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GROUND-WATER HYDROGRAPHS AND 5-YEAR GROUND-WATER-LEVEL CHANGES, 1984-93, FOR SELECTED AREAS IN AND ADJACENT TO NEW MEXICO

U.S. GEOLOGICAL SURVEY
Open-File Report 95-434

Prepared in cooperation with the
NEW MEXICO STATE ENGINEER OFFICE

D.W. Wilkins and
and B.M. Garcia

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CONVERSION FACTORS

Multiply	By	To obtain
inch	25.4	millimeter
foot	0.3048	meter
mile	1.609	kilometer
square mile	2.590	square kilometer
acre	0.4047	hectare

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes High (feet)	Year	Low (feet)	Year	Use of water	Years of record
12S.38E.33.443344	OGLL	-37.21	2-07-91	--	-34.66	1976	-37.80	1966	S	1966,1971,1976,1981,1986,1991
12S.38E.35.34444	OGLL	-60.63	2-07-91	--	-48.57	1961	-60.63	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.33E.14.42411	OGLL	-51.62	3-14-91	--	-51.62	1991	-84.17	1971	I	1966,1971,1976,1981,1991
13S.34E.01.12321	OGLL	-36.63	3-13-91	+0.54	-36.63	1991	-38.86	1966	I	1961,1966,1971,1976,1981,1986,1991
13S.34E.02.23444	OGLL	-41.67P	3-27-91	--	-40.47	1976	-41.41	1981	S	1961,1966,1971,1976,1981,1986,1991
13S.34E.04.433212	OGLL	-56.13	3-25-91	+0.97	-56.13	1991	-59.04	1981	S	1961,1966,1971,1976,1981,1986,1991
*13S.34E.06.414424	OGLL	-66.39	3-22-91	+0.51	-66.39	1991	-66.94	1981	I	1976,1981,1986,1991
13S.34E.08.31313	OGLL	-64.24	3-22-91	+0.71	-64.22	1966	-66.65	1961	S	1961,1966,1971,1976,1981,1986,1991
13S.34E.14.142121	OGLL	-52.45	3-25-91	+1.18	-52.45	1991	-57.30	1961	I	1961,1966,1971,1976,1981,1986,1991
13S.34E.15.144424	OGLL	-55.26	3-25-91	+1.76	-54.87	1961	-58.15	1981	S	1961,1966,1971,1976,1981,1986,1991
13S.34E.18.424122	OGLL	-61.28	3-26-91	+0.90	-60.51	1961	-62.41	1971	S	1961,1966,1971,1976,1981,1986,1991
13S.34E.21.111131	OGLL	-62.86	1-03-91	--	-62.12	1975	-69.20	1987	I	1961,1965-69,1971-77,1979-84,1987, 1989-91
13S.34E.22.12123	OGLL	-59.29	3-14-91	+1.09	-59.29	1991	-61.24	1966	I	1961,1966,1971,1976,1980-81,1986, 1991
*13S.34E.23.211121	OGLL	-50.89	3-26-91	+1.42	-50.21	1976	-52.66	1971	I	1961,1966,1971,1976,1981,1986,1991
13S.34E.24.31111	OGLL	-49.53	3-14-91	+2.02	-49.53	1991	-58.11	1981	I	1961,1966,1971-72,1976,1981,1986, 1991
13S.34E.26.312122	OGLL	-51.26	3-27-91	+0.82	-51.22	1961	-52.72	1971	U	1961,1966,1971,1976,1981,1986,1991
13S.34E.27.21232	OGLL	-54.47	3-25-91	+1.32	-54.47	1991	-57.55	1971	I	1961,1966,1971,1981,1986,1991
13S.34E.27.331333	OGLL	-56.32	3-14-91	+0.38	-56.32	1991	-57.89	1971	I	1961,1966,1971,1976,1981,1986,1991
13S.34E.28.211111	OGLL	-57.60	3-15-91	+1.09	-57.60	1991	-60.35	1966	I	1961,1966,1971,1976,1981,1986,1991
13S.34E.29.142132	OGLL	-62.24P	3-27-91	--	-61.50	1961	-62.50	1986	S	1961,1966,1971,1981,1986,1991
*13S.34E.30.44322	OGLL	-65.82	3-15-91	+0.42	-65.82	1991	-66.48	1981	I	1981,1986,1991
13S.34E.32.412442	OGLL	-65.00P	3-27-91	--	-62.35	1986	-62.52	1981	S	1981,1986,1991
13S.35E.01.12110	OGLL	-32.60	3-20-91	-0.56	-30.49	1976	-33.73	1966	U	1961,1966,1971,1976,1981,1986,1991
*13S.35E.04.122143	OGLL	-26.38	3-13-91	-0.68	-25.70	1986	-27.86	1961	S	1961,1981,1986,1991
13S.35E.05.344324	OGLL	-37.22	3-13-91	-1.44	-34.15	1976	-37.22	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.35E.06.311320	OGLL	-34.53	3-13-91	+0.57	-34.53	1991	-41.29	1961	I	1961,1966,1971,1976,1980-81,1986, 1991
13S.35E.07.431132	OGLL	-41.23	3-13-91	--	-41.15	1976	-43.05	1961	S	1961,1966,1971,1976,1981,1986,1991
13S.35E.09.143132	OGLL	-38.69	3-27-91	+4.96	-34.57	1976	-43.65	1986	I	1961,1966,1971,1976,1981,1986,1991
13S.35E.10.211322	OGLL	-40.67	3-21-91	+5.73	-40.67	1991	-46.77	1981	U	1981,1986,1991
13S.35E.11.313113	OGLL	-40.88	3-21-91	+1.01	-40.88	1991	-43.68	1981	U	1981,1986,1991
13S.35E.12.211411	OGLL	-44.34	3-20-91	+0.53	-44.34	1991	-49.84	1976	I	1961,1966,1971,1976,1981,1986,1991
13S.35E.13.121221	OGLL	-46.15	3-22-91	+0.68	-45.75	1961	-51.45	1966	I	1961,1966,1971,1976,1981,1986,1991
*13S.35E.13.244324A	OGLL	-51.83	3-22-91	+0.01	-51.83	1991	-52.65	1981	U	1981,1986,1991
13S.35E.15.223224	OGLL	-44.64	3-21-91	-1.81	-39.10	1961	-44.64	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.35E.17.23333	OGLL	-43.27	3-13-91	-0.14	-43.13	1986	-45.64	1966	I	1961,1966,1971,1976,1981,1986,1991
13S.35E.20.314322	OGLL	-45.37	3-13-91	+0.04	-45.15	1980	-47.20	1966	U	1961,1966,1971,1976,1980-81,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea and Chaves Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*13S.35E.21.112433	OGLL	-42.89	3-15-91	-0.44	-39.52	1961	-42.89	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.35E.23.222212	OGLL	-46.38	3-21-91	-0.10	-41.63	1961	-48.52	1976	H	1961,1966,1971,1976,1981,1986,1991
13S.35E.24.223141	OGLL	-50.59	3-22-91	+0.08	-50.59	1991	-51.12	1981	I	1981,1986,1991
13S.35E.26.311113	OGLL	-45.12	3-14-91	-1.25	-41.93	1961	-45.30	1976	I	1961,1966,1971,1976,1980-81,1986, 1991
13S.35E.31.111132	OGLL	-48.82	3-14-91	-0.24	-48.05	1981	-53.30	1980	I	1961,1966,1971,1976,1980-81,1986, 1991
13S.35E.32.311222	OGLL	-42.23	3-14-91	-0.13	-42.10	1986	-47.47	1961	I	1961,1966,1971,1976,1980-81,1986, 1991
13S.35E.34.31112	OGLL	-41.53	3-13-91	-0.60	-38.89	1961	-41.70	1981	U	1961,1966,1971,1976,1981,1986,1991
13S.36E.03.32434	OGLL	-40.71	3-27-91	-0.76	-39.77	1981	-40.71	1991	S	1966,1971,1976,1981,1986,1991
13S.36E.05.313434	OGLL	-44.60	3-26-91	+0.73	-44.60	1991	-47.32	1981	I	1981,1986,1991
13S.36E.06.221143	OGLL	-37.25	3-26-91	+0.80	-37.25	1991	-48.84	1971	I	1961,1966,1971,1976,1981,1986,1991
13S.36E.06.342214	OGLL	-44.30	3-26-91	+0.09	-44.30	1991	-45.82	1981	S	1981,1986,1991
13S.36E.07.34412	OGLL	-55.35	3-26-91	+0.14	-50.20	1966	-55.73	1981	S	1961,1966,1971,1976,1981,1986,1991
13S.36E.08.31212	OGLL	-53.75	3-26-91	+0.02	-52.38	1971	-54.25	1976	U	1961,1966,1971,1976,1981,1986,1991
13S.36E.09.11111	OGLL	-44.43	3-26-91	+6.14	-38.18	1947	-50.57	1986	I	1947-52,1986,1991
*13S.36E.11.23312	OGLL	-34.55	3-27-91	-0.53	-32.63	1976	-34.55	1991	S	1966,1971,1976,1981,1986,1991
13S.36E.13.234322	OGLL	-41.48	3-27-91	-0.48	-39.11	1961	-45.53	1971	I	1961,1966,1971,1976,1981,1986,1991
13S.36E.16.224431	OGLL	-50.73	3-27-91	-1.41	-40.76	1961	-50.73	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.36E.17.221131A	OGLL	-53.19	3-26-91	-0.49	-52.45	1981	-53.19	1991	S	1981,1986,1991
13S.36E.20.111111	OGLL	-59.70	3-26-91	-3.86	-46.55	1961	-59.70	1991	I	1961,1966,1971,1981,1986,1991
13S.36E.21.133112	OGLL	-65.91	3-26-91	--	-60.28	1974	-73.65	1980	I	1974-85,1987-91
13S.36E.21.411123	OGLL	-69.99	3-26-91	-3.50	-53.57	1961	-69.99	1991	I	1961,1966,1971,1981,1986,1991
13S.36E.22.41132	OGLL	-61.16	3-27-91	-0.37	-56.18	1976	-61.16	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.36E.23.411112	OGLL	-56.89	3-27-91	-1.68	-47.71	1971	-56.89	1991	H	1961,1966,1971,1976,1981,1986,1991
13S.36E.25.222231	OGLL	-59.14	3-27-91	-2.06	-39.20	1961	-59.14	1991	I	1961,1966,1971,1976,1981,1986,1991
13S.36E.26.413130	OGLL	-77.60	1-07-91	+1.19	-42.24	1949	-86.86	1981	I	1949-76,1978-83,1985-91
13S.36E.28.321111	OGLL	-73.67	3-26-91	-1.51	-71.23	1981	-73.67	1991	I	1981,1986,1991
13S.36E.29.211111	OGLL	-66.62	3-26-91	-3.78	-62.84	1986	-66.62	1991	I	1981,1986,1991
*13S.36E.31.122111	OGLL	-60.76	3-26-91	+1.06	-56.22	1961	-66.74	1981	I	1961,1966,1971,1981,1986,1991
13S.36E.33.321123	OGLL	-77.03	2-21-91	+0.82	-40.16	1947	-79.42	1981	U	1939-57,1959-63,1981,1986,1991
13S.36E.34.112221	OGLL	-63.43	2-12-91	--	-63.43	1991	-78.88	1971	U	1966,1971,1976,1991
*13S.36E.34.211111	OGLL	-78.63	2-21-91	+1.61	-62.02	1961	-80.43	1981	I	1961,1976,1981,1986,1991
13S.36E.34.311111	OGLL	-79.37	2-21-91	+0.74	-63.82	1961	-80.91	1981	I	1961,1966,1971,1976,1981,1986,1991
13S.36E.35.324134	OGLL	-86.98	2-21-91	+4.82	-53.74	1952	-92.47	1981	I	1952-61,1981,1986,1991
13S.36E.36.121122	OGLL	-88.64	2-21-91	-4.62	-63.10	1961	-88.64	1991	I	1961,1966,1971,1981,1986,1991
13S.37E.01.24224	OGLL	-49.93	3-14-91	+5.46	-49.93	1991	-55.39	1986	I	1961,1971,1986,1991
*13S.37E.01.331313	OGLL	-48.10	3-14-91	+3.17	-48.10	1991	-56.99	1961	H	1961,1966,1971,1976,1981,1986,1991
13S.37E.04.243442	OGLL	-34.39	3-14-91	+0.02	-33.83	1943	-39.66	1965	I	1940-41,1943-47,1949-69,1971-72, 1974-88,1990-91

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
13S.37E.06.13412	OGLL	-29.35	3-27-91	-0.87	-28.48	1986	-31.06	1981	S	1961,1966,1971,1976,1981,1986,1991
13S.37E.07.233444	OGLL	-36.98	3-27-91	-1.18	-35.27	1964	-39.35	1966	S	1964-69,1971,1976,1981,1986,1991
13S.37E.08.11111	OGLL	-35.68	3-27-91	+0.66	-35.10	1961	-37.81	1976	I	1961,1966,1971,1976,1981,1986,1991
13S.37E.08.33132	OGLL	-39.71	3-27-91	-1.72	-36.63	1961	-41.20	1971	I	1961,1966,1971,1976,1981,1986,1991
*13S.37E.09.11110	OGLL	-39.45	1-03-91	-0.20	-36.33	1948	-41.49	1968	H	1946,1948-74,1976,1979,1986,1988, 1990-91
13S.37E.10.34332	OGLL	-44.99	3-27-91	-0.63	-40.98	1961	-44.99	1991	U	1961,1966,1971,1976,1981,1986,1991
13S.37E.13.211331	OGLL	-44.49	3-13-91	+1.41	-41.68	1971	-45.90	1986	S	1971,1976,1981,1986,1991
13S.37E.17.21113	OGLL	-41.57	3-27-91	-1.02	-40.55	1986	-44.75	1971	I	1966,1971,1976,1981,1986,1991
13S.37E.17.311233	OGLL	-47.05	3-27-91	-1.32	-45.73	1986	-47.45	1971	I	1971,1976,1981,1986,1991
13S.37E.18.11322	OGLL	-43.75	3-27-91	-0.09	-43.66	1986	-46.81	1976	I	1961,1966,1971,1976,1981,1986,1991
13S.37E.19.31234	OGLL	-54.87	2-27-91	-2.90	-50.26	1981	-54.87	1991	I	1981,1986,1991
13S.37E.22.11220	OGLL	-54.19	3-27-91	-2.21	-42.94	1961	-54.19	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.37E.24.11113	OGLL	-44.70	3-13-91	-1.62	-32.39	1961	-44.70	1991	S	1961,1966,1971,1976,1981,1986,1991
*13S.37E.24.42322	OGLL	-76.57	3-13-91	-0.37	-62.49	1961	-76.57	1991	S	1961,1971,1976,1981,1986,1991
13S.37E.25.13111	OGLL	-61.58	3-14-91	+7.37	-51.92	1966	-75.74	1981	I	1961,1966,1971,1976,1981,1986,1991
13S.37E.26.431443	OGLL	-63.17	3-14-91	+0.98	-42.57	1961	-64.15	1986	H	1961,1966,1971,1976,1981,1986,1991
*13S.37E.28.413343	OGLL	-62.17	1-04-91	+2.24	-31.70	1945	-68.25	1981	I	1945-91
*13S.37E.29.43222	OGLL	-61.70	3-14-91	-0.66	-59.31	1981	-61.70	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.37E.31.131111	OGLL	-82.69	2-21-91	-2.04	-57.02	1961	-82.69	1991	I	1961,1966,1971,1976,1981,1986,1991
13S.37E.31.42122	OGLL	-87.80	2-21-91	-2.00	-57.31	1961	-87.80	1991	I	1961,1966,1971,1981,1986,1991
13S.37E.34.21111	OGLL	-61.05	3-14-91	+0.25	-45.65	1961	-66.41	1976	I	1961,1966,1971,1976,1981,1986,1991
13S.37E.34.431214	OGLL	-71.25	3-27-91	+2.85	-71.25	1991	-78.64	1981	I	1981,1986,1991
13S.37E.36.432332	OGLL	-78.22	3-13-91	+1.90	-78.22	1991	-80.12	1986	I	1986,1991
*13S.38E.02.422321	OGLL	-83.20	1-03-91	+1.74	-66.25	1961	-84.94	1986	I	1961,1966,1971,1976,1980-91
13S.38E.03.311131	OGLL	-54.06	3-13-91	-1.24	-51.97	1981	-54.06	1991	S	1981,1986,1991
13S.38E.04.131114	OGLL	-48.41	3-28-91	-0.05	-46.93	1966	-48.41	1991	S	1966,1971,1981,1986,1991
13S.38E.06.31430	OGLL	-52.80	1-03-91	+5.86	-43.02	1945	-63.40	1972	I	1940-65,1967-83,1985-86,1988-91
13S.38E.07.411131	OGLL	-54.88	3-27-91	-2.15	-50.85	1981	-54.88	1991	I	1981,1986,1991
13S.38E.08.31222	OGLL	-67.84	3-13-91	-4.24	-60.21	1961	-72.33	1976	I	1961,1966,1971,1976,1981,1986,1991
13S.38E.09.331224	OGLL	-71.45	3-13-91	-0.68	-61.48	1961	-72.02	1981	I	1961,1966,1969,1971,1976,1981, 1986,1991
13S.38E.11.123242	OGLL	-93.74	3-13-91	+3.59	-93.74	1991	-97.33	1986	I	1981,1986,1991
13S.38E.11.414422	OGLL	-99.91	3-13-91	-1.50	-74.39	1966	-99.91	1991	I	1966,1971,1981,1986,1991
13S.38E.12.33412	OGLL	-112.30	3-14-91	-4.85	-74.38	1961	-112.30	1991	I	1961,1971,1976,1981,1986,1991
13S.38E.14.332222	OGLL	-92.68	3-13-91	-4.96	-73.90	1966	-92.68	1991	U	1966,1971,1976,1981,1986,1991
13S.38E.15.41324	OGLL	-78.57	3-13-91	-4.20	-71.47	1976	-78.57	1991	S	1976,1981,1986,1991
13S.38E.16.433212	OGLL	-62.97	3-13-91	-2.21	-59.31	1981	-62.97	1991	U	1981,1986,1991
13S.38E.19.31131	OGLL	-70.70	1-03-91	-0.73	-66.13	1980	-70.70	1991	U	1980-87,1989-91
13S.38E.19.34134	OGLL	-88.11	3-13-91	+0.29	-77.65	1966	-93.65	1976	I	1966,1971,1976,1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
13S.38E.21.11343	OGLL	-65.64	3-13-91	-1.14	-60.30	1976	-65.64	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.38E.22.141111	OGLL	-80.67	3-13-91	-8.10	-63.38	1971	-80.67	1991	I	1971,1976,1981,1986,1991
13S.38E.23.31111	OGLL	-87.23S	3-13-91	--	-68.93	1980	-82.85	1990	I	1980-86,1989-91
*13S.38E.26.413232	OGLL	-69.39	3-13-91	-0.99	-65.97	1981	-69.39	1991	U	1981,1986,1991
13S.38E.27.421333	OGLL	-68.28	3-13-91	-1.33	-64.70	1981	-68.28	1991	S	1976,1981,1986,1991
13S.38E.28.223244	OGLL	-68.99	3-13-91	-1.70	-67.29	1986	-68.99	1991	S	1986,1991
13S.38E.29.34444	OGLL	-69.54	3-13-91	-1.65	-67.89	1986	-69.54	1991	S	1986,1991
13S.38E.30.141331	OGLL	-87.14	3-13-91	-3.55	-63.30	1961	-87.14	1991	I	1961,1971,1976,1981,1986,1991
13S.38E.31.21313	OGLL	-82.05	3-13-91	-0.87	-59.33	1961	-82.05	1991	S	1961,1966,1971,1976,1981,1986,1991
13S.38E.33.11330	OGLL	-76.13	3-14-91	-1.10	-70.36	1976	-76.13	1991	S	1976,1981,1986,1991
13S.38E.35.311331	OGLL	-79.74	2-20-91	-3.70	-68.01	1976	-79.74	1991	U	1961,1966,1971,1976,1981,1986,1991
14S.32E.10.32323	OGLL	-176.26	2-12-91	--	-176.25	1986	-177.16	1981	U	1981,1986,1991
14S.33E.35.13321	OGLL	-100.70	1-05-91	--	-99.30	1990	-103.46	1979	U	1960-77,1979,1981,1983,1988-91
*14S.35E.06.211121	OGLL	-42.12	1-03-91	-0.18	-41.30	1981	-46.40	1975	I	1975-91
*14S.35E.23.31333	OGLL	-45.10	1-05-91	-0.82	-37.56	1962	-45.17	1991	I	1954-91
14S.35E.25.223434	OGLL	-64.90	1-05-91	+0.65	-43.30	1950	-73.54	1991	I	1949-91
14S.35E.28.111133	OGLL	-43.50	1-05-91	-0.03	-43.09	1989	-43.80	1986	U	1983-91
14S.36E.02.113114	OGLL	-90.85	1-07-91	+2.06	-48.44	1950	-100.14	1980	I	1949-91
14S.36E.02.411144	OGLL	-96.58	2-12-91	+0.17	-70.33	1961	-96.75	1986	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.03.31111	OGLL	-82.37	2-12-91	+3.39	-69.62	1961	-86.17	1981	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.04.21222	OGLL	-81.21	2-12-91	+2.59	-70.08	1961	-84.17	1981	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.05.133113	OGLL	-63.55	2-12-91	-0.41	-55.51	1961	-64.30	1981	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.06.21113	OGLL	-58.39	2-12-91	+0.03	-51.27	1961	-59.36	1981	I	1961,1966,1969,1971,1976,1981, 1986,1991
14S.36E.06.412142	OGLL	-61.53	2-12-91	-0.69	-39.03	1944	-62.23	1977	I	1939-44,1946-55,1957-91
14S.36E.09.111131	OGLL	-71.18	1-05-91	+1.82	-38.36	1944	-78.48	1984	I	1939-91
14S.36E.10.21124	OGLL	-89.87	1-07-91	-1.09	-47.98	1949	-89.87	1991	U	1949-91
14S.36E.10.331111	OGLL	-77.67	2-13-91	-1.10	-63.07	1961	-78.10	1981	I	1961,1966,1971,1976,1981,1986,1991
*14S.36E.15.211113	OGLL	-87.10	2-13-91	-9.13	-59.38	1961	-87.10	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.15.44400	OGLL	-74.23	2-13-91	-1.86	-69.80	1981	-74.23	1991	S	1981,1986,1991
14S.36E.17.31112	OGLL	-64.95	2-13-91	-0.46	-52.20	1961	-64.95	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.21.11111	OGLL	-66.63	1-05-91	-1.87	-42.69	1949	-68.11	1980	I	1949-91
14S.36E.21.321122	OGLL	-68.57	2-13-91	-1.16	-53.82	1961	-71.40	1976	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.22.41111	OGLL	-72.10	2-13-91	-1.06	-54.75	1961	-72.10	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.23.41111	OGLL	-72.89	2-13-91	-1.35	-53.24	1961	-72.89	1991	I	1961,1966,1971,1976,1986,1991
14S.36E.24.34312	OGLL	-83.40	2-13-91	-4.26	-60.55	1961	-83.40	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.27.311141	OGLL	-82.80	2-19-91	-7.26	-73.77	1981	-82.80	1991	I	1981,1986,1991
14S.36E.32.12121	OGLL	-66.82	1-05-91	-0.02	-53.58	1949	-70.09	1971	I	1949-66,1968-91
14S.36E.32.33131	OGLL	-63.72	2-13-91	-0.67	-63.05	1986	-63.72	1991	U	1981,1986,1991
*14S.36E.33.13312	OGLL	-82.41	1-07-91	-1.29	-56.92	1950	-82.41	1991	I	1949-91

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
14S.36E.34.12142	OGLL	-86.82	2-08-91	-2.50	-84.32	1986	-86.82	1991	I	1986,1991
14S.36E.34.43111	OGLL	-84.42	2-08-91	-2.66	-66.75	1961	-84.42	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.36E.35.111112	OGLL	-82.44	1-07-91	-0.64	-64.80	1976	-85.87	1990	I	1974-91
14S.36E.35.331313	OGLL	-88.25	2-13-91	-0.92	-67.05	1961	-88.25	1991	I	1961,1966,1978,1981,1986,1991
*14S.37E.01.311233	OGLL	-93.12	2-21-91	+1.61	-70.20	1961	-94.73	1986	U	1961,1966,1971,1976,1981,1986,1991
14S.37E.02.121121	OGLL	-74.60	1-03-91	-0.82	-67.17	1980	-75.40	1981	I	1971,1976,1980-91
14S.37E.03.11421	OGLL	-75.94	2-21-91	--	-44.81	1952	-104.85	1977	I	1952-78,1981,1983-84,1989,1991
14S.37E.03.332211	OGLL	-79.08	2-21-91	-1.36	-76.47	1981	-79.08	1991	I	1981,1986,1991
14S.37E.04.31133	OGLL	-76.22	2-21-91	-2.42	-52.21	1961	-76.22	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.37E.05.313113	OGLL	-86.68	2-21-91	-2.29	-62.91	1961	-86.68	1991	I	1961,1966,1969,1971,1976,1981,1986, 1991
14S.37E.06.11111	OGLL	-90.94	1-04-91	+3.11	-37.38	1949	-95.66	1988	I	1949-62,1966,1971,1976,1978-91
14S.37E.06.41111	OGLL	-94.16	2-21-91	-2.30	-66.02	1961	-94.16	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.37E.07.31111	OGLL	-92.34	1-04-91	-0.44	-42.82	1949	-99.93	1977	I	1949-83,1985-89,1991
14S.37E.08.11133	OGLL	-83.34	1-04-91	+1.64	-37.93	1950	-85.00	1984	I	1949-91
14S.37E.09.34142	OGLL	-77.74	2-21-91	-3.24	-53.23	1961	-77.74	1991	S	1961,1966,1971,1976,1981,1986,1991
14S.37E.11.11122	OGLL	-86.62	2-21-91	+0.57	-86.13	1990	-98.80	1984	H	1984,1986-91
14S.37E.12.31111	OGLL	-98.76	2-20-91	+2.32	-75.28	1961	-104.15	1981	I	1961,1970-71,1976,1981,1986,1991
14S.37E.13.21313	OGLL	-103.42	2-20-91	-1.11	-66.20	1961	-103.42	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.37E.13.31111	OGLL	-101.87	1-03-91	+0.96	-35.57	1949	-102.83	1986	I	1949-91
14S.37E.14.11111	OGLL	-99.95	1-03-91	-2.71	-36.12	1949	-99.95	1991	I	1948-49,1951-80,1982-91
14S.37E.16.412124	OGLL	-81.25	1-04-91	-1.12	-28.86	1943	-81.48	1981	I	1939-91
14S.37E.18.113424	OGLL	-83.07	2-21-91	-2.17	-80.90	1986	-83.07	1991	I	1986,1991
14S.37E.19.111122	OGLL	-77.07	1-04-91	-2.89	-41.15	1950	-77.20	1991	I	1949-62,1964-91
*14S.37E.19.444441	OGLL	-83.08	2-14-91	-1.92	-81.16	1986	-83.08	1991	S	1981,1986,1991
14S.37E.20.11111	OGLL	-81.98	2-14-91	-4.89	-56.60	1961	-81.98	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.37E.21.11113	OGLL	-85.21	2-14-91	-4.21	-58.29	1961	-85.21	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.37E.21.31111	--	-88.90	1-04-91	--	-86.64	1989	-88.90	1991	I	1989-91
14S.37E.22.21112	OGLL	-90.06	2-14-91	-1.03	-63.01	1961	-90.06	1991	I	1961,1966,1970-71,1976,1981,1986, 1991
14S.37E.24.11113	OGLL	-97.89	2-20-91	+1.30	-66.16	1961	-99.19	1986	I	1961,1966,1970-71,1981,1986,1991
*14S.37E.25.11112	OGLL	-87.96	2-20-91	-1.39	-58.60	1961	-87.96	199I	I	1961,1966,1971,1981,1986,1991
14S.37E.25.312331	OGLL	-78.95	2-20-91	-2.22	-50.14	1961	-78.95	1991	I	1961,1981,1986,1991
14S.37E.27.31131	OGLL	-89.49	1-04-91	-3.94	-34.68	1948	-89.49	1991	I	1948-91
14S.37E.28.211134	OGLL	-87.56	2-14-91	-2.77	-66.60	1961	-87.56	1991	I	1961,1966,1970-71,1976,1981,1986, 1991
14S.37E.28.311111	OGLL	-80.64	2-14-91	-1.28	-79.36	1986	-84.88	1981	I	1981,1986,1991
14S.37E.29.21111	OGLL	-78.05	2-14-91	-1.70	-61.73	1961	-85.63	1981	I	1961,1966,1970-71,1976,1981,1986, 1991
14S.37E.29.33113	OGLL	-73.86	2-14-91	-0.46	-59.25	1961	-75.39	1981	I	1961,1966,1970-71,1976,1981,1986, 1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
14S.37E.30.34133	OGLL	-77.18	2-14-91	-3.41	-56.35	1961	-77.18	1991	S	1961,1966,1971,1976,1981,1986,1991
14S.37E.31.33131	OGLL	-77.52	2-14-91	+2.63	-43.59	1949	-80.49	1984	I	1949-72,1974-91
14S.37E.32.41131	OGLL	-72.90	2-14-91	-0.53	-72.37	1986	-73.38	1981	I	1981,1986,1991
14S.37E.33.212112	OGLL	-84.22	2-14-91	-2.59	-58.76	1961	-84.22	1991	I	1961,1966,1971,1981,1986,1991
14S.37E.34.213431	OGLL	-78.59	2-14-91	-3.79	-70.94	1981	-78.59	1991	U	1981,1986,1991
14S.37E.34.31131	OGLL	-83.06	2-14-91	-4.87	-52.59	1961	-83.06	1991	I	1961,1966,1981,1986,1991
14S.37E.35.324213	OGLL	-63.90	2-21-91	-2.69	-41.51	1961	-63.90	1991	S	1961,1966,1971,1976,1981,1986,1991
14S.37E.36.113131	OGLL	-70.72	2-20-91	-2.04	-55.64	1971	-70.72	1991	S	1966,1971,1976,1981,1986,1991
14S.37E.36.41324	OGLL	-63.14	2-20-91	-1.80	-43.03	1961	-63.14	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.38E.02.41121	OGLL	-69.99	2-20-91	+3.69	-69.99	1991	-73.68	1986	S	1981,1986,1991
14S.38E.03.321121	OGLL	-68.92	2-20-91	-1.64	-67.28	1986	-68.92	1991	S	1981,1986,1991
14S.38E.05.12244	OGLL	-88.70	1-03-91	-0.78	-62.92	1961	-89.36	1984	I	1961,1966,1971,1976,1981-91
14S.38E.06.111133	OGLL	-85.88	2-20-91	+2.28	-59.92	1961	-88.16	1986	I	1961,1966,1971,1976,1986,1991
14S.38E.07.11331	OGLL	-91.45	1-03-91	+8.95	-40.73	1950	-101.85	1987	I	1950-72,1974-91
14S.38E.07.332312	OGLL	-90.77	2-20-91	+0.58	-58.36	1961	-91.35	1986	I	1961,1966,1976,1986,1991
14S.38E.09.222221	OGLL	-76.20	2-20-91	-2.11	-68.07	1961	-77.83	1976	I	1961,1966,1971,1976,1981,1986,1991
14S.38E.10.223333	OGLL	-68.58	2-20-91	+1.68	-68.58	1991	-70.26	1986	I	1981,1986,1991
*14S.38E.14.11111	OGLL	-67.20	1-04-91	+0.47	-55.58	1961	-67.75	1985	I	1961,1966,1971,1976,1980-91
14S.38E.14.34111	OGLL	-73.92	2-07-91	-0.57	-72.89	1981	-73.92	1991	I	1981,1986,1991
14S.38E.16.123131	OGLL	-71.18	2-07-91	--	-56.00	1961	-71.18	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.38E.17.21233	OGLL	-72.60	2-07-91	-3.40	-55.97	1971	-72.60	1991	S	1961,1966,1971,1976,1981,1986,1991
14S.38E.18.343411A	OGLL	-92.87	2-07-91	-3.80	-89.07	1986	-92.87	1991	U	1986,1991
14S.38E.19.31111	OGLL	-90.72	2-07-91	-3.05	-58.30	1961	-90.72	1991	I	1961,1966,1970-71,1976,1981,1986, 1991
14S.38E.20.112123	OGLL	-75.22	2-07-91	-1.41	-51.80	1961	-75.22	1991	I	1961,1966,1970-71,1976,1981,1986, 1991
14S.38E.20.31311	OGLL	-75.14	2-07-91	-0.49	-58.08	1966	-75.14	1991	I	1961,1966,1970-71,1976,1981,1986, 1991
14S.38E.21.21213	OGLL	-65.65	2-07-91	-1.43	-53.55	1961	-65.65	1991	I	1961,1966,1970-71,1976,1981,1986, 1991
14S.38E.21.313121	OGLL	-62.19	2-07-91	-1.90	-32.48	1949	-64.64	1980	I	1949-91
14S.38E.23.14111	OGLL	-77.57	2-07-91	-3.20	-60.83	1961	-77.57	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.38E.26.121413	OGLL	-81.65	2-07-91	-2.37	-64.60	1961	-81.65	1991	I	1961,1966,1971,1976,1981,1986,1991
14S.38E.26.342444	OGLL	-87.55	2-20-91	-9.57	-77.98	1986	-87.55	1991	I	1981,1986,1991
14S.38E.27.213311	OGLL	-72.64	1-04-91	-4.25	-57.57	1961	-72.64	1991	I	1961,1966,1971,1976,1981,1983-91
14S.38E.31.11131	OGLL	-68.40	1-04-91	-1.43	-37.45	1950	-69.32	1978	I	1948-74,1976-91
14S.38E.31.22222	OGLL	-75.30	2-07-91	-1.93	-55.56	1961	-75.30	1991	I	1961,1966,1969,1971,1976,1981,1986, 1991
*14S.38E.33.111114	OGLL	-69.07	2-07-91	-1.79	-49.74	1961	-69.07	1991	S	1961,1966,1971,1976,1981,1986,1991
14S.38E.34.311433	OGLL	-86.18	2-07-91	-4.32	-60.29	1966	-89.36	1981	I	1961,1966,1970-71,1976,1981,1986, 1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
14S.38E.35.41112	OGLL	-81.20	2-07-91	-0.34	-55.09	1966	-81.20	1991	I	1961,1966,1970-71,1976,1981,1986, 1991
*15S.34E.12.32341	OGLL	-58.96	3-15-91	+0.59	-57.75	1981	-60.31	1961	I	1961,1966,1971,1976,1981,1986,1991
15S.35E.01.123332	OGLL	-50.15	3-14-91	-0.01	-50.14	1986	-50.28	1981	I	1981,1986,1991
15S.35E.03.124242	OGLL	-46.07	3-15-91	+0.25	-43.07	1971	-46.32	1986	U	1961,1966,1971,1976,1981,1986,1991
15S.35E.04.31413	OGLL	-44.34	3-15-91	+0.71	-41.47	1961	-45.05	1986	S	1961,1966,1976,1981,1986,1991
15S.35E.07.242412	OGLL	-51.16	3-15-91	+0.09	-49.17	1976	-52.96	1961	S	1961,1966,1971,1976,1981,1986,1991
15S.35E.08.41120	OGLL	-45.86	3-15-91	-0.28	-45.16	1981	-45.86	1991	S	1981,1986,1991
*15S.35E.10.324444	OGLL	-47.75	3-15-91	-0.43	-39.04	1966	-47.75	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.35E.12.31141	OGLL	-56.45	3-14-91	+0.99	-48.04	1971	-64.28	1976	I	1971,1976,1981,1986,1991
15S.35E.15.144221	OGLL	-46.40	3-15-91	-0.70	-39.28	1961	-46.40	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.35E.16.23114	OGLL	-44.68	3-15-91	-0.42	-38.87	1961	-44.68	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.35E.17.411144	OGLL	-51.05	3-15-91	+0.06	-50.71	1981	-51.11	1986	H	1981,1986,1991
15S.35E.21.114442	OGLL	-49.09	3-15-91	+0.52	-43.91	1961	-51.35	1971	U	1961,1966,1971,1976,1981,1986,1991
*15S.35E.34.424343	OGLL	-52.90	3-05-91	+1.18	-52.90	1991	-54.51	1981	I	1981,1986,1991
15S.35E.35.111122	OGLL	-52.91	3-05-91	+0.84	-52.83	1971	-57.38	1976	I	1971,1976,1981,1986,1991
15S.35E.35.423113	OGLL	-58.15	3-10-91	+2.41	-54.20	1966	-65.10	1971	I	1961,1966,1971,1986,1991
15S.35E.36.111121	OGLL	-54.27	3-01-91	+1.43	-51.98	1961	-56.72	1981	I	1961,1966,1971,1976,1981,1986,1991
15S.36E.01.111110	OGLL	-76.91	3-07-91	+2.59	-64.89	1961	-85.88	1971	I	1961,1971,1976,1981,1986,1991
*15S.36E.01.411113	OGLL	-75.56	3-07-91	-1.00	-59.48	1961	-80.10	1971	I	1961,1971,1976,1981,1986,1991
15S.36E.02.314224	OGLL	-74.16	3-13-91	-2.56	-54.75	1961	-74.16	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.36E.03.311113	OGLL	-79.16	3-07-91	-2.32	-75.10	1981	-79.16	1991	I	1981,1986,1991
15S.36E.04.32222	OGLL	-77.66	3-07-91	-1.97	-64.81	1961	-77.66	1991	I	1961,1966,1971,1976,1981,1986,1991
15S.36E.05.211120	OGLL	-71.92	1-07-91	-0.22	-52.73	1951	-74.76	1975	I	1950-91
15S.36E.06.324243	OGLL	-59.16	3-15-91	-1.70	-49.05	1961	-59.16	1991	S	1961,1966,1971,1976,1981,1986,1991
*15S.36E.07.433341	OGLL	-63.60	3-07-91	-1.74	-61.58	1981	-63.60	1991	S	1981,1986,1991
15S.36E.08.111131	OGLL	-69.51	3-07-91	-1.55	-39.95	1949	-69.51	1991	I	1949-52,1954-56,1969,1971,1976,1981, 1986,1991
15S.36E.09.221123	OGLL	-79.49	2-07-91	-1.76	-65.90	1961	-79.49	1991	I	1961,1966,1971,1976,1981,1986,1991
15S.36E.09.311132	OGLL	-78.13	3-07-91	+0.47	-44.30	1949	-78.60	1986	H	1949-62,1981,1986,1991
15S.36E.10.311121	OGLL	-80.66	3-12-91	-4.47	-75.13	1981	-80.66	1991	I	1981,1986,1991
15S.36E.12.311110	OGLL	-67.25	3-07-91	-2.11	-50.57	1961	-67.25	1991	I	1961,1966,1971,1976,1981,1986,1991
15S.36E.17.311311	OGLL	-74.84	3-07-91	-0.69	-69.70	1966	-76.45	1981	I	1966,1971,1976,1981,1986,1991
15S.36E.18.332234	OGLL	-63.52	3-07-91	-0.54	-49.64	1961	-63.52	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.36E.21.131124	OGLL	-74.44	3-06-91	+2.09	-74.44	1991	-76.53	1986	I	1981,1986,1991
15S.36E.21.221312	OGLL	-74.84	3-06-91	+4.60	-63.46	1961	-79.44	1986	I	1961,1966,1969,1971,1976,1981,1986, 1991
*15S.36E.26.24321	OGLL	-71.38	3-06-91	-2.38	-49.20	1961	-71.38	1991	U	1961,1971,1976,1981,1986,1991
15S.36E.27.111111	OGLL	-74.90	3-06-91	+3.30	-58.90	1961	-78.20	1986	I	1961,1966,1971,1976,1981,1986,1991
15S.36E.28.131331	OGLL	-75.78	1-08-91	+0.82	-44.23	1946	-77.39	1977	I	1946-63,1965-91

