15	32	.1	2.5	--	306	211	504	7.6	19.95	.7	.0	
48-102	TW1	514	June 18, 1968	--	.9	52	28	284	--	370	268	197	.6	< .4	--	1,012	244	1,958	7.8	71.61	7.8	1.1	
102	TW1	514	Feb. 19, 1969	16	.4	48	31	283	--	366	294	192	.4	< .4	--	1,048	249	1,630	7.6	71.34	7.8	1.0	
102	TW1	514	May 14, 1973	--	--	51	31	283	--	355	302	205	.5	2.9	--	1,230	256	--	7.6	70.73	7.7	.7	
102	TW1	514	May 22, 1974	--	.9	79	34	207	--	376	222	182	--	--	--	1,100	336	--	7.8	57.19	4.9	.0	
102	TW1	514	Apr. 19, 1976	--	.9	73	29	270	--	338	208	95	.2	< .4	--	880	406	--	7.6	66.08	6.7	.0	
102	TW1	514	July 26, 1977	21	--	55	29	282	--	356	300	190	.2	< .4	--	1,052	256	1,640	7.8	70.51	7.6	.7	
103	TW1	525	June 27, 1968	--	.8	88	32	118	--	343	182	102	.4	< .4	--	691	353	1,352	7.5	42.22	2.7	.0	
103	TW1	525	May 14, 1973	--	--	81	33	155	--	348	225	128	.5	1.3	--	970	338	--	7.7	49.95	3.6	.0	
103	TW1	525	May 22, 1974	--	.1	77	36	130	--	348	421	251	.6	3.7	--	1,470	342	--	7.7	67.84	7.7	.0	
103	TW1	525	Apr. 19, 1976	--	.9	105	35	94	7.0	338	208	95	.2	< .4	--	880	406	1,350	7.6	33.01	2.0	.0	
804	Tc	355	July 8, 1969	29	--	16	3	21	7.0	28	16	45	.2	< .4	--	151	51	241	6.2	42.73	1.2	.0	
804	Tc	355	July 26, 1977	30	--	13	2	27	7.0	16	23	51	.1	< .4	--	161	42	256	6.6	54.20	1.8	.0	
53-902	Tc	754	July 15, 1969	21	--	11	3	18	6.0	23	21	32	.7	< .4	--	124	40	203	6.4	45.20	1.2	.0	
902	Tc	754	July 31, 1973	20	.5	12	3	20	4.0	21	23	34	.2	< .4	0.1	127	41	204	6.2	47.86	1.3	.0	
902	Tc	754	July 23, 1974	20	--	17	2	19	--	31	21	34	.1	< .4	--	128	51	224	6.9	44.93	1.1	.0	
902	Tc	754	June 25, 1975	22	--	31	2	19	6.0	77	19	34	.2	< .4	--	171	85	291	7.0	30.71	.8	.0	
902	Tc	754	Aug. 4, 1976	21	--	12	4	19	--	22	23	33	.1	< .4	--	123	46	205	7.3	47.11	1.2	.0	
902	Tc	754	July 27, 1977	24	--	15	3	19	6.0	28	25	33	.1	< .4	--	139	48	225	6.7	41.84	1.1	.0	
54-302	Tc	355	July 18, 1969	24	--	25	4	14	5.0	81	15	23	.3	< .4	--	150	79	240	7.2	26.32	.6	.0	
302	Tc	355	July 21, 1972	24	--	32	4	14	1.0	99	14	24	.2	< .4	--	162	97	260	7.6	23.78	.6	.0	
302	Tc	355	July 30, 1974	21	--	23	4	14	4.0	68	14	25	.2	< .4	--	139	70	228	7.3	27.83	.7	.0	

WILSON COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
302	Tc	355	July 27, 1977	27	--	24	3	15	--	71	15	23	.1	< .4	--	162	72	229	7.3	31.11	.7	.0	
501	Twl	720	Apr. 2, 1969	5	--	4	1	258	4.0	270	100	153	.4	< .4	--	658	13	1,167	9.1	96.69	29.9	4.1	
501	Twl	720	July 28, 1977	16	--	14	5	275	--	321	218	131	.4	< .4	--	817	57	1,280	8.2	91.51	16.0	4.1	
55-705	Tqc	200	Aug. 21, 1970	34	--	135	30	65	6.0	305	119	171	.8	< .4	--	711	460	1,135	7.4	23.20	1.3	.0	
705	Tqc	200	June 16, 1977	39	--	140	30	64	--	290	101	196	.5	< .4	--	713	475	1,173	7.8	22.75	1.2	.0	
901	Tc	794	May 2, 1969	16	0.3	28	9	112	9.0	329	36	42	.5	< .4	--	417	108	684	7.5	67.29	4.7	3.2	
901	Tc	794	July 21, 1972	17	--	25	24	319	8.0	455	68	311	.3	< .4	0.5	996	161	1,580	7.5	80.20	10.9	4.2	
901	Tc	794	July 26, 1973	16	--	25	23	321	10.0	458	67	317	.4	< .4	--	1,004	158	1,690	7.5	80.44	11.1	4.3	
901	Tc	794	Oct. 17, 1973	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
901	Tc	794	July 23, 1974	15	2.4	35	19	371	10.0	473	72	383	.3	.6	.7	1,161	166	1,940	7.8	81.90	12.5	4.4	
901	Tc	794	Feb. 13, 1975	--	--	29	8	124	--	344	27	54	.5	< .4	--	590	106	--	7.7	71.92	5.2	3.5	
901	Tc	794	June 24, 1975	16	--	27	22	359	--	468	61	348	.3	< .4	--	1,063	156	1,810	7.8	83.18	12.4	4.5	
901	Tc	794	July 7, 1976	17	11.1	30	21	348	--	466	56	350	.2	< .4	--	1,062	160	1,850	7.7	82.44	11.9	4.4	
901	Tc	794	June 17, 1977	15	--	26	21	315	--	456	53	297	.3	< .4	--	951	151	1,620	7.9	81.91	11.1	4.4	
902	Tc	960	May 2, 1969	16	.1	31	10	109	9.0	323	39	38	.5	< .4	--	412	118	661	7.5	64.58	4.3	2.9	
902	Tc	960	Sept. 16, 1976	--	.1	31	9	162	--	350	36	76	.4	< .4	--	640	113	--	7.7	72.97	5.7	3.4	
902	Tc	960	Nov. 4, 1976	--	2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
903	Tc	1,400	May 2, 1969	17	.2	41	15	75	10.0	287	53	32	.4	< .4	--	385	167	625	7.8	47.99	2.5	1.4	
903	Tc	1,400	Feb. 13, 1975	--	.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