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
15S.36E.29.112121	OGLL	-71.08	1-08-91	+0.97	-44.90	1948	-74.77	1980	I	1948-77,1979-91
15S.36E.30.111124	OGLL	-59.66	3-05-91	-0.38	-53.02	1961	-59.66	1991	I	1961,1966,1971,1976,1981,1986,1991
15S.36E.30.411114	OGLL	-65.26	1-08-91	+1.00	-46.14	1951	-69.66	1985	I	1949-91
15S.36E.33.111343	OGLL	-73.21	3-06-91	+0.42	-73.21	1991	-73.63	1986	I	1981,1986,1991
15S.37E.04.113311	OGLL	-72.04	1-04-91	+1.01	-37.10	1950	-74.46	1984	I	1950-91
15S.37E.05.311334	OGLL	-72.54	3-08-91	-0.51	-56.69	1961	-73.02	1981	I	1961,1966,1971,1976,1981,1986,1991
15S.37E.06.211134	OGLL	-74.12	3-08-91	-0.72	-57.75	1961	-74.14	1981	I	1961,1966,1971,1976,1981,1986,1991
*15S.37E.07.111324	OGLL	-75.85	1-07-91	-0.97	-46.13	1950	-75.85	1991	I	1950-73,1975-88,1990-91
15S.37E.08.21333	OGLL	-70.28	3-08-91	-1.17	-52.40	1961	-73.73	1980	I	1961,1966,1971,1976,1980-81,1986, 1991
*15S.37E.09.21112	OGLL	-68.80	3-08-91	-1.18	-50.65	1961	-74.01	1971	I	1961,1966,1971,1981,1986,1991
15S.37E.09.431211	OGLL	-66.10	3-08-91	-0.86	-46.02	1961	-68.26	1976	I	1961,1966,1971,1976,1981,1986,1991
15S.37E.11.333324	OGLL	-57.17	3-13-91	-7.37	-46.33	1976	-57.17	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.37E.12.313221	OGLL	-50.43	3-13-91	-1.43	-39.77	1976	-50.43	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.37E.15.143423	OGLL	-63.76	3-13-91	-0.30	-60.00	1981	-63.76	1991	S	1961,1966,1970-71,1976,1981,1986, 1991
15S.37E.17.32112	OGLL	-78.15	3-12-91	-3.58	-70.40	1981	-78.15	1991	I	1981,1986,1991
15S.37E.19.311333	OGLL	-71.08	1-07-91	-1.74	-41.09	1950	-72.92	1982	I	1948-50,1952,1954-64,1966-91
15S.37E.20.221244	OGLL	-75.03	1-07-91	+0.38	-35.30	1950	-75.94	1982	I	1949-91
15S.37E.23.112130	OGLL	-63.00	1-07-91	-0.42	-35.59	1951	-63.10	1991	I	1951-91
*15S.37E.25.142332	OGLL	-47.40	3-14-91	-1.91	-36.00	1971	-47.40	1991	S	1961,1966,1971,1976,1986,1991
15S.37E.27.111342	OGLL	-74.77	1-07-91	--	-29.38	1943	-82.29	1988	I	1941-44,1946-83,1987-91
15S.37E.27.221111	OGLL	-65.23	3-12-91	+3.00	-38.13	1961	-68.23	1986	I	1961,1966,1969,1971,1981,1986,1991
15S.37E.28.411122	OGLL	-76.26	2-15-91	+6.76	-56.28	1961	-83.02	1986	I	1961,1966,1971,1976,1981,1986,1991
15S.37E.29.111313	OGLL	-75.95	1-07-91	+0.76	-39.08	1951	-78.21	1987	I	1951-80,1982-91
15S.37E.31.132221	OGLL	-68.08	1-07-91	-0.48	-35.04	1950	-69.53	1980	I	1949-81,1983-91
15S.37E.32.41141	OGLL	-72.03	2-15-91	+2.25	-66.98	1966	-75.25	1981	I	1966,1971,1981,1986,1991
*15S.37E.33.311341	OGLL	-73.81	1-07-91	+5.44	-58.66	1957	-79.63	1987	I	1957-64,1966-91
15S.37E.34.213331	OGLL	-67.63	2-15-91	-0.72	-47.74	1961	-67.63	1991	I	1961,1966,1971,1976,1981,1986,1991
15S.37E.35.212112	OGLL	-56.18	3-14-91	-2.16	-41.98	1971	-56.18	1991	S	1966,1971,1976,1981,1986,1991
15S.38E.03.232111	OGLL	-84.39	3-13-91	-1.62	-53.57	1961	-84.39	1991	I	1961,1966,1971,1973,1976,1981,1986, 1991
15S.38E.04.212211	OGLL	-90.64	1-04-91	-7.00	-80.50	1988	-90.64	1991	I	1983,1985-91
15S.38E.05.24131	OGLL	-59.50	3-13-91	+0.97	-53.42	1981	-60.47	1986	S	1981,1986,1991
15S.38E.06.331133	OGLL	-54.65	3-13-91	-2.64	-49.19	1981	-54.65	1991	U	1981,1986,1991
15S.38E.07.242421	OGLL	-50.05	3-13-91	-3.37	-40.60	1976	-50.05	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.38E.09.12221	OGLL	-57.76	3-13-91	-3.42	-51.32	1981	-57.76	1991	S	1981,1986,1991
15S.38E.10.321134	OGLL	-55.79	1-04-91	+6.06	-31.84	1951	-61.85	1986	I	1951-91
15S.38E.11.13444	OGLL	-85.51	3-13-91	-4.80	-52.66	1961	-85.51	1991	I	1961,1966,1971,1976,1981,1986,1991
*15S.38E.14.144342	OGLL	-93.36	3-13-91	-6.25	-52.87	1961	-93.36	1991	I	1961,1966,1971,1976,1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
15S.38E.15.133334	OGLL	-47.42	3-13-91	-0.61	-28.80	1961	-47.42	1991	I	1961,1966,1971,1976,1981,1986,1991
15S.38E.16.321233	OGLL	-53.41	3-13-91	+3.47	-43.66	1971	-57.99	1981	U	1966,1971,1976,1981,1986,1991
15S.38E.18.432312	OGLL	-45.35	3-13-91	--	-38.33	1981	-45.35	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.38E.20.233334	OGLL	-46.96	3-13-91	-3.13	-37.75	1976	-46.96	1991	S	1961,1966,1971,1976,1981,1986,1991
15S.38E.23.344142	OGLL	-84.94	3-14-91	-3.05	-54.15	1971	-84.94	1991	S	1966,1971,1976,1981,1986,1991
15S.38E.26.311224	OGLL	-71.80	3-13-91	-5.27	-39.54	1961	-71.80	1991	I	1961,1966,1971,1976,1981,1986,1991
15S.38E.27.132414	OGLL	-57.18	3-14-91	+5.70	-44.71	1976	-62.88	1986	S	1961,1966,1971,1976,1981,1986,1991
15S.38E.28.31111	OGLL	-42.56	3-14-91	+0.29	-26.71	1961	-42.85	1986	S	1961,1966,1971,1976,1981,1986,1991
*15S.38E.35.13133	OGLL	-73.46	1-07-91	-1.48	-37.61	1950	-73.52	1991	I	1950-58,1960-73,1975-77,1979-86, 1988-89,1991
*16S.34E.10.21431	OGLL	-82.48	1-05-91	-0.07	-81.63	1976	-83.35	1986	S	1961,1966,1971,1976,1980-91
16S.35E.01.131312	OGLL	-52.49	2-28-91	+0.67	-49.74	1971	-53.16	1986	S	1966,1971,1976,1981,1986,1991
16S.35E.02.21333	OGLL	-54.08	2-28-91	+0.47	-54.08	1991	-54.97	1981	I	1981,1986,1991
*16S.35E.03.13222	OGLL	-57.32	2-28-91	-1.08	-56.24	1986	-57.32	1991	S	1966,1971,1976,1981,1986,1991
16S.35E.04.14414	OGLL	-55.52	2-28-91	+1.77	-52.14	1966	-57.29	1986	S	1966,1971,1976,1981,1986,1991
16S.35E.04.443212	OGLL	-58.25	2-28-91	-0.16	-55.97	1961	-58.25	1991	U	1961,1966,1971,1976,1981,1986,1991
16S.35E.09.11120	OGLL	-52.97	1-05-91	-0.22	-51.60	1982	-54.35	1987	U	1961,1966,1971,1976,1980,1982-91
16S.35E.09.411421	OGLL	-51.37	3-01-91	-0.44	-49.22	1961	-51.37	1991	U	1961,1966,1971,1976,1981,1986,1991
16S.35E.10.33321	OGLL	-51.33	3-01-91	-0.58	-50.36	1971	-51.33	1991	U	1971,1976,1981,1986,1991
16S.35E.11.12111	OGLL	-53.31	3-01-91	+0.39	-51.61	1961	-53.70	1986	I	1961,1966,1969,1971,1976,1981,1986, 1991
16S.35E.11.221113	OGLL	-54.44	3-01-91	+0.34	-52.61	1961	-54.78	1986	I	1961,1966,1971,1976,1981,1986,1991
16S.35E.13.112312	OGLL	-50.68	1-05-91	+0.72	-43.03	1949	-56.22	1964	I	1948-91
16S.35E.14.131311	OGLL	-53.72	3-01-91	-0.34	-53.36	1981	-55.31	1966	I	1961,1966,1971,1976,1981,1986,1991
16S.35E.15.322222	OGLL	-52.64	3-01-91	-3.31	-49.24	1981	-52.64	1991	I	1966,1971,1981,1986,1991
16S.35E.22.43411	OGLL	-47.58	2-28-91	--	-43.35	1961	-47.58	1991	S	1961,1966,1971,1976,1981,1986,1991
*16S.35E.23.211133	OGLL	-49.59	3-01-91	+0.09	-49.59	1991	-52.88	1966	I	1961,1966,1971,1976,1981,1986,1991
16S.35E.24.111241	OGLL	-50.10	1-05-91	+0.22	-44.09	1951	-55.63	1966	I	1951-82,1984-89,1991
16S.35E.25.12110	OGLL	-44.93	2-28-91	+2.46	-38.60	1961	-47.39	1986	I	1961,1966,1971,1976,1981,1986,1991
16S.35E.27.12331	OGLL	-59.53	2-28-91	--	-55.78	1961	-59.53	1991	S	1961,1966,1971,1976,1981,1986,1991
*16S.35E.34.444342	OGLL	-53.52	2-28-91	+3.06	-53.52	1991	-56.58	1986	U	1981,1986,1991
16S.35E.35.123221	OGLL	-45.02	2-28-91	-0.04	-38.96	1961	-45.02	1991	U	1961,1966,1971,1976,1981,1986,1991
*16S.36E.01.423331	OGLL	-59.81	3-06-91	-0.99	-47.64	1961	-64.70	1976	I	1961,1971,1976,1981,1986,1991
16S.36E.02.11133	OGLL	-70.96	3-06-91	+0.90	-65.89	1961	-73.90	1976	I	1961,1966,1969,1971,1976,1981,1986, 1991
16S.36E.02.413333	OGLL	-68.60	3-06-91	+0.57	-62.41	1961	-72.35	1976	I	1961,1966,1971,1976,1981,1986,1991
16S.36E.04.32232	OGLL	-59.70	1-05-91	--	-60.04	1989	-67.05	1971	U	1971-91
16S.36E.05.111111	OGLL	-54.59	1-03-91	+6.00	-53.07	1961	-60.59	1986	I	1961,1966,1971,1976,1981,1986,1991
16S.36E.07.11323	OGLL	-53.55	2-28-91	+0.91	-51.80	1961	-56.48	1976	U	1961,1966,1971,1976,1981,1986,1991
16S.36E.08.111322	OGLL	-64.31	2-28-91	+0.66	-49.89	1948	-70.93	1976	I	1948-49,1961,1966,1976,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
16S.36E.08.211112	OGLL	-63.63	1-05-91	+2.32	-63.57	1990	-69.34	1983	I	19 0,1977-79,1981-91
*16S.36E.08.433434	OGLL	-68.40	2-26-91	+1.52	-68.40	1991	-75.26	1971	U	1971,1976,1981,1986,1991
16S.36E.11.241131	OGLL	-64.43	1-05-91	+2.17	-53.97	1948	-84.85	1971	R	1948-53,1956,1958-61,1963-64,1967-69,1971-73,1975-91
16S.36E.13.32224	OGLL	-62.65	2-21-91	-5.59	-46.78	1961	-62.65	1991	I	1961,1966,1971,1976,1981,1986,1991
16S.36E.14.311111	OGLL	-60.64	3-06-91	-3.08	-57.56	1986	-65.79	1971	I	1961,1966,1971,1976,1981,1986,1991
16S.36E.15.21132	OGLL	-58.18	3-06-91	+0.87	-58.18	1991	-68.90	1966	I	1961,1966,1971,1976,1981,1986,1991
16S.36E.15.32111	OGLL	-58.74	2-12-91	+5.15	-58.74	1991	-70.22	1966	I	1961,1966,1971,1976,1981,1986,1991
16S.36E.16.231113	OGLL	-61.33	2-27-91	+5.81	-61.33	1991	-70.30	1966	I	1961,1966,1971,1976,1981,1986,1991
16S.36E.17.111224	OGLL	-63.24	2-26-91	+1.88	-63.24	1991	-75.07	1976	U	1961,1966,1971,1976,1981,1986,1991
16S.36E.18.111111	OGLL	-55.17	2-27-91	+1.17	-55.17	1991	-62.72	1969	I	1961,1966,1969,1971,1976,1981,1986,1991
16S.36E.20.111122	OGLL	-70.47	2-27-91	+1.23	-70.47	1991	-73.78	1981	S	1981,1986,1991
16S.36E.21.232244	OGLL	-64.27	2-27-91	+1.35	-60.87	1966	-65.62	1986	S	1961,1966,1976,1981,1986,1991
16S.36E.22.233244	OGLL	-73.51	2-27-91	+1.37	-73.06	1981	-74.88	1986	U	1981,1986,1991
16S.36E.23.241324	OGLL	-64.12	1-05-91	-2.34	-46.68	1955	-64.12	1991	I	1954-58,1960-63,1965-80,1983,1986-89,1991
16S.36E.24.14114	OGLL	-63.84	2-21-91	-6.20	-48.21	1961	-63.84	1991	I	1961,1966,1969,1971,1976,1986,1991
*16S.36E.26.21232	OGLL	-65.95	2-27-91	-2.32	-55.06	1971	-65.95	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.36E.31.131332	OGLL	-63.26	2-28-91	-1.00	-60.28	1966	-63.26	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.36E.32.22243	OGLL	-69.84	2-27-91	+1.07	-63.81	1961	-70.91	1986	U	1961,1966,1971,1976,1981,1986,1991
16S.36E.34.241232	OGLL	-65.33	2-27-91	-2.98	-57.86	1976	-65.33	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.36E.35.24144	OGLL	-72.69	2-27-91	-1.74	-41.55	1961	-72.69	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.37E.01.11111	OGLL	-71.53	2-15-91	+1.68	-59.10	1961	-76.70	1981	I	1961,1966,1971,1976,1981,1986,1991
16S.37E.01.311123	OGLL	-75.78	1-07-91	+0.92	-34.99	1950	-82.12	1980	I	1950-91
16S.37E.01.41131	OGLL	-71.75	2-15-91	+0.96	-52.77	1961	-73.39	1981	I	1961,1966,1971,1976,1981,1986,1991
16S.37E.02.11313	OGLL	-73.18	1-07-91	+1.14	-38.33	1950	-79.35	1982	I	1950-72,1981-91
16S.37E.02.211141	OGLL	-73.11	1-07-91	+1.32	-38.33	1950	-78.79	1980	I	1950-91
16S.37E.07.114224	OGLL	-58.65	1-05-91	-0.21	-38.32	1950	-63.36	1979	I	1950-91
16S.37E.07.33320	OGLL	-65.38	3-14-91	--	-54.85	1961	-65.80	1981	I	1961,1966,1971,1976,1981,1991
16S.37E.08.33432	OGLL	-52.65	2-21-91	-0.31	-37.19	1961	-52.65	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.37E.09.434334	OGLL	-52.96	2-21-91	-1.78	-46.43	1976	-52.96	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.37E.11.11111	OGLL	-65.79	1-07-91	+2.46	-31.93	1949	-78.64	1979	I	1949-91
16S.37E.12.213144	OGLL	-72.41	2-15-91	+0.80	-60.73	1966	-76.56	1981	I	1966,1971,1976,1981,1986,1991
16S.37E.19.241321	OGLL	-53.12	2-21-91	-4.23	-38.57	1961	-53.12	1991	I	1961,1966,1971,1976,1981,1986,1991
*16S.37E.20.44444	OGLL	-45.16	2-21-91	-3.79	-29.84	1966	-45.16	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.37E.22.43224	OGLL	-51.21	2-21-91	-1.97	-46.26	1981	-51.21	1991	H	1961,1966,1971,1976,1981,1986,1991
*16S.37E.24.233112	OGLL	-82.50	2-15-91	-6.21	-52.72	1961	-82.50	1991	I	1961,1966,1971,1976,1981,1986,1991
16S.37E.25.111113	OGLL	-74.32	1-04-91	-2.97	-64.90	1979	-75.33	1984	I	1979-91
16S.37E.25.33131	OGLL	-69.18	2-13-91	-0.05	-46.92	1961	-69.18	1991	I	1961,1966,1971,1976,1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
16S.37E.27.42421	OGLL	-57.09	2-21-91	-9.90	-47.19	1986	-57.09	1991	S	1981,1986,1991
16S.37E.28.433424	OGLL	-49.18	2-27-91	-2.34	-37.69	1976	-49.18	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.37E.29.114422	OGLL	-49.16	2-21-91	-2.64	-38.64	1976	-49.16	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.37E.35.41331	OGLL	-63.74	2-21-91	-1.38	-58.32	1981	-63.74	1991	S	1961,1966,1971,1981,1986,1991
16S.37E.36.434412	OGLL	-65.94	2-21-91	-0.66	-62.42	1981	-65.94	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.38E.01.13131	OGLL	-57.22	2-05-91	-3.62	-43.09	1976	-57.22	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.38E.03.23343	OGLL	-45.84	2-06-91	+6.23	-31.52	1961	-52.07	1986	I	1961,1966,1969,1971,1976,1981, 1986,1991
16S.38E.03.33333	OGLL	-46.45	1-07-91	-2.09	-24.49	1954	-46.45	1991	U	1953-91
16S.38E.04.131443	OGLL	-50.14	2-06-91	-2.70	-32.25	1961	-50.14	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.38E.07.132222	OGLL	-76.39	2-07-91	-1.39	-53.65	1961	-76.39	1991	I	1961,1966,1971,1976,1981,1986,1991
16S.38E.09.321134	OGLL	-54.77	2-12-91	-3.36	-34.70	1961	-54.77	1991	S	1961,1966,1971,1976,1981,1986,1991
*16S.38E.10.221313	OGLL	-51.60	2-12-91	-2.47	-30.62	1961	-52.42	1971	I	1961,1971,1976,1981,1986,1991
16S.38E.12.112333	OGLL	-67.25	2-12-91	-3.72	-39.34	1961	-67.25	1991	I	1961,1966,1971,1976,1981,1986,1991
16S.38E.15.43113	OGLL	-65.07	2-12-91	-2.96	-42.30	1961	-65.07	1991	I	1961,1966,1971,1976,1981,1986,1991
16S.38E.19.111132	OGLL	-79.07	2-12-91	-0.16	-45.93	1961	-79.07	1991	I	1961,1966,1971,1976,1981,1986,1991
16S.38E.21.131113	OGLL	-75.11	2-13-91	--	-44.67	1961	-75.11	1991	I	1961,1966,1971,1976,1991
16S.38E.22.311111	OGLL	-74.63	2-13-91	-1.54	-50.25	1961	-74.63	1991	I	1961,1966,1971,1981,1986,1991
*16S.38E.24.433332	OGLL	-79.93	2-12-91	-6.28	-51.65	1961	-79.93	1991	I	1961,1966,1971,1976,1981,1986,1991
16S.38E.26.13111	OGLL	-80.03	2-08-91	-4.25	-51.77	1954	-80.03	1991	I	1954-64,1966-71,1981,1986,1991
16S.38E.26.21113	OGLL	-69.96	2-08-91	-2.92	-48.20	1961	-69.96	1991	I	1961,1966,1971,1976,1981,1986,1991
16S.38E.27.111111	OGLL	-82.15	1-04-91	+5.45	-32.89	1950	-90.50	1981	I	1950-84,1986-91
16S.38E.27.313133	OGLL	-98.75	2-21-91	+5.83	-73.30	1961	-104.58	1986	I	1961,1966,1970-71,1976,1981,1986, 1991
16S.38E.29.11111	OGLL	-73.74	2-13-91	-3.55	-49.21	1961	-74.06	1981	I	1961,1966,1971,1976,1981,1986,1991
16S.38E.30.21111	OGLL	-73.05	1-04-91	-0.59	-36.82	1951	-73.35	1984	I	1951-64,1966-91
16S.38E.30.31112	OGLL	-76.07	2-13-91	+3.12	-53.23	1961	-79.19	1986	I	1961,1966,1971,1976,1981,1986,1991
16S.38E.31.24444	OGLL	-81.18	2-15-91	--	-70.18	1976	-81.18	1991	S	1961,1966,1971,1976,1981,1986,1991
16S.38E.32.421322	OGLL	-89.56	2-13-91	--	-89.56	1991	-94.02	1981	I	1981,1986,1991
16S.38E.34.13131	OGLL	-99.96	1-04-91	+0.59	-45.45	1958	-104.42	1980	I	1952,1958-91
16S.38E.35.124143	OGLL	-90.28	2-15-91	-8.41	-50.35	1961	-90.28	1991	I	1961,1966,1970-71,1976,1981,1986, 1991
16S.39E.05.31130	OGLL	-89.68	2-07-91	-6.87	-55.65	1961	-89.68	1991	U	1961,1966,1971,1976,1981,1986,1991
16S.39E.07.33132	OGLL	-77.46	1-04-91	-1.44	-51.76	1966	-79.20	1990	I	1966,1971,1976,1980-87,1989-91
16S.39E.17.34422	OGLL	-105.32	1-04-91	-3.52	-67.90	1961	-107.18	1990	I	1961,1966,1971,1976,1980-91
16S.39E.19.131334	OGLL	-81.75	2-13-91	-6.65	-49.17	1961	-81.75	1991	I	1961,1966,1971,1981,1986,1991
16S.39E.20.133112	OGLL	-91.84	2-08-91	-6.40	-32.09	1946	-91.84	1991	I	1946,1948-63,1976,1981,1986,1991
16S.39E.29.23332	OGLL	-115.18	1-04-91	-7.55	-54.85	1950	-115.18	1991	I	1950-58,1960-91
16S.39E.29.33444	OGLL	-113.45	2-08-91	-7.28	-69.90	1961	-113.45	1991	I	1961,1970,1981,1986,1991
*17S.33E.13.34122	OGLL	-171.50	1-02-91	-2.00	-146.05	1953	-174.79	1989	U	1952-91

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
17S.34E.36.224112	OGLL	-112.06	1-15-91	--	-77.79	1961	-112.06	1991	U	1961,1966,1971,1976,1981,1986,1991
17S.34E.36.31231	OGLL	-123.24	1-15-91	--	-78.64	1961	-123.24	1991	U	1961,1966,1971,1976,1981,1986,1991
17S.35E.31.43411	OGLL	-95.01	1-15-91	--	-63.92	1961	-95.01	1991	U	1961,1966,1971,1976,1981,1986,1991
17S.36E.02.411123	OGLL	-55.87	1-15-91	-2.50	-43.21	1961	-55.87	1991	U	1961,1966,1971,1976,1981,1986,1991
17S.36E.03.132313	OGLL	-53.02	1-15-91	-1.58	-51.44	1986	-53.02	1991	S	1981,1986,1991
17S.36E.03.24344	OGLL	-61.17	1-15-91	-1.44	-53.69	1961	-61.17	1991	I	1961,1966,1971,1976,1981,1986,1991
17S.36E.04.133221	OGLL	-61.60	1-15-91	-2.02	-59.15	1981	-61.60	1991	S	1981,1986,1991
*17S.36E.08.41110	OGLL	-51.56	1-15-91	-0.65	-48.64	1961	-51.56	1991	U	1961,1966,1971,1976,1981,1986,1991
*17S.36E.12.22322	OGLL	-54.02	1-15-91	-2.02	-34.63	1961	-54.02	1991	U	1961,1966,1971,1976,1981,1986,1991
17S.36E.27.13134	OGLL	-42.79	1-03-91	-1.52	-32.92	1949	-42.87	1991	I	1947-80,1982-91
17S.36E.29.21111	OGLL	-48.61	2-19-91	-3.55	-38.92	1961	-56.42	1976	I	1961,1966,1971,1976,1981,1986,1991
*17S.36E.34.33124	OGLL	-54.63	2-08-91	-2.61	-37.71	1961	-54.63	1991	I	1961,1966,1971,1976,1981,1986,1991
17S.36E.35.13122	OGLL	-48.58	2-08-91	-1.85	-39.27	1961	-48.58	1991	I	1961,1966,1969,1971,1976,1981,1986, 1991
*17S.37E.01.411124	OGLL	-69.65	1-24-91	+1.21	-49.94	1961	-71.27	1981	I	1961,1966,1976,1981,1986,1991
17S.37E.03.31324	OGLL	-60.04	1-24-91	-1.20	-43.84	1961	-60.10	1981	I	1961,1966,1971,1976,1981,1986,1991
17S.37E.04.411111	OGLL	-59.64	1-24-91	-1.20	-55.36	1981	-59.64	1991	S	1981,1986,1991
17S.37E.05.412221	OGLL	-57.40	1-24-91	-1.30	-36.54	1961	-57.40	1991	I	1961,1966,1971,1976,1981,1986,1991
17S.37E.06.411331	OGLL	-61.64	1-31-91	-1.91	-38.46	1961	-61.64	1991	I	1961,1966,1971,1976,1981,1986,1991
17S.37E.07.24342	OGLL	-53.44	1-24-91	-2.03	-48.45	1981	-53.44	1991	S	1981,1986,1991
17S.37E.09.13332	OGLL	-58.24	1-24-91	-1.64	-54.20	1981	-58.24	1991	I	1981,1986,1991
17S.37E.10.211111	OGLL	-60.65	1-03-91	-1.28	-32.87	1949	-64.10	1984	I	1949-89,1991
17S.37E.10.41132	OGLL	-61.10	1-31-91	-1.24	-59.86	1986	-65.41	1981	I	1981,1986,1991
17S.37E.12.11321	OGLL	-72.72	1-03-91	+1.53	-40.69	1950	-76.28	1980	I	1950-91
17S.37E.13.11220	OGLL	-70.25	1-31-91	+0.94	-53.15	1961	-71.19	1986	I	1961,1966,1971,1976,1986,1991
17S.37E.13.22444	OGLL	-60.54	1-23-91	+0.05	-58.93	1981	-60.59	1986	I	1981,1986,1991
17S.37E.14.111222	OGLL	-61.43	1-23-91	+0.34	-45.84	1961	-61.77	1986	I	1961,1966,1971,1976,1986,1991
17S.37E.18.41424	OGLL	-50.16	1-24-91	-2.39	-36.99	1961	-50.16	1991	S	1961,1966,1971,1976,1981,1986,1991
17S.37E.21.33414	OGLL	-49.28	1-31-91	-1.25	-38.75	1966	-49.28	1991	H	1961,1966,1971,1976,1981,1986,1991
17S.37E.23.213442	OGLL	-60.48	1-31-91	+1.27	-59.51	1966	-64.98	1981	I	1966,1969,1976,1981,1986,1991
17S.37E.24.224444	OGLL	-62.38	1-03-91	+1.12	-60.11	1981	-68.04	1982	I	1981-87,1989-91
*17S.37E.24.41131	OGLL	-62.83	1-23-91	+0.83	-62.83	1991	-65.60	1976	I	1976,1981,1986,1991
17S.37E.25.41111	OGLL	-56.97	1-17-91	+1.46	-41.80	1961	-62.07	1971	I	1961,1966,1971,1976,1981,1986,1991
*17S.37E.26.411111	OGLL	-54.63	1-31-91	+1.36	-53.70	1976	-59.31	1981	I	1976,1981,1986,1991
17S.37E.27.41212	OGLL	-54.64	1-31-91	+0.66	-42.56	1961	-58.45	1981	I	1961,1976,1981,1986,1991
17S.37E.30.42234	OGLL	-41.93	1-24-91	-1.36	-33.71	1966	-41.93	1991	S	1961,1966,1971,1981,1986,1991
17S.37E.32.331311	OGLL	-44.07	1-31-91	-1.94	-34.18	1961	-44.07	1991	S	1961,1966,1971,1976,1981,1986,1991
17S.37E.32.42440	OGLL	-44.17	1-31-91	-0.41	-37.00	1961	-44.58	1976	S	1961,1966,1971,1976,1981,1986,1991
17S.37E.34.11111	OGLL	-53.40	1-03-91	+0.10	-42.13	1957	-69.74	1973	I	1957-88,1990-91
17S.37E.34.41111	OGLL	-52.59	1-31-91	+0.05	-37.77	1954	-59.80	1981	I	1954-55,1961,1966,1969,1971,1976, 1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
17S.37E.35.114341	OGLL	-63.26	1-31-91	-0.30	-62.96	1986	-65.40	1981	I	1981,1986,1991
17S.37E.35.43300	OGLL	-56.78	1-31-91	-5.25	-35.54	1961	-56.78	1991	I	1961,1966,1971,1976,1981,1986,1991
17S.37E.36.113321	OGLL	-54.51	1-17-91	-0.48	-23.78	1942	-57.04	1981	I	1939-40,1942-46,1961,1966,1971, 1976,1981,1986,1991
*17S.38E.02.331	OGLL	-86.48	1-04-91	-2.64	-79.05	1983	-86.48	1991	U	1983-91
17S.38E.07.111311	OGLL	-66.55	1-03-91	+3.23	-35.59	1952	-72.99	1979	I	1951-91
17S.38E.07.311334	OGLL	-66.64	1-03-91	-0.61	-46.92	1961	-68.23	1981	I	1961,1966,1971,1976,1981,1986,1991
17S.38E.08.21113	OGLL	-75.34	1-03-91	+2.03	-36.46	1950	-77.42	1985	I	1950-57,1959-91
17S.38E.15.313111	OGLL	-64.90	1-03-91	-5.82	-44.14	1961	-64.90	1991	U	1961,1966,1971,1976,1980-91
*17S.38E.24.314444	OGLL	-70.55	1-04-91	+6.29	-58.40	1980	-76.84	1986	I	1980-86,1988-91
17S.38E.31.311111	OGLL	-53.49	1-03-91	-1.33	-26.71	1949	-54.70	1978	I	1948-71,1974-91
17S.38E.34.113143	OGLL	-62.94	1-03-91	-3.48	-24.78	1944	-63.70	1991	I	1943-91
17S.39E.30.232222	OGLL	-100.76	1-04-91	-2.03	-80.79	1980	-100.76	1991	I	1980-87,1989-91
18S.35E.06.34432	OGLL	-101.36	3-15-91	--	-86.24	1977	-101.36	1991	U	1977,1981,1986,1991
18S.35E.07.313114	OGLL	-97.84	3-15-91	--	-22.04	1966	-98.16	1971	U	1966,1971,1976,1981,1986,1991
*18S.35E.07.42331	OGLL	-87.85	3-28-91	-2.97	-82.17	1976	-87.85	1991	U	1976,1981,1986,1991
18S.35E.10.223221	OGLL	-58.32	3-28-91	--	-47.31	1966	-58.32	1991	U	1966,1971,1976,1981,1986,1991
18S.35E.20.21434	OGLL	-78.52	1-02-91	-1.45	-72.16	1961	-78.52	1991	K	1953-58,1960-77,1981-91
18S.35E.20.41111	OGLL	-79.20	3-15-91	--	-75.70	1956	-79.35	1986	K	1953-58,1960-62,1967,1971,1976, 1981,1986,1991
18S.35E.21.44000	OGLL	-72.07	3-12-91	--	-64.38	1971	-72.07	1991	K	1961,1966,1971,1981,1986,1991
18S.35E.22.43000	OGLL	-62.84	3-12-91	--	-57.42	1981	-62.84	1991	U	1981,1986,1991
18S.35E.24.111412	OGLL	-47.12	3-12-91	--	-37.29	1966	-47.12	1991	U	1961,1966,1971,1976,1991
18S.36E.04.411111	OGLL	-56.53	3-13-91	+1.11	-54.89	1981	-57.64	1986	I	1981,1986,1991
18S.36E.04.44423	OGLL	-55.92	1-03-91	-0.20	-55.28	1985	-61.14	1988	I	1985-86,1988-91
18S.36E.05.41111	OGLL	-64.07	3-13-91	+0.52	-45.00	1961	-64.59	1986	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.06.32222	OGLL	-57.76	3-13-91	-1.12	-42.63	1961	-57.76	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.07.32222	OGLL	-65.42	3-13-91	-4.62	-39.00	1961	-65.42	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.09.113222	OGLL	-58.42	3-13-91	+0.27	-58.42	1991	-58.69	1986	U	1986,1991
18S.36E.09.411111	OGLL	-56.05	3-13-91	-0.36	-37.35	1961	-56.05	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.10.11000	OGLL	-54.98	3-13-91	+1.37	-54.98	1991	-56.35	1986	U	1986,1991
18S.36E.10.41111	OGLL	-55.23	3-13-91	-0.18	-35.33	1961	-55.23	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.11.11000	OGLL	-62.40	3-13-91	-1.34	-61.06	1986	-62.40	1991	U	1986,1991
18S.36E.11.144444	OGLL	-61.97	3-13-91	-1.42	-45.28	1961	-61.97	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.12.23343	OGLL	-42.94	3-07-91	-2.53	-30.02	1961	-42.94	1991	S	1961,1966,1971,1976,1981,1986,1991
18S.36E.12.31121	OGLL	-44.15	3-13-91	+4.68	-39.92	1971	-48.83	1986	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.13.14444	OGLL	-37.91	3-13-91	-2.31	-25.62	1971	-37.91	1991	I	1971,1976,1981,1986,1991
18S.36E.14.14443	OGLL	-59.53	3-13-91	-9.58	-32.69	1961	-59.53	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.15.14444	OGLL	-59.53	3-13-91	-0.54	-42.67	1961	-59.53	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.18.14444	OGLL	-57.17	3-13-91	-0.72	-39.52	1961	-57.17	1991	I	1961,1966,1971,1976,1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*18S.36E.20.41111	OGLL	-55.16	3-13-91	-3.48	-38.24	1961	-55.16	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.21.41111	OGLL	-56.79	3-13-91	-5.64	-42.83	1961	-56.79	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.22.322222	OGLL	-51.33	3-13-91	+2.20	-37.96	1966	-53.53	1986	I	1966,1971,1976,1981,1986,1991
18S.36E.22.43321	OGLL	-61.95	3-13-91	--	-40.50	1971	-61.95	1991	S	1961,1966,1971,1991
*18S.36E.24.233333	OGLL	-54.63	3-14-91	-7.74	-31.68	1971	-54.63	1991	I	1971,1976,1981,1986,1991
18S.36E.25.423444	OGLL	-50.94	3-06-91	-0.10	-47.64	1976	-52.66	1981	I	1976,1981,1986,1991
18S.36E.26.233333	OGLL	-57.75	3-14-91	+4.21	-44.53	1971	-61.96	1986	I	1971,1976,1981,1986,1991
18S.36E.27.111111	OGLL	-54.00	1-03-91	-3.66	-38.09	1942	-54.00	1991	U	1939-86,1988-91
18S.36E.27.233333	OGLL	-50.32	3-14-91	+4.92	-40.17	1976	-58.06	1981	I	1971,1976,1981,1986,1991
18S.36E.28.411111	OGLL	-45.43	3-13-91	-3.63	-36.75	1981	-45.43	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.29.32222	OGLL	-54.35	3-13-91	+6.66	-42.81	1961	-61.01	1986	I	1961,1966,1971,1976,1981,1986,1991
18S.36E.30.23333	OGLL	-54.69	3-13-91	-2.66	-47.71	1976	-54.72	1981	I	1971,1976,1981,1986,1991
18S.36E.31.13310	OGLL	-48.36	3-14-91	-1.02	-43.01	1976	-48.36	1991	S	1961,1966,1971,1976,1981,1986,1991
18S.36E.35.23333	OGLL	-72.28	3-14-91	-6.72	-50.37	1971	-72.28	1991	I	1971,1976,1981,1986,1991
18S.36E.36.422344	OGLL	-63.55	3-06-91	+1.90	-60.90	1961	-72.97	1981	U	1961,1971,1976,1981,1986,1991
*18S.37E.01.432433	OGLL	-50.33	3-06-91	-6.15	-34.42	1966	-50.33	1991	P	1961,1966,1971,1976,1981,1986,1991
18S.37E.04.211111	OGLL	-51.04	3-07-91	-5.66	-37.04	1961	-55.64	1969	I	1961,1966,1969,1971,1976,1981, 1986,1991
18S.37E.04.444333	OGLL	-38.07	3-07-91	-0.91	-36.33	1981	-38.07	1991	S	1961,1966,1971,1981,1986,1991
18S.37E.06.421321	OGLL	-39.69	3-07-91	-2.37	-30.51	1966	-39.69	1991	S	1961,1966,1971,1981,1986,1991
18S.37E.07.133223	OGLL	-37.10	3-07-91	-2.54	-27.49	1966	-37.10	1991	U	1966,1971,1976,1981,1986,1991
18S.37E.13.431313	OGLL	-30.55	2-28-91	-2.70	-20.25	1976	-30.55	1991	S	1971,1976,1981,1986,1991
18S.37E.14.24122	OGLL	-32.60	2-28-91	-3.98	-23.10	1976	-32.60	1991	S	1961,1966,1971,1976,1981,1986,1991
*18S.37E.14.344121	OGLL	-33.18	2-27-91	-2.30	-24.95	1976	-33.18	1991	U	1961,1966,1971,1976,1981,1986,1991
18S.37E.15.221443	OGLL	-35.75	2-28-91	-1.94	-28.18	1976	-35.75	1991	S	1961,1966,1971,1976,1981,1986,1991
18S.37E.15.444242	OGLL	-31.09	2-28-91	-2.08	-23.02	1976	-31.09	1991	U	1961,1971,1976,1981,1986,1991
18S.37E.16.112133	OGLL	-36.98	3-06-91	-1.81	-35.17	1986	-36.98	1991	U	1986,1991
18S.37E.18.413214	OGLL	-38.50	3-07-91	-2.59	-25.73	1961	-38.50	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.37E.23.131333	OGLL	-29.65	2-28-91	-2.25	-20.77	1976	-29.65	1991	S	1971,1976,1981,1986,1991
18S.37E.23.441234	OGLL	-29.85	2-27-91	-2.30	-19.53	1961	-29.85	1991	U	1957,1961,1966,1971,1976,1981, 1986,1991
18S.37E.24.44443	OGLL	-35.42	2-28-91	-1.01	-32.09	1981	-35.42	1991	H	1981,1986,1991
18S.37E.25.422142	OGLL	-42.13	2-27-91	-2.70	-23.44	1961	-42.13	1991	U	1961,1971,1976,1981,1986,1991
18S.37E.27.13333	OGLL	-34.29	3-06-91	-2.80	-25.48	1976	-34.29	1991	I	1971,1976,1981,1986,1991
18S.37E.29.22232	OGLL	-46.27	3-06-91	-7.64	-34.53	1981	-46.27	1991	U	1981,1986,1991
18S.37E.29.31322	OGLL	-44.52	3-06-91	-1.38	-35.88	1966	-44.52	1991	U	1966,1971,1976,1981,1986,1991
18S.37E.32.133323	OGLL	-45.20	3-06-91	+0.04	-41.86	1971	-45.24	1986	S	1971,1976,1981,1986,1991
18S.37E.32.21200	OGLL	-40.72	3-06-91	-1.90	-35.79	1981	-40.72	1991	I	1981,1986,1991
18S.37E.33.221443	OGLL	-35.17	3-06-91	-3.27	-24.86	1966	-35.17	1991	S	1966,1971,1981,1986,1991
18S.37E.34.313412	OGLL	-34.22	3-07-91	-3.81	-25.87	1976	-34.22	1991	S	1966,1971,1976,1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
18S.37E.35.111111	OGLL	-30.47	2-27-91	-1.09	-22.21	1976	-30.47	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.37E.36.242211	OGLL	-55.21	2-27-91	-3.13	-43.71	1981	-55.21	1991	P	1981,1986,1991
*18S.38E.03.31333	OGLL	-72.83	1-03-91	-0.16	-29.68	1952	-72.83	1991	H	1952-78,1980-82,1984-86,1988-89, 1991
18S.38E.11.132222	OGLL	-73.29	3-01-91	-1.46	-38.17	1961	-73.29	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.38E.12.144222	OGLL	-99.30	3-01-91	+0.23	-73.73	1971	-99.53	1986	I	1971,1976,1981,1986,1991
18S.38E.16.14242	OGLL	-82.80	3-01-91	-1.85	-44.87	1961	-82.80	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.38E.17.232241	OGLL	-65.98	3-01-91	+5.55	-59.97	1981	-71.53	1986	I	1981,1986,1991
18S.38E.20.213332	OGLL	-54.10	3-01-91	-1.85	-39.98	1961	-54.10	1991	I	1961,1966,1971,1976,1981,1986,1991
18S.38E.30.332222	OGLL	-42.54	2-27-91	-2.67	-23.25	1957	-42.54	1991	U	1957,1976,1981,1986,1991
18S.38E.31.322413A	OGLL	-43.52	2-27-91	-4.02	-34.01	1976	-43.52	1991	U	1976,1981,1986,1991
*18S.39E.08.433424	OGLL	-82.06	2-26-91	-3.87	-61.25	1966	-82.06	1991	S	1961,1966,1971,1976,1981,1986,1991
18S.39E.20.343414	OGLL	-77.78	2-26-91	--	-45.53	1961	-77.78	1991	I	1961,1966,1991
18S.39E.20.41134	OGLL	-85.80	2-26-91	-4.25	-62.13	1961	-85.80	1991	I	1961,1966,1971,1976,1981,1986,1991
*18S.39E.31.222111	OGLL	-104.02	2-27-91	-9.25	-71.63	1961	-104.02	1991	I	1961,1966,1971,1976,1981,1986,1991
*19S.35E.16.13442	AVMB	-19.48	1-17-91	-0.26	-18.53	1981	-19.48	1991	S	1961,1966,1971,1976,1981,1986,1991
*19S.35E.24.222143	AVMB	-22.25	3-25-91	-1.43	-17.78	1947	-22.25	1991	I	1929,1939-56,1958,1981,1986,1991
19S.35E.24.422222	AVMB	-19.29	3-25-91	-0.29	-17.58	1961	-19.29	1991	I	1961,1966,1976,1981,1986,1991
*19S.36E.11.33323	OGLL	-60.17	2-22-91	+8.23	-60.17	1991	-68.40	1986	C	1981,1986,1991
19S.36E.13.111434	OGLL	-54.08	2-22-91	-2.33	-51.03	1971	-59.77	1966	U	1961,1966,1971,1976,1981,1986,1991
*19S.36E.19.11313	AVMB	-18.14	3-25-91	-0.77	-15.06	1947	-18.72	1984	I	1939-78,1980-84,1986,1991
19S.36E.20.11231	AVMB	-26.42	3-25-91	-1.18	-24.32	1976	-26.42	1991	S	1954,1961,1966,1971,1976,1981, 1986,1991
19S.36E.22.122133	OGLL	-66.70	3-25-91	+1.08	-66.70	1991	-67.78	1986	U	1981,1986,1991
19S.36E.23.12322	OGLL	-62.03	3-25-91	-0.36	-61.67	1986	-62.53	1981	U	1981,1986,1991
19S.36E.24.32343	AVMB	-66.37	3-25-91	-0.10	-62.62	1961	-67.23	1981	U	1961,1966,1971,1976,1981,1986,1991
19S.36E.26.242111	AVMB	-14.09	3-25-91	+0.63	-14.09	1991	-15.97	1981	S	1961,1966,1971,1976,1981,1986,1991
19S.36E.28.422211	OGLL	-48.02	3-26-91	-0.52	-46.88	1981	-48.02	1991	H	1976,1981,1986,1991
19S.36E.30.122212	OGLL	-20.57	3-25-91	-0.21	-20.36	1986	-20.62	1981	I	1981,1986,1991
19S.36E.32.341	AVMB	-56.69	2-21-91	--	-27.20	1934	-56.69	1991	U	1930-37,1991
*19S.36E.33.33331	AVMB	-28.52	3-26-91	-0.17	-28.26	1976	-29.67	1971	S	1961,1966,1971,1976,1981,1986,1991
19S.36E.33.44424	AVMB	-43.63	3-26-91	-0.65	-37.06	1976	-43.63	1991	S	1976,1981,1986,1991
19S.36E.34.212321	AVMB	-18.42	3-26-91	-0.07	-18.20	1976	-18.48	1981	S	1976,1981,1986,1991
19S.36E.35.313334	AVMB	-45.95	3-26-91	-1.37	-44.11	1981	-48.15	1971	U	1961,1966,1971,1976,1981,1986,1991
19S.36E.35.34340	AVMB	-37.36	3-26-91	--	-36.26	1981	-39.09	1976	S	1976,1981,1986,1991
19S.37E.04.11333	OGLL	-29.30	3-08-91	-1.04	-20.44	1961	-32.34	1971	I	1961,1966,1971,1976,1981,1986,1991
*19S.37E.05.32142	OGLL	-39.37	3-08-91	-0.44	-29.97	1961	-39.37	1991	I	1961,1966,1971,1976,1981,1986,1991
19S.37E.06.212223	OGLL	-50.80	2-21-91	+3.02	-50.80	1991	-56.25	1981	U	1981,1986,1991
19S.37E.07.223342	OGLL	-48.93	2-21-91	-1.38	-38.99	1961	-48.93	1991	U	1961,1966,1968,1971,1976,1981, 1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
19S.37E.08.31111	OGLL	-44.78	2-22-91	-1.89	-41.64	1966	-44.96	1981	S	1961,1966,1971,1976,1981,1986,1991
19S.37E.08.33333	OGLL	-57.77	2-22-91	-1.63	-53.47	1981	-67.88	1976	U	1976,1981,1986,1991
19S.37E.08.41133	OGLL	-40.36	2-22-91	-1.25	-32.26	1961	-40.36	1991	U	1961,1971,1976,1981,1986,1991
19S.37E.15.111443	OGLL	-40.39	3-08-91	-0.83	-37.30	1966	-40.39	1991	U	1961,1966,1971,1976,1981,1986,1991
19S.37E.16.233212	OGLL	-26.94	3-08-91	-1.19	-24.70	1976	-26.94	1991	S	1961,1966,1971,1976,1981,1986,1991
19S.37E.18.111142	OGLL	-63.87	2-22-91	-5.43	-57.56	1981	-65.46	1966	I	1961,1966,1971,1976,1981,1986,1991
19S.37E.19.113211	OGLL	-55.58	2-22-91	+1.76	-54.95	1961	-57.87	1976	U	1961,1966,1971,1976,1981,1986,1991
19S.37E.19.32142	OGLL	-58.43	2-21-91	+0.07	-58.43	1991	-58.98	1976	I	1976,1981,1986,1991
*19S.37E.23.334133	OGLL	-28.80	2-21-91	-3.96	-22.44	1976	-28.80	1991	S	1966,1971,1976,1981,1986,1991
19S.37E.33.444411	AVMB	-33.24	2-21-91	-2.55	-23.57	1976	-33.24	1991	I	1961,1966,1971,1976,1981,1986,1991
19S.37E.34.112333	OGLL	-24.71	2-21-91	-0.70	-21.31	1976	-24.71	1991	I	1968,1971,1976,1981,1986,1991
19S.38E.05.212422	OGLL	-32.55	2-24-91	-2.77	-28.50	1981	-32.55	1991	H	1981,1986,1991
19S.38E.11.131344	OGLL	-47.70	2-20-91	-6.87	-26.89	1976	-47.70	1991	S	1972,1976,1981,1986,1991
19S.38E.11.22444	OGLL	-65.31	2-20-91	-5.05	-45.09	1976	-65.31	1991	P	1971-72,1976,1981,1986,1991
*19S.38E.13.11113	OGLL	-92.52	2-20-91	-3.82	-78.95	1976	-92.52	1991	I	1976,1981,1986,1991
19S.38E.15.444121	OGLL	-53.85	2-20-91	-3.13	-45.40	1976	-57.24	1966	I	1961,1966,1971,1976,1981,1986,1991
*19S.38E.17.444444	OGLL	-40.86	2-20-91	-1.71	-39.15	1986	-40.86	1991	S	1976,1981,1986,1991
19S.38E.19.122242	OGLL	-25.30	2-21-91	-1.58	-21.24	1981	-25.30	1991	I	1981,1986,1991
19S.38E.19.42424	OGLL	-30.10	2-06-91	-0.85	-26.82	1976	-30.10	1991	I	1961,1966,1968,1971,1976,1981, 1986,1991
19S.38E.21.213222	OGLL	-42.33	2-20-91	-1.75	-37.87	1976	-42.33	1991	U	1971,1976,1981,1986,1991
19S.38E.21.411331	OGLL	-41.08	2-20-91	-0.95	-37.65	1976	-41.08	1991	S	1961,1966,1968,1971,1976,1981, 1986.1991
19S.38E.23.33410	OGLL	-54.48	2-22-91	-0.94	-53.29	1981	-54.48	1991	U	1981,1986,1991
19S.38E.25.423413	OGLL	-46.81	2-06-91	+1.04	-45.90	1976	-50.06	1981	I	1967,1971,1976,1981,1986,1991
19S.38E.26.443221	OGLL	-55.22	2-06-91	+0.32	-55.22	1991	-59.66	1971	U	1968,1971,1976,1981,1986,1991
19S.38E.27.11122	OGLL	-43.45	2-06-91	-0.66	-40.00	1976	-45.09	1966	U	1961,1966,1968,1971,1976,1981, 1986,1991
19S.38E.28.312313	OGLL	-37.44	2-21-91	-0.54	-35.49	1981	-37.44	1991	S	1966,1968,1971,1981,1986,1991
19S.38E.30.221133	OGLL	-31.48	2-20-91	-0.59	-28.53	1976	-31.85	1982	I	1974-79,1981-83,1986,1991
19S.38E.30.232443	OGLL	-50.29	2-20-91	--	-46.88	1976	-50.29	1991	I	1961,1966,1968,1971,1976,1981,1991
19S.38E.34.113313	OGLL	-35.95	2-06-91	+0.34	-34.36	1976	-39.59	1971	I	1961,1966,1971,1976,1981,1986,1991
19S.38E.34.22122	OGLL	-45.58	1-03-91	+0.11	-42.27	1949	-55.05	1972	I	1949-59,1961-81,1983-89,1991
19S.38E.35.324242	OGLL	-48.54	2-06-91	--	-48.54	1991	-64.72	1967	I	1967-68,1971,1976,1981,1991
*19S.38E.36.41111	OGLL	-41.89	2-06-91	+0.68	-41.89	1991	-48.38	1967	I	1967-68,1971,1976,1986,1991
19S.39E.06.222142	OGLL	-87.80	2-27-91	-5.09	-73.54	1971	-87.80	1991	H	1966,1971,1976,1981,1986,1991
19S.39E.06.33343	OGLL	-109.76	2-20-91	--	-96.64	1976	-109.76	1991	S	1976,1981,1991
19S.39E.18.132223	OGLL	-83.27	2-20-91	+6.42	-76.69	1981	-89.69	1986	I	1981,1986,1991
19S.39E.31.22324	OGLL	-76.75	2-06-91	-0.88	-71.62	1976	-76.75	1991	I	1961,1966,1968-69,1971,1976,1981, 1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
20S.35E.01.22211	AVMB	-25.74	1-30-91	--	-20.88	1977	-27.17	1974	S	1953,1957-77,1981,1986,1991
20S.35E.12.22222	AVMB	-41.40	1-31-91	--	-40.56	1981	-43.08	1976	U	1976,1981,1986,1991
20S.36E.03.33111	AVMB	-38.60	1-30-91	-0.84	-32.18	1976	-38.60	1991	S	1961,1966,1968,1971,1976,1981, 1986,1991
20S.36E.05.13224	OGLL	-28.18	1-30-91	+1.98	-25.54	1976	-32.79	1961	S	1953,1961,1966,1968,1971,1976,1981, 1986,1991
20S.36E.06.142223	AVMB	-32.56	1-30-91	--	-28.03	1976	-32.95	1966	U	1966,1971,1976,1981,1986,1991
20S.36E.08.11111	AVMB	-32.22	1-30-91	--	-31.19	1981	-75.05	1989	U	1961,1966,1968,1971,1976,1981, 1986,1989,1991
20S.36E.09.13440	AVMB	-26.75	1-30-91	-0.36	-20.73	1976	-28.56	1961	S	1961,1976,1981,1986,1991
20S.36E.10.32114	AVMB	-32.61	1-30-91	-1.50	-29.75	1976	-32.61	1991	S	1961,1966,1971,1976,1981,1986,1991
*20S.36E.11.42243	AVMB	-30.23	1-30-91	-0.56	-29.67	1986	-33.51	1968	S	1968,1971,1976,1981,1986,1991
20S.36E.15.24342	OGLL	-32.74	1-30-91	--	-29.76	1986	-36.29	1961	S	1954,1961,1986,1991
20S.36E.17.11111	AVMB	-28.19	1-31-91	--	-28.19	1991	-35.47	1966	S	1961,1966,1968,1971,1976,1981, 1986,1991
*20S.36E.19.43120	AVMB	-82.36	1-31-91	+1.61	-82.36	1991	-119.25	1961	U	1961,1966,1968,1976,1981,1986,1991
20S.36E.26.24344	CHNL	-112.79	1-30-91	--	-79.46	1971	-112.79	1991	U	1961,1966,1968,1971,1976,1981, 1986,1991
20S.36E.32.11321	CHNL	-222.45	1-31-91	--	-166.46	1981	-222.45	1991	S	1961,1966,1968,1971,1976,1981, 1986,1991
20S.36E.35.24444	CHNL	-117.19	1-31-91	--	-82.86	1971	-130.00	1961	S	1961,1966,1971,1991
*20S.36E.36.13444	CHNL	-112.65	2-01-91	-3.62	-76.79	1971	-112.65	1991	S	1961,1966,1968,1971,1976,1981, 1986,1991
20S.37E.01.22422	OGLL	-48.98	1-24-91	-1.63	-46.92	1976	-48.98	1991	U	1961,1966,1971,1976,1981,1986,1991
20S.37E.04.221321	AVMB	-33.59	1-24-91	-2.46	-24.02	1976	-33.59	1991	S	1954,1961,1966,1968,1971,1976, 1981,1986,1991
20S.37E.05.13440	AVMB	-31.00	1-29-91	-1.12	-24.48	1976	-31.00	1991	U	1968,1971,1976,1981,1986,1991
20S.37E.06.334444	AVMB	-26.39	1-29-91	-1.16	-24.01	1976	-29.09	1966	U	1961,1966,1968,1971,1976,1981, 1986,1991
20S.37E.07.24331	AVMB	-25.06	1-29-91	-0.79	-22.67	1976	-25.45	1961	S	1961,1966,1971,1976,1981,1986,1991
*20S.37E.13.32130	AVMB	-80.33	2-01-91	-0.18	-74.39	1954	-80.33	1991	S	1954,1961,1968,1971,1976,1981, 1986,1991
*20S.37E.16.314141	AVMB	-14.48	2-24-91	-0.13	-13.16	1953	-18.26	1968	U	1953,1968,1971,1976,1981,1986,1991
20S.37E.17.13231	AVMB	-25.83	1-29-91	-0.21	-25.56	1976	-26.85	1971	S	1954,1961,1966,1968,1971,1976,1981, 1986,1991
20S.37E.18.21232	AVMB	-27.28	1-29-91	-0.50	-26.78	1986	-28.62	1967	U	1967,1971,1976,1981,1986,1991
20S.37E.20.43131	AVMB	-22.27	1-29-91	+0.26	-21.50	1976	-23.33	1971	S	1954,1961,1966,1968,1971,1976,1981, 1986,1991
20S.37E.21.333141	AVMB	-22.13	1-29-91	-0.15	-21.03	1976	-23.54	1971	U	1961,1971,1976,1981,1986,1991
20S.37E.28.24413	AVMB	-36.30	1-25-91	-0.60	-35.70	1986	-36.60	1961	S	1954,1961,1966,1971,1976,1981, 1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
20S.37E.29.34443	AVMB	-108.58	1-25-91	-0.05	-8.80	1966	-108.58	1991	S	1966,1968,1971,1976,1981,1986,1991
20S.37E.30.44132	AVMB	-107.12	1-25-91	-0.18	-15.57	1961	-107.12	1991	S	1961,1966,1968,1971,1976,1986,1991
*20S.37E.35.414234	AVMB	-53.46	1-25-91	0.00	-53.02	1981	-55.96	1954	U	1954,1967-69,1971,1976,1981,1986, 1991
20S.38E.01.34431	OGLL	-35.75	1-15-91	+2.22	-35.75	1991	-46.33	1981	U	1981,1986,1991
20S.38E.02.412422	AVMB	-14.94	1-16-91	+4.56	-14.94	1991	-35.67	1976	S	1961,1966,1968,1971,1976,1981, 1986,1991
20S.38E.03.22130	OGLL	-25.99	1-15-91	+2.60	-25.99	1991	-38.60	1976	S	1966,1971,1976,1981,1986,1991
20S.38E.05.214111	OGLL	-46.59	1-24-91	-0.29	-46.03	1981	-48.75	1968	S	1961,1966,1968,1972,1976,1981, 1986,1991
20S.38E.05.31320	OGLL	-54.04	1-24-91	-0.15	-52.91	1981	-61.64	1966	S	1961,1966,1968,1971,1976,1981, 1986,1991
20S.38E.08.232411	OGLL	-47.54	1-16-91	+6.03	-47.54	1991	-73.80	1961	P	1961,1966,1968,1971,1976,1981, 1986,1991
20S.38E.11.41440	OGLL	-28.51	1-16-91	--	-28.51	1991	-37.84	1981	U	1981,1991
*20S.38E.13.141224	AVMB	-35.25	1-16-91	+2.48	-31.08	1961	-37.73	1986	S	1961,1966,1968,1971,1976,1981, 1986,1991
20S.39E.06.13322	OGLL	-68.60	1-15-91	+1.16	-68.25	1966	-71.49	1981	U	1966,1968,1971,1976,1981,1986,1991
20S.39E.07.134442	OGLL	-52.27	1-15-91	--	-52.27	1991	-64.92	1961	S	1961,1966,1968,1971,1976,1981,1991
20S.39E.08.132114	OGLL	-50.00P	1-15-91	--	-44.19	1961	-50.66	1981	S	1961,1966,1968,1971,1976,1981, 1986,1991
20S.39E.19.122122	OGLL	-46.93	1-16-91	--	-43.66	1976	-57.58	1967	S	1964-72,1974-76,1980-81,1983,1991
20S.39E.20.123143	OGLL	-29.50	1-16-91	-1.49	-28.01	1986	-30.62	1966	S	1966,1968,1971,1976,1981,1986,1991
*21S.35E.24.24141	CHNL	-201.78	2-01-91	+0.57	-201.78	1991	-204.07	1968	S	1968,1971,1976,1981,1986,1991
21S.36E.16.22442	OGLL	-174.98	1-31-91	-0.11	-174.76	1981	-174.98	1991	S	1981,1986,1991
21S.36E.17.433333	OGLL	-242.71	2-01-91	-0.24	-242.47	1986	-243.27	1968	S	1968,1970,1981,1986,1991
*21S.37E.12.34341	AVMB	-68.71	1-23-91	-0.68	-68.03	1986	-68.71	1991	S	1986,1991
21S.37E.13.13434	AVMB	-52.92	1-23-91	-1.46	-50.04	1981	-52.92	1991	S	1965,1968,1970,1981,1986,1991
*21S.37E.25.31314	AVMB	-42.42	1-23-91	+2.71	-42.42	1991	-54.12	1965	S	1965,1968,1970,1976,1981,1986,1991
*21S.38E.04.23113	AVMB	-83.30	1-16-91	-0.22	-82.69	1981	-83.30	1991	S	1981,1986,1991
21S.38E.06.131334	OGLL	-76.56	1-17-91	+0.38	-75.92	1970	-76.94	1986	U	1970,1973,1976,1981,1986,1991
21S.38E.19.24224	AVMB	-38.77	1-23-91	+0.30	-37.77	1965	-39.07	1986	S	1965,1968,1970,1976,1981,1986,1991

Tularosa Basin Monitoring Area

The Tularosa Basin monitoring area is located in western Otero and Lincoln Counties and southeastern Socorro County. Many water-level changes are rises ranging from less than 1 foot to more than 37 feet. Declines range from less than 1 foot to more than 31 feet. Two small areas that have declining water levels are in T. 5 S., R. 10 E. and Tps. 17 and 18 S., Rs. 9 and 10 E.

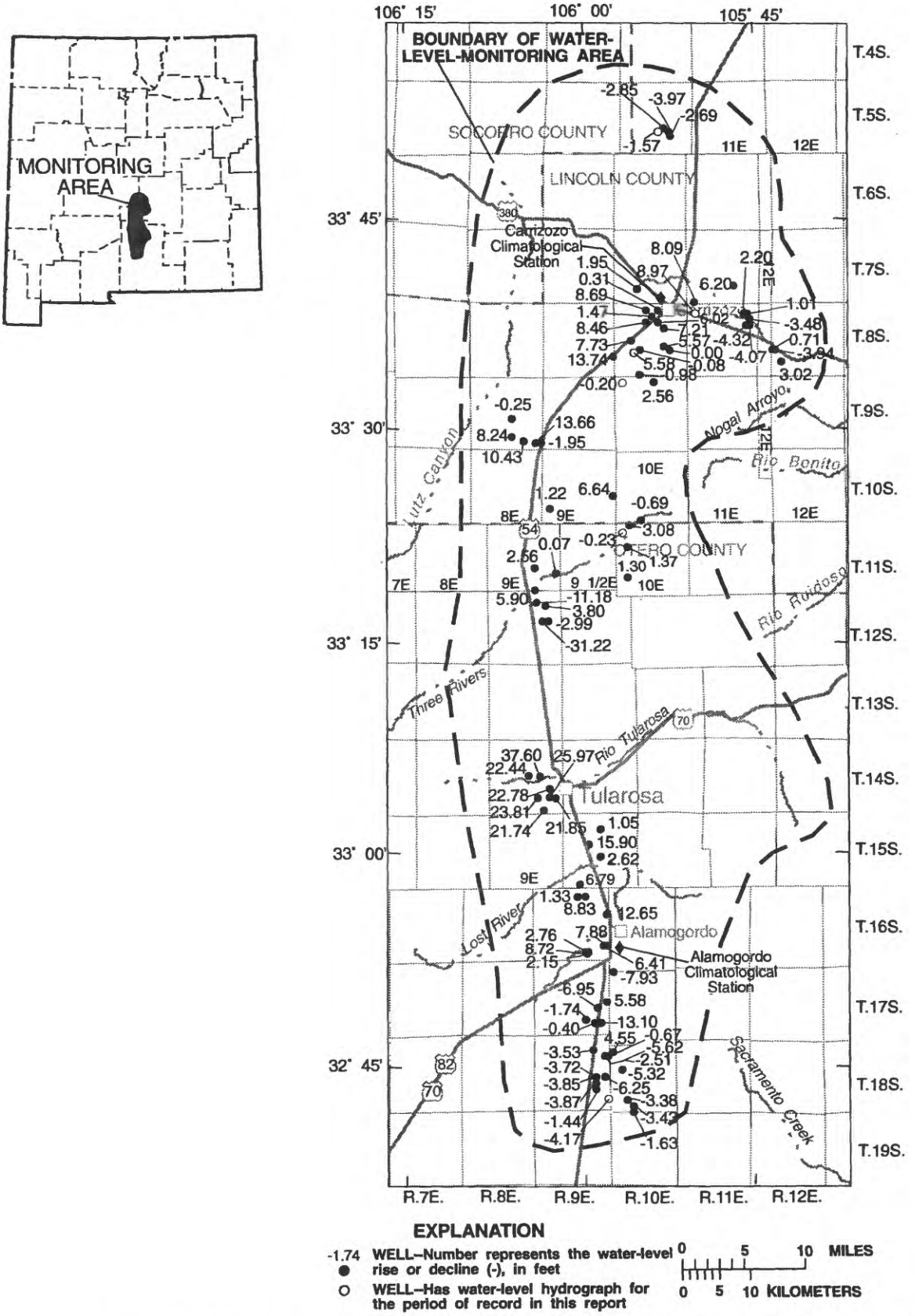


Figure 25.--Water-level changes for wells in the Tularosa Basin monitoring area, 1986-91.

GROUND-WATER HYDROGRAPHS AND 5-YEAR GROUND-WATER-LEVEL CHANGES, 1984-93, FOR SELECTED AREAS IN AND ADJACENT TO NEW MEXICO

By D.W. Wilkins and B.M. Garcia

ABSTRACT

A cooperative observation-well monitoring program was begun in New Mexico in 1925 between the U.S. Geological Survey and the New Mexico State Engineer Office. The majority of the wells are located in New Mexico; however, a few are in Texas east of Curry and Roosevelt County, New Mexico, and in Colorado along the Rio Grande. The program presently includes 22 wells equipped with continuous water-level recorders and 34 monitoring areas in which selected wells are measured periodically, usually every 5 years, to record changes in ground-water levels. These monitoring areas are those where ground water is used in large quantities for irrigation, municipal, or industrial purposes. Water-level data and water-level changes computed from these data are used to determine areas of ground-water-level rises and declines. This information is necessary for management of ground-water resources in New Mexico.

Included in this report are hydrographs of ground-water levels obtained from 22 wells equipped with continuous water-level recorders and maps of ground-water-level changes computed for a 5-year period in each of 34 monitoring areas. Well locations and ground-water-level data for a 5-year period are listed in tables for each monitoring area. Where available, plots of annual precipitation data for climatological stations within or adjacent to each monitoring area are included.

INTRODUCTION

A systematic program of ground-water-level measurements in New Mexico was begun in 1925 as part of a cooperative observation-well program between the U.S. Geological Survey and the New Mexico State Engineer Office. Starting in the Roswell area, the program has been expanded from time to time to obtain information about water-level changes in areas of significant ground-water withdrawals. Water-level data and changes computed from these data are used to determine areas of ground-water rises and declines. This information may be used to manage the ground-water resources in New Mexico.

The majority of the wells are located in New Mexico, with a few in Texas adjacent to Curry and Roosevelt Counties and a few in Colorado along the Rio Grande. Water levels in areas in Texas and Colorado are measured to have continuity of hydrologic data across the New Mexico State line. The location and approximate extent of 34 areas designated for ground-water-level monitoring in and adjacent to New Mexico as of February 1993 and the measurement schedule for each area are shown in figure 1. Data collection and report preparation are in cooperation with the New Mexico State Engineer Office.

Purpose and Scope

This report presents hydrographs of ground-water-level data collected through 1993 from 22 wells equipped with continuous water-level recorders, maps of changes in ground-water levels using water-level data collected at 5-year intervals during 1984-93 in 34 monitoring areas, and hydrographs of 5-year or more frequent water levels measured in selected wells in each monitoring area. Tables of well location and ground-water data for the wells measured in each monitoring area are included.. Where available, annual precipitation data for climatological stations within or adjacent to each monitoring area are presented. Only data collected in cooperation with the State Engineer Office for this specific program are included in the report.