903	Tc	1,400	Nov. 4, 1976	--	--	41	13	76	--	288	52	33	.4	1.1	--	520	155	--	8.1	51.48	2.6	1.6	
56-202	Tc	531	Apr. 22, 1969	14	--	7	9	188	4.0	453	30	40	.9	< .4	--	516	52	840	7.8	87.28	11.0	6.3	
202	Tc	531	July 27, 1977	17	--	10	2	202	--	450	42	39	.9	< .4	--	534	35	856	8.1	92.98	15.2	6.7	
901	Ts	79	Aug. 17, 1970	59	--	55	15	75	5.0	70	44	170	.2	25.0	--	482	198	789	6.5	44.27	2.3	.0	
901	Tc	79	June 17, 1977	63	--	42	4	71	--	102	37	84	.3	43.6	--	395	123	580	7.3	56.02	2.8	.0	
62-503	Tqc	600	June 27, 1977	22	--	58	22	115	--	316	116	82	.5	< .4	--	571	238	918	8.0	51.54	3.2	.4	
607	Ts	103	June 27, 1977	86	--	47	12	65	9.0	60	116	96	.2	16.3	--	477	166	666	7.2	44.25	2.1	.0	
902	Tc	1,600	June 24, 1955	17	--	61	11	39	8.9	274	28	27	.4	.2	.2	327	197	561	7.7	28.88	1.2	.5	
902	Tc	1,600	Apr. 2, 1969	17	--	65	10	39	9.0	272	30	27	.5	< .4	--	331	204	552	7.5	28.30	1.1	.3	
902	Tc	1,600	July 23, 1974	17	--	66	9	37	--	260	29	29	.5	< .4	.2	315	201	525	7.9	28.52	1.1	.2	
902	Tc	1,600	Aug. 4, 1976	17	--	61	10	37	9.0	250	32	28	.4	< .4	.3	318	195	521	8.6	28.20	1.1	.2	
902	Tc	1,600	June 27, 1977	17	--	61	11	41	9.5	273	32	28	.4	< .4	--	334	198	551	7.6	29.84	1.2	.5	
63-207	Ts	126	June 22, 1977	90	--	39	11	113	7.0	112	53	173	.4	15.4	--	556	144	747	7.2	61.86	4.1	.0	
803	Tc	2,215	June 28, 1972	--	--	22	6	127	--	354	29	35	.4	< .4	--	580	81	--	7.8	77.63	6.1	4.2	
803	Tc	2,215	May 2, 1973	--	.0	19	8	130	--	336	29	33	.5	< .4	--	560	80	--	7.6	77.88	6.3	3.9	

WILSON COUNTY

Table 4.---Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
AL-68-63-803	Tc	2,215	Sept. 6, 1973	--	0.0	21	6	128	--	323	38	41	0.6	1.5	--	560	78	--	8.1	78.31	6.3	3.7
803	Tc	2,215	Oct. 4, 1974	--	.0	22	7	120	--	343	25	39	.6	.7	--	570	83	--	7.9	75.72	5.7	3.9
803	Tc	2,215	Oct. 6, 1975	--	.0	21	6	124	--	333	27	37	.5	1.3	--	570	79	--	8.6	77.77	6.1	3.9
803	Tc	2,215	Oct. 27, 1976	--	.0	20	7	123	--	318	34	33	.4	.4	--	550	77	--	8.7	77.27	6.0	3.6
64-601	Tc	2,010	Apr. 29, 1953	21	.1	8	2	202	--	451	26	43	.5	.4	--	525	28	--	8.5	93.97	16.5	6.8
401	Tc	2,010	Nov. 22, 1955	21	--	42	1	205	3.6	461	38	37	.5	.0	0.3	575	16	857	7.7	79.70	8.5	5.3
401	Tc	2,010	Oct. 1, 1959	--	.1	6	2	185	--	473	19	38	.5	.4	--	501	21	835	8.2	94.55	16.7	7.2
401	Tc	2,010	Sept. 4, 1963	--	.1	5	1	217	--	510	5	41	.6	.4	--	790	18	980	8.4	96.60	23.1	8.0
401	Tc	2,010	Mar. 9, 1967	--	.0	4	3	173	--	368	54	32	.4	.4	--	630	20	--	8.2	94.40	15.9	5.5
401	Tc	2,010	May 2, 1969	22	.0	4	8	199	3.0	472	35	36	.7	.4	--	540	45	855	7.9	90.25	13.2	6.8
401	Tc	2,010	June 4, 1970	--	.0	5	2	197	--	470	39	25	.6	.4	--	740	21	--	8.0	95.39	18.8	7.2
401	Tc	2,010	Mar. 1, 1972	--	.0	5	2	206	--	476	36	36	.6	.4	--	760	22	--	8.1	95.58	19.6	7.3
401	Tc	2,010	Aug. 9, 1977	22	--	9	3	214	--	489	34	38	.4	.4	--	561	35	865	8.3	93.04	15.7	7.3
402	Tc	2,032	May 10, 1962	--	.1	4	2	200	--	460	39	44	.5	.4	--	534	18	890	7.8	95.98	20.3	7.1
402	Tc	2,032	Jan. 8, 1966	--	.0	4	2	200	--	456	42	33	.6	.4	--	720	19	880	8.1	95.98	20.3	6.7
402	Tc	2,032	Jan. 8, 1966	--	.1	4	2	176	--	361	51	29	.5	.4	--	630	20	800	8.5	95.46	17.9	5.5
402	Tc	2,032	Mar. 9, 1967	--	.0	3	3	202	--	460	36	38	.6	.4	--	740	20	--	7.9	95.68	19.7	7.1
402	Tc	2,032	May 2, 1969	23	.0	4	4	172	4.0	375	56	30	.4	.4	--	478	27	751	7.9	92.22	14.5	5.6
402	Tc	2,032	July 20, 1972	24	.0	5	3	174	1.0	371	55	30	.4	.4	--	475	24	720	7.9	93.55	15.1	5.5
402	Tc	2,032	Nov. 19, 1973	--	.0	6	2	213	--	482	26	39	.7	.4	--	770	21	--	8.3	95.23	19.2	7.4

ZAVALA COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Mt-trate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
ZX-69-58-801	Tc	84	Dec. 27, 1948	12	--	107	29	24	--	262	54	117	--	3.5	--	475	386	856	--	11.90	0.5	0.0
801	Tc	84	July 19, 1972	13	--	89	20	117	1.0	248	102	162	0.2	22.0	--	648	304	1,045	7.4	45.43	2.9	.0
801	Tc	84	July 9, 1973	11	--	119	32	120	1.0	238	145	231	.5	28.0	0.4	804	430	1,300	7.3	37.78	2.5	.0
801	Tc	84	July 11, 1974	10	--	74	19	96	--	242	120	100	.3	18.0	--	556	261	870	7.5	44.27	2.5	.0
801	Tc	84	July 16, 1975	10	--	86	21	59	--	234	72	106	.2	16.0	--	485	299	825	7.4	29.89	1.4	.0
801	Tc	84	July 23, 1976	12	--	115	31	58	--	217	74	183	.1	26.0	--	605	416	1,033	7.5	23.33	1.2	.0
801	Tc	84	June 30, 1977	12	--	104	29	69	--	223	133	137	.1	21.7	--	615	380	1,006	7.6	28.38	1.5	.0
802	Tc	203	Feb. 26, 1969	18	--	271	49	240	4.0	310	177	670	.3	43.0	--	1,624	880	2,680	7.1	37.15	3.5	.0
802	Tc	203	June 30, 1977	17	--	211	33	198	--	307	168	456	.1	66.2	--	1,300	660	2,110	7.5	39.40	3.3	.0
59-911	Tc	272	June 27, 1969	13	--	214	20	94	2.0	277	347	168	.4	11.5	--	1,006	618	1,380	7.3	24.83	1.6	.0
911	Tc	272	July 31, 1974	14	--	313	40	265	--	327	810	262	.6	55.0	--	1,920	950	2,400	7.7	37.87	3.7	.0
911	Tc	272	July 9, 1975	16	--	331	36	273	--	328	820	278	.6	62.0	--	1,977	980	2,530	7.3	37.87	3.8	.0
911	Tc	272	July 28, 1976	17	--	324	33	253	3.0	329	790	293	.1	56.0	--	1,930	950	2,500	7.4	36.72	3.5	.0
911	Tc	272	July 8, 1977	17	--	281	31	185	--	316	590	245	.1	45.3	--	1,549	830	2,100	7.4	32.68	2.7	.0
60-201	Tc	--	Apr. 16, 1970	27	--	108	6	35	1.0	281	42	52	.3	19.0	--	428	295	690	7.6	20.49	.8	.0
201	Tc	--	July 11, 1974	29	--	106	4	29	--	278	24	46	.3	37.0	--	411	284	643	7.5	18.33	.7	.0
201	Tc	--	July 8, 1975	31	--	108	3	30	--	281	23	45	.3	37.0	--	415	281	662	7.5	18.80	.7	.0
201	Tc	--	July 27, 1976	30	--	107	4	30	--	284	25	45	.2	34.0	--	414	285	661	7.6	18.71	.7	.0
201	Tc	--	June 28, 1977	30	--	127	8	38	3.0	282	45	92	.3	36.9	--	518	351	840	7.5	18.94	.8	.0
801	Tms	--	May 13, 1976	30	--	110	8	30	--	329	26	53	.3	7.0	--	426	308	694	7.3	17.51	.7	.0
801	Tms	--	July 6, 1977	18	--	114	9	38	4.0	336	34	64	.3	7.3	--	453	322	760	7.6	20.19	.9	.0
61-509	Tc	250	Aug. 2, 1968	22	--	124	16	17	--	395	30	38	.3	2.5	--	444	377	750	7.4	8.97	.3	.0
509	Tc	250	July 11, 1974	22	--	177	21	37	6.0	394	48	162	.2	8.0	.3	675	530	1,094	7.5	13.06	.7	.0
509	Tc	250	July 8, 1975	23	--	196	21	40	--	390	46	202	.3	8.0	--	728	580	1,220	7.5	13.13	.7	.0
509	Tc	250	June 28, 1977	24	--	255	34	56	--	371	74	371	.2	10.5	--	1,007	780	1,720	7.4	13.56	.8	.0
526	Keab	3,488	July 15, 1976	12	--	600	115	186	12.0	84	1,680	358	2.3	< .4	.6	3,007	1,960	3,400	6.9	16.92	1.8	.0
526	Keab	3,488	June 28, 1977	19	--	670	110	187	13.0	179	1,890	349	2.7	< .4	--	3,329	2,130	3,590	7.1	15.96	1.7	.0
76-08-503	Tc	150	Apr. 7, 1970	43	--	107	18	90	2.0	334	59	120	.3	26.0	--	629	341	1,000	7.5	36.29	2.1	.0
503	Tc	150	June 29, 1977	23	--	232	82	1,150	--	193	780	1,750	.4	< .4	--	4,112	920	5,980	7.8	73.19	16.5	.0
24-201	Tc	300	July 25, 1974	14	--	50	10	163	4.0	317	112	116	.7	< .4	--	625	165	1,003	7.9	67.46	5.5	1.8
201	Tc	300	July 10, 1975	17	--	131	24	320	--	336	311	374	.9	< .4	--	1,343	424	2,100	7.7	62.05	6.7	.0
201	Tc	300	July 21, 1976	14	--	36	10	141	--	316	74	72	.5	< .4	--	503	130	820	7.9	70.07	5.3	2.5
201	Tc	300	July 1, 1977	14	--	33	7	135	--	315	66	58	.5	< .4	--	468	112	763	8.0	72.54	5.5	2.9

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Table 4.--Chemical Analyses of Water From Selected Well.--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
ZX-76-24-201	Tb	180	Dec. 18 1974	13	--	36	12	125	4.0	268	142	38	0.7	< 0.4	--	502	141	760	7.9	65.33	4.6	1.6
	Tb	180	July 10, 1975	14	--	28	8	124	--	304	63	37	.6	< .4	--	424	102	702	7.7	72.41	5.3	2.9
	Tb	180	July 21, 1976	14	--	27	10	123	--	299	84	39	.6	< .4	--	445	109	712	7.8	71.14	5.1	2.7
	Tb	180	July 1, 1977	17	--	29	9	129	--	292	98	38	.5	< .4	--	464	109	729	7.9	71.95	5.3	2.5
	Tc	--	July 8, 1969	16	--	43	9	68	--	288	37	19	.4	< .4	--	334	146	542	7.6	50.61	2.4	1.8
	Tc	--	July 20, 1972	16	--	43	12	100	1.0	306	50	53	.3	< .4	--	426	157	690	7.7	57.93	3.4	1.8
	Tc	--	July 10, 1973	14	0.5	38	12	77	1.0	293	38	26	.5	< .4	0.6	332	144	595	7.6	53.52	2.7	1.9
	Tc	--	July 10, 1974	14	--	41	10	74	--	288	37	23	.4	.6	.3	341	143	550	7.9	52.88	2.6	1.8
	Tc	--	July 10, 1975	15	--	41	8	80	--	295	35	26	.4	< .4	--	350	137	593	7.8	56.27	2.9	2.1
	Tc	--	July 22, 1976	16	--	39	9	81	4.0	295	34	27	.3	< .4	.3	356	137	584	7.8	55.82	3.0	2.1