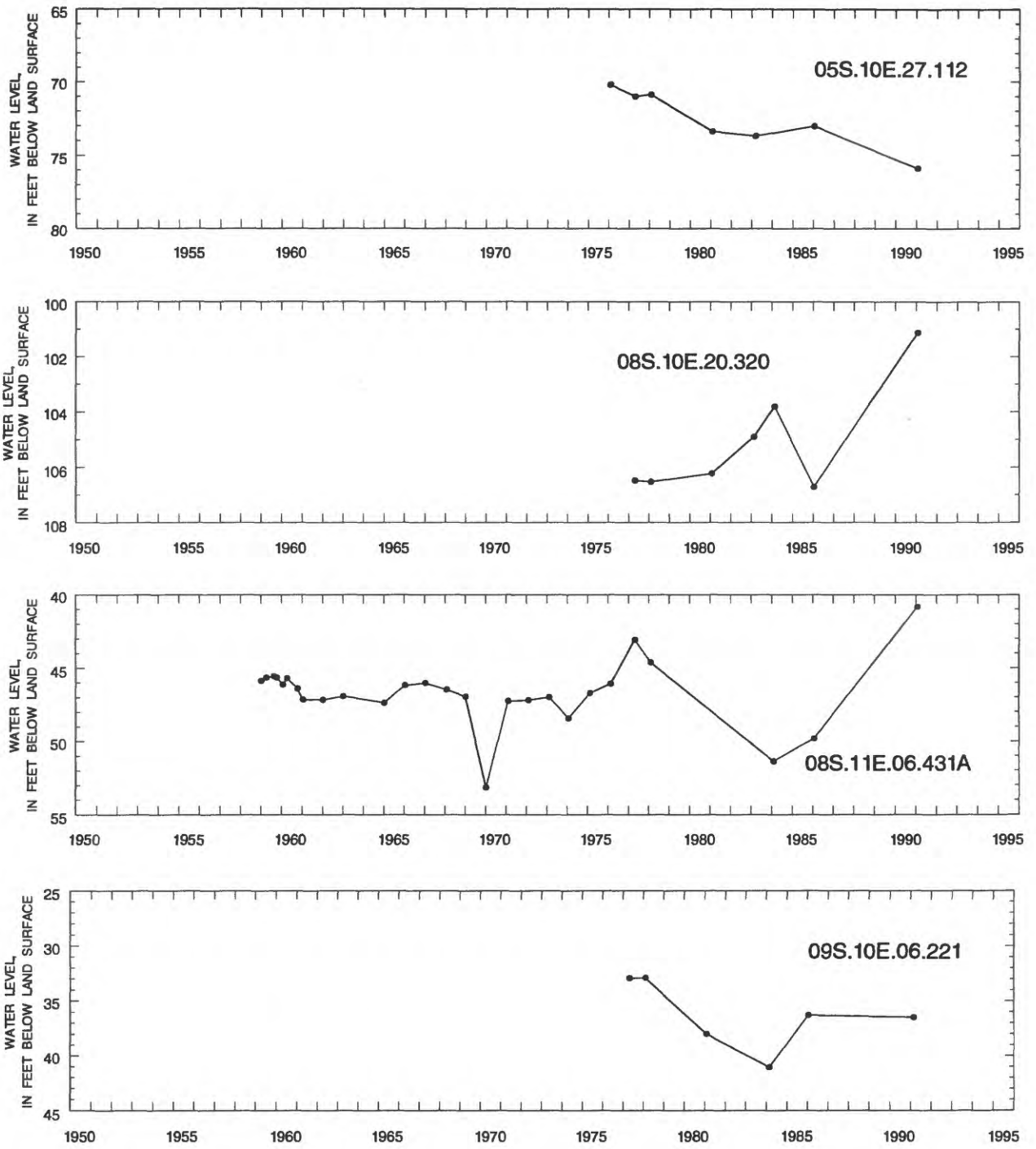


Figure 26.--Water-level data for selected wells in the Tularosa Basin monitoring area and annual precipitation at the Carrizozo and Alamogordo Climatological Stations. See figure 25 for location of wells and stations.

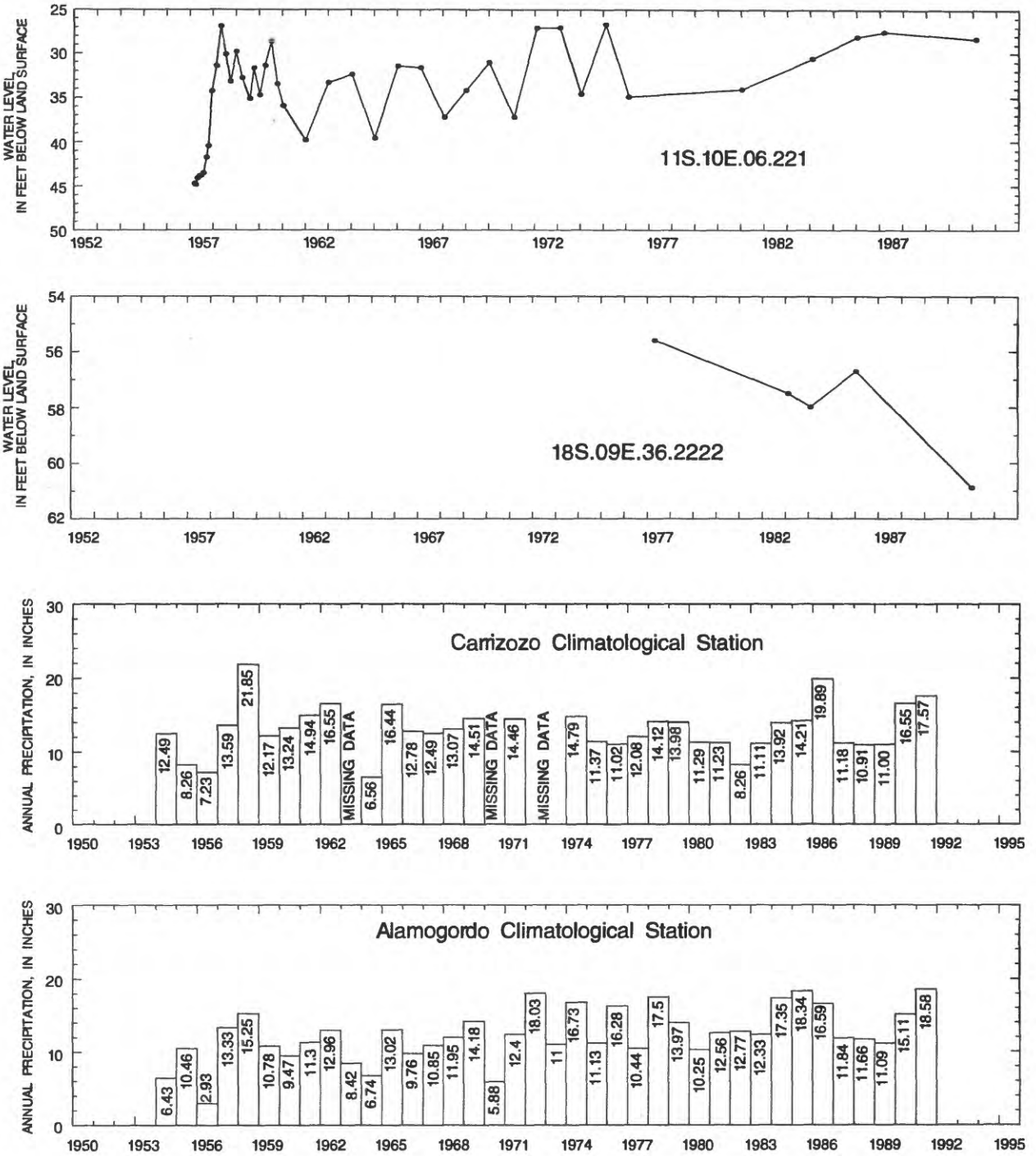


Figure 26.--Water-level data for selected wells in the Tularosa Basin monitoring area and annual precipitation at the Carrizozo and Alamogordo Climatological Stations. See figure 25 for location of wells and stations--Concluded.

Table 12.--Well location and water-level data for selected wells in the Tularosa Basin monitoring area, Otero, Lincoln, and Socorro Counties, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other deposits. Winter water level, site status: R, recently pumped; S, nearby pumping. Use of water: H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
05S.10E.27.111	AVMB	-75.12	1-24-91	-1.57	-70.90	1976	-75.12	1991	I	1976,1984,1986,1991
05S.10E.27.112	AVMB	-75.88	1-24-91	-2.85	-70.20	1976	-75.88	1991	I	1976-78,1981,1983,1986,1991
05S.10E.27.221	AVMB	-99.35	1-24-91	-2.69	-90.30	1976	-99.64	1984	S	1976,1983-84,1986,1991
05S.10E.27.221A	AVMB	-97.57	1-24-91	-3.97	-89.31	1977	-97.57	1991	I	1976-78,1981,1983,1986,1991
06S.09E.01.221	AVMB	-128.18	1-24-91	--	-94.11	1981	-128.18	1991	U	1976,1981,1991
06S.10E.06.111	AVMB	-142.05S	1-24-91	--	-104.73	1984	-119.52	1978	U	1976-78,1981,1984,1986,1991
06S.10E.13.124	--	-33.99	2-15-91	--	-33.99	1991	-34.24	1981	U	1981,1991
06S.11E.08.113	--	-225.39R	2-15-91	--	-134.50	1981	-161.05	1984	S	1981,1984,1986,1991
07S.09E.08.344	AVMB	-246.80	3-05-91	--	-246.80	1991	-278.30	1976	S	1976-78,1981,1986,1991
07S.10E.28.230	AVMB	-23.82	1-22-91	--	-21.88	1983	-26.90	1976	S	1976-77,1983,1991
07S.10E.29.414	AVMB	-32.02	1-22-91	+1.95	-32.02	1991	-34.70	1978	I	1976-78,1981,1984,1986,1991
07S.11E.27.234	--	-73.36	1-24-91	+6.20	-73.36	1991	-79.56	1986	S	1981,1986,1991
07S.11E.31.344	--	-6.04	1-24-91	+8.09	-6.04	1991	-16.55	1984	U	1981,1984,1986,1991
08S.09E.25.242	AVMB	-96.09	1-29-91	+13.74	-96.09	1991	-109.83	1986	S	1976-78,1981,1984,1986,1991
08S.09E.34.333	AVMB	-27.51	1-29-91	--	-27.24	1975	-39.65	1965	S	1957-78,1981,1991
08S.10E.03.134	AVMB	-43.57	3-05-91	+0.31	-38.63	1977	-43.88	1986	S	1976-78,1983-84,1986,1991
08S.10E.04.123	AVMB	-24.24	1-30-91	+8.69	-24.24	1991	-32.93	1986	S	1976-78,1984,1986,1991
08S.10E.04.442	AVMB	-34.71	3-07-91	+1.47	-34.60	1976	-36.18	1986	U	1976-78,1986,1991
08S.10E.09.122	AVMB	-35.67	3-07-91	+8.46	-33.33	1977	-44.13	1986	H	1976-78,1984,1986,1991
08S.10E.10.233	--	-31.06	3-07-91	+6.02	-31.06	1991	-37.08	1986	U	1981,1983-84,1986,1991
08S.10E.10.424	AVMB	-12.80	1-29-91	+7.21	-12.80	1991	-22.30	1976	S	1976-78,1986,1991
08S.10E.17.343	AVMB	-101.10	1-29-91	+7.73	-101.10	1991	-109.83	1977	S	1976-78,1981,1984,1986,1991
08S.10E.20.320	AVMB	-101.13	1-29-91	+5.58	-101.13	1991	-106.71	1986	S	1976-78,1981,1983-84,1986,1991
08S.10E.21.331	AVMB	-117.75	1-29-91	-0.08	-117.03	1981	-118.16	1978	U	1976-78,1981,1984,1986,1991
08S.10E.22.244	AVMB	-122.09	1-30-91	+5.57	-122.09	1991	-128.20	1984	S	1976-78,1984,1986,1991
08S.10E.23.431	AVMB	-43.67	1-29-91	0.00	-41.90	1977	-44.40	1976	S	1976-78,1984,1986,1991
08S.10E.32.423	AVMB	-38.54	1-30-91	-0.98	-37.10	1976	-38.54	1991	S	1976-78,1984,1986,1991
08S.11E.02.143	--	-74.84	1-23-91	--	-66.55	1981	-74.84	1991	H	1981,1984,1986,1991
08S.11E.02.424	--	-90.79	1-23-91	+1.01	-89.52	1981	-91.80	1986	I	1981,1986,1991
08S.11E.02.431	--	-48.90	1-23-91	+2.20	-47.34	1981	-51.10	1986	H	1981,1984,1986,1991
08S.11E.06.431A	AVMB	-40.84	1-24-91	+8.97	-40.84	1991	-53.15	1970	U	1959-78,1984,1986,1991
08S.11E.11.421	--	-41.55	1-23-91	-4.32	-35.50	1984	-42.61	1986	S	1981,1983-84,1986,1991
08S.11E.12.131	--	-53.95	1-23-91	-3.48	-45.52	1981	-55.42	1983	H	1981,1983,1986,1991
08S.11E.12.313	--	-39.98	1-23-91	-4.07	-35.91	1986	-39.98	1991	I	1981,1986,1991
08S.13E.19.313	AVMB	-24.38	1-24-91	+0.71	-15.65	1973	-25.09	1986	I	1957-73,1975-78,1981,1984,1986,1991
08S.13E.19.332	AVMB	-26.95	1-24-91	-3.94	-19.08	1976	-26.95	1991	I	1976-77,1981,1984,1986,1991
08S.13E.30.423	AVMB	-22.75	1-22-91	+3.02	-14.57	1973	-31.92	1965	I	1957-66,1968-78,1981,1986,1991
09S.08E.22.134	AVMB	-222.10	1-30-91	-0.25	-220.70	1976	-222.54	1978	H	1976-78,1981,1986,1991
09S.08E.27.311	AVMB	-229.69	3-20-91	+8.24	-229.69	1991	-245.06	1977	S	1976-78,1981,1986,1991
09S.08E.35.141	AVMB	-26.65	1-30-91	+10.43	-26.65	1991	-41.90	1976	S	1976-78,1981,1984,1986,1991

Table 12.--Well location and water-level data for selected wells in the Tularosa Basin monitoring area, Otero, Lincoln, and Socorro Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes High (feet)	Year	Low (feet)	Year	Use of water	Years of record
09S.08E.36.233	--	-92.30	1-30-91	+13.66	-92.30	1991	-105.96	1986	H	1984,1986,1991
09S.08E.36.422	--	-71.28	1-30-91	-1.95	-69.33	1986	-71.28	1991	H	1984,1986,1991
09S.09E.12.244	--	-131.71	2-22-91	--	-131.71	1991	-131.71	1991	H	1991
09S.10E.03.143	AVMB	-20.17	1-29-91	+2.56	-20.17	1991	-22.73	1986	S	1976-78,1986,1991
09S.10E.06.221	AVMB	-36.50	2-22-91	-0.20	-32.90	1978	-38.00	1981	S	1976-78,1981,1984,1986,1991
10S.09E.24.413	AVMB	-18.58	2-26-91	+6.64	-18.58	1991	-25.22	1986	S	1976-78,1986,1991
10S.09E.30.411	AVMB	-68.19	2-22-91	+1.22	-67.68	1981	-69.41	1986	S	1976-78,1981,1986,1991
10S.10E.32.242	AVMB	-26.80	2-26-91	-0.69	-24.83	1978	-26.80	1991	S	1976-78,1986,1991
11S.09E.22.400	AVMB	-136.80	2-26-91	+2.56	-136.80	1991	-140.26	1984	I	1976,1981,1984,1986,1991
11S.09E.25.412	--	-20.26	2-26-91	+0.07	-20.26	1991	-21.40	1983	H	1983,1986,1991
11S.09E.34.400	AVMB	-292.40	2-26-91	+5.90	-292.40	1991	-299.70	1976	U	1976,1981,1984,1986,1991
11S.10E.05.100	AVMB	-20.45	2-26-91	+3.08	-20.45	1991	-23.66	1981	U	1976,1981,1984,1986,1991
11S.10E.06.431	AVMB	-28.34	2-26-91	-0.23	-26.69	1975	-44.84	1957	U	1957-76,1981,1984,1986-87,1991
11S.10E.07.234	AVMB	-26.67	2-26-91	--	-25.44	1970	-30.74	1971	U	1966-67,1969-71,1991
11S.10E.08.330	AVMB	-43.46	2-26-91	+1.37	-29.02	1981	-49.30	1981	U	1976,1981,1984,1986,1991
11S.10E.29.100	AVMB	-8.20	2-26-91	+1.30	-8.20	1991	-9.50	1986	I	1976,1984,1986,1991
12S.09E.03.444	--	-293.25	2-09-91	-11.18	-282.07	1986	-293.25	1991	I	1981,1984,1986,1991
12S.09E.03.444B	--	-290.36	2-06-91	--	-290.36	1991	-290.36	1991	I	1991
12S.09E.10.244	--	-245.19	2-06-91	--	-245.19	1991	-245.19	1991	I	1991
12S.09E.11.241	--	-293.00	2-05-91	+3.80	-293.00	1991	-305.22	1984	I	1981,1984,1986,1991
12S.09E.14.244	--	-288.39	2-05-91	-2.99	-285.40	1986	-292.05	1984	I	1981,1984,1986,1991
12S.09E.14.324	--	-277.92	2-06-91	-31.22	-246.70	1986	-277.92	1991	I	1981,1984,1986,1991
14S.09E.15.344	AVMB	-64.68	2-05-91	+22.44	-64.68	1991	-143.87	1983	I	1956-57,1976-78,1981,1983,1986,1991
14S.09E.23.112	AVMB	-91.80	2-05-91	+37.60	-88.08	1955	-147.70	1984	I	1955,1960,1967,1976-78,1981,1984, 1986,1991
14S.09E.25.342	AVMB	-106.90	2-05-91	+21.85	-106.90	1991	-142.39	1981	I	1956,1976-77,1981,1984,1986,1991
14S.09E.26.222	AVMB	-145.97	2-05-91	+22.78	-134.69	1978	-171.21	1984	I	1976-78,1981,1984,1986,1991
14S.09E.26.422	AVMB	-115.60	2-05-91	+25.97	-115.60	1991	-150.97	1984	I	1956,1976-77,1981,1984,1986,1991
14S.09E.27.424	AVMB	-77.99	2-05-91	+23.81	-77.99	1991	-101.80	1986	I	1963,1976-77,1986,1991
14S.09E.34.422	--	-74.75	2-05-91	--	-74.75	1991	-74.75	1991	I	1991
14S.09E.35.342	AVMB	-93.56	2-05-91	+21.74	-77.55	1977	-123.78	1981	I	1956,1976-77,1981,1984,1986,1991
15S.10E.09.242	--	-217.66	3-06-91	+1.05	-217.66	1991	-230.42	1984	I	1984,1986,1991
15S.10E.16.133	--	-120.60	3-06-91	+15.90	-120.60	1991	-149.23	1984	H	1984,1986,1991
15S.10E.21.422	--	-180.48	2-28-91	+2.62	-180.48	1991	-195.21	1984	H	1984,1986,1991
15S.10E.32.314	AVMB	-116.39	3-07-91	+6.79	-116.39	1991	-123.98	1976	U	1976-78,1981,1984,1986,1991
16S.09E.03.3412	AVMB	-109.27	2-07-91	+1.33	-109.14	1981	-114.89	1978	I	1976-78,1981,1984,1986,1991
16S.09E.03.442	AVMB	-115.34	2-07-91	+8.83	-71.68	1986	-132.97	1977	I	1976-77,1981,1984,1986,1991
16S.09E.13.223	AVMB	-107.79	2-07-91	+12.65	-107.79	1991	-121.04	1983	I	1976-77,1981,1983-84,1986,1991
16S.09E.25.431	AVMB	-36.89	2-07-91	+6.41	-36.89	1991	-61.50	1981	I	1976-77,1981,1983-84,1986,1991
16S.09E.25.442	AVMB	-45.64	2-07-91	+7.88	-45.64	1991	-71.66	1981	I	1976-77,1981,1984,1986,1991

Table 12.--Well location and water-level data for selected wells in the Tularosa Basin monitoring area, Otero, Lincoln, and Socorro Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
16S.09E.35.1311	AVMB	-10.23	2-07-91	+2.76	-9.79	1977	-15.81	1984	I	1976-77,1981,1983-84,1986,1991
16S.09E.35.1322	AVMB	-7.38	2-07-91	+8.72	-7.38	1991	-16.10	1986	I	1976-77,1981,1984,1986,1991
16S.09E.35.1332	AVMB	-8.12	2-07-91	+2.15	-7.30	1977	-15.38	1984	I	1976-77,1981,1984,1986,1991
17S.09E.24.232	AVMB	-70.80	2-27-91	+5.58	-70.80	1991	-82.30	1983	I	1976-77,1981,1983-84,1986,1991
17S.09E.24.313	AVMB	-68.63	2-27-91	-6.95	-61.68	1986	-77.32	1984	I	1976-77,1981-82,1984,1986,1991
17S.09E.25.343	--	-71.08	1-15-91	+13.10	-71.08	1991	-84.18	1986	U	1984,1986,1988-89,1991
17S.09E.26.313	AVMB	-50.49	2-27-91	-1.74	-44.36	1976	-50.81	1984	I	1976-77,1981,1984,1986,1991
17S.09E.26.434	AVMB	-59.90	2-27-91	-0.40	-57.46	1976	-60.99	1984	U	1976,1981,1983-84,1986,1991
17S.10E.06.122	AVMB	-180.30	2-21-91	-7.93	-1.69	1954	-181.62	1983	I	1954,1982-84,1986,1991
17S.10E.19.142	AVMB	-82.55	2-21-91	--	-82.55	1991	-82.55	1991		1950,1991
17S.10E.31.411	--	-148.44	2-20-91	--	-148.44	1991	-148.44	1991	--	1991
17S.10E.31.444	--	-195.64	2-20-91	--	-195.64	1991	-238.48	1987	H	1981,1987,1991
18S.09E.11.211	AVMB	-54.26	2-27-91	-3.53	-45.16	1977	-54.58	1984	I	1976-77,1981,1984,1986,1991
18S.09E.12.411	AVMB	-74.84	2-20-91	-2.51	-66.33	1977	-74.84	1991	I	1976-77,1986,1991
18S.09E.12.4111	AVMB	-78.72	2-20-91	-5.62	-66.75	1977	-78.72	1991	I	1976-77,1986,1991
18S.09E.12.422	AVMB	-91.52	2-20-91	-0.67	-79.02	1976	-93.55	1981	U	1976,1981,1984,1986,1991
18S.09E.23.232	--	-46.34	1-16-91	-3.72	-39.34	1981	-46.34	1991	U	1981,1983-84,1986,1991
18S.09E.23.241	AVMB	-46.67	1-16-91	-3.85	-36.90	1976	-46.67	1991	I	1976,1981,1984,1986,1991
18S.09E.23.414	AVMB	-40.37	1-16-91	-3.87	-33.85	1977	-41.30	1983	H	1976-77,1981,1983-84,1986,1991
18S.09E.24.213	AVMB	-54.88	2-20-91	-6.25	-40.93	1977	-54.88	1991	U	1976-77,1981,1984,1986,1991
18S.09E.26.214	AVMB	-35.84	1-16-91	-1.44	-34.15	1976	-36.59	1983	U	1976,1983-84,1986,1991
18S.09E.36.2222	AVMB	-60.87	1-16-91	-4.17	-55.35	1976	-60.87	1991	U	1976-77,1983-84,1986,1991
18S.10E.07.112	AVMB	-109.60	2-21-91	+4.55	-105.50	1976	-114.15	1986	U	1976,1986,1991
18S.10E.07.121	--	-155.03	2-20-91	--	-155.03	1991	-155.03	1991	U	1991
18S.10E.18.224	AVMB	-101.72	2-21-91	--	-74.15	1954	-101.72	1991	I	1954-55,1968,1976,1983,1991
18S.10E.18.244	--	-96.47	2-20-91	-5.32	-91.15	1986	-96.47	1991	U	1984,1986,1991
18S.10E.29.4333	AVMB	-77.93	1-16-91	-3.38	-72.62	1976	-77.93	1991	U	1976,1983-84,1986,1991
18S.10E.32.242	--	-81.32	1-16-91	--	-81.32	1991	-81.32	1991	U	1991
18S.10E.32.3213	--	-80.13	1-16-91	--	-80.13	1991	-80.13	1991	U	1991
18S.10E.32.422	AVMB	-82.73	1-16-91	-3.43	-78.56	1976	-82.73	1991	U	1976,1983,1986,1991
18S.10E.32.444	--	-85.39	1-16-91	-1.63	-83.76	1986	-85.39	1991	U	1984,1986-87,1991

San Agustin Plains Monitoring Area

The San Agustin Plains monitoring area is located in Catron and Socorro Counties, west-central New Mexico. Water-level data were not collected in 1986, thus computation of water-level changes was not possible. Depth-to-water data were collected in 1991 and are shown in the map and table.

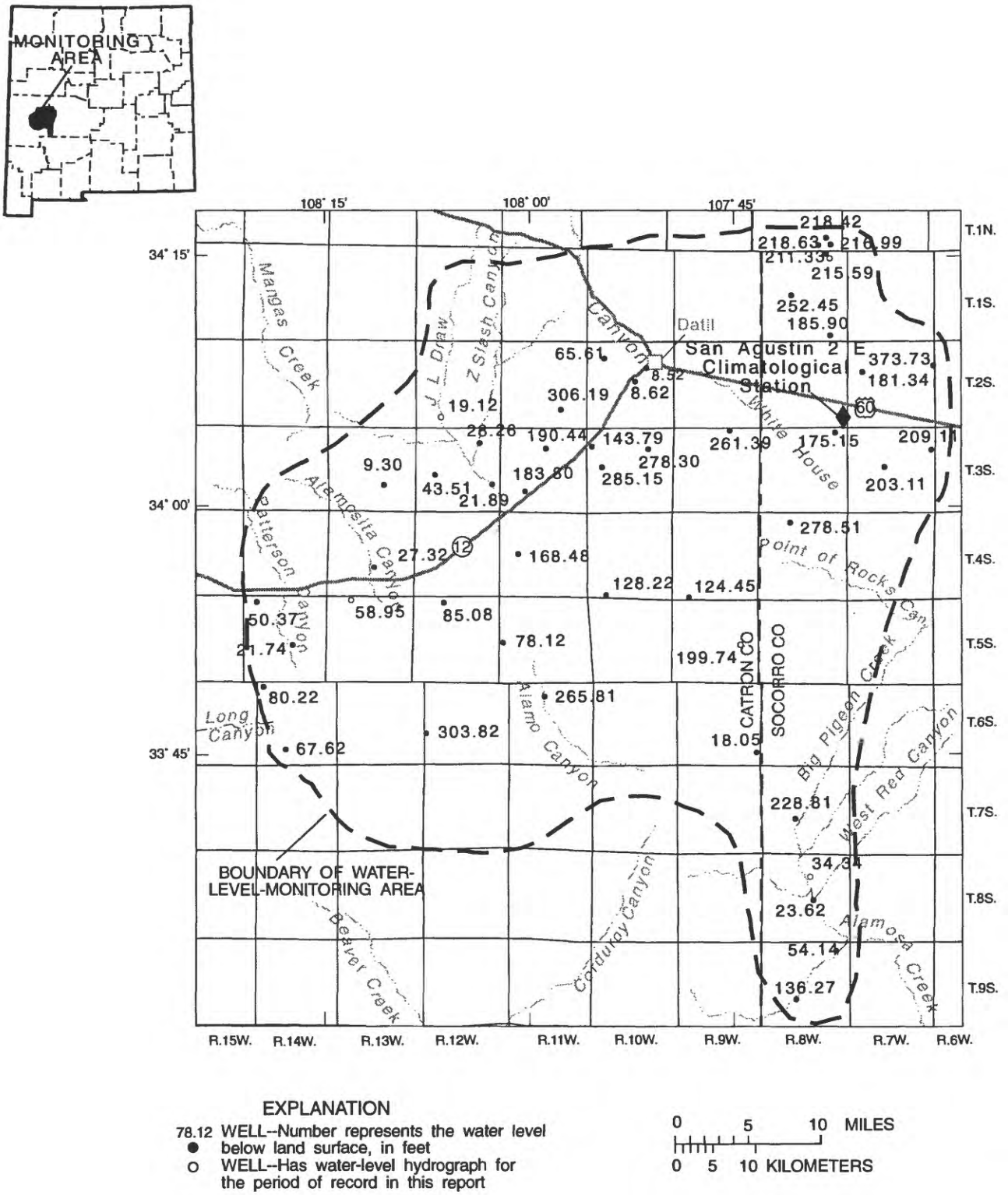


Figure 27.--Water levels for wells in the San Agustin Plains monitoring area, 1991.

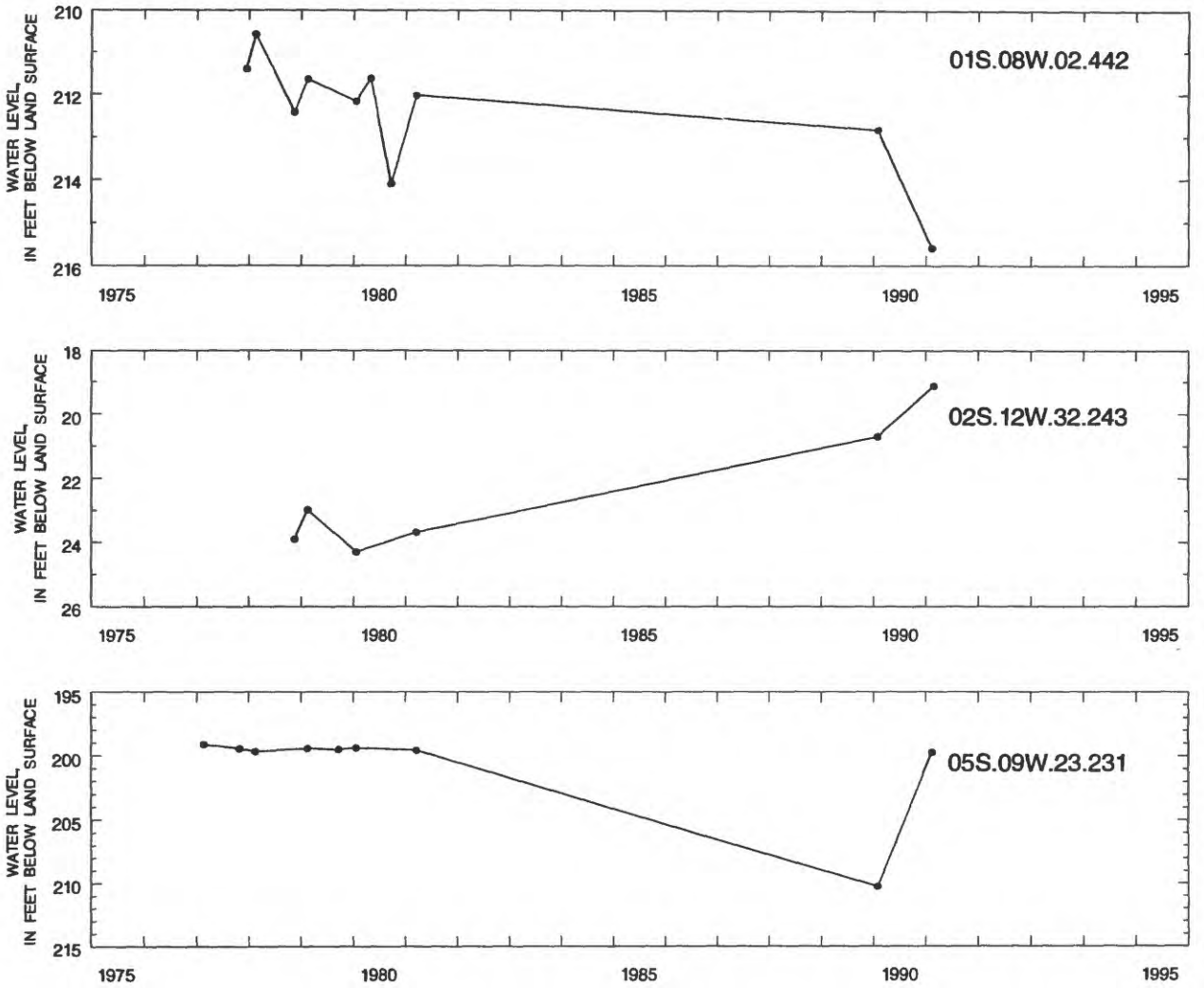


Figure 28.--Water-level data for selected wells in the San Agustin Plains monitoring area and annual precipitation at the San Agustin 2 E Climatological Station. See figure 27 for location of wells and station.

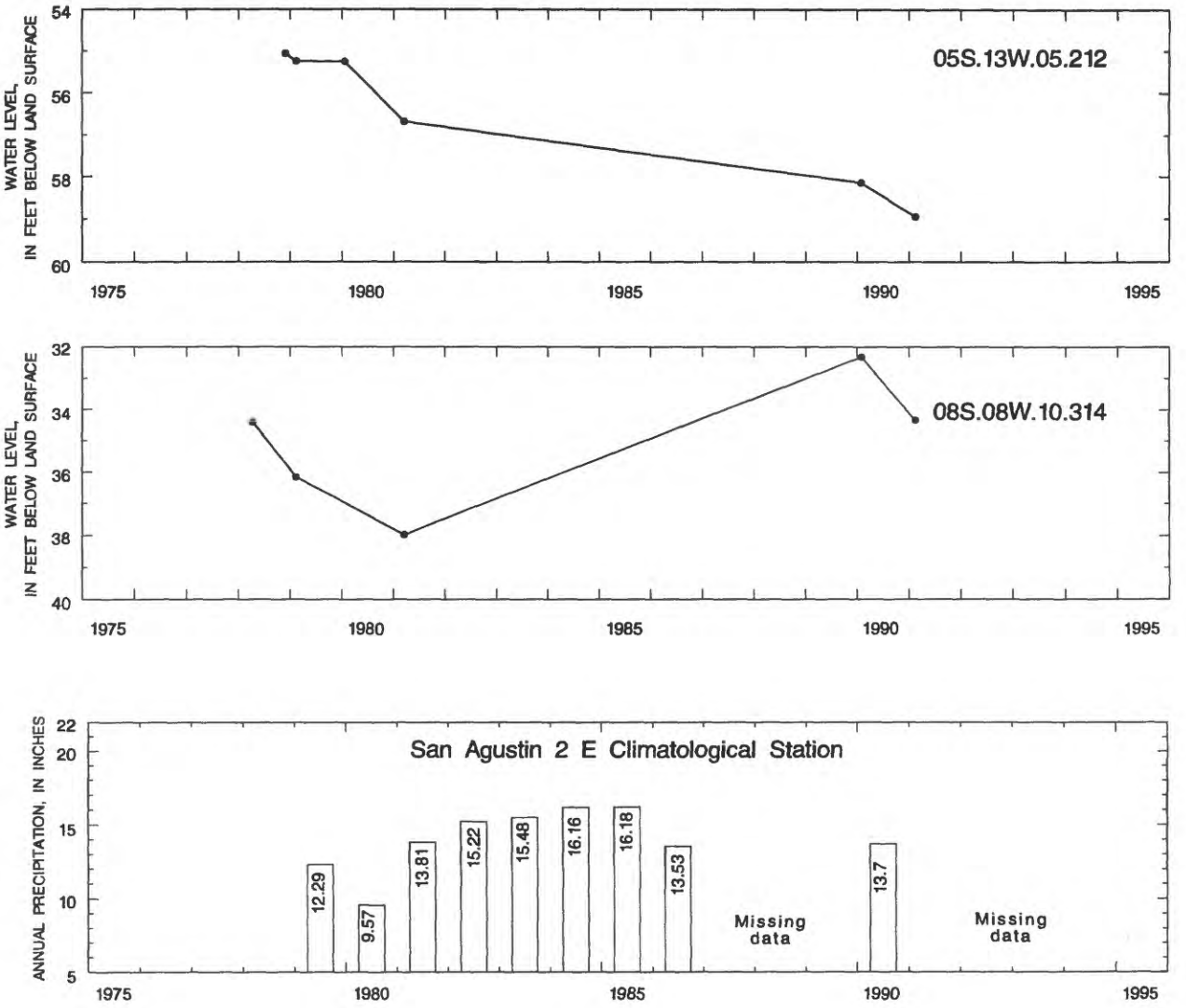


Figure 28.--Water-level data for selected wells in the San Agustin Plains monitoring area and annual precipitation at the San Agustin 2 E Climatological Station. See figure 27 for location of wells and station--Concluded.

Table 13.--Well location and water-level data for selected wells in the San Agustin Plains monitoring area, Catron and Socorro Counties, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; DTIL, Datil Formation. Use of water: H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
01N.08W.35.242	--	-218.42	2-11-91	--	-218.42	1991	-239.68	1980	I	1977,1979-81,1990-91
01N.08W.35.342	--	-218.63	2-11-91	--	-218.63	1991	-240.85	1980	I	1977,1979-81,1990-91
01N.08W.36.341	--	-216.99	2-11-91	--	-216.99	1991	-220.14	1980	I	1977,1979-81,1990-91
01S.08W.02.241	--	-211.33	2-11-91	--	-205.68	1977	-211.33	1991	I	1977-81,1990-91
01S.08W.02.442	--	-215.59	2-11-91	--	-210.58	1978	-215.59	1991	I	1977-81,1990-91
01S.08W.21.111	--	-252.45	2-11-91	--	-252.45	1991	-283.60	1977	--	1977,1991
01S.08W.35.441	--	-185.90	2-11-91	--	-185.02	1977	-185.90	1991	S	1977,1991
02S.07W.12.444	--	-373.73	2-12-91	--	-373.73	1991	-373.80	1979	S	1979,1991
02S.07W.17.133	--	-181.34	2-12-91	--	-180.25	1977	-181.34	1991	S	1977,1991
02S.10W.08.311	AVMB	-65.61	2-11-91	--	-63.92	1980	-65.61	1991	--	1980,1991
02S.10W.15.224	AVMB	-8.52	2-13-91	--	-8.52	1991	-17.67	1980	S	1980,1991
02S.10W.22.114	--	-8.62	2-13-91	--	-8.62	1991	-8.62	1991	S	1991
02S.11W.34.222	DTIL	-306.19	2-25-91	--	-306.19	1991	-348.40	1980	S	1980,1991
02S.12W.32.243	AVMB	-19.12	2-25-91	--	-19.12	1991	-24.30	1980	I	1978-81,1990-91
03S.07W.12.423	--	-209.11	2-12-91	--	-208.27	1980	-209.11	1991	H	1980,1991
03S.07W.16.433	--	-203.11	2-12-91	--	-203.11	1991	-322.21	1980	S	1980,1991
03S.08W.01.310	--	-175.15	2-21-91	--	-174.30	1980	-175.15	1991	--	1980,1991
03S.09W.03.221	AVMB	-261.39	2-14-91	--	-261.34	1980	-261.39	1991	S	1980,1991
03S.10W.07.312	AVMB	-143.79	2-11-91	--	-143.79	1991	-146.10	1980	--	1980,1991
03S.10W.11.314	DTIL	-278.30	2-11-91	--	-278.30	1991	-284.20	1980	S	1980,1991
03S.10W.19.222	AVMB	-285.15	2-14-91	--	-284.60	1979	-285.15	1991	S	1979,1991
03S.11W.09.424	AVMB	-190.44	2-25-91	--	-190.44	1991	-190.67	1980	S	1980,1991
03S.11W.29.324	AVMB	-183.80	2-25-91	--	-180.50	1980	-183.80	1991	--	1980,1991
03S.12W.11.231	AVMB	-28.26	2-25-91	--	-28.26	1991	-29.38	1980	--	1980,1991
03S.12W.20.144	AVMB	-43.51	2-25-91	--	-43.17	1979	-43.51	1991	U	1979,1991
03S.12W.25.213C	AVMB	-21.89	2-25-91	--	-21.74	1990	-21.89	1991	H	1990-91
03S.13W.27.224	AVMB	-9.30	2-12-91	--	-9.30	1991	-40.70	1979	--	1979,1991
04S.08W.04.331	--	-278.51	2-12-91	--	-278.51	1991	-278.64	1977	S	1977,1991
04S.09W.32.333	AVMB	-124.45	2-13-91	--	-122.58	1977	-124.45	1991	--	1977,1991
04S.10W.32.333	--	-128.22	2-26-91	--	-127.97	1977	-128.22	1991	--	1977,1991
04S.11W.17.33333	AVMB	-168.48	2-26-91	--	-168.20	1952	-173.34	1977	S	1952,1977,1991
04S.13W.27.11222	AVMB	-27.32	2-14-91	--	-22.84	1977	-27.32	1991	--	1977,1991
05S.09W.23.231	--	-199.74	2-13-91	--	-199.10	1977	-210.26	1990	I	1977-81,1990-91
05S.11W.19.113	AVMB	-78.12	2-15-91	--	-78.12	1991	-79.73	1977	S	1977,1991
05S.12W.04.13423	AVMB	-85.08	2-15-91	--	-84.82	1977	-85.08	1991	S	1977,1990-91
05S.13W.05.212	--	-58.95	2-15-91	--	-55.06	1978	-58.95	1991	U	1978-81,1990-91
05S.14W.05.133	AVMB	-50.37	2-14-91	--	-50.37	1991	-52.10	1977	--	1977,1991
05S.14W.22.233	--	-21.74	2-14-91	--	-21.22	1977	-21.74	1991	U	1977,1991
06S.09W.25.44444	AVMB	-18.05	2-13-91	--	-18.05	1991	-22.01	1978	S	1978,1991
06S.11W.09.124	DTIL	-265.81	3-26-91	--	-265.81	1991	-277.48	1977	S	1977,1991

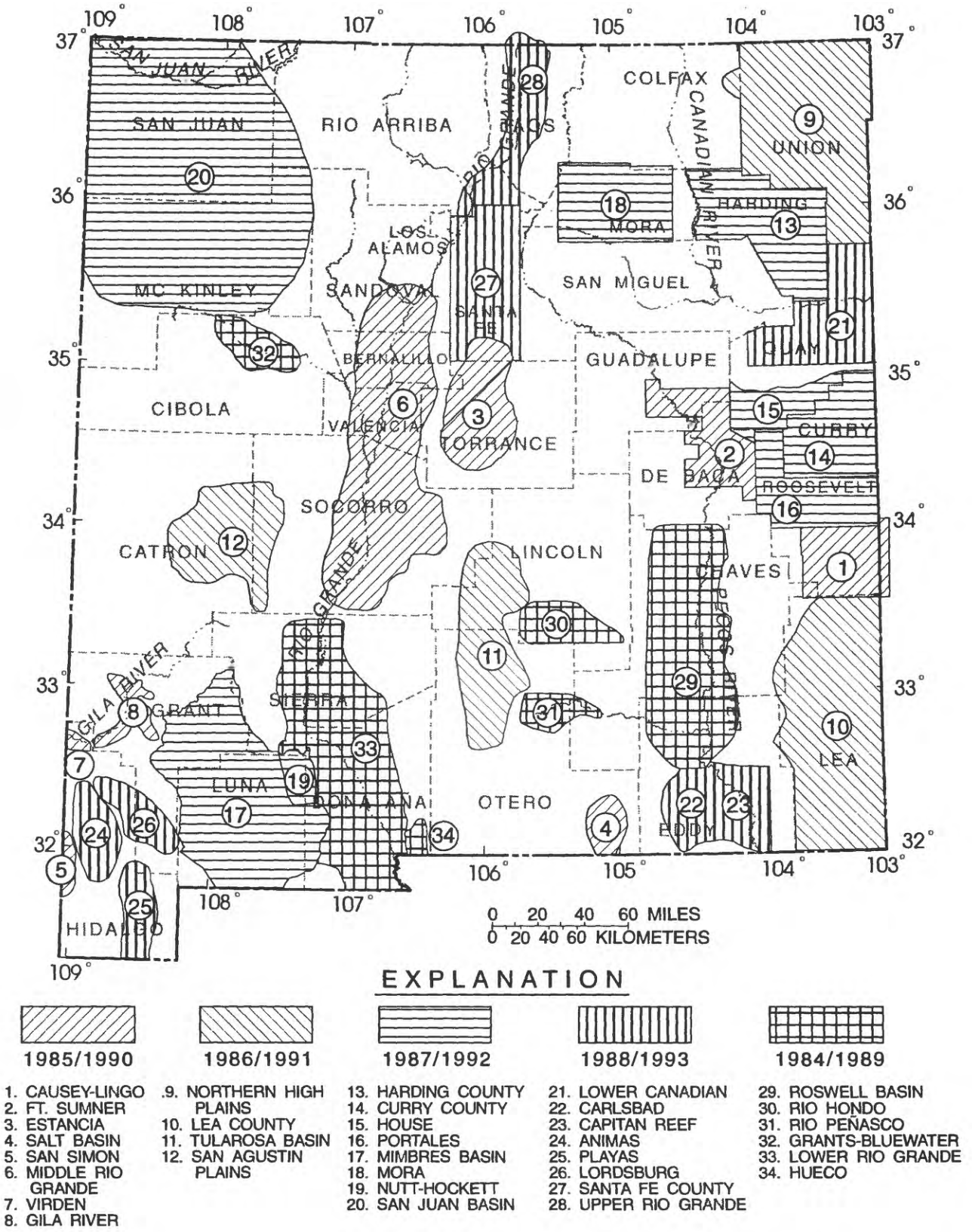


Figure 1.--Location of water-level-monitoring areas and years measured, 1984-93.

Table 13.--Well location and water-level data for selected wells in the San Agustin Plains monitoring area, Catron and Socorro Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
06S.12W.19.33233	DTIL	-303.82	2-15-91	--	-303.33	1977	-303.82	1991	S	1977,1991
06S.14W.06.231	--	-80.22	2-14-91	--	-79.96	1977	-80.22	1991	S	1977,1991
06S.14W.28.332B	AVMB	-67.62	2-14-91	--	-66.00	1952	-67.62	1991	S	1952,1977,1991
07S.08W.21.314	--	-228.81	2-13-91	--	-228.78	1990	-231.10	1978	--	1978,1990-91
08S.08W.10.314	--	-34.34	2-13-91	--	-32.32	1990	-37.98	1981	I	1978-79,1981,1990-91
08S.08W.22.142	--	-23.62	2-13-91	--	-22.65	1978	-23.62	1991	U	1978,1991
09S.08W.01.33131	--	-54.14	2-13-91	--	-48.70	1978	-54.14	1991	S	1978,1991
09S.08W.28.121	--	-136.27	2-13-91	--	-132.62	1979	-136.27	1991	S	1979,1991

Harding County Monitoring Area

The Harding County monitoring area is in northeastern New Mexico. Water-level measurements in all parts of the monitoring area indicate declines from less than 1 foot to more than 4 feet and rises from less than 1 foot to more than 28 feet. A narrow band of declining water levels starts in T. 23 N., Rs. 25 and 26 E., progressing south and east through Tps. 20 and 21 N. and Rs. 26 through 33 E. South and east of Gallegos is an area of mostly ground-water rises.

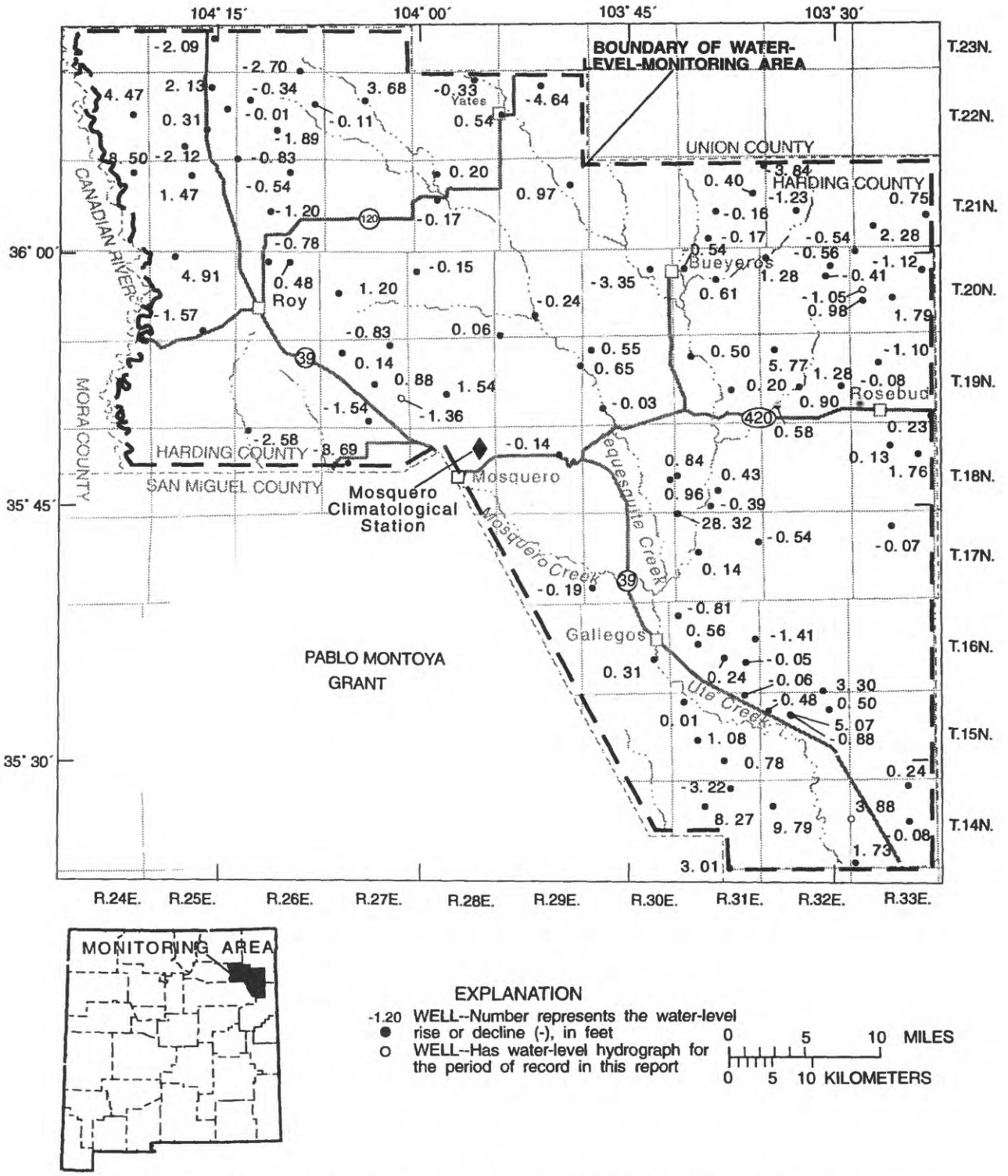


Figure 29.--Water-level changes for wells in the Harding County monitoring area, 1987-92.

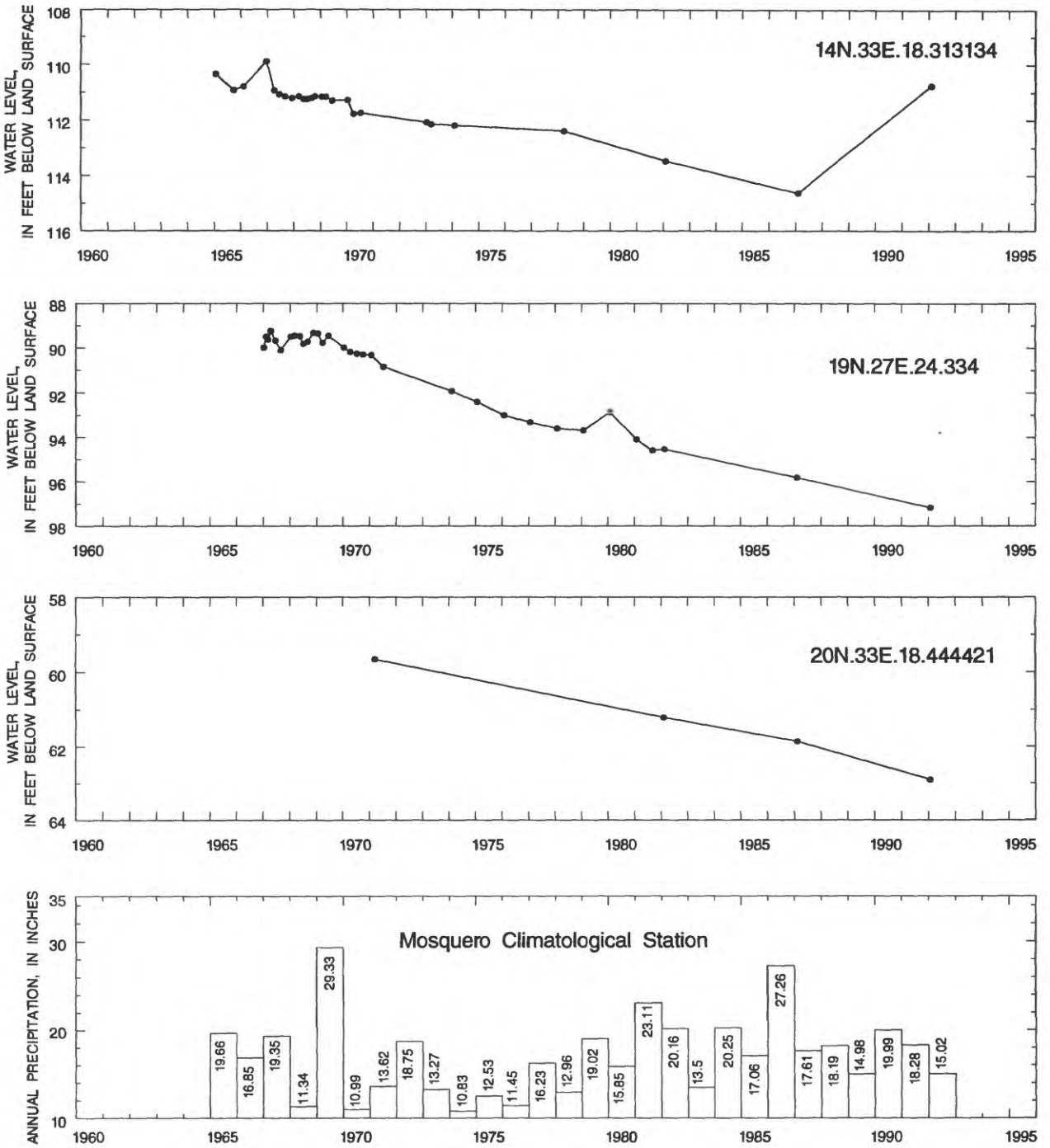


Figure 30.--Water-level data for selected wells in the Harding County monitoring area and annual precipitation at the Mosquero Climatological Station. See figure 29 for location of wells and station.

Table 14.--Well location and water-level data for selected wells in the Harding County monitoring area, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; CHNL, Chinle Formation; DKOT, Dakota Sandstone or Formation; ENRD, Entrada Sandstone; GRRS, Graneros Shale; MRSN, Morrison Formation; OGLL, Ogallala Formation; PRGR, Purgatoire Formation; TCVS, Tecovas Formation of Dockum Group. Winter water level, site status: P, pumping; R, recently pumped; S, nearby pumping. Use of water: H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
14N.31E.03.422111	CHNL	-100.06	2-05-92	-3.22	-96.84	1987	-104.73	1982	S	1982,1987,1992
14N.31E.09.313423	CHNL	-170.71	2-05-92	+8.27	-170.71	1992	-178.98	1987	I	1970,1982,1987,1992
14N.31E.23.2213	CHNL	-39.99	2-05-92	--	-39.82	1982	-39.99	1992	S	1982,1987,1992
14N.31E.34.4434	--	-17.57	2-05-92	+3.01	-17.57	1992	-21.46	1982	U	1982,1987,1992
14N.32E.07.432232	CHNL	-185.88	2-05-92	+9.79	-185.88	1992	-196.02	1970	S	1970,1982,1987,1992
14N.32E.33.311323	TCVS	-240.51	2-05-92	--	-240.51	1992	-252.55	1967	I	1967-70,1982,1992
14N.33E.03.244231	CHNL	-62.26	1-27-92	+0.24	-60.15	1970	-62.50	1987	I	1970,1982,1987,1992
14N.33E.15.444214	AVMB	-100.12	1-27-92	-0.08	-96.85	1970	-100.12	1992	I	1970,1978,1982,1987,1992
14N.33E.18.313134	AVMB	-110.74	2-04-92	+3.88	-109.90	1966	-114.62	1987	I	1965-70,1973-74,1978,1982,1987,1992
14N.33E.30.124244	AVMB	-90.11	1-27-92	--	-86.03	1964	-95.22	1978	U	1964-67,1973,1978,1989,1991-92
14N.33E.31.323112	AVMB	-76.05	2-04-92	+1.73	-67.52	1961	-77.78	1987	I	1961,1963-67,1973,1978,1982-83, 1987,1992
14N.33E.33.114444	AVMB	-106.15	2-04-92	--	-103.21	1973	-108.38	1983	I	1973,1978,1982-83,1992
15N.31E.02.224114	AVMB	-43.07	1-29-92	-0.06	-42.75	1982	-46.92	1970	U	1970,1982,1987,1992
15N.31E.06.421341	CHNL	-49.01	1-30-92	+0.01	-49.01	1992	-49.50	1982	U	1982,1987,1992
15N.31E.20.222	--	-26.32	1-30-92	+1.08	-26.32	1992	-27.40	1987	U	1982,1987,1992
15N.31E.27.322424	CHNL	-5.73	2-05-92	+0.78	-5.73	1992	-6.51	1987	S	1982,1987,1992
15N.32E.07.213331	AVMB	-32.28	1-29-92	-0.48	-28.59	1970	-32.28	1992	I	1970,1982,1987,1992
15N.32E.09.311A	--	-12.63	2-05-92	+5.07	-12.63	1992	-17.70	1987	I	1982,1987,1992
15N.32E.09.31114	CHNL	-16.32	2-04-92	-0.88	-13.72	1970	-16.32	1992	U	1970,1982,1987,1992
15N.32E.11.213422	CHNL	-87.40	1-28-92	+0.50	-85.55	1970	-87.90	1987	I	1970,1982,1987,1992
15N.33E.05.442412	OGLL	-124.89	1-28-92	--	-124.64	1982	-126.35	1970	I	1970,1982,1987,1992
16N.29E.02.324	--	-7.08	2-06-92	--	-7.08	1992	-8.05	1982	I	1982,1992
16N.29E.10.413A	--	-13.31	2-06-92	--	-13.31	1992	-13.31	1992	I	1992
16N.29E.13.222244	DKOT	-63.05	2-06-92	--	-63.05	1992	-65.38	1970	U	1970,1982,1992
16N.30E.23.43222	AVMB	-35.09	1-30-92	+0.31	-33.90	1970	-35.68	1979	I	1970,1979,1982,1987,1992
16N.31E.06.34412	CHNL	-38.08	1-29-92	-0.81	-33.59	1970	-38.08	1992	S	1970,1982,1987,1992
16N.31E.13.234334	CHNL	-75.18	1-29-92	-1.41	-67.34	1970	-75.18	1992	U	1970,1982,1987,1992
16N.31E.17.441	--	-54.64	1-29-92	+0.56	-54.64	1992	-66.20	1982	U	1982,1987,1992
16N.31E.22.413323	--	-51.44	1-29-92	+0.24	-48.97	1970	-51.68	1987	I	1970,1982,1987,1992
16N.31E.26.22222	--	-45.43	1-30-92	-0.05	-43.81	1970	-45.43	1992	I	1970,1982,1987,1992
16N.32E.32.3421	--	-52.26	2-04-92	--	-50.90	1982	-52.34	1970	I	1970,1982,1987,1992
16N.32E.35.334	OGLL	-4.17	1-28-92	+3.30	-4.17	1992	-10.30	1982	I	1967-70,1973,1982,1987,1992
16N.33E.29.113322	CHNL	-116.94R	1-28-92	--	-116.63	1987	-124.68	1970	I	1970,1982,1987,1992
17N.29E.15.322	--	-21.89	1-29-92	--	-21.75	1982	-21.89	1992	I	1982,1987,1992
17N.29E.18.421	--	-112.27	1-29-92	--	-112.27	1992	-120.20	1982	I	1982,1987,1992
17N.30E.31.122213	CHNL	-31.27	1-29-92	-0.19	-27.56	1970	-31.77	1982	S	1970,1982,1987,1992
17N.31E.06.121	--	-60.27	2-04-92	+28.32	-60.27	1992	-114.35	1982	I	1982,1987,1992
17N.31E.13.212	--	-42.44	2-04-92	-0.54	-40.45	1970	-42.44	1992	I	1970,1982,1987,1992
17N.31E.17.414114	CHNL	-11.73	2-04-92	+0.14	-11.73	1992	-12.95	1982	U	1970,1982,1987,1992

Table 14.--Well location and water-level data for selected wells in the Harding County monitoring area, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
17N.31E.32.443144A	--	-41.83	1-29-92	--	-41.83	1992	-41.83	1992	I	1992
17N.33E.04.443323	OGLL	-81.22	2-05-92	-0.07	-79.62	1970	-81.22	1992	I	1970,1982,1987,1992
17N.33E.17.442112	OGLL	-127.96	2-05-92	--	-123.76	1967	-129.30	1986	S	1967-70,1982,1986,1992
18N.26E.06.22324	CHNL	-20.57	1-28-92	-2.58	-17.99	1987	-22.02	1982	I	1970,1982,1987,1992
18N.27E.17.2332	DKOT	-8.89	1-28-92	-3.69	-5.20	1987	-15.88	1970	I	1970,1982,1987,1992
18N.28E.23.222322	DKOT	-38.60	1-29-92	--	-34.00	1992	-38.86	1982	U	1970,1982,1988-92
18N.29E.11.3334	OGLL	-72.80	1-29-92	-0.14	-72.66	1987	-74.16	1980	I	1970,1980,1987,1992
18N.30E.02.111A	--	-47.88	2-04-92	--	-47.88	1992	-47.88	1992	I	1992
18N.30E.12.134	--	-51.23	2-04-92	--	-51.23	1992	-51.23	1992	I	1992
18N.30E.24.432	--	-41.41	2-04-92	+0.96	-41.41	1992	-42.37	1987	I	1982,1987,1992
18N.31E.09.2424	CHNL	-13.99P	2-04-92	--	-11.48	1987	-15.21	1982	I	1970,1982,1987,1992
18N.31E.14.422	CHNL	-51.43P	2-04-92	--	-45.14	1982	-47.30	1987	I	1982,1987,1992
18N.31E.17.314221	CHNL	-25.69	2-04-92	--	-25.69	1992	-72.80	1982	I	1982,1992
18N.31E.19.134	--	-33.83	2-04-92	+0.84	-33.83	1992	-34.67	1987	U	1982,1987,1992
18N.31E.27.133	--	-26.25	2-04-92	+0.43	-26.25	1992	-26.81	1982	U	1982,1987,1992
18N.31E.33.322242	CHNL	-9.65	2-04-92	-0.39	-9.26	1987	-9.73	1982	I	1970,1982,1987,1992
18N.32E.05.242441	--	-22.91P	2-04-92	--	-22.20	1987	-24.29	1982	I	1970,1982,1987,1992
18N.32E.21.132A	--	-19.58P	2-04-92	--	-12.91	1970	-18.64	1987	I	1970,1982,1987,1992
18N.32E.28.441	--	-40.60R	2-04-92	--	-38.85	1968	-43.82	1982	I	1967-69,1982,1987,1992
18N.32E.31.422414	--	-52.22R	2-04-92	--	-50.37	1967	-53.80	1987	S	1967,1970,1982,1987,1992
18N.33E.09.4211A	PRGR	-101.69	2-04-92	+0.13	-80.93	1969	-103.69	1976	U	1969-72,1976-80,1982,1987,1992
18N.33E.14.214112	MRSN	-88.17	2-04-92	+1.76	-86.24	1971	-103.24	1979	I	1971-80,1982,1987,1992
18N.33E.21.332213	OGLL	-106.83	2-04-92	--	-103.90	1970	-106.83	1992	I	1970,1982,1987,1992
19N.27E.02.1444	OGLL	-72.05	1-28-92	-0.83	-71.22	1987	-72.75	1970	U	1970,1982,1987,1992
19N.27E.05.334	OGLL	-50.54	1-28-92	+0.14	-48.34	1983	-52.84	1989	U	1967-70,1973-92
19N.27E.22.122412	OGLL	-131.27	1-28-92	+0.88	-131.26	1970	-132.15	1987	U	1970,1982,1987,1992
19N.27E.24.334	OGLL	-97.17	1-28-92	-1.36	-89.24	1967	-97.17	1992	U	1967-71,1974-82,1987,1992
19N.27E.34.311	--	-102.33	1-28-92	-1.54	-100.79	1987	-102.33	1992	I	1982,1987,1992
19N.28E.21.342322	OGLL	-46.85	1-29-92	+1.54	-46.85	1992	-89.39	1970	U	1970,1982,1987,1992
19N.29E.13.221131	OGLL	-21.65	1-30-92	+0.65	-21.65	1992	-22.30	1987	I	1982,1987,1992
19N.29E.26.441433	CHNL	-37.05	1-30-92	--	-33.80	1982	-37.05	1992	I	1982,1987,1992
19N.30E.07.122	--	-22.45	1-30-92	+0.55	-22.45	1992	-23.15	1982	I	1982,1987,1992
19N.30E.27.233144	CHNL	-35.18	1-30-92	--	-30.87	1970	-35.18	1992	I	1970,1982,1992
19N.30E.29.343111	CHNL	-22.73	1-30-92	-0.03	-22.70	1987	-22.79	1970	I	1970,1982,1987,1992
19N.31E.08.143	--	-17.70	1-30-92	+0.50	-17.70	1992	-18.20	1987	I	1982,1987,1992
19N.31E.23.331	--	-5.80	1-30-92	+0.20	-5.80	1992	-6.98	1982	I	1982,1987,1992
19N.32E.07.222234	--	-70.05	1-30-92	+5.77	-69.72	1970	-76.45	1982	I	1970,1982,1987,1992
19N.32E.21.412133	--	-19.22	1-30-92	+0.90	-19.22	1992	-23.11	1970	I	1970,1982,1987,1992
19N.32E.24.144	--	-48.90	1-30-92	+1.28	-48.60	1982	-51.70	1970	I	1970,1982,1987,1992
19N.32E.26.344214	MRSN	-51.73	1-30-92	--	-51.73	1992	-54.60	1970	I	1970,1982,1992

Table 14.--Well location and water-level data for selected wells in the Harding County monitoring area, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
19N.32E.29.331223	AVMB	-17.08	1-30-92	+0.58	-17.08	1992	-17.98	1982	I	1970,1982,1987,1992
19N.33E.09.33313	ENRD	-36.82	2-04-92	-1.10	-31.97	1972	-36.82	1992	U	1969-74,1982,1987,1992
19N.33E.30.4144	MRSN	-87.55	2-04-92	-0.08	-87.47	1987	-92.00	1970	I	1970-80,1982,1987,1992
19N.33E.36.411142	OGLL	-124.34	2-04-92	+0.23	-124.34	1992	-127.35	1970	I	1970,1982,1987,1992
20N.25E.05.2324	DKOT	-5.07	1-28-92	+4.91	-5.07	1992	-12.69	1970	I	1970,1982,1987,1992
20N.25E.34.23321	DKOT	-7.26	1-28-92	-1.57	-5.69	1987	-36.55	1970	I	1970,1982,1987,1992
20N.26E.03.434113	OGLL	-56.09	1-29-92	+0.48	-56.09	1992	-57.08	1967	U	1967,1982,1987,1992
20N.26E.04.33233	OGLL	-55.42	1-29-92	-0.78	-54.64	1987	-55.52	1967	U	1967,1982,1987,1992
20N.27E.17.333	--	-268.14	1-28-92	+1.20	-193.12	1982	-269.34	1987	I	1982,1987,1992
20N.27E.21.131	DKOT	-281.10	1-28-92	--	-280.73	1973	-282.20	1977	U	1967-71,1973-80,1982,1992
20N.28E.03.31422	OGLL	-100.29	1-28-92	--	-100.29	1992	-100.80	1982	I	1982,1992
20N.28E.07.411241	OGLL	-94.39	1-28-92	-0.15	-94.09	1982	-94.44	1970	I	1970,1982,1987,1992
20N.28E.30.13213	OGLL	-6.19	1-28-92	--	-6.19	1992	-10.70	1982	U	1970,1982,1992
20N.29E.28.4114	AVMB	-19.77	1-30-92	-0.24	-19.53	1987	-22.90	1970	U	1970,1982,1987,1992
20N.29E.31.334441	DKOT	-17.14	1-29-92	+0.06	-14.84	1970	-17.20	1987	U	1970,1982,1987,1992
20N.30E.11.411111	CHNL	-35.91	1-30-92	-3.35	-32.56	1987	-35.91	1992	I	1970,1982,1987,1992
20N.31E.07.2434	AVMB	-25.74	1-30-92	-0.54	-23.21	1986	-27.45	1970	U	1970,1982,1986-92
20N.31E.15.131	--	-26.94	1-31-92	+0.61	-26.94	1992	-31.41	1982	I	1982,1987,1992
20N.31E.24.422	--	-61.33	1-31-92	--	-61.33	1982	-61.33	1982	I	1982,1992
20N.31E.25.433	--	-37.09S	1-31-92	--	-35.94	1982	-36.23	1987	I	1982,1987,1992
20N.32E.06.324322	AVMB	-7.78	1-30-92	+1.28	-7.30	1970	-10.10	1982	I	1970,1982,1987,1992
20N.32E.11.24123	--	-68.00	1-31-92	-0.56	-66.11	1970	-68.00	1992	U	1970,1982,1987,1992
20N.32E.14.211	MRSN	-64.09	1-31-92	-0.41	-62.05	1970	-64.09	1992	U	1970,1982,1987,1992
20N.32E.34.243	MRSN	-65.07	1-30-92	--	-65.07	1992	-72.50	1982	I	1982,1987,1992
20N.33E.04.4133	OGLL	-109.27R	1-30-92	--	-107.22	1982	-107.39	1987	I	1982,1987,1992
20N.33E.06.231	MRSN	-16.89	1-30-92	-0.54	-16.35	1987	-17.63	1970	I	1970,1982,1987,1992
20N.33E.12.313122	MRSN	-47.82	1-30-92	-1.12	-46.70	1987	-70.97	1970	I	1970,1982,1987,1992
20N.33E.18.444421	OGLL	-62.91	1-31-92	-1.05	-59.66	1971	-62.91	1992	U	1971,1982,1987,1992
20N.33E.19.42442	--	-291.22	1-31-92	+0.98	-291.22	1992	-319.18	1970	U	1970,1987,1992
20N.33E.22.13333	OGLL	-99.39	1-30-92	+1.79	-99.39	1992	-113.37	1970	I	1970,1982,1987,1992
20N.33E.33.2244	OGLL	-20.94P	1-30-92	--	-17.66	1982	-22.28	1970	S	1970,1982,1987,1992
20N.33E.35.43342	DKOT	-21.95R	1-30-92	--	-24.59	1982	-27.66	1970	I	1970,1982,1987,1992
21N.24E.02.44432	DKOT	-23.85	1-28-92	+8.50	-20.20	1982	-36.65	1967	I	1967,1982,1987,1992
21N.25E.09.224111	GRRS	-8.58	1-28-92	+1.47	-8.58	1992	-18.43	1967	S	1967,1982,1987,1992
21N.25E.14.141	--	-40.15	1-28-92	--	-40.15	1992	-46.77	1982	I	1982,1987,1992
21N.26E.03.4443	OGLL	-83.75	1-28-92	-0.54	-82.16	1969	-84.45	1981	U	1967-71,1973-92
21N.26E.21.312	OGLL	-21.65	1-28-92	-1.20	-20.45	1987	-21.78	1982	I	1967,1982,1987,1992
21N.27E.22.344	--	-274.44	1-29-92	--	-273.48	1982	-274.44	1992	H	1982,1987,1992
21N.28E.05.344	--	-23.03	1-29-92	+0.20	-23.03	1992	-23.53	1982	--	1982,1987,1992
21N.28E.17.413	OGLL	-29.89	1-29-92	-0.17	-29.72	1987	-30.30	1970	I	1970,1982,1987,1992