77-01-101	Tc	--	July 1, 1977	16	--	42	10	75	--	290	40	23	.4	< .4	--	349	147	565	7.8	52.78	2.7	1.8
	Tc	150	Apr. 7, 1970	27	--	128	30	100	2.0	328	125	181	.5	< .4	--	755	442	1,200	7.7	32.81	2.0	.0
	Tc	150	July 25, 1974	26	--	142	25	98	3.0	337	144	185	.6	< .4	--	789	456	1,250	7.7	31.62	1.9	.0
	Tc	150	July 16, 1975	28	--	141	26	99	--	332	145	183	.6	< .4	--	786	460	1,200	7.6	31.94	2.0	.0
	Tc	150	July 22, 1976	31	--	139	27	98	--	334	130	181	.4	< .4	--	771	459	1,240	7.9	31.76	1.9	.0
	Tc	150	June 29, 1977	31	--	132	28	102	--	331	144	180	.4	< .4	--	780	445	1,240	7.9	33.29	2.1	.0
	Tb	--	Dec. 18, 1974	30	--	85	19	30	--	342	34	29	.4	< .4	--	395	293	630	7.8	18.35	.7	.0
	Tb	--	July 21, 1975	28	--	90	17	30	--	344	33	31	.4	< .4	--	398	295	635	7.6	18.14	.7	.0
	Tb	--	July 22, 1976	31	--	85	20	27	--	344	31	31	.3	< .4	--	394	295	636	7.7	16.63	.6	.0
	Tb	--	June 30, 1977	32	--	86	19	30	--	345	33	35	.3	< .4	--	405	291	655	7.6	18.22	.7	.0
02-402	Tc	575	Nov. 30, 1960	--	.4	76	18	15	--	311	23	17	.2	< .4	--	334	263	557	7.4	11.01	.4	.0
	Tc	575	Sept. 5, 1962	--	.0	76	14	12	--	284	27	14	.2	< .4	--	317	248	528	7.2	9.55	.3	.0
	Tc	575	Mar. 27, 1968	18	--	77	13	13	--	287	23	17	.3	< .4	--	302	248	514	7.6	10.32	.3	.0
	Tc	575	June 29, 1972	--	--	79	13	12	--	283	22	14	.3	< .4	--	423	251	--	7.2	9.43	.3	.0
	Tc	575	July 19, 1972	20	--	80	14	11	1.0	283	23	15	.2	< .4	.1	303	257	485	7.6	8.47	.2	.0
	Tc	575	Mar. 23, 1974	--	--	82	12	13	--	285	25	18	.2	< .4	--	435	255	--	7.4	10.01	.3	.0
	Tc	575	Mar. 4, 1975	--	--	82	12	12	--	287	25	16	.3	.8	--	435	254	--	7.5	9.32	.3	.0
	Tc	575	June 30, 1977	23	--	81	11	12	--	282	25	16	.2	< .4	--	307	251	509	7.7	9.56	.3	.0
	Q1e	70	Feb. 26, 1969	18	--	254	99	225	3.0	378	304	610	.4	21.5	--	1,720	1,040	2,730	7.0	31.90	3.0	.0
	Q1e	70	June 29, 1977	23	--	210	63	214	--	405	340	394	.2	27.6	--	1,470	790	2,240	7.6	37.28	3.3	.0
03-402	Tc	697	July 29, 1976	25	--	113	11	27	--	328	55	46	.3	< .4	--	438	329	696	7.9	15.21	.6	.0
	Tc	697	June 29, 1977	26	--	112	13	32	--	341	59	49	.3	< .4	--	459	333	741	7.8	17.29	.7	.0
	Tb	220	Dec. 17, 1974	27	--	130	31	166	--	378	311	128	1.2	< .4	--	980	454	1,400	7.9	44.41	3.3	.0

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
ZX-77-03-502	Tb	220	July 9, 1975	27	--	127	34	163	--	379	317	127	1.1	< 0.4	--	982	455	1,450	8.0	43.70	3.3	0.0
503	Tb	210	Dec. 17, 1974	23	--	79	24	173	7.0	365	157	158	1.5	< .4	--	802	298	1,250	7.8	55.25	4.3	.0
503	Tb	210	July 9, 1975	22	--	85	21	173	--	367	138	154	1.6	< .4	--	775	297	1,260	7.7	55.76	4.3	.0
504	Tb	208	Dec. 17, 1974	23	--	72	20	194	8.0	379	164	164	1.6	< .4	--	833	263	1,280	7.9	60.79	5.2	.9
504	Tb	208	July 9, 1975	21	--	71	19	190	8.0	373	157	157	1.5	< .4	--	808	256	1,250	8.0	60.88	5.1	1.0
505	Tb	208	Dec. 17, 1974	20	--	78	24	260	9.0	415	213	234	1.6	< .4	--	1,044	294	1,600	7.8	64.97	6.6	.9
505	Tb	208	July 9, 1975	17	--	77	25	260	--	410	203	230	1.5	< .4	--	1,015	295	1,620	7.9	65.72	6.5	.8
506	Tb	195	Dec. 19, 1974	29	--	93	21	108	8.0	361	147	92	.9	< .4	--	676	320	1,016	7.8	41.68	2.6	.0
506	Tb	195	July 9, 1975	24	--	72	17	112	--	327	99	92	.9	< .4	--	578	250	920	8.1	49.39	3.0	.3
506	Tb	195	July 29, 1976	30	--	95	21	113	--	360	144	92	.8	< .4	--	673	324	1,035	7.9	43.18	2.7	.0
506	Tb	195	June 29, 1977	36	--	99	23	120	8.0	362	164	114	.8	< .4	--	743	362	1,131	7.9	42.59	2.8	.0
04-206	Tb	155	May 12, 1976	37	--	510	102	89	--	217	99	1,110	.3	62.0	--	2,115	1,690	3,500	7.2	10.26	.9	.0
207	Tb	112	May 12, 1976	21	--	79	23	134	--	365	124	119	.6	< .4	--	680	291	1,082	7.6	49.98	3.4	.1
207	Tb	112	June 29, 1977	25	--	76	22	133	8.0	357	130	119	.6	< .4	--	689	281	1,095	7.9	49.91	3.4	.2
431	Tc	922	July 9, 1973	14	0.0	86	10	11	2.0	279	24	16	.3	< .4	--	300	257	510	7.2	8.47	.2	.0
431	Tc	922	July 11, 1974	14	.1	89	8	10	5.0	278	25	16	.2	< .4	0.1	304	256	493	7.6	7.66	.2	.0
431	Tc	922	July 8, 1975	16	--	90	8	10	--	282	20	16	.3	< .4	--	299	256	555	7.6	7.79	.2	.0
431	Tc	922	July 29, 1976	16	.1	90	8	10	--	283	25	16	.2	< .4	--	304	257	501	8.1	7.79	.2	.0
431	Tc	922	June 28, 1977	14	--	90	7	11	--	285	26	15	.2	< .4	--	303	255	512	7.5	8.62	.3	.0