Table 14.--Well location and water-level data for selected wells in the Harding County monitoring area, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
21N.28E.22.21331	OGLL	-40.46	1-29-92	--	-40.13	1982	-40.46	1992	I	1970,1982,1992
21N.29E.11.43211	OGLL	-65.97	1-29-92	+0.97	-64.53	1970	-66.94	1987	I	1970,1982,1987,1992
21N.29E.33.423323	OGLL	-21.57	1-29-92	--	-21.34	1982	-21.57	1992	I	1970,1982,1992
21N.30E.05.421141	OGLL	-46.75R	1-29-92	--	-45.38	1987	-45.56	1982	S	1982,1987,1992
21N.30E.21.412232	AVMB	-30.50P	1-29-92	--	-29.28	1970	-29.85	1982	I	1970,1982,1987,1992
21N.31E.01.422	--	-64.64	1-30-92	-3.84	-60.80	1987	-64.64	1992	U	1982,1987,1992
21N.31E.13.133	--	-105.30	1-30-92	+0.40	-77.40	1982	-105.70	1987	I	1982,1987,1992
21N.31E.21.422	--	-64.68	1-30-92	-0.16	-64.52	1987	-65.83	1982	I	1982,1987,1992
21N.31E.33.112	--	-38.76	1-30-92	-0.17	-38.37	1982	-38.76	1992	I	1982,1987,1992
21N.32E.21.311	AVMB	-54.31	1-30-92	-1.23	-50.89	1974	-54.31	1992	U	1967-71,1973-80,1982,1987,1992
21N.33E.04.231	MRSN	-183.90	1-30-92	--	-183.90	1992	-185.43	1970	I	1970,1982,1987,1992
21N.33E.06.241	--	-93.79P	1-30-92	--	-90.90	1982	-90.90	1982	I	1982,1987,1992
21N.33E.20.11411	OGLL	-72.53	1-30-92	--	-72.53	1992	-82.10	1970	S	1970,1982,1987,1992
21N.33E.23.44322	OGLL	-69.90	1-30-92	+0.75	-69.82	1970	-70.65	1987	U	1970,1982,1987,1992
21N.33E.29.32131	--	-21.14	1-30-92	+2.28	-19.94	1982	-24.86	1970	U	1970,1982,1987,1992
21N.33E.35.434414	DKOT	-26.14	1-30-92	--	-26.14	1992	-26.70	1982	S	1970,1982,1992
22N.24E.23.222	DKOT	-10.00	1-28-92	+4.47	-7.46	1967	-14.47	1987	I	1967,1982,1987,1992
22N.25E.11.122344	GRRS	-11.47	1-28-92	+2.13	-11.47	1992	-13.93	1982	I	1971,1982,1987,1992
22N.25E.13.32233	OGLL	-68.64	1-28-92	-0.01	-67.21	1971	-68.64	1992	I	1971,1982,1987,1992
22N.25E.22.444	OGLL	-70.14	1-28-92	+0.31	-70.14	1992	-70.95	1982	S	1966-70,1973-74,1982,1987,1992
22N.25E.33.211	--	-26.05	1-28-92	-2.12	-23.93	1987	-26.05	1992	I	1982,1987,1992
22N.26E.07.444144	OGLL	-129.69	1-28-92	-0.34	-102.30	1982	-180.26	1967	U	1967,1982,1987,1992
22N.26E.13.14122	OGLL	-201.28	1-30-92	-0.11	-201.17	1987	-201.61	1967	I	1967,1982,1987,1992
22N.26E.21.434441	OGLL	-118.71	1-28-92	-1.89	-114.93	1982	-118.71	1992	I	1967,1982,1987,1992
22N.26E.31.333124	OGLL	-4.76	1-28-92	-0.83	-3.93	1987	-9.13	1982	U	1967,1982,1987,1992
22N.27E.16.221	OGLL	-102.52	1-30-92	+3.68	-101.45	1970	-106.20	1987	U	1970,1982,1987,1992
22N.28E.02.31412	OGLL	-42.07	1-31-92	-0.33	-41.74	1987	-42.18	1970	I	1970,1982,1987,1992
22N.29E.10.21121	OGLL	-150.54	2-03-92	-4.64	-143.38	1970	-150.54	1992	I	1970,1979,1987,1992
22N.29E.18.333	OGLL	-55.93	2-03-92	+0.54	-54.23	1967	-57.04	1989	U	1967-70,1973-92
22N.29E.27.122	--	-61.60	2-03-92	--	-61.60	1992	-61.60	1992	U	1992
23N.24E.21.433211	DKOT	-3.02	1-29-92	--	-2.94	1970	-7.70	1982	I	1970,1982,1992
23N.25E.23.34214	GRRS	-27.36	1-29-92	-2.09	-24.54	1982	-27.36	1992	S	1971,1982,1987,1992
23N.26E.35.343333	OGLL	-162.57	1-30-92	-2.70	-159.87	1987	-162.57	1992	U	1971,1982,1987,1992

Curry County Monitoring Area

The Curry County monitoring area is in east-central New Mexico. Water-level changes range from a decline of more than 23 feet to a rise of more than 11 feet. Generally, water levels have declined on the eastern side and in the southwest corner of the monitoring area. A diagonal line drawn from T. 8 N., R. 37 E. to T. 1 N., R. 33 E. would show that most changes are declines on the east side of the line. West of the diagonal line the monitoring area shows water-level rises.

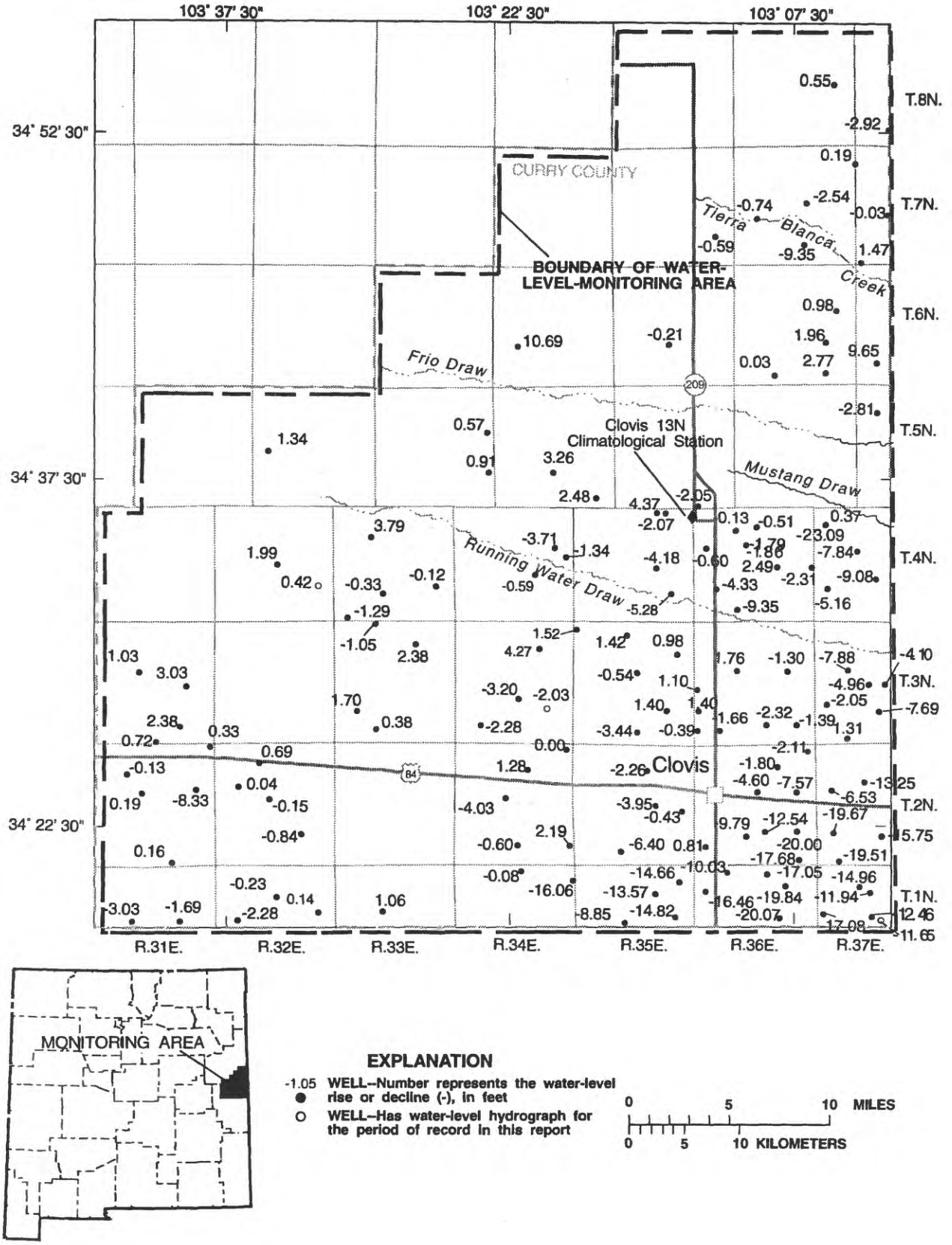


Figure 31.--Water-level changes for wells in the Curry County monitoring area, 1987-92.

Methods of Data Collection

Twenty-two selected wells in various parts of New Mexico are equipped with continuous water-level recorders as of January 1993 (fig. 2; table 1). Each well is visited every few months. A check measurement of water level is made with a steel tape to determine if the recorder is measuring the correct water level. If adjustments to the recorder data are needed a notation is made and the data are retrieved from the recorder. The recorder is then reset to measure the correct water level, if needed, and continuous recording of data is resumed. Data from the recorders are checked and any adjustments are made to the data as noted at the time of the site visit. The data are subsequently entered into the Automated Data Processing System (ADAPS) data base.

Water levels are measured in selected observation wells in each of the monitoring areas. These monitoring areas and their measurement schedules are shown in figure 1. Measurements are generally made in January, February, or March, usually several months after pumping for irrigation has ceased and when water levels in most wells have recovered from the local effects of sustained withdrawals. Water levels that are affected by recent pumping in the well or in a nearby well are not used in computing 5-year changes. In some monitoring areas, water levels in some wells were measured in November or December of the year preceding the scheduled January, February, or March measurements. The water levels measured in November or December also are used to compute the 5-year ground-water-level changes because they represent nonpumping water levels. Water levels are obtained using a steel tape. Check measurements are made at each well to assure accurate water-level data. Computations of water levels are checked and the data are entered into the Ground-Water Site-Inventory System (GWSI) data base. Winter water-level measurements are compared with winter water-level measurements from 5 years previous to indicate increase or decrease of ground-water storage.

Local Well-Numbering System

The system of numbering wells in New Mexico is based on the common subdivision of public lands into sections (fig. 3). The well number, in addition to designating the well, locates its position in the land network. The number is divided into four segments. The first segment denotes the Township (T.) north or south of the New Mexico base line; the second denotes the Range (R.) east or west of the New Mexico principal meridian, and the third denotes the section. The fourth segment of the number, which consists of three or more digits, denotes the 160-, 40-, and 10-acre tracts, respectively, in which the well is situated. For this purpose, the section is divided into four quarters, numbered 1, 2, 3, and 4, in the normal reading order, for the northwest, northeast, southwest, and southeast quarters, respectively. The first digit of the fourth segment gives the quarter section, which is a tract of 160 acres. Similarly, the quarter section is divided into four 40-acre tracts numbered in the same manner, and the second digit denotes the 40-acre tract. Finally, the 40-acre tract is divided into four 10-acre tracts, and the third digit denotes the 10-acre tract. Thus, well 18S.09E.24.213 is in the SW1/4 NW1/4 NE1/4 sec. 24, T. 18 S., R. 09 E. If a well can be located accurately within tracts smaller than 10 acres, the same process of dividing the remaining area in quarters is continued as needed. If a well cannot be located accurately within a 10-acre tract, a zero is used as the third digit, and if it cannot be located within a 40-acre tract, zeros are used for both the second and third digits. If a well cannot be located more closely than the section, the fourth segment of the well number is omitted. If later a well can be located more accurately, the proper digits are added or substituted for the zeros. Letters a, b, c, and so on are added to the last segment to designate the second, third, fourth, and succeeding wells in the same 10-acre tract.

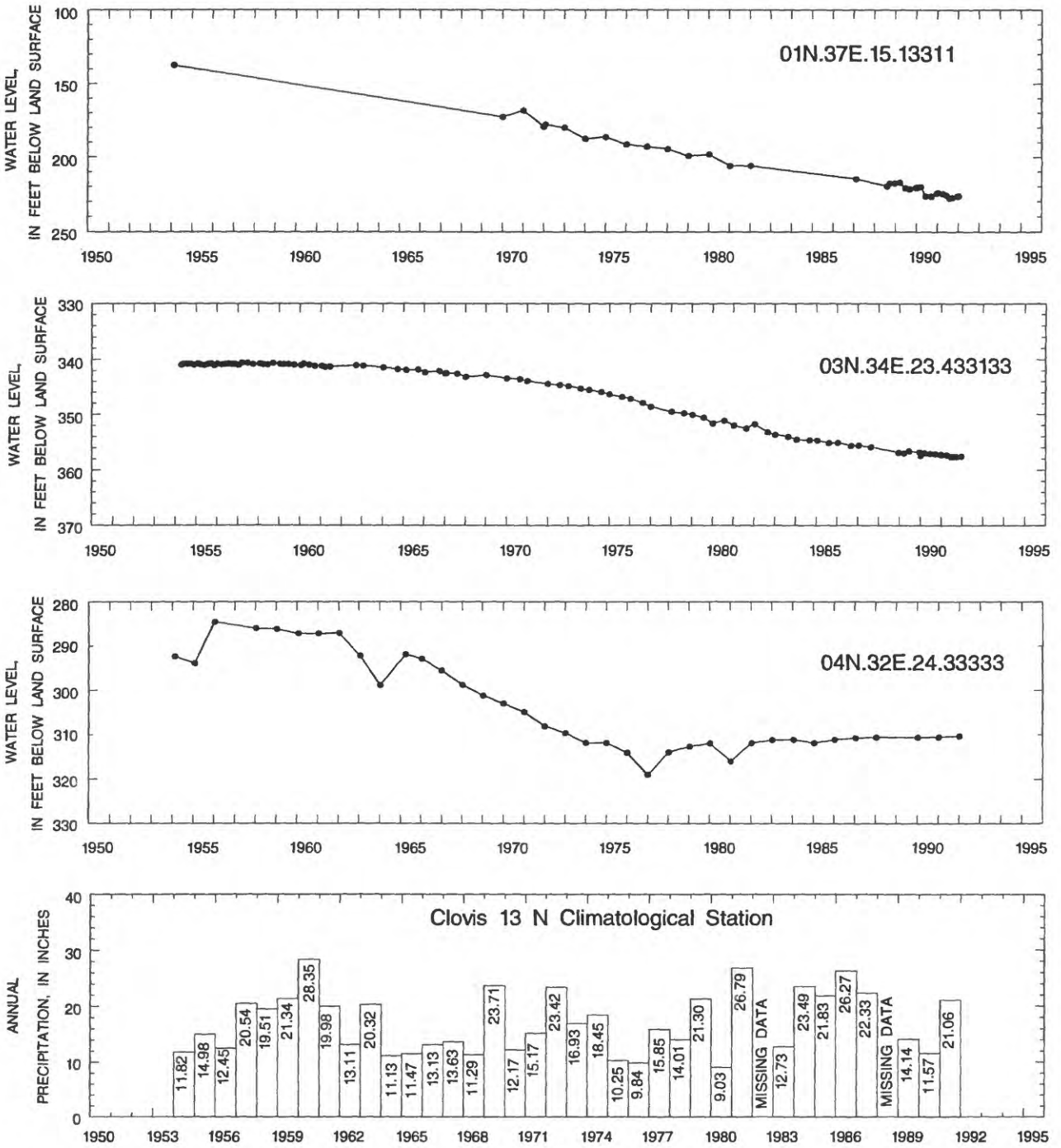


Figure 32.--Water-level data for selected wells in the Curry County monitoring area and annual precipitation at the Clovis 13 N Climatological Station. See figure 31 for location of wells and station.

Table 15.--Well location and water-level data for selected wells in the Curry County monitoring area, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; OGLL, Ogallala Formation. Winter water level, site status: R, recently pumped; S, nearby pumping. Use of water: H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
01N.31E.01.113321	AVMB	-36.65R	2-14-92	--	-35.55	1982	-36.68	1972	S	1967,1972,1977,1982,1987,1992
01N.31E.14.314342	AVMB	-82.37	1-06-92	-1.69	-76.63	1980	-83.93	1991	I	1980-81,1983-92
01N.31E.15.232233	AVMB	-68.35	2-14-92	--	-61.12	1972	-68.35	1992	S	1972,1977,1992
01N.31E.17.441111	AVMB	-93.75	1-06-92	-3.03	-79.86	1968	-93.75	1992	I	1968,1972,1977,1980-83,1985-92
01N.32E.09.242434	AVMB	-11.54	2-26-92	-0.23	-7.17	1962	-11.54	1992	S	1956,1958-62,1967,1972,1977,1982, 1987,1992
01N.32E.13.111344A	AVMB	-16.14	2-26-92	+0.14	-14.80	1977	-16.28	1987	S	1977,1982,1987,1992
01N.32E.17.331121	AVMB	-59.66	2-26-92	-2.28	-49.30	1959	-59.66	1992	S	1959,1961-64,1967,1971,1977,1982, 1987,1992
01N.33E.16.12113	AVMB	-33.81	1-02-92	+1.06	-20.00	1942	-38.75	1986	I	1942-65,1967,1969-88,1991-92
01N.34E.01.24344	OGLL	-218.51	1-03-92	-16.06	-193.75	1977	-218.51	1992	I	1977,1982,1987,1991-92
01N.34E.03.12111	OGLL	-191.08	1-02-92	-0.08	-172.47	1967	-191.27	1991	I	1967-85,1987,1990-92
01N.35E.01.31212	OGLL	-241.64	1-07-92	-14.66	-162.26	1954	-241.64	1992	I	1954-62,1964-88,1990-92
01N.35E.03.11111	OGLL	-270.41	1-07-92	--	-216.89	1969	-270.41	1992	I	1969-85,1987-88,1990-92
01N.35E.11.1331	OGLL	-242.00	1-04-92	-13.57	-223.04	1984	-242.00	1992	U	1984-88,1990-92
01N.35E.14.44222	OGLL	-222.64	1-04-92	-14.82	-187.42	1980	-222.64	1992	I	1980-88,1990-92
01N.35E.16.34214A	OGLL	-164.45	3-13-92	-8.85	-134.15	1977	-164.45	1992	S	1977,1982,1987,1992
01N.36E.02.34343	OGLL	-264.74	1-06-92	-19.84	-234.86	1982	-264.74	1992	I	1982,1986-87,1990-92
01N.36E.03.122442	OGLL	-260.95	1-04-92	-17.05	-210.36	1975	-260.95	1992	I	1975-88,1990-92
01N.36E.05.21111	OGLL	-238.05	1-04-92	-10.03	-163.24	1954	-238.05	1992	I	1954-88,1990-92
01N.36E.06.34444	OGLL	-250.42	1-07-92	-16.46	-203.94	1978	-250.42	1992	I	1978-88,1990-92
01N.36E.14.31334	OGLL	-225.46	1-06-92	-20.07	-159.87	1972	-225.46	1992	I	1972,1975-88,1990-92
01N.37E.09.111	OGLL	-230.14	1-06-92	-14.96	-208.30	1983	-230.14	1992	I	1983-88,1990-92
01N.37E.09.21111	OGLL	-237.24	1-06-92	-11.94	-183.86	1972	-237.24	1992	U	1972,1977,1982-88,1990-92
01N.37E.15.13311	OGLL	-226.42	1-06-92	-11.65	-137.43	1954	-232.21	1992	U	1954,1970-82,1987-92
01N.37E.16.4112	OGLL	-221.39	1-06-92	-12.46	-201.44	1983	-221.39	1992	I	1983-88,1990-92
01N.37E.18.12111	OGLL	-235.18	1-06-92	-17.08	-183.92	1975	-235.18	1992	I	1975-88,1990-92
02N.31E.01.211121	OGLL	-83.25	1-08-92	+0.33	-82.98	1990	-89.50	1973	I	1956-88,1990-92
02N.31E.08.144441	OGLL	-92.14	3-04-92	-0.13	-92.01	1987	-93.32	1982	U	1982,1987,1992
02N.31E.14.22144	AVMB	-49.96	2-13-92	-8.33	-41.63	1987	-49.96	1992	S	1962-64,1966-67,1972,1982,1987,1992
02N.31E.16.13424	OGLL	-59.38	2-13-92	+0.19	-59.38	1992	-59.57	1987	S	1987,1992
02N.31E.34.414342	OGLL	-3.69	2-28-92	+0.16	-3.69	1992	-3.95	1982	S	1977,1982,1987,1992
02N.32E.04.33113A	OGLL	-94.64	2-14-92	+0.69	-94.64	1992	-95.83	1972	S	1972,1977,1982,1987,1992
02N.32E.07.444423	OGLL	-52.78	2-13-92	+0.04	-52.78	1992	-53.46	1977	U	1977,1982,1987,1992
02N.32E.16.411321A	OGLL	-84.96	2-26-92	-0.15	-83.77	1977	-84.96	1992	H	1977,1982,1987,1992
02N.32E.26.13442	OGLL	-84.45	2-26-92	-0.84	-83.61	1987	-84.45	1992	S	1987,1992
02N.32E.29.33433	OGLL	-39.73R	2-14-92	--	-34.94	1962	-39.89	1987	S	1962-64,1967,1972,1977,1982, 1987,1992
02N.32E.35.331312	AVMB	-41.69	1-02-92	--	-38.02	1980	-42.25	1991	U	1980-81,1984-86,1990-92
02N.34E.01.12222	OGLL	-341.91	1-02-92	0.00	-315.37	1962	-342.91	1981	I	1962,1967-85,1987-88,1991-92

Table 15.--Well location and water-level data for selected wells in the Curry County monitoring area, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
02N.34E.10.21112	OGLL	-347.73	1-02-92	+1.28	-322.52	1972	-351.21	1984	I	1972,1977,1980-85,1987,1991-92
02N.34E.16.32422	OGLL	-284.05	3-13-92	-4.03	-280.02	1987	-285.43	1982	I	1982,1987,1992
02N.34E.27.333432	OGLL	-242.84	3-13-92	-0.60	-239.82	1982	-242.84	1992	I	1982,1987,1992
02N.34E.36.222221	OGLL	-256.75	1-02-92	+2.19	-214.14	1954	-260.20	1986	I	1954,1956-60,1962-65,1967-70, 1972-80,1982-88,1990-92
02N.35E.10.21111	OGLL	-340.65	1-03-92	-2.26	-303.74	1962	-361.74	1977	I	1962,1967-77,1979-88,1991-92
02N.35E.23.111	OGLL	-298.90	1-02-92	-3.95	-289.73	1983	-298.90	1992	U	1983-88,1990-92
02N.35E.24.12111	OGLL	-284.24	1-04-92	-0.43	-239.05	1954	-290.75	1986	I	1954-61,1963-80,1982-83,1985-87, 1991-92
02N.35E.33.12111	OGLL	-278.72	1-02-92	-6.40	-253.72	1975	-278.72	1992	I	1975-88,1990-92
02N.36E.01.21111	OGLL	-324.78	1-08-92	-2.11	-291.89	1973	-324.78	1992	I	1973-88,1990-92
02N.36E.02.331131	OGLL	-314.96	1-07-92	-1.80	-303.64	1977	-315.45	1985	I	1977,1979-88,1990-92
02N.36E.13.13131	OGLL	-309.33	1-08-92	-7.57	-290.25	1979	-309.33	1992	I	1979-88,1990-92
02N.36E.15.11111	OGLL	-285.91	1-07-92	-4.60	-266.89	1974	-291.29	1985	I	1974-92
02N.36E.25.13111	OGLL	-293.10	1-04-92	-20.00	-254.04	1980	-293.10	1992	I	1980-88,1990-92
02N.36E.27.12211	OGLL	-266.99	1-04-92	-12.54	-190.80	1954	-266.99	1992	I	1954-58,1960-64,1966-88,1990-92
02N.36E.28.41111	OGLL	-246.08	1-04-92	-9.79	-229.88	1982	-246.08	1992	I	1982-88,1990-92
02N.36E.31.211	OGLL	-254.06	1-04-92	+0.81	-247.10	1983	-255.27	1988	I	1983-85,1987-88,1990-92
02N.36E.36.13143	OGLL	-266.77	1-06-92	-17.68	-220.04	1975	-266.77	1992	I	1975-78,1980-88,1990-92
02N.37E.08.113	OGLL	-315.73	1-07-92	-1.86	-311.23	1983	-317.30	1984	I	1983-88,1990-92
02N.37E.09.32112	OGLL	-299.50	1-07-92	-13.25	-213.24	1963	-299.50	1992	I	1963-70,1973-87,1991-92
02N.37E.10.132	OGLL	-324.11	1-07-92	-23.09	-292.35	1983	-324.11	1992	I	1983-88,1990-92
02N.37E.18.223	OGLL	-291.05	1-08-92	-6.53	-280.05	1983	-291.05	1992	I	1983-88,1990-92
02N.37E.27.3122	OGLL	-268.00	1-06-92	-15.75	-247.30	1985	-268.00	1992	I	1985-88,1990-92
02N.37E.30.221131	OGLL	-288.10	1-06-92	-19.67	-187.32	1955	-288.10	1992	I	1954-56,1958-59,1962-64,1967-88, 1990-92
02N.37E.32.13313	OGLL	-278.83	1-06-92	-19.51	-180.97	1954	-278.83	1992	I	1954-88,1990-92
03N.31E.14.34341A	OGLL	-109.54	2-12-92	+3.03	-108.56	1974	-112.57	1987	S	1972,1974,1977,1982,1987,1992
03N.31E.17.24221	OGLL	-86.09	2-12-92	+1.03	-86.09	1992	-97.86	1965	S	1962,1964-65,1967,1972,1977, 1982,1987,1992
03N.31E.26.33333	OGLL	-82.80	2-12-92	+2.38	-82.80	1992	-85.18	1987	U	1972,1977,1982,1987,1992
03N.31E.33.441223	OGLL	-70.78	2-20-92	+0.72	-70.78	1992	-71.60	1982	I	1977,1982,1987,1992
03N.33E.05.222	OGLL	-378.89	1-03-92	-1.05	-375.47	1983	-378.90	1991	U	1983-88,1990-92
03N.33E.11.11111	OGLL	-378.45	1-03-92	+2.38	-378.45	1992	-393.94	1984	I	1980-88,1990-92
03N.33E.29.13132	OGLL	-224.78	2-19-92	+1.70	-224.78	1992	-226.94	1982	S	1982,1987,1992
03N.33E.33.13111	OGLL	-229.90	2-19-92	+0.38	-229.90	1992	-230.89	1982	I	1982,1987,1992
03N.34E.02.33433	OGLL	-399.89	1-03-92	+4.27	-381.75	1962	-409.70	1982	I	1962,1967-87,1991-92
03N.34E.22.133414	OGLL	-351.68	1-04-92	-3.20	-336.16	1973	-374.44	1985	S	1962,1967-88,1990-92
03N.34E.23.433133	OGLL	-357.67	1-04-92	-2.03	-340.62	1957	-358.70	1989	U	1954-92
03N.34E.32.12112	OGLL	-391.48	1-04-92	-2.28	-388.89	1988	-391.48	1992	H	1984-85,1987-88,1992

Table 15.--Well location and water-level data for selected wells in the Curry County monitoring area, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes High (feet)	Year	Low (feet)	Year	Use of water	Years of record
03N.35E.04.23113	OGLL	-368.74	1-05-92	+1.42	-345.52	1962	-377.37	1976	I	1962,1972,1975-80,1983-88,1990-92
03N.35E.06.11111	OGLL	-377.31	1-03-92	+1.52	-360.23	1962	-401.52	1974	I	1962,1967-88,1990-92
03N.35E.12.11331	OGLL	-398.55	1-05-92	+0.98	-387.54	1971	-410.97	1977	I	1971-88,1990-92
03N.35E.15.11311	OGLL	-390.13	1-05-92	-0.54	-388.14	1991	-396.28	1981	I	1975-81,1983-88,1990-92
03N.35E.26.12222	OGLL	-381.01	1-02-92	+1.40	-378.83	1969	-398.85	1977	I	1969,1977,1980-88,1990-92
03N.35E.34.11133	OGLL	-343.46	1-02-92	-3.44	-328.16	1971	-346.77	1990	I	1971-85,1987-88,1990-92
03N.36E.03.11434	OGLL	-224.15	2-12-92	--	-200.81	1975	-225.53	1987	S	1975,1987,1992
03N.36E.14.21113	OGLL	-360.85	1-06-92	-1.30	-279.18	1954	-361.70	1981	I	1954-56,1958-64,1966-75,1977-88, 1990-92
03N.36E.16.111113	OGLL	-364.41	1-06-92	+1.76	-286.89	1954	-369.97	1990	I	1954,1969-88,1990-92
03N.36E.18.33331	OGLL	-377.94	1-07-92	+1.10	-369.87	1975	-379.73	1984	I	1975-88,1990-92
03N.36E.30.111210	OGLL	-376.62	1-05-92	+1.40	-370.45	1972	-383.14	1981	I	1972,1975-88,1990-92
03N.36E.31.11111	OGLL	-341.74	1-05-92	-0.39	-301.13	1962	-346.17	1981	I	1962,1967,1972,1975,1977-88,1990-92
03N.36E.32.11211	OGLL	-359.66	1-07-92	-1.66	-286.92	1954	-362.60	1990	I	1954-56,1958,1960-61,1975-92
03N.36E.34.21111	OGLL	-370.39	1-07-92	-2.32	-367.30	1990	-373.00	1980	I	1979-88,1990-92
03N.36E.36.11111	OGLL	-352.47	1-07-92	-1.39	-342.15	1979	-353.42	1990	I	1979-88,1990-92
03N.37E.04.21111	OGLL	-304.61	1-06-92	--	-192.36	1954	-304.61	1992	I	1954-86,1988,1990-92
03N.37E.08.43333	OGLL	-310.91	1-06-92	-7.88	-275.25	1975	-310.91	1991	I	1975-88,1990-92
03N.37E.15.41424	OGLL	-325.95	1-02-92	-4.10	-297.16	1975	-325.95	1992	I	1975-80,1982-88,1990-92
03N.37E.21.21211	OGLL	-348.46	1-07-92	-4.96	-343.01	1988	-357.59	1981	I	1981-88,1990-92
03N.37E.27.11333	OGLL	-350.36	1-07-92	-7.69	-335.71	1980	-350.36	1992	I	1980-88,1990-92
03N.37E.30.21111	OGLL	-350.89	1-07-92	-2.05	-343.00	1979	-351.37	1991	I	1979-88,1990-92
03N.37E.32.41331	OGLL	-334.59	1-08-92	+1.31	-330.40	1981	-336.00	1985	I	1981-85,1987-88,1990-92
04N.32E.22.111114	OGLL	-299.14	1-03-92	+1.99	-298.40	1992	-309.92	1981	U	1980-92
04N.32E.24.33333	OGLL	-310.33	1-03-92	+0.42	-284.60	1956	-319.04	1977	I	1954-56,1958-88,1990-92
04N.33E.08.41200	OGLL	-273.21	1-21-92	+3.79	-271.94	1969	-277.00	1987	U	1969,1972,1977,1982,1987,1992
04N.33E.23.444412	OGLL	-317.19	1-21-92	-0.12	-315.55	1977	-319.50	1962	H	1962,1977,1982,1987,1992
04N.33E.28.143434	OGLL	-379.79	1-03-92	-0.33	-376.42	1980	-381.02	1984	I	1980-88,1990-92
04N.33E.31.32222	OGLL	-349.16	1-03-92	-1.29	-334.42	1973	-349.16	1992	I	1973-87,1990-92
04N.34E.13.411144	OGLL	-264.00	3-12-92	-1.34	-259.89	1982	-264.00	1992	S	1982,1987,1992
04N.34E.14.22214	OGLL	-254.45	3-12-92	-3.71	-246.45	1977	-254.45	1992	S	1977,1982,1987,1992
04N.34E.22.24444	OGLL	-274.19	1-03-92	-0.59	-273.01	1982	-274.40	1981	I	1980-88,1990-92
04N.35E.02.112222	OGLL	-437.63	1-04-92	+4.37	-417.60	1973	-442.00	1987	I	1973-77,1983-88,1990-92
04N.35E.02.211111	OGLL	-434.25	1-04-92	-2.07	-426.47	1988	-438.00	1981	I	1978-88,1990-92
04N.35E.22.222222	OGLL	-339.32	1-04-92	-4.18	-320.57	1974	-339.32	1992	I	1974-78,1980-88,1990,1992
04N.35E.26.214444	OGLL	-279.68	1-04-92	-5.28	-255.30	1975	-279.68	1992	I	1975-88,1990-92
04N.36E.03.33333	OGLL	-380.03	1-06-92	-0.51	-356.42	1969	-380.03	1991	I	1969-76,1978-80,1982-88,1990-92
04N.36E.09.31111	OGLL	-393.12	1-06-92	-0.13	-390.60	1984	-393.50	1988	I	1983-92
04N.36E.13.44333	OGLL	-376.56	1-06-92	-2.31	-328.65	1969	-376.56	1991	I	1969-88,1990-92
04N.36E.14.33331	OGLL	-382.23	1-06-92	+2.49	-356.36	1975	-388.85	1983	I	1975-88,1990-92

Table 15.--Well location and water-level data for selected wells in the Curry County monitoring area, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
04N.36E.16.12222	OGLL	-389.39	1-06-92	-1.79	-387.15	1985	-389.90	1983	I	1983-88,1990-92
04N.36E.18.122222	OGLL	-399.70	1-04-92	-0.60	-353.44	1972	-399.70	1992	I	1972,1977,1982-87,1990-92
04N.36E.22.33111	OGLL	-367.90	1-06-92	--	-279.10	1954	-367.90	1991	--	1954-62,1964-68,1990-92
04N.36E.30.222221	OGLL	-339.38	1-04-92	-4.33	-317.82	1977	-339.38	1992	I	1975-88,1990-92
04N.36E.33.11111	OGLL	-301.91	1-06-92	-9.35	-265.40	1975	-301.91	1991	I	1975-88,1990-92
04N.37E.07.21222	OGLL	-345.45	1-06-92	+0.37	-324.95	1971	-345.82	1987	I	1971-75,1977-88,1990-92
04N.37E.16.11313	OGLL	-394.29	1-06-92	-7.84	-289.79	1962	-394.29	1991	I	1962,1967,1969-83,1985-88,1990-92
04N.37E.22.313	OGLL	-333.87	1-02-92	-9.08	-324.20	1986	-333.87	1992	I	1986-88,1992
04N.37E.30.21111	OGLL	-358.11	1-06-92	-5.16	-317.96	1975	-358.11	1991	I	1975-80,1982-88,1990-92
05N.32E.19.21111	OGLL	-253.92	1-03-92	+1.34	-253.92	1992	-258.85	1985	S	1968-69,1971-73,1975-81,1984-87, 1990-92
05N.33E.12.43333	OGLL	-392.16	1-24-92	+0.57	-392.16	1992	-396.85	1977	I	1977,1982,1987,1992
05N.33E.25.22222	OGLL	-405.17	1-03-92	+0.91	-400.55	1988	-411.15	1974	I	1970-88,1990-92
05N.34E.21.44344	OGLL	-438.26	1-03-92	+3.26	-437.91	1992	-448.41	1978	U	1971-78,1980-92
05N.34E.36.131111	OGLL	-432.17	1-04-92	+2.48	-432.17	1992	-444.82	1976	I	1975-88,1990-92
05N.35E.35.31324	OGLL	-445.17	1-04-92	-2.05	-401.78	1970	-445.85	1991	I	1966,1969-92
05N.37E.05.33333	OGLL	-313.45	1-07-92	-2.81	-293.37	1974	-315.08	1991	I	1974-88,1990-92
06N.33E.21.32231	OGLL	-263.56	1-22-92	--	-263.56	1992	-265.11	1987	S	1987,1992
06N.34E.15.22222	OGLL	-363.12	1-16-92	--	-363.12	1992	-363.55	1972	U	1962,1972,1987,1992
06N.34E.20.33443	OGLL	-284.74	1-22-92	+10.69	-284.74	1992	-296.04	1982	S	1982,1987,1992
06N.35E.05.111143	OGLL	-204.83S	1-09-92	--	-207.06	1987	-210.35	1977	H	1977,1982,1987,1992
06N.35E.21.414121	OGLL	-269.28	1-09-92	-0.21	-269.07	1987	-270.03	1977	S	1962,1967,1977,1982,1987,1992
06N.36E.12.33313	OGLL	-299.52	1-07-92	+0.98	-299.52	1992	-303.65	1962	U	1962,1972,1975-88,1990-92
06N.36E.17.11111A	OGLL	-206.25S	1-22-92	--	--	--	--	--	I	1987,1992
06N.36E.23.14444	OGLL	-356.44	1-07-92	+1.96	-323.36	1956	-360.54	1982	U	1954-60,1962,1965-88,1990-92
06N.36E.32.222433	OGLL	-277.89	1-22-92	+0.03	-274.64	1962	-280.23	1982	S	1962,1967,1972,1977,1982,1987,1992
06N.36E.35.122221	OGLL	-343.36	1-07-92	+2.77	-341.17	1973	-347.20	1982	I	1972-73,1975-79,1982-88,1990-92
06N.37E.29.31111	OGLL	-372.30	1-07-92	+9.65	-372.30	1992	-382.76	1990	I	1975-88,1990-92
07N.34E.14.43330	OGLL	-179.07	1-16-92	--	-179.07	1992	-180.98	1962	U	1962,1972,1977,1982,1986,1992
07N.34E.28.444441	OGLL	-209.90	1-16-92	--	-209.90	1992	-210.16	1986	U	1982,1986,1992
07N.35E.03.222223	OGLL	-144.79	1-08-92	--	-140.53	1962	-146.68	1986	S	1962,1967,1972,1977,1982,1986,1992
07N.35E.06.22440	OGLL	-180.45	1-09-92	--	-180.45	1992	-189.59	1982	H	1962,1967,1972,1977,1982,1986,1992
07N.35E.25.311214	OGLL	-194.86	1-10-92	-0.59	-193.10	1982	-194.86	1992	S	1982,1987,1992
07N.35E.29.222221	OGLL	-207.48	1-08-92	--	-207.41	1986	-207.52	1982	S	1982,1986,1992
07N.36E.01.42212	OGLL	-160.76	1-08-92	+0.19	-160.76	1992	-164.05	1972	H	1962,1967,1972,1977,1982,1987,1992
07N.36E.15.411111	OGLL	-248.90	1-17-92	-2.54	-245.23	1962	-264.94	1968	I	1962,1967-68,1970-82,1987,1992
07N.36E.20.31414	OGLL	-187.40	1-17-92	-0.74	-186.24	1982	-187.40	1992	U	1982,1987,1992
07N.36E.34.21111	OGLL	-249.44	1-17-92	-9.35	-240.09	1987	-249.44	1992	U	1987,1992
07N.37E.20.212441	OGLL	-209.88	1-08-92	-0.03	-206.12	1962	-209.88	1992	S	1962,1967,1972,1977,1987,1992
07N.37E.31.314444	OGLL	-230.27	1-07-92	+1.47	-230.27	1992	-235.40	1977	I	1975-88,1990-92

Table 15.--Well location and water-level data for selected wells in the Curry County monitoring area, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
08N.35E.01.344434	OGLL	-163.62	1-09-92	--	-162.95	1977	-166.31	1962	U	1962,1967,1972,1977,1982,1986,1992
08N.35E.22.442412	OGLL	-149.74	1-07-92	--	-149.24	1982	-150.73	1986	H	1962,1972,1977,1982,1986,1992
08N.36E.24.11111	OGLL	-202.67	1-09-92	+0.55	-202.67	1992	-203.60	1982	I	1982,1987,1992
08N.37E.29.43421A	OGLL	-83.36	1-08-92	-2.92	-76.70	1972	-83.36	1992	U	1972,1977,1982,1987,1992

House Monitoring Area

The House monitoring area is in Quay County, east-central New Mexico. With the exception of six wells water-level changes are rises ranging from less than 1 foot to more than 4 feet. Declines are usually less than 1 foot, although one decline was more than 3 feet.