608	Tc	960	Feb. 27, 1969	13	--	30	19	356	10.0	210	63	500	1.2	< .4	--	1,095	152	1,960	8.1	82.36	12.5	.3
608	Tc	960	June 29, 1977	13	--	41	12	378	--	210	106	494	1.1	< .4	--	1,148	152	2,000	7.4	84.42	13.3	.4
818	Tc	1,087	Nov. 6, 1968	16	--	87	10	11	2.0	268	30	20	.3	< .4	.2	308	259	523	7.6	8.40	.2	.0
818	Tc	1,087	July 8, 1977	16	--	88	8	17	2.0	392	34	20	.3	< .4	--	378	254	535	7.7	12.66	.4	1.3
09-102	Tc	600	Apr. 7, 1970	15	--	63	30	430	3.0	270	224	540	.7	< .4	1.5	1,440	280	2,340	7.9	76.68	11.1	.0
102	Tc	600	July 7, 1977	18	--	81	28	437	--	300	240	550	.6	< .4	--	1,502	319	2,450	7.7	74.97	10.6	.0
605	Tc	848	July 29, 1976	19	--	66	10	59	--	310	40	29	.4	< .4	--	376	207	601	7.8	38.40	1.7	.9
10-102	Tc	--	June 7, 1968	19	--	81	13	18	--	306	24	14	.4	< .4	--	320	255	534	7.4	13.28	.4	.0
102	Tc	--	June 30, 1977	23	--	81	12	19	--	307	23	14	.3	< .4	--	323	254	534	7.8	14.11	.5	.0
611	Tc	903	July 8, 1969	18	--	120	17	30	--	361	65	51	.4	< .4	--	479	371	775	7.3	15.01	.6	.0
611	Tc	903	July 8, 1977	19	--	116	16	32	--	356	70	51	.4	< .4	--	479	358	782	7.5	16.38	.7	.0
904	Tc	1,007	Feb. 18, 1969	16	--	102	18	40	5.0	350	82	41	.4	< .4	.3	477	330	767	7.3	20.62	.9	.0
904	Tc	1,007	July 8, 1977	19	--	100	18	43	6.0	346	80	41	.4	< .4	--	477	322	759	7.4	22.02	1.0	.0
911	Tc	929	May 6, 1975	23	--	77	16	71	--	322	71	53	.4	< .4	--	470	256	755	7.7	37.45	1.9	.1

ZAVALA COUNTY  
 Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
ZX-77-11-409	Tb	865	Aug. 21, 1975	11	0.3	15	3	470	5.0	407	248	355	1.6	< 0.4	2.7	1,312	49	2,040	8.3	94.79	28.9	5.6
409	Tb	865	Aug. 21, 1975	12	.9	17	3	456	5.0	411	237	351	1.5	< .4	2.6	1,288	53	2,010	8.2	94.19	26.8	5.6
409	Tb	865	Aug. 21, 1975	13	.3	30	3	153	5.0	312	93	56	.6	< .4	.6	508	88	800	8.1	78.05	7.1	3.3
409	Tb	865	Aug. 21, 1975	13	.7	28	4	150	5.0	314	86	56	.6	< .4	.5	498	88	797	8.1	77.87	7.0	3.4
409	Tb	865	Aug. 22, 1975	12	.5	21	3	560	7.0	426	277	459	1.8	< .4	3.0	1,554	63	2,400	8.1	94.29	30.2	5.6
409	Tb	865	Aug. 22, 1975	11	.8	23	3	590	7.0	464	279	459	1.8	< .4	3.0	1,606	69	2,400	8.2	94.22	30.7	6.2
409	Tb	865	Sept. 2, 1975	10	--	18	7	640	--	406	302	590	1.8	< .4	--	1,768	73	2,750	8.0	94.97	32.4	5.1
409	Tb	865	Sept. 2, 1975	10	--	22	6	640	--	411	296	590	1.8	< .4	--	1,768	79	2,800	8.0	94.59	31.2	5.1
409	Tb	865	Sept. 2, 1975	10	--	20	7	640	--	406	268	590	1.8	< .4	--	1,736	76	2,760	8.2	94.65	31.3	5.0
409	Tb	865	Sept. 10, 1975	19	--	98	39	670	--	610	810	357	1.7	< .4	--	2,295	408	3,150	7.4	78.25	14.4	1.9
409	Tb	865	Sept. 10, 1975	18	--	97	42	680	--	610	870	364	1.9	< .4	--	2,373	414	3,100	7.4	78.10	14.5	1.7
409	Tb	865	Sept. 10, 1975	19	--	94	44	680	--	610	850	362	1.9	< .4	--	2,351	414	3,090	7.3	78.06	14.5	1.6
409	Tb	865	Sept. 10, 1975	13	--	44	14	406	--	510	419	150	1.6	< .4	--	1,298	168	1,880	7.6	84.06	13.6	5.0
409	Tb	865	Sept. 10, 1975	12	--	46	15	405	--	520	387	150	1.7	< .4	--	1,272	176	1,900	7.4	83.31	13.2	4.9
409	Tb	865	Sept. 10, 1975	18	--	48	16	409	--	560	393	149	1.4	< .4	--	1,310	187	1,840	7.3	82.74	13.0	5.4
409	Tb	865	Nov. 19, 1975	3	--	2	1	177	273.0	--	60	43	.5	< .4	--	900	4	1,960	11.3	51.79	25.5	--
701	Tc	1,163	Dec. 27, 1948	16	--	98	25	24	--	320	83	36	--	--	--	439	--	754	--	13.06	.5	.0
701	Tc	1,163	June 7, 1968	17	--	107	14	35	--	344	75	34	.5	< .4	--	432	325	734	7.3	19.00	.8	.0
701	Tc	1,163	July 10, 1973	15	.6	101	18	35	3.0	342	66	36	.6	.9	.2	444	327	735	7.5	18.75	.8	.0
701	Tc	1,163	July 10, 1974	16	--	102	18	35	--	343	75	35	.5	< .4	--	450	329	709	7.6	18.81	.8	.0
701	Tc	1,163	July 15, 1975	14	--	182	56	2,150	--	212	630	3,270	1.5	.1	--	6,407	680	8,600	6.9	87.23	35.7	.0
701	Tc	1,163	July 29, 1976	12	--	70	16	35	--	284	37	33	.3	< .4	--	343	239	575	8.0	24.04	.9	.0
701	Tc	1,163	June 30, 1977	23	--	103	15	36	6.0	345	76	35	.4	< .4	--	464	320	726	7.7	19.35	.8	.0
703	Tc	1,137	Dec. 19, 1974	16	--	101	13	36	4.0	336	69	33	.4	< .4	--	438	307	690	7.7	20.13	.8	.0
703	Tc	1,137	Jan. 24, 1975	17	--	100	13	35	--	334	66	32	.5	< .4	--	428	304	687	7.8	20.08	.8	.0
703	Tc	1,137	Feb. 28, 1975	16	--	95	15	38	--	333	61	32	.6	< .4	--	421	301	700	7.8	21.67	.9	.0
703	Tc	1,137	Apr. 29, 1975	16	--	103	12	36	--	334	63	32	.5	< .4	--	427	306	695	7.6	20.35	.8	.0
703	Tc	1,137	May 27, 1975	16	--	100	13	35	--	332	60	31	.5	< .4	--	419	304	690	7.6	20.08	.8	.0
703	Tc	1,137	June 23, 1975	19	--	100	12	36	--	331	60	32	.6	< .4	--	422	299	700	7.5	20.76	.9	.0
703	Tc	1,137	July 25, 1975	16	--	104	11	36	--	336	59	32	.5	< .4	--	424	306	685	7.9	20.44	.8	.0
703	Tc	1,137	Sept. 26, 1975	19	--	100	13	35	--	336	57	32	.5	< .4	--	422	306	680	7.9	20.08	.8	.0
703	Tc	1,137	Oct. 22, 1975	19	--	99	16	35	--	336	65	32	.4	< .4	--	432	312	680	7.9	19.57	.8	.0
703	Tc	1,137	Nov. 19, 1975	17	--	99	16	36	--	337	64	32	.4	< .4	--	430	311	689	8.0	20.02	.8	.0

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25 °C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
ZX-77-11-703	Tc	1,137	Dec. 19, 1975	20	--	100	14	35	--	337	61	32	0.4	< 0.4	--	428	308	700	8.2	19.86	0.8	0.0
703	Tc	1,137	July 29, 1976	16	--	95	14	38	--	339	53	31	.4	< .4	--	414	297	675	7.8	21.90	.9	.0
703	Tc	1,137	June 30, 1977	18	--	93	14	43	--	334	65	31	.4	< .4	--	429	289	692	7.7	24.41	1.0	.0
17-105	Tc	618	July 9, 1969	17	--	47	14	61	--	290	36	17	.5	< .4	--	335	174	550	7.7	43.14	2.0	1.2
105	Tc	618	July 11, 1973	15	--	45	13	66	2.0	292	34	21	.4	.5	--	340	165	560	7.7	46.03	2.2	1.4
105	Tc	618	July 10, 1974	15	--	47	11	65	--	290	37	20	.4	.6	--	338	163	547	7.8	46.52	2.2	1.5
105	Tc	618	July 10, 1975	17	--	49	10	65	--	293	34	22	.5	< .4	0.3	342	163	560	7.7	46.39	2.2	1.5
105	Tc	618	July 1, 1977	17	--	47	11	66	--	292	37	20	.4	< .4	--	342	161	556	7.7	46.90	2.2	1.5
18-401	Tc	1,054	Oct. 8, 1946	17	0.3	67	21	45	--	275	63	43	.4	< .4	--	392	254	--	7.1	27.85	1.2	.0
401	Tc	1,054	Jan. 13, 1948	17	.4	63	19	53	--	287	57	39	.5	< .4	--	390	235	--	7.8	32.88	1.5	.0
401	Tc	1,054	Mar. 30, 1955	14	.2	55	15	63	--	275	53	39	.3	< .4	--	375	199	--	7.6	40.78	1.9	.5
401	Tc	1,054	Apr. 9, 1958	--	.3	55	15	47	--	278	46	34	.4	< .4	--	334	200	575	7.6	33.94	1.4	.5
401	Tc	1,054	Apr. 13, 1959	--	.3	53	15	45	--	266	50	34	.3	< .4	--	328	196	637	7.2	33.54	1.4	.4
401	Tc	1,054	July 25, 1960	--	.6	53	17	49	--	275	50	23	.3	< .4	--	327	205	594	7.4	34.52	1.4	.4
401	Tc	1,054	May 11, 1961	--	.4	55	16	53	--	278	45	30	.4	< .4	--	336	203	614	7.5	36.21	1.6	.4
401	Tc	1,054	May 22, 1962	--	.5	52	16	55	--	268	44	34	.3	< .4	--	333	195	600	7.5	37.95	1.7	.4
401	Tc	1,054	May 8, 1963	--	1.8	51	16	54	--	257	42	32	1.1	< .4	--	322	195	633	7.4	37.82	1.6	.3
401	Tc	1,054	May 11, 1964	--	.0	54	14	52	--	270	50	32	.5	< .4	--	336	192	642	7.7	37.03	1.6	.5
401	Tc	1,054	May 14, 1965	--	.2	56	13	52	--	266	47	36	.5	< .4	--	336	196	651	8.0	36.92	1.6	.4
401	Tc	1,054	May 3, 1966	--	.1	56	14	52	--	262	44	31	.3	< .4	--	326	195	627	7.8	36.43	1.6	.3
401	Tc	1,054	June 1, 1967	--	.1	57	13	52	--	270	44	33	.4	< .4	--	332	196	--	7.6	36.62	1.6	.5
401	Tc	1,054	June 14, 1968	--	.4	23	37	53	--	268	49	32	.4	< .4	--	326	209	--	7.8	35.49	1.5	.2
401	Tc	1,054	June 2, 1969	--	.1	59	13	90	--	260	58	89	.2	< .4	--	437	203	--	8.0	49.38	2.7	.2
401	Tc	1,054	June 5, 1970	--	.1	56	14	63	--	264	51	51	.4	< .4	--	365	199	--	8.0	40.98	1.9	.3
401	Tc	1,054	June 4, 1971	--	--	60	15	95	--	266	63	100	.4	< .4	--	464	211	--	7.9	49.43	2.8	.1
401	Tc	1,054	July 3, 1972	--	--	62	16	95	--	266	61	103	.4	< .4	--	468	219	--	7.8	48.37	2.7	.0
401	Tc	1,054	June 5, 1973	--	.2	55	15	55	--	264	46	39	.4	< .4	--	474	199	--	7.6	37.55	1.6	.3
401	Tc	1,054	July 10, 1973	17	--	58	15	94	1.0	266	56	91	.5	< .4	.2	463	209	795	7.5	49.60	2.8	.2
401	Tc	1,054	Oct. 22, 1973	--	2.1	104	16	34	--	344	78	35	.5	< .4	--	620	323	--	7.8	18.52	.8	.0
401	Tc	1,054	July 11, 1974	--	.5	55	14	69	--	267	51	55	.4	< .4	--	510	195	--	7.8	43.51	2.1	.4
401	Tc	1,054	July 12, 1974	17	--	55	13	63	--	266	52	45	.4	< .4	--	376	192	608	7.6	41.81	1.9	.5
401	Tc	1,054	July 10, 1975	19	--	60	11	60	--	268	43	43	.5	< .4	--	368	194	617	7.7	40.10	1.8	.4