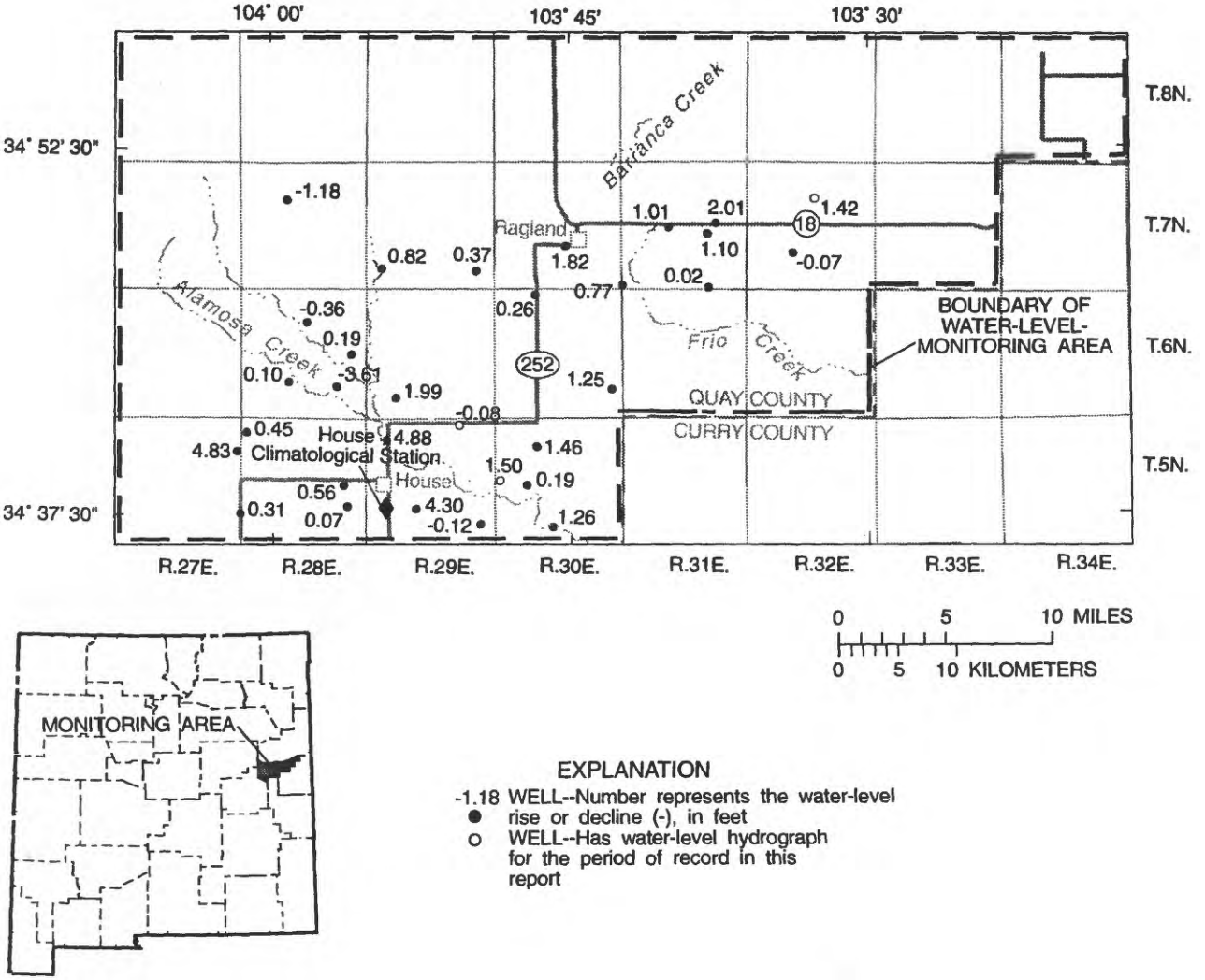


Figure 33.--Water-level changes for wells in the House monitoring area, 1987-92.

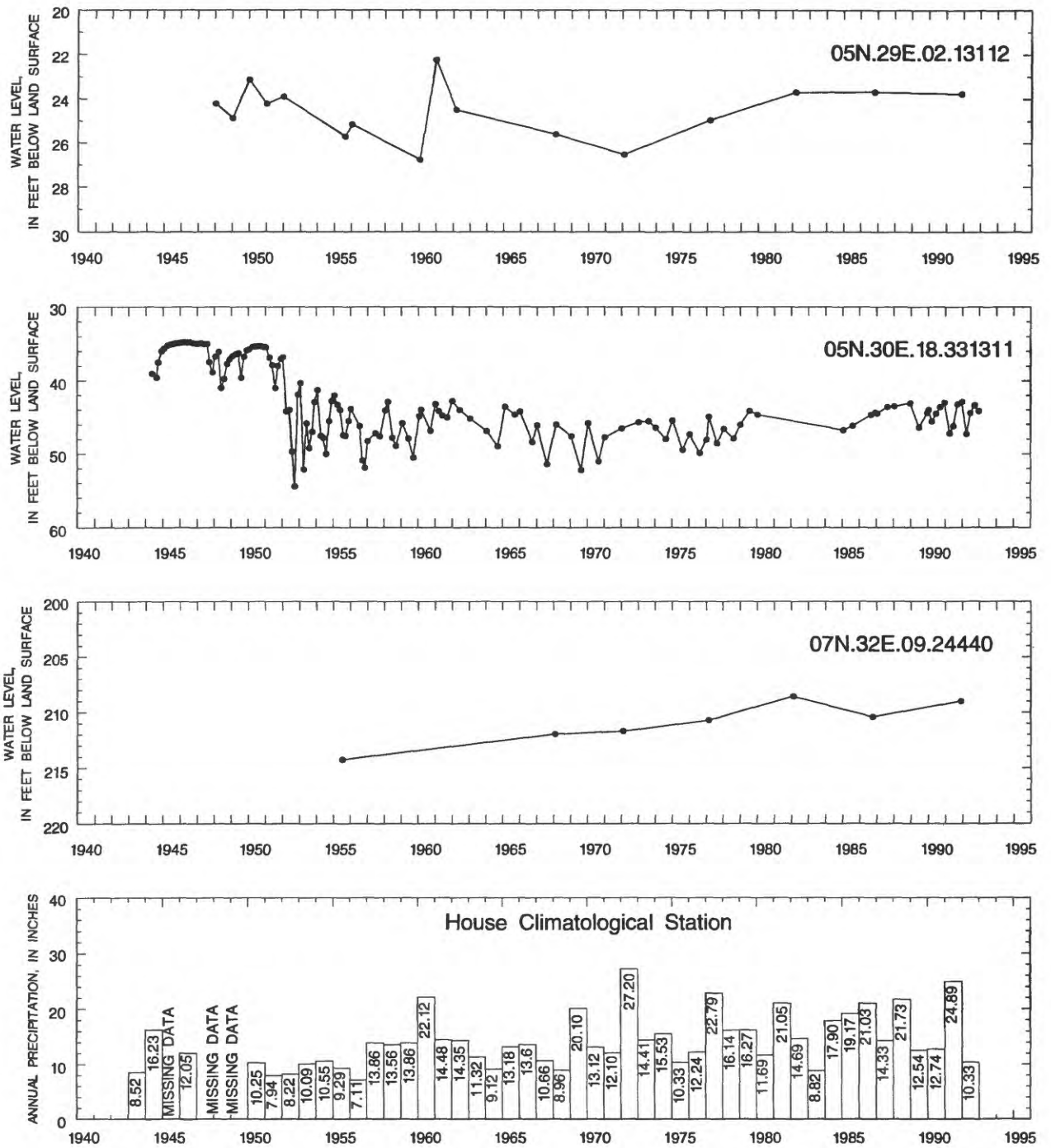


Figure 34.--Water-level data for selected wells in the House monitoring area and annual precipitation at the House Climatological Station. See figure 33 for location of wells and station.

Table 16.--Well location and water-level data for selected wells in the House monitoring area, Quay County, New Mexico

[Geologic unit, primary producing zone for the well: OGLL, Ogallala Formation. Winter water level, site status: P, pumping; R, recently pumped. Use of water: D, dewater; H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986-87 to winter 1991-92 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
05N.27E.12.444441	--	-96.05	11-06-91	+4.83	-93.78	1982	-126.50	1972	--	1968,1972,1977,1982,1986,1991
05N.27E.25.422221	--	-81.35	11-06-91	+0.31	-80.38	1977	-81.66	1986	--	1977,1982,1986,1991
05N.28E.06.32311	--	-88.18	11-07-91	+0.45	-87.37	1977	-88.63	1986	--	1977,1982,1986,1991
05N.28E.10.34341	--	-78.48R	11-07-91	--	-77.80	1982	-91.23	1977	--	1968,1972,1977,1982,1986,1991
05N.28E.23.222232	--	-74.82	12-17-91	+0.56	-74.82	1991	-78.35	1971	S	1968-72,1974,1977,1982,1986,1988-91
05N.28E.26.242212	--	-101.36	11-07-91	+0.07	-101.28	1982	-101.43	1986	--	1977,1982,1986,1991
05N.28E.32.34241	--	-103.15R	11-06-91	--	-102.17	1986	-105.85	1977	--	1977,1982,1986,1991
05N.29E.02.13112	--	-23.77	11-15-91	-0.08	-22.24	1961	-26.77	1960	--	1948-62,1968,1972,1977,1982,1986,1991
05N.29E.07.22141	--	-57.94	11-15-91	+4.88	-25.27	1941	-62.82	1986	--	1941-59,1961-62,1978,1982,1986,1991
05N.29E.25.33444	--	-96.02	10-31-91	-0.12	-95.67	1982	-101.60	1968	--	1966,1968,1977,1982,1986,1991
05N.29E.28.113343	--	-65.28	10-31-91	+4.30	-64.74	1977	-69.58	1986	--	1968,1977,1982,1986,1991
05N.30E.08.24230	--	-169.73	11-13-91	+1.46	-169.73	1991	-171.19	1986	U	1977,1982,1986,1991
05N.30E.18.331311	--	-42.89	12-17-91	+1.50	-34.76	1946	-52.23	1969	I	1944-80,1985-91
05N.30E.20.121124	--	-47.84	11-13-91	+0.19	-47.19	1982	-48.03	1986	--	1972,1977,1982,1986,1991
05N.30E.33.211113	--	-43.85	11-13-91	+1.26	-42.67	1977	-45.29	1972	--	1966,1968,1972,1977,1982,1986,1991
06N.28E.01.23400A	--	-67.17	11-08-91	--	-65.10	1974	-71.29	1977	--	1965-75,1977,1991
06N.28E.10.13333	--	-136.05	11-08-91	-0.36	-135.69	1986	-138.39	1977	--	1955,1968,1972,1977,1986,1991
06N.28E.13.33333	--	-118.95	12-17-91	+0.19	-100.47	1948	-119.17	1991	D	1948-67,1969,1972-75,1977,1982, 1986,1990-91
06N.28E.26.322121	--	-104.94	11-07-91	-3.61	-98.20	1982	-104.94	1991	I	1982,1986,1991
06N.28E.28.132123	--	-32.95	11-08-91	+0.10	-32.95	1991	-33.10	1982	--	1977,1982,1986,1991
06N.29E.16.33300	--	-136.79	11-08-91	--	-59.05	1987	-172.19	1977	--	1955,1968,1972,1977,1982,1987,1991
06N.29E.32.11112	--	-102.67	11-15-91	+1.99	-70.99	1946	-110.90	1972	--	1946-48,1950,1952-66,1968-75,1977, 1982, 1986,1991
06N.30E.05.24241	--	-197.18	11-14-91	+0.26	-197.18	1991	-202.19	1977	--	1977,1982,1986,1991
06N.30E.07.221242	--	-166.14R	11-14-91	--	-166.59	1977	-167.00	1986	H	1977,1986,1991
06N.30E.20.42221	--	-160.62P	11-14-91	--	-160.57	1977	-161.00	1982	--	1977,1982,1986,1991
06N.30E.25.143334	--	-178.10	11-20-91	+1.25	-178.10	1991	-183.93	1968	--	1968,1972,1977,1982,1986,1991
06N.30E.26.44443	--	-195.56R	11-14-91	--	-199.13	1977	-199.13	1977	--	1977,1991
06N.31E.03.444141	--	-101.97	11-21-91	--	-101.97	1991	-103.00	1977	--	1977,1982,1987,1991
06N.32E.04.211241	--	-117.66	11-12-91	--	-117.66	1991	-139.74	1955	--	1955,1977,1982,1987,1991
06N.32E.07.313321	--	-88.58	11-21-91	--	-88.58	1991	-96.30	1955	--	1955,1968,1972,1977,1982,1987,1991
06N.32E.15.223333	--	-88.05	11-21-91	--	-87.67	1982	-89.85	1987	--	1977,1982,1987,1991
06N.32E.29.231132	--	-96.76	11-21-91	--	-96.76	1991	-97.85	1987	I	1987,1991
07N.28E.09.33122	--	-37.95	11-20-91	-1.18	-36.77	1986	-38.94	1982	H	1982,1986,1991
07N.28E.33.22222	--	-99.28P	11-20-91	--	-99.14	1977	-101.71	1986	--	1977,1982,1986,1991
07N.29E.30.34444A	--	-41.17	11-20-91	+0.82	-41.17	1991	-41.99	1986	--	1977,1982,1986,1991
07N.29E.35.22231	--	-126.90	11-20-91	+0.37	-124.33	1982	-128.82	1955	--	1955,1968,1972,1977,1982,1986,1991
07N.30E.22.33230	--	-139.08	11-22-91	+1.82	-139.08	1991	-153.52	1982	--	1972,1977,1982,1986,1991
07N.30E.36.423321	--	-111.22	11-14-91	+0.77	-111.22	1991	-114.65	1955	--	1955,1972,1977,1982,1986,1991

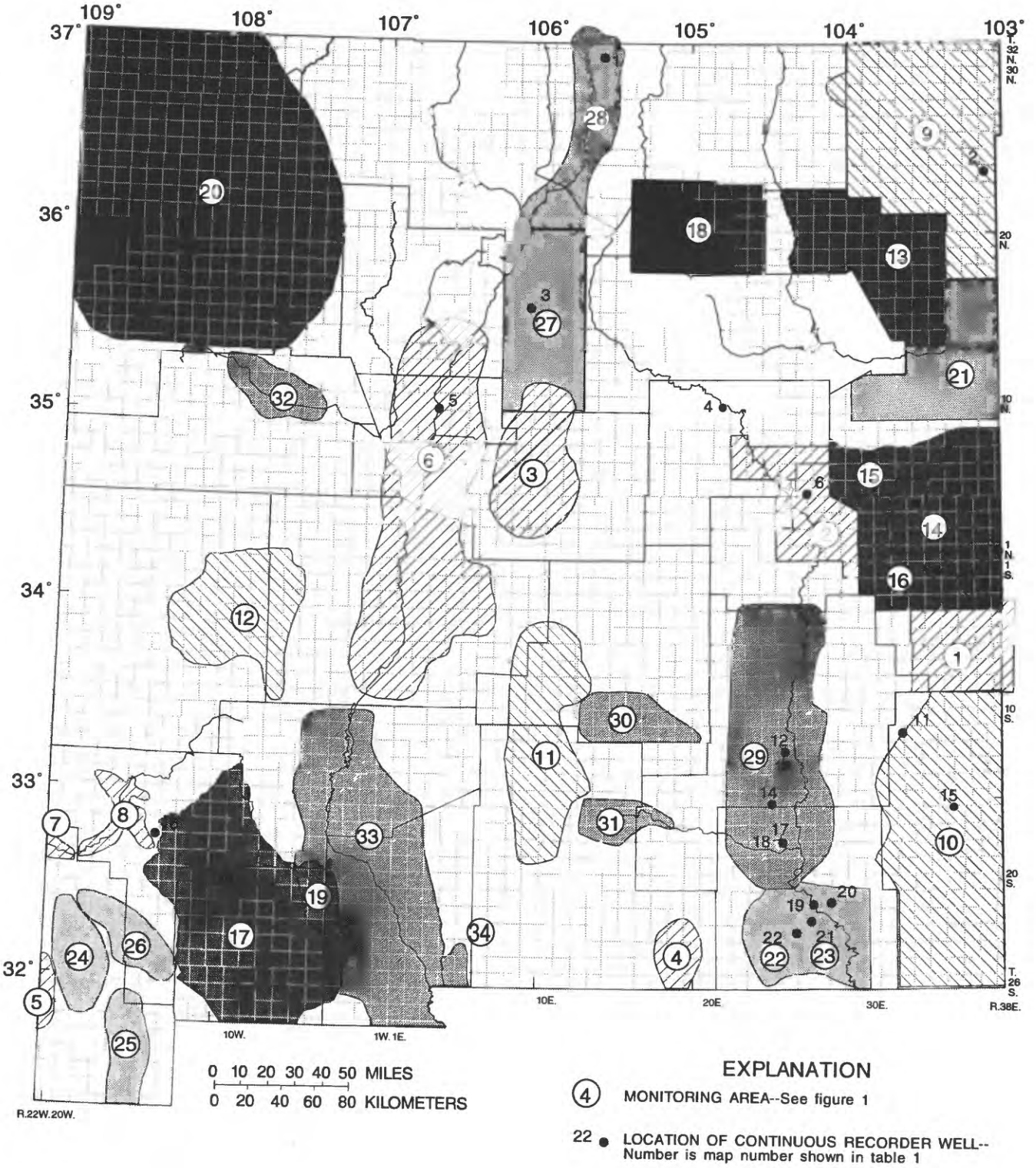


Figure 2.--Location of continuous recorder wells.

Table 16.--Well location and water-level data for selected wells in the House monitoring area, Quay County, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986-87 to winter 1991-92 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
07N.31E.14.34234	--	-143.93	11-20-91	+2.01	-143.93	1991	-145.94	1986	I	1977,1982,1986,1991
07N.31E.16.333143	--	-102.98	11-20-91	+1.01	-100.64	1977	-103.99	1986	--	1977,1982,1986,1991
07N.31E.22.224314	--	-125.85	11-20-91	+1.10	-75.79	1968	-126.95	1986	--	1955,1968,1972,1977,1982,1986,1991
07N.31E.34.442122	--	-134.15	11-20-91	+0.02	-134.15	1991	-136.91	1955	--	1955,1977,1982,1986,1991
07N.32E.09.24440	--	-209.01	11-22-91	+1.42	-208.57	1982	-214.26	1955	--	1955,1968,1972,1977,1982,1986,1991
07N.32E.29.222412	--	-76.18	11-21-91	-0.07	-76.11	1986	-92.60	1955	--	1955,1968,1972,1977,1982,1986,1991
07N.33E.32.333114	--	-252.87	1-16-92	--	-252.10	1977	-256.63	1982	--	1968,1972,1977,1982,1986,1992
08N.33E.26.12122	OGLL	-210.93	1-15-92	--	-210.92	1986	-211.47	1972	--	1972,1977,1986,1992
08N.33E.32.22442	OGLL	-228.83R	1-15-92	--	-227.76	1977	-230.93	1955	--	1955,1972,1977,1982,1986,1992
08N.34E.14.324122	--	-169.48	1-15-92	--	-169.48	1992	-172.14	1977	--	1972,1977,1982,1986,1992
08N.34E.19.244442A	--	-236.97	1-15-92	--	-225.68	1968	-236.97	1992	--	1968,1972,1977,1982,1986,1992
08N.34E.26.133444	--	-230.45	1-23-92	--	-229.45	1972	-232.34	1968	--	1955,1968,1972,1977,1982,1986,1992
08N.34E.32.242433	--	-207.42	1-16-92	--	-206.96	1972	-207.48	1986	--	1972,1977,1982,1986,1992

Portales Monitoring Area

The Portales monitoring area is in northern Roosevelt County, east-central New Mexico. Water-level declines range from less than 1 foot to more than 17 feet. Water-level rises range from less than 1 foot to more than 8 feet. Water-level rises in Tps. 2 and 3 N., Rs. 29 and 30 E. range from less than 1 foot to more than 8 feet. Northwest to southeast of Portales from Tps. 1 to 3 S. and Rs. 32 to 35 E. water-level changes are rises ranging from less than 1 foot to more than 9 feet. Most other water-level changes are declines ranging from less than 1 foot to more than 17 feet. Declines are generally located in the northern and eastern parts of the monitoring area.

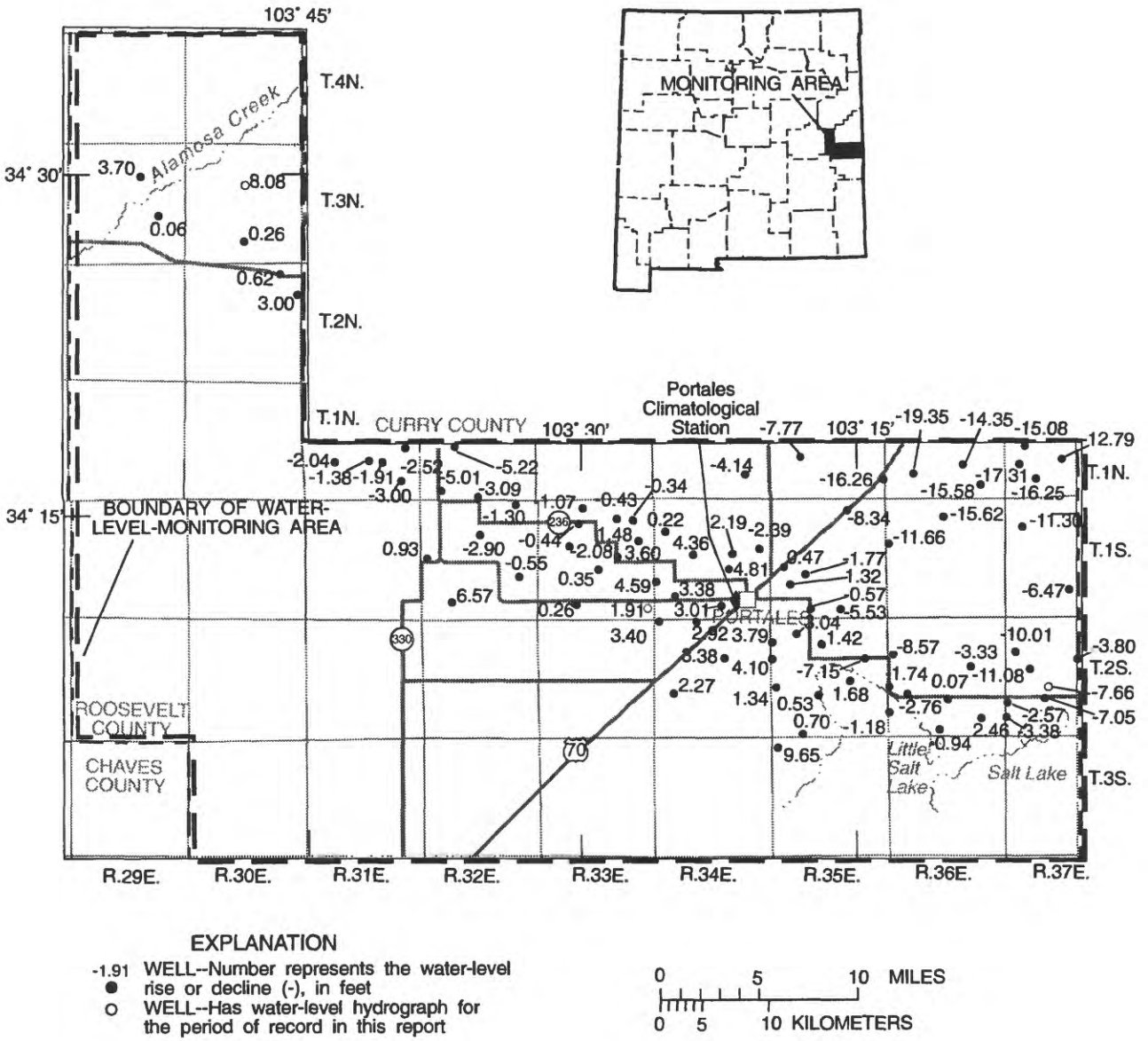


Figure 35.--Water-level changes for wells in the Portales monitoring area, 1987-92.

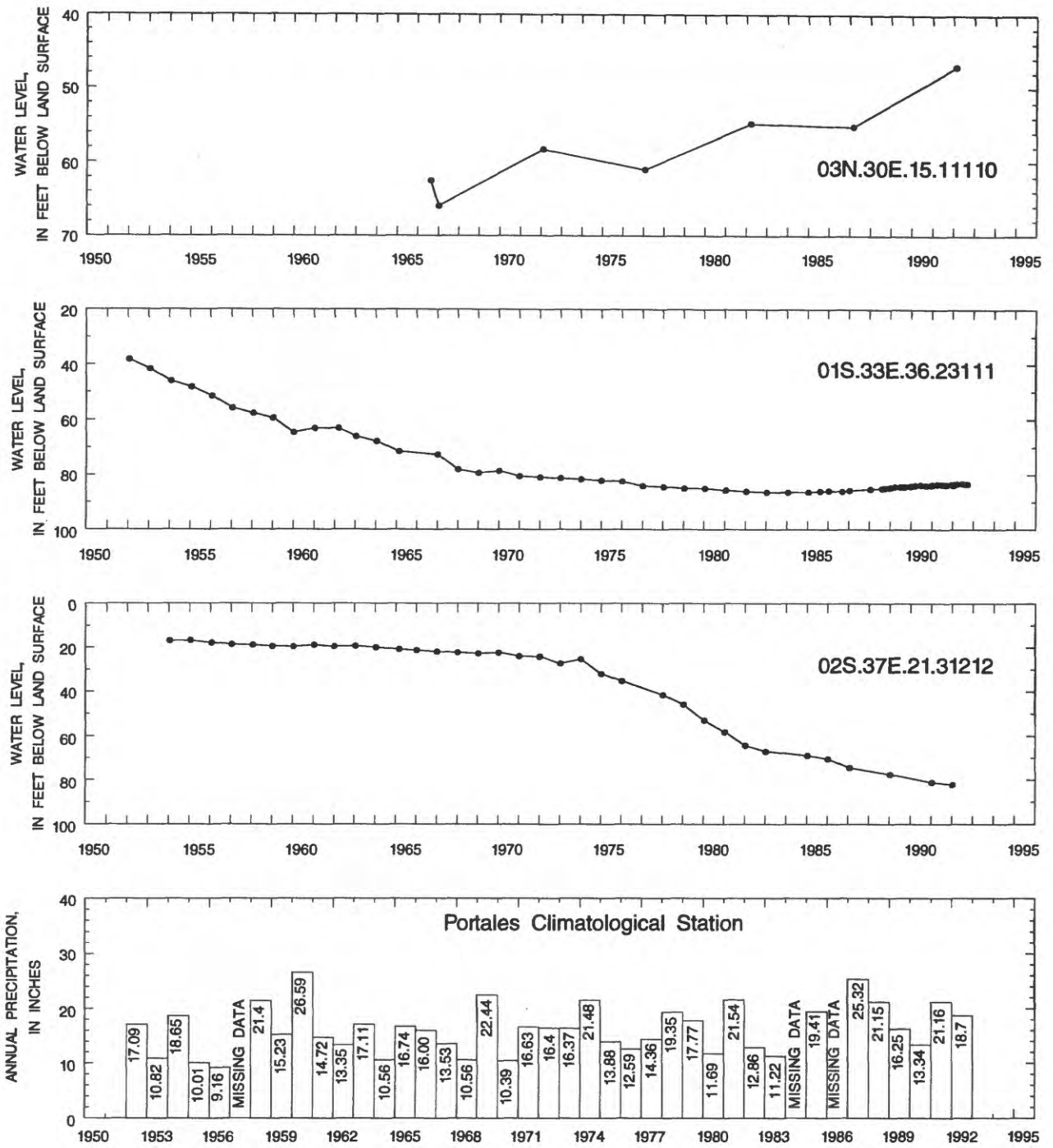


Figure 36.--Water-level data for selected wells in the Portales monitoring area and annual precipitation at the Portales Climatological Station. See figure 35 for location of wells and station.