401	Tc	1,054	July 15, 1975	--	.5	60	11	68	--	268	49	56	.5	< .4	--	510	197	--	7.7	43.14	2.1	.4

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Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance as microhmhos at 25°C	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	
ZX-77-18-401	Tc	1,054	Oct. 22, 1975	--	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
401	Tc	1,054	July 20, 1976	--	.4	57	13	63	--	266	47	50	0.3	< 0.4	--	496	197	--	7.6	41.18	1.9	.4	
401	Tc	1,054	July 21, 1976	19	--	57	12	60	--	267	39	40	.4	< .4	--	359	192	600	7.8	40.52	1.8	.5	
402	Tc	976	July 9, 1969	19	--	45	11	50	--	253	31	19	.5	< .4	--	300	158	496	7.5	40.84	1.7	.9	
402	Tc	976	July 20, 1972	16	--	12	4	81	1.0	178	33	27	.4	< .4	0.2	262	46	413	7.9	78.70	5.1	1.9	
402	Tc	976	July 6, 1977	19	--	48	12	196	--	251	84	221	.4	< .4	--	704	170	1,194	7.7	71.59	6.5	.7	
503	Tc	995	May 13, 1949	24	1.0	66	15	83	--	311	65	59	.4	< .4	--	466	226	--	7.2	44.36	2.3	.5	
503	Tc	995	Aug. 8, 1952	18	--	66	18	90	--	311	77	71	.5	< .4	--	493	239	--	7.5	45.05	2.5	.3	
503	Tc	995	Nov. 23, 1964	--	2.4	60	14	95	--	281	59	91	.4	7.0	--	464	209	900	7.5	49.92	2.8	.4	
503	Tc	995	Aug. 25, 1965	--	.1	42	13	372	--	260	128	462	.7	< .4	--	1,146	161	2,400	7.6	83.64	12.8	1.0	
503	Tc	995	Oct. 15, 1966	--	.0	65	15	66	--	298	62	44	.4	< .4	--	399	225	756	7.5	39.07	1.9	.4	
503	Tc	995	Jan. 16, 1968	--	1.4	56	16	59	--	275	50	46	.4	< .4	--	362	205	700	7.6	38.43	1.7	.3	
503	Tc	995	Jan 13, 1969	--	.0	58	55	1	--	273	52	36	.5	< .4	--	297	208	680	7.8	.58	.0	.0	
503	Tc	995	July 20, 1972	21	.4	60	17	82	1.0	276	60	73	.4	< .4	.3	451	220	717	7.6	44.67	2.4	.1	
510	Tc	950	Aug. 23, 1938	15	.4	64	18	65	--	305	64	42	.4	< .4	--	419	234	--	7.4	37.69	1.8	.3	
510	Tc	950	Sept. 15, 1939	17	1.4	60	13	78	--	301	63	43	.4	< .4	--	424	--	--	7.6	45.50	2.3	.8	
510	Tc	950	Feb. 2, 1941	17	.6	63	17	72	--	317	65	39	.6	< .4	--	430	227	--	7.7	40.81	2.0	.6	
510	Tc	950	Dec. 9, 1942	20	1.1	63	17	66	--	299	65	41	.4	.7	--	421	227	--	7.8	38.73	1.9	.3	
510	Tc	950	Jan. 8, 1945	19	.3	64	19	61	--	296	64	43	.2	< .4	--	416	238	--	7.5	35.81	1.7	.0	
510	Tc	950	Oct. 19, 1946	18	--	72	19	64	1.0	293	78	53	.1	< .4	--	449	258	--	7.1	34.95	1.7	.0	
510	Tc	950	July 11, 1947	17	.2	66	18	45	--	299	72	11	.5	< .4	--	377	239	--	7.8	29.08	1.2	.1	
510	Tc	950	Mar. 7, 1953	22	.2	51	16	204	--	51	16	227	.5	< .4	--	562	193	--	7.8	69.68	6.3	.0	
510	Tc	950	Apr. 24, 1954	14	.1	36	26	157	--	281	85	156	.3	< .4	--	612	197	--	7.3	63.44	4.8	.6	
510	Tc	950	Aug. 26, 1955	19	.9	53	15	137	--	268	66	144	.4	< .4	--	567	194	--	7.9	60.57	4.2	.5	
510	Tc	950	Sept. 8, 1956	--	.0	64	15	65	--	293	62	42	.4	< .4	--	459	224	--	7.7	38.97	1.9	.3	
510	Tc	950	Aug. 23, 1962	--	.6	60	20	86	--	278	63	82	.3	< .4	--	448	234	830	7.6	44.64	2.4	.0	
510	Tc	950	Sept. 3, 1963	--	.1	58	16	70	--	283	55	557	.4	< .4	--	390	211	750	7.4	41.97	2.0	.4	
510	Tc	950	Nov. 20, 1964	--	.1	60	15	60	--	281	52	44	.4	< .4	--	369	214	724	7.4	38.17	1.7	.3	
510	Tc	950	Aug. 25, 1965	--	.0	61	14	58	--	279	52	44	.4	< .4	--	366	212	728	7.5	37.55	1.7	.3	
510	Tc	950	Oct. 15, 1966	--	.0	55	15	67	--	278	52	47	.4	< .4	--	373	198	704	7.6	42.28	2.0	.5	
510	Tc	950	Jan. 16, 1968	--	.8	56	16	57	--	275	51	41	.4	< .4	--	356	207	688	7.6	37.62	1.7	.3	
510	Tc	950	Jan. 13, 1969	--	1.9	58	15	60	--	276	52	44	.4	< .4	--	365	209	725	7.8	38.73	1.8	.3	
511	Tc	900	Dec. 9, 1942	31	.3	63	17	58	--	293	64	34	.6	.7	--	412	227	--	7.9	35.71	1.6	.2	

ZAVALA COUNTY

Table 4. --Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (microhmhos at 25°C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
ZX-77-18-511	Tc	900	Jan. 8, 1945	20	0.4	64	19	60	--	293	64	43	0.2	< 0.4	--	415	238	--	7.5	35.43	1.6	0.0
511	Tc	900	Oct. 18, 1946	21	.1	67	16	62	--	293	70	39	.1	< .4	--	419	233	--	7.1	36.66	1.7	.1
511	Tc	900	July 11, 1947	18	.2	67	18	61	--	293	69	43	.4	< .4	--	421	241	--	7.8	35.48	1.7	.0
511	Tc	900	May 13, 1949	21	.6	66	15	106	--	293	78	96	.4	< .4	--	527	227	--	7.3	50.45	3.0	.2
511	Tc	900	Aug. 8, 1952	19	.2	63	18	65	--	293	64	46	.3	< .4	--	419	231	--	7.5	37.94	1.8	.1
511	Tc	900	Mar. 3, 1953	17	.1	62	18	52	--	293	58	28	.5	< .4	--	380	229	--	7.4	33.08	1.4	.2
511	Tc	900	Apr. 24, 1954	20	.2	32	32	73	--	293	67	43	.4	< .4	--	412	212	--	7.4	42.88	2.1	.5
511	Tc	900	Aug. 26, 1955	15	.1	59	20	62	--	287	61	46	.4	< .4	--	405	229	--	7.8	37.01	1.7	.1
511	Tc	900	Oct. 21, 1957	--	.2	56	26	57	--	298	75	40	.4	< .4	--	401	250	660	7.2	33.45	1.5	.0
511	Tc	900	Nov. 17, 1958	--	.2	57	16	58	--	296	47	36	.3	< .4	--	360	208	632	7.6	37.75	1.7	.6
511	Tc	900	July 20, 1959	10	.2	58	15	60	--	278	64	40	.3	< .4	--	384	207	665	7.1	38.73	1.8	.4
511	Tc	900	Nov. 10, 1960	--	.1	56	18	60	--	281	54	35	.2	< .4	--	361	213	649	7.3	37.91	1.7	.3
511	Tc	900	July 21, 1961	--	.1	56	15	62	--	276	57	36	.2	< .4	--	362	203	652	7.1	40.10	1.9	.4
511	Tc	900	Aug. 23, 1962	--	.1	56	16	60	--	279	56	35	.3	< .4	--	360	203	660	7.5	38.83	1.8	.4
511	Tc	900	Nov. 23, 1964	--	.3	60	15	60	--	281	53	44	.4	< .4	--	370	209	724	7.4	38.17	1.7	.3
511	Tc	900	Aug. 25, 1965	--	.0	60	15	56	--	276	50	37	.4	< .4	--	354	213	688	7.5	36.55	1.6	.2
511	Tc	900	Oct. 15, 1966	--	.0	60	14	58	--	282	54	37	.4	< .4	--	362	206	688	7.5	37.83	1.7	.4
511	Tc	900	Jan. 16, 1968	--	.1	56	15	55	--	273	49	38	.4	< .4	--	347	202	676	7.6	37.26	1.6	.4
511	Tc	900	Jan. 13, 1969	--	.1	80	1	52	--	276	49	32	.5	< .4	--	350	200	660	7.6	35.69	1.5	.4
512	Tc	1,000	Nov. 17, 1948	--	.2	50	14	54	--	262	36	29	.4	< .4	--	312	184	562	7.5	39.18	1.7	.6
512	Tc	1,000	May 13, 1949	20	.2	56	14	64	--	275	46	44	.4	< .4	--	380	197	--	7.1	41.36	1.9	.5
512	Tc	1,000	Aug. 8, 1952	15	.3	62	16	85	--	299	77	57	.6	< .4	--	460	221	--	7.5	45.60	2.4	.4
512	Tc	1,000	Mar. 7, 1953	21	.3	49	13	75	--	275	47	46	.5	< .4	--	387	176	--	7.3	48.14	2.4	.9
512	Tc	1,000	Apr. 24, 1954	14	.1	37	21	75	--	21	53	43	.3	< .4	--	254	179	--	7.5	47.72	2.4	.0
512	Tc	1,000	Aug. 26, 1955	14	.1	50	17	60	--	275	47	36	.4	< .4	--	360	195	--	7.6	40.13	1.8	.6
512	Tc	1,000	Sept. 8, 1956	--	.1	52	12	55	--	260	38	28	.2	< .4	--	353	182	--	--	40.04	1.7	.6
512	Tc	1,000	Oct. 21, 1957	--	.3	50	12	68	--	276	61	33	.4	< .4	--	360	175	600	7.2	45.93	2.2	1.0
512	Tc	1,000	July 20, 1959	10	.2	50	14	53	--	261	46	26	.3	< .4	--	328	182	590	7.3	38.73	1.7	.6
512	Tc	1,000	Oct. 10, 1960	--	.2	50	15	53	--	262	41	28	.2	< .4	--	316	188	584	7.4	38.20	1.6	.5
512	Tc	1,000	July 21, 1961	--	.1	49	14	57	--	260	46	31	.2	< .4	--	325	179	590	7.0	40.80	1.8	.6
512	Tc	1,000	Aug. 23, 1962	--	.1	49	13	53	--	264	44	30	.3	< .4	--	319	177	652	7.7	39.61	1.7	.8
512	Tc	1,000	Sept. 6, 1963	--	.2	58	15	161	--	275	77	181	.4	< .4	--	627	205	1,230	7.5	62.91	4.8	.3
512	Tc	1,000	Nov. 20, 1964	--	.1	52	13	55	--	266	40	33	.4	< .4	--	324	183	640	7.4	39.50	1.7	.6

ZAVALA COUNTY

Table 4.--Chemical Analyses of Water From Selected Wells--Continued

Well	Aquifer	Depth of well	Date of sample	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Specific conductance (micromhos at 25° C)	pH	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)
ZX-77-18-512	Tc	1,000	Aug. 25, 1965	--	0.0	51	14	55	--	262	38	30	0.4	< 0.4	--	317	184	615	7.5	39.29	1.7	0.5
512	Tc	1,000	Oct. 15, 1966	--	.4	62	14	61	--	285	59	40	.4	< .4	--	376	211	704	7.5	38.46	1.8	.4
512	Tc	1,000	Jan. 16, 1968	--	.3	56	15	89	--	278	48	81	.4	< .4	--	426	201	865	7.6	49.00	2.7	.5
512	Tc	1,000	Jan. 13, 1969	--	.1	50	12	52	--	264	39	26	.4	< .4	--	309	176	600	7.8	39.38	1.7	.3
713	Tb	292	Dec. 18, 1974	10	--	143	41	1,930	--	214	1,180	2,400	1.7	< .4	--	5,811	530	7,450	7.6	88.87	36.6	.0
77-20-101	Tc	4,698	Feb. 24, 1965	18	--	29	11	90	--	309	28	26	.4	< .4	--	354	119	593	7.8	62.47	3.6	2.7
101	Tb	4,698	July 10, 1974	17	--	36	11	88	--	288	52	24	.5	< .4	--	370	134	591	7.8	58.63	3.2	2.0
101	Tc	4,698	July 8, 1975	19	--	40	9	83	--	294	44	24	.5	< .4	--	364	137	600	7.8	56.88	3.0	2.0
101	Tc	4,698	July 26, 1976	15	--	37	9	83	6.0	293	44	26	.4	< .4	--	364	129	584	7.9	56.85	3.1	2.2
101	Tc	4,698	June 30, 1977	17	--	40	9	86	--	294	51	24	.4	< .4	--	372	137	596	7.9	57.75	3.1	2.0