Table 17.--Well location and water-level data for selected wells in the Portales monitoring area, Roosevelt County, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; OGLL, Ogallala Formation. Winter water level, site status: O, obstruction; P, pumping; R, recently pumped; S, nearby pumping; T, nearby recently pumped. Use of water: H, domestic; I, irrigation; P, public supply; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
01N.29E.01.122413	AVMB	-67.23	2-27-92	--	-63.84	1962	-67.23	1992	S	1962,1967,1972,1974,1977,1982,1986, 1992
01N.29E.16.411421	AVMB	-54.18	3-05-92	--	-54.18	1992	-70.38	1974	U	1974,1977,1982,1986,1992
01N.29E.23.21222	AVMB	-9.00	3-05-92	--	-8.16	1971	-10.06	1986	U	1971,1986,1992
01N.29E.27.144431	AVMB	-6.77	3-05-92	--	-6.77	1992	-12.04	1982	U	1974,1982,1986,1992
01N.30E.19.43441	AVMB	-106.89	2-27-92	--	-106.89	1992	-139.53	1972	S	1966-67,1972,1977,1982,1986,1992
01N.30E.24.11411	AVMB	-126.10	3-05-92	--	-124.30	1977	-127.80	1986	S	1977,1982,1986,1992
01N.30E.32.344413	AVMB	-41.38R	2-07-92	--	-26.84	1967	-42.34	1982	S	1965,1967-68,1972,1977,1982,1986, 1992
01N.31E.22.343331	AVMB	-110.04	3-04-92	-1.38	-86.42	1956	-110.04	1992	I	1956,1958-64,1967,1972,1977,1982, 1987,1992
01N.31E.24.131434	AVMB	-88.36	1-06-92	-2.52	-73.84	1965	-88.36	1992	I	1965-80,1982-92
01N.31E.25.333334	AVMB	-112.37	1-06-92	-3.00	-84.06	1956	-112.37	1992	I	1956,1958-73,1975-92
01N.31E.26.11122	AVMB	-110.50	1-06-92	-1.91	-85.74	1956	-110.62	1984	I	1956,1958-92
01N.31E.26.112	AVMB	-110.50	1-06-92	--	-110.50	1992	-110.50	1992	I	1992
01N.31E.29.212113	AVMB	-114.83	3-04-92	-2.04	-98.05	1956	-114.83	1992	S	1956,1958,1961-63,1967,1972,1977, 1982,1987,1992
01N.32E.20.22111	AVMB	-51.08	1-06-92	-5.22	-43.65	1979	-51.08	1992	I	1977,1979-83,1985-88,1990-92
01N.32E.23.344342	AVMB	-43.76R	2-26-92	--	-27.80	1956	-41.38	1987	S	1956,1958,1965,1972,1977,1982,1987, 1992
01N.32E.32.31111	AVMB	-108.70	1-06-92	-5.01	-90.50	1976	-108.70	1992	I	1976-92
01N.32E.34.33330	AVMB	-88.31	1-06-92	-3.09	-42.88	1948	-88.31	1992	U	1948-92
01N.34E.26.414442	AVMB	-84.19	1-07-92	-4.14	-60.15	1974	-84.19	1992	I	1974-77,1980-85,1987-88,1991-92
01N.35E.20.14400A	AVMB	-154.39	3-13-92	-7.77	-129.30	1977	-154.39	1992	S	1971,1977,1982,1987,1992
01N.35E.25.444	AVMB	-148.83	1-08-92	-16.26	-130.90	1986	-148.83	1992	I	1986-89,1991-92
01N.35E.33.43444	AVMB	-85.58	1-07-92	--	-57.77	1972	-85.58	1992	I	1972,1991-92
01N.36E.27.223	OGLL	-183.11	1-06-92	-14.35	-162.51	1986	-183.11	1992	I	1985-92
01N.36E.29.31423	AVMB	-168.12	1-08-92	-19.35	-126.98	1980	-168.12	1992	I	1980-82,1984-89,1991-92
01N.36E.35.223333	OGLL	-159.28	1-06-92	-15.58	-104.84	1972	-159.28	1992	U	1972,1986-92
01N.37E.20.131133	OGLL	-198.66	1-06-92	-15.08	-147.48	1975	-198.66	1992	I	1975-87,1989-92
01N.37E.28.222112	OGLL	-187.39	1-06-92	-12.79	-132.77	1972	-187.39	1992	U	1972,1975-79,1981-92
01N.37E.29.433333	OGLL	-171.25	1-06-92	-16.25	-129.47	1979	-171.25	1992	I	1979-83,1985-92
01N.37E.30.214444	OGLL	-180.80	1-06-92	-17.31	-125.86	1975	-180.80	1992	I	1975-77,1979-90,1992
02N.29E.02.422212	AVMB	-47.66	2-20-92	--	-47.66	1992	-61.55	1976	U	1976,1982,1986,1992
02N.29E.18.411112	AVMB	-86.04R	3-06-92	--	-84.64	1974	-85.96	1986	S	1974,1980,1982,1986,1992
02N.29E.31.33244	AVMB	-53.02	3-05-92	--	-53.02	1992	-55.61	1982	S	1974,1982,1986,1992
02N.29E.33.112213	AVMB	-29.49	3-06-92	--	-29.49	1992	-31.15	1967	S	1967,1972,1975,1982,1986,1992
02N.30E.02.23410	AVMB	-35.07	2-13-92	+0.62	-35.07	1992	-36.97	1966	S	1965-66,1972,1977,1982,1987,1992
02N.30E.05.32442	AVMB	-47.38R	2-13-92	--	-48.19	1982	-48.37	1986	S	1977,1982,1986,1992
02N.30E.10.433434	AVMB	-49.92R	3-04-92	--	-51.32	1982	-52.91	1977	S	1962,1977,1982,1986,1992

Table 17.--Well location and water-level data for selected wells in the Portales monitoring area, Roosevelt County, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes High (feet)	Year	Low (feet)	Year	Use of water	Years of record
02N.30E.12.422233	AVMB	-62.44	3-04-92	+3.00	-62.44	1992	-71.80	1963	S	1962-63,1967,1972,1977,1987,1992
02N.30E.19.23441	AVMB	-63.62P	2-13-92	--	-57.60	1963	-61.39	1986	S	1962-63,1967,1972,1977,1982,1986, 1992
02N.30E.24.223312	AVMB	-60.55R	3-04-92	--	-59.59	1977	-60.54	1986	S	1972,1977,1982,1986,1992
02N.30E.28.32223	AVMB	-43.61	3-05-92	--	-37.10	1963	-44.70	1986	S	1962-63,1965,1967,1972,1982,1986, 1992
03N.29E.10.42114	AVMB	-46.59	2-20-92	+3.70	-46.11	1974	-50.29	1987	S	1974,1987,1992
03N.29E.16.32200	AVMB	-55.92R	2-20-92	--	-54.44	1982	-55.53	1987	S	1974,1982,1987,1992
03N.29E.23.411444	AVMB	-50.74	2-20-92	+0.06	-50.34	1974	-50.80	1987	U	1974,1982,1987,1992
03N.30E.01.32222	OGLL	-115.40S	2-20-92	--	-113.68	1987	-114.43	1975	S	1975,1982,1987,1992
03N.30E.13.12421	OGLL	-31.06S	2-19-92	--	-36.53	1982	-39.00	1987	S	1982,1987,1992
03N.30E.15.11110	OGLL	-47.07	2-19-92	+8.08	-47.07	1992	-55.15	1987	S	1966-67,1972,1977,1982,1987,1992
03N.30E.28.442334	AVMB	-50.56	2-19-92	+0.26	-50.56	1992	-51.06	1982	H	1982,1987,1992
01S.29E.05.242442	AVMB	-39.84	3-05-92	--	-23.90	1975	-39.84	1992	U	1975,1986,1992
01S.29E.12.222222	AVMB	-45.24P	2-27-92	--	--	--	--	--	S	1975,1986,1992
01S.29E.15.222412	AVMB	-35.47	3-06-92	--	-32.96	1975	-35.47	1992	H	1975,1986,1992
01S.29E.36.312333	AVMB	-22.64	3-03-92	--	-20.11	1975	-22.89	1986	S	1975,1977,1982,1986,1992
01S.30E.14.32131	AVMB	-53.53	3-06-92	--	-53.44	1982	-54.46	1986	S	1975,1982,1986,1992
01S.30E.25.221122	AVMB	-120.62T	2-21-92	--	-124.58	1986	-124.89	1975	I	1975,1982,1986,1992
01S.30E.28.23420	AVMB	-7.02	2-25-92	--	-7.02	1992	-54.93	1975	U	1975,1982,1986,1992
01S.30E.32.422223	AVMB	-126.82	2-25-92	--	-124.87	1977	-132.61	1975	S	1975,1977,1982,1986,1992
01S.31E.10.421421	AVMB	-153.64	2-28-92	--	-149.44	1961	-154.13	1972	S	1961-62,1967,1972,1975,1977,1982, 1986,1992
01S.31E.21.323414	AVMB	-107.53	2-18-92	--	-107.53	1992	-108.80	1975	U	1975,1982,1986,1992
01S.31E.34.431412	AVMB	-53.75	2-18-92	--	-53.75	1992	-58.28	1977	S	1977,1982,1986,1992
01S.32E.02.22110	AVMB	-71.19	1-06-92	-1.30	-67.23	1982	-71.19	1992	I	1982-88,1990-92
01S.32E.07.14222	AVMB	-94.14	2-14-92	--	-91.64	1987	-94.14	1992	S	1987,1992
01S.32E.10.33133	--	-85.53	1-06-92	-2.90	-74.48	1977	-85.53	1992	--	1977-92
01S.32E.18.34311	AVMB	-79.10	3-06-92	+0.93	-79.10	1992	-86.96	1971	H	1956,1961-64,1967,1971,1977,1982, 1987,1992
01S.32E.24.31110	AVMB	-61.21	2-21-92	-0.55	-57.01	1972	-61.21	1992	U	1972,1977,1982,1987,1992
01S.32E.32.122224	AVMB	-42.56	2-21-92	+6.57	-42.56	1992	-49.13	1987	U	1987,1992
01S.33E.04.114	AVMB	-87.19	1-06-92	-1.07	-84.20	1983	-87.27	1991	I	1983-92
01S.33E.09.11111A	AVMB	-74.42	1-06-92	-0.44	-65.09	1973	-75.18	1988	I	1971-92
01S.33E.11.11111	AVMB	-82.97	1-07-92	-0.43	-76.37	1974	-82.97	1992	I	1973-92
01S.33E.11.22224	AVMB	-65.35	1-07-92	-0.34	-62.25	1981	-65.70	1985	I	1981-82,1984-85,1987-92
01S.33E.13.11112	AVMB	-73.76	1-07-92	+1.48	-43.54	1953	-75.96	1977	I	1953-55,1957-64,1967-92
01S.33E.14.33111	AVMB	-73.58	1-07-92	+3.60	-51.59	1956	-80.69	1977	I	1956-92

Table 17.--Well location and water-level data for selected wells in the Portales monitoring area, Roosevelt County, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
01S.33E.17.21111	AVMB	-76.31	1-06-92	-2.08	-17.29	1945	-76.31	1992	I	1945-69,1971-85,1987-92
01S.33E.22.13113	AVMB	-75.24	1-06-92	+0.35	-70.75	1974	-76.81	1977	I	1974-90,1992
01S.33E.32.22222	AVMB	-85.62	1-06-92	+0.26	-73.94	1971	-87.91	1986	U	1971-92
01S.33E.36.23111	AVMB	-83.85	1-06-92	+1.91	-38.19	1952	-86.42	1984	I	1952-65,1967-92
01S.34E.07.41122	AVMB	-68.65	1-08-92	+0.22	-67.40	1980	-68.87	1987	I	1976-77,1979-92
01S.34E.13.142333	AVMB	-94.47	1-07-92	-2.39	-90.82	1989	-98.29	1986	P	1983-92
01S.34E.15.4224	AVMB	-89.28	1-07-92	+2.19	-89.28	1992	-91.98	1983	I	1983,1985-89,1991-92
01S.34E.17.44242	AVMB	-82.85	1-07-92	+4.36	-82.85	1992	-96.88	1976	I	1964-77,1979-92
01S.34E.22.421133	AVMB	-86.42	1-07-92	+4.81	-66.68	1957	-94.55	1976	I	1957-69,1972-92
01S.34E.30.111111	AVMB	-83.90	1-07-92	+4.59	-49.58	1954	-93.12	1981	I	1953-89,1991-92
01S.34E.31.22222	AVMB	-83.62	1-07-92	+3.38	-34.55	1949	-91.29	1986	I	1949-68,1971-92
01S.34E.34.14344	AVMB	-82.43	1-07-92	+3.01	-59.78	1955	-91.05	1979	I	1955-60,1962-65,1967-92
01S.35E.02.13220	AVMB	-90.51	1-06-92	-8.34	-42.88	1944	-90.51	1992	I	1935-69,1971-72,1974-76,1978,1981-92
01S.35E.19.241444	AVMB	-87.22	1-08-92	+0.47	-57.69	1959	-88.68	1985	I	1959-81,1983,1985-92
01S.35E.20.423	AVMB	-90.84	1-07-92	-1.77	-84.51	1989	-90.84	1992	I	1985,1987-92
01S.35E.30.242	AVMB	-95.15	1-07-92	+1.32	-93.98	1989	-98.15	1985	I	1985-92
01S.35E.33.311	AVMB	-89.02	1-07-92	-0.57	-86.36	1989	-89.02	1992	I	1983-92
01S.35E.34.41112	AVMB	-76.05	1-07-92	-5.53	-37.94	1961	-76.05	1992	I	1961-83,1985-92
01S.36E.01.31444	AVMB	-109.72	1-06-92	--	-102.50	1989	-109.72	1992	I	1989-92
01S.36E.04.441444	AVMB	-105.97	1-06-92	-15.62	-59.53	1975	-105.97	1992	I	1975-77,1979-92
01S.36E.06.3412	AVMB	-94.63	1-06-92	--	-85.25	1989	-94.63	1992	I	1989-92
01S.36E.18.113111	AVMB	-64.42	3-11-92	-11.66	-42.99	1980	-64.42	1992	I	1980-92
01S.37E.07.223333	AVMB	-98.00	1-06-92	-11.30	-62.58	1975	-98.00	1992	I	1975-92
01S.37E.10.12444	AVMB	-121.25	1-06-92	--	-114.10	1990	-121.25	1992	I	1989-92
01S.37E.27.312	AVMB	-52.66	1-06-92	-6.47	-45.60	1986	-53.23	1991	I	1986-92
02S.29E.04.242344	AVMB	-25.04	3-03-92	--	-23.45	1986	-39.49	1977	S	1977,1982,1986,1992
02S.29E.12.22120	AVMB	-60.93	2-28-92	--	-60.14	1986	-60.97	1977	S	1977,1982,1986,1992
02S.30E.08.32110	AVMB	-44.03	2-28-92	--	-43.38	1982	-45.67	1977	S	1977,1982,1986,1992
02S.30E.12.124222	AVMB	-35.11	2-25-92	--	-35.11	1992	-35.40	1986	S	1986,1992
02S.30E.20.311142	--	-18.90	3-03-92	--	-18.90	1992	-18.90	1992	S	1992
02S.31E.01.31214	AVMB	-50.86	2-18-92	--	-50.86	1992	-54.40	1982	S	1977,1982,1986,1992
02S.31E.08.142124	AVMB	-28.66	2-18-92	--	-28.66	1992	-29.50	1982	H	1977,1982,1986,1992
02S.31E.14.243211	--	-112.58	2-18-92	--	-112.58	1992	-112.58	1992	H	1992
02S.32E.15.121111A	AVMB	-128.93	2-11-92	--	-128.93	1992	-134.68	1982	U	1972,1977,1982,1986,1992
02S.32E.28.42444	AVMB	-29.41	2-11-92	--	-29.41	1992	-31.30	1982	S	1982,1986,1992

Table 17.--Well location and water-level data for selected wells in the Portales monitoring area, Roosevelt County, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
02S.32E.35.13421	AVMB	-39.28	2-11-92	--	-39.28	1992	-42.00	1956	S	1956,1961-64,1967,1977,1982,1986, 1992
02S.32E.36.21423	AVMB	-3.87	2-11-92	--	-3.87	1992	-7.27	1977	S	1977,1982,1986,1992
02S.33E.05.113113	AVMB	-71.91	1-06-92	--	-49.87	1945	-75.55	1982	I	1945,1947-51,1953-83,1985-86,1988-92
02S.33E.12.44440	AVMB	-30.97	3-10-92	--	-30.97	1992	-41.77	1956	U	1956,1961-62,1967,1971,1977,1982, 1986,1992
02S.34E.04.11121	AVMB	-69.34	1-06-92	+2.92	-24.70	1950	-74.12	1981	I	1950-54,1956-92
02S.34E.06.112211	AVMB	-81.81	1-06-92	+3.40	-53.34	1958	-87.47	1981	I	1958-79,1981-83,1986-88,1990-92
02S.34E.10.41313	AVMB	-67.32	3-11-92	+3.38	-67.24	1974	-75.33	1983	I	1974-84,1987,1992
02S.34E.19.24400	AVMB	-42.56	3-10-92	+2.27	-42.56	1992	-51.78	1962	H	1962,1967,1971,1982,1987,1992
02S.35E.05.34111A	AVMB	-79.53	1-07-92	+3.04	-68.01	1966	-86.34	1981	I	1966-81,1985-92
02S.35E.07.11330	AVMB	-68.08	1-07-92	+3.79	-33.03	1954	-76.80	1981	I	1954-83,1985-89,1991-92
02S.35E.09.211121	AVMB	-71.38	1-07-92	+1.42	-56.55	1972	-74.70	1988	I	1971-79,1981-90,1992
02S.35E.14.221	AVMB	-64.00	1-07-92	-7.15	-54.44	1985	-64.00	1992	I	1985-92
02S.35E.18.11111A	AVMB	-54.65	1-07-92	+4.10	-41.52	1964	-62.84	1978	I	1964,1966,1968-92
02S.35E.19.143334	AVMB	-49.40	1-07-92	+1.34	-25.87	1950	-80.23	1986	I	1946-92
02S.35E.21.33433	AVMB	-52.57	1-07-92	+0.53	-52.25	1991	-59.05	1981	I	1974-92
02S.35E.23.11113	AVMB	-50.22	1-07-92	+1.68	-21.32	1951	-51.90	1987	I	1949-89,1991-92
02S.35E.32.43333	AVMB	-101.48	1-07-92	+0.70	-98.92	1956	-107.21	1971	I	1956,1961-92
02S.36E.07.332411	AVMB	-67.73	1-07-92	-8.57	-15.02	1950	-67.73	1992	I	1944-92
02S.36E.14.311111	AVMB	-69.30	1-07-92	--	-36.37	1975	-74.16	1992	I	1975-85,1988-92
02S.36E.14.312222	AVMB	-69.30	1-07-92	-3.33	-21.59	1963	-69.96	1991	I	1963-74,1982-92
02S.36E.19.133111	AVMB	-62.74	1-07-92	-1.74	-52.90	1980	-62.74	1992	I	1980-92
02S.36E.19.44221	AVMB	-52.16	1-07-92	-2.76	-47.20	1981	-52.16	1992	I	1979,1981-92
02S.36E.25.112233A	AVMB	-78.57	1-07-92	--	-55.83	1978	-78.57	1992	I	1978-82,1988-92
02S.36E.27.11113A	AVMB	-59.33	1-07-92	+0.07	-56.05	1989	-60.38	1984	I	1979,1981-85,1987,1989,1991-92
02S.36E.30.31313	AVMB	-46.28	3-11-92	-1.18	-42.96	1982	-46.28	1992	I	1982,1987,1992
02S.36E.33.221	AVMB	-47.92	1-07-92	--	-44.53	1989	-47.92	1992	U	1985,1989-92
02S.36E.33.41141	AVMB	-41.58	3-11-92	-0.94	-38.12	1982	-41.58	1992	I	1982,1987,1992
02S.36E.35.21211B	AVMB	-46.57	1-06-92	+2.46	-18.41	1957	-49.03	1987	I	1956-68,1970-89,1991-92
02S.37E.07.41311	AVMB	-108.14	1-07-92	-10.01	-81.98	1980	-108.14	1992	I	1980-81,1983-92
02S.37E.15.212142	AVMB	-71.20	1-07-92	-3.80	-63.17	1981	-71.20	1992	I	1980-85,1987-92
02S.37E.17.321	AVMB	-107.58	1-07-92	-11.08	-94.69	1985	-107.58	1992	I	1985-92
02S.37E.21.31212	AVMB	-82.14	1-06-92	-7.66	-16.76	1955	-82.14	1992	I	1954-76,1978-83,1985-87,1989,1991-92
02S.37E.28.111	OGLL	-71.24	1-07-92	-7.05	-62.57	1986	-71.24	1992	I	1985-92
02S.37E.30.11112	AVMB	-85.09	1-07-92	-2.57	-58.04	1978	-85.56	1991	I	1978-85,1987-92
02S.37E.31.11111	AVMB	-46.38	1-07-92	-3.38	-13.32	1955	-46.38	1992	I	1953-58,1960-62,1964-66,1968-92

Table 17.--Well location and water-level data for selected wells in the Portales monitoring area, Roosevelt County, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
03S.32E.13.342111	AVMB	-39.42	2-21-92	--	-39.42	1992	-49.27	1977	S	1967,1972,1977,1982,1986,1992
03S.33E.01.34422	AVMB	-48.45P	3-10-92	--	-54.03	1986	-60.21	1977	S	1977,1982,1986,1992
03S.33E.05.42222A	AVMB	-87.33	3-10-92	--	-87.33	1992	-105.19	1972	U	1972,1977,1982,1986,1992
03S.35E.06.13443	AVMB	-139.15	1-07-92	+9.65	-138.53	1991	-148.80	1987	I	1959-82,1985-87,1989-92

Mimbres Basin Monitoring Area

The Mimbres Basin monitoring area includes most of Luna County and parts of Grant, Doña Ana, and Sierra Counties, in southwestern New Mexico. Not all water-level changes are shown on the map; however, all well locations and water-level data are listed in the table. Well locations worked with an asterisk (*) in the table are plotted on the map.

Water-level declines range from less than 1 foot to more than 30 feet. Water-level rises range from less than 1 to more than 23 feet. Water-level data indicate declines south of Deming in parts of Tps. 25 and 26 S. and Rs. 8 through 11 W. Declines are shown around Columbus in all or parts of Tps. 26 through 29 S. and Rs. 8 through 10 W. and in T. 17 S. and parts of Rs. 10 and 11 W. Most water-level changes in the remainder of the monitoring area are rises.

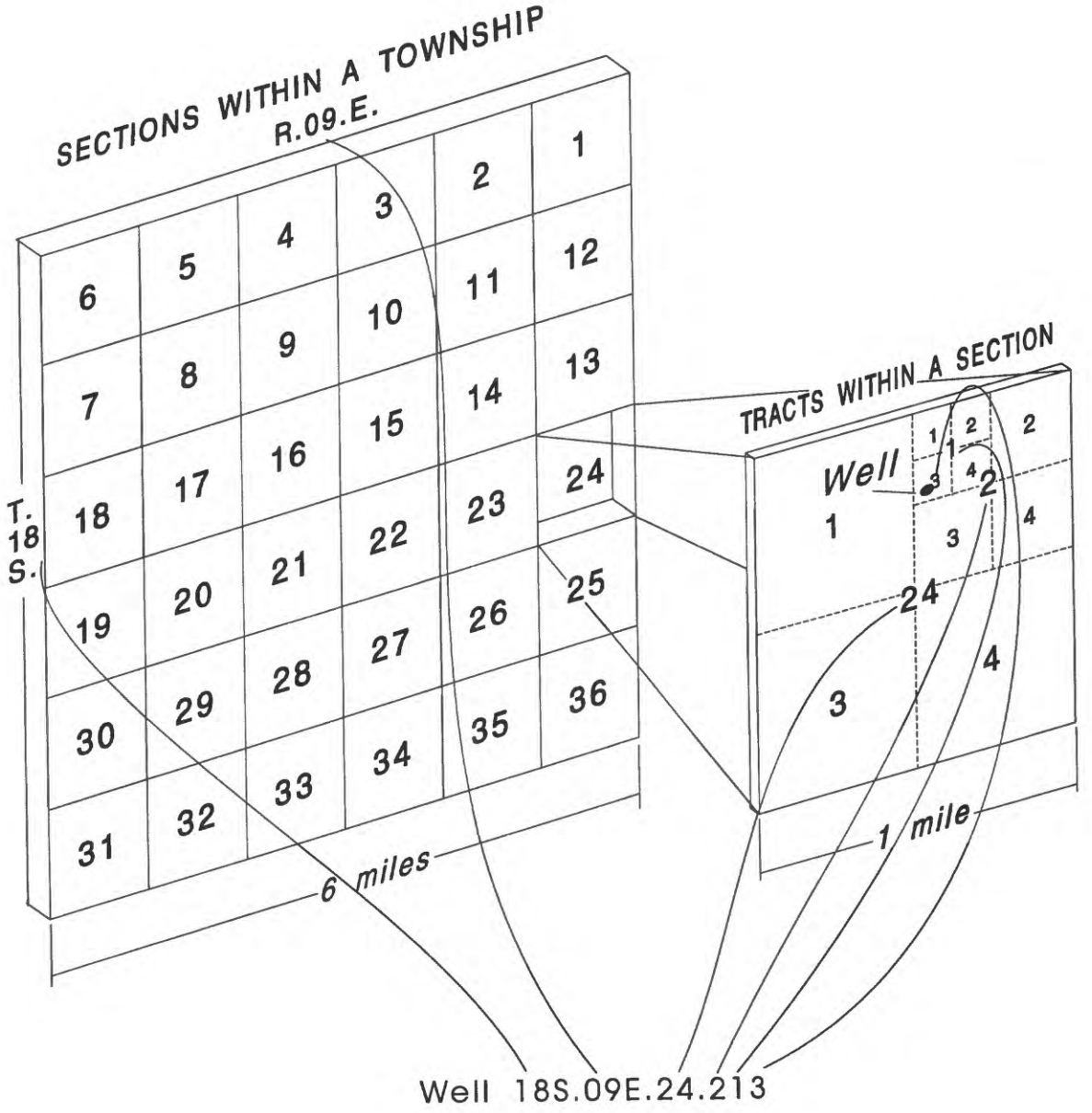


Figure 3.--Well-numbering system used in New Mexico.

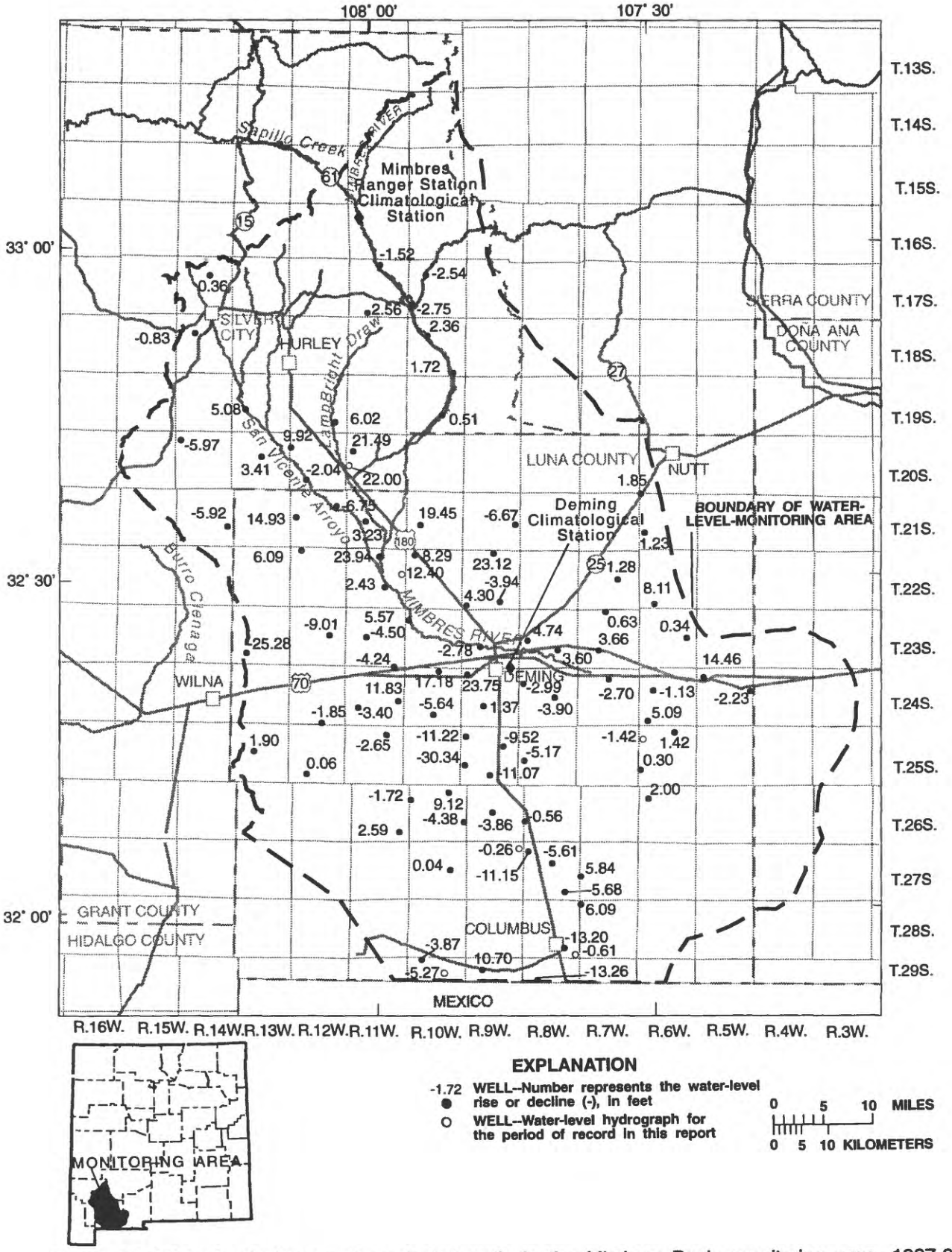


Figure 37.--Water-level changes for selected wells in the Mimbres Basin monitoring area, 1987-92.

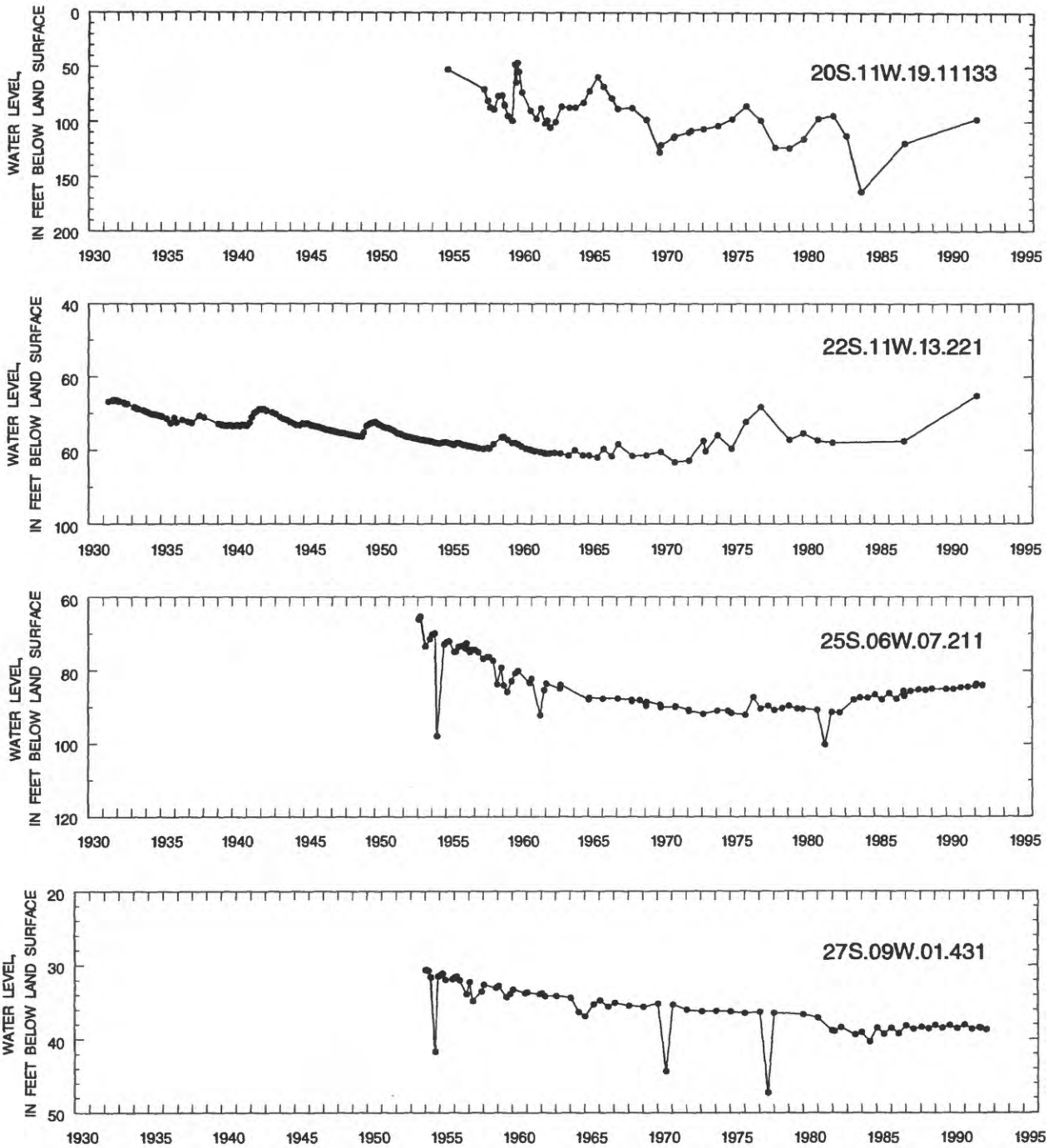


Figure 38.--Water-level data for selected wells in the Mimbres Basin monitoring area and annual precipitation at the Mimbres Ranger Station and Deming Climatological Stations. See figure 37 for location of wells and stations.

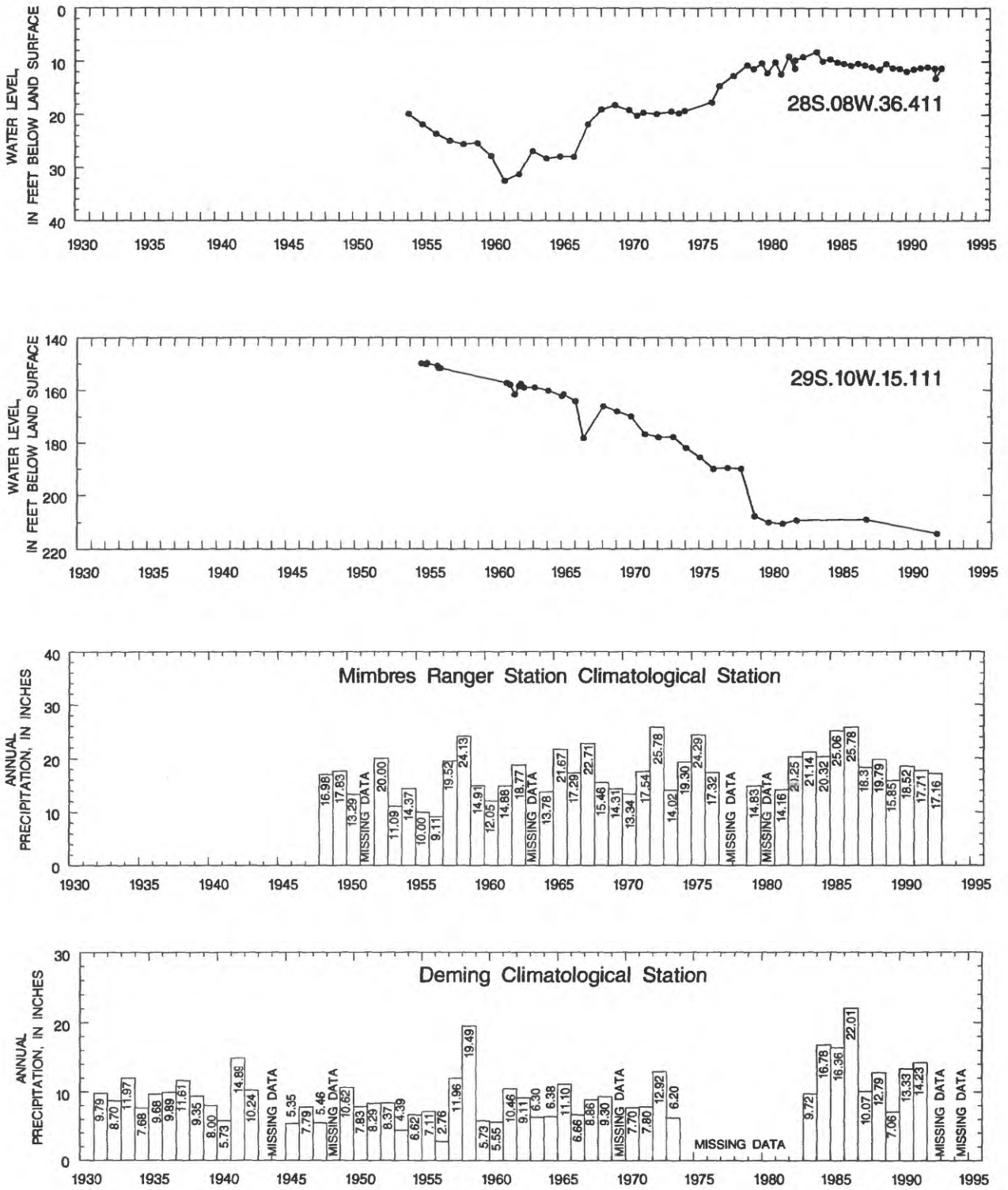


Figure 38.--Water-level data for selected wells in the Mimbres Basin monitoring area and annual precipitation at the Mimbres Ranger Station and Deming Climatological Stations. See figure 37 for location of wells and stations--Concluded.

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico

[*, well location and change data are plotted on the corresponding map. Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; BLSN, bolson fill; GILA, Gila Conglomerate (Group). Winter water level, site status: P, pumping; S, nearby pumping. Use of water: H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
16S.11W.08.313	--	-5.02	1-03-92	--	-1.28	1974	-5.02	1992	I	1974,1982,1992
*17S.10W.08.42431	--	-28.14	1-03-92	-2.54	-25.60	1987	-150.55	1957	U	1957,1980-84,1987,1992
17S.10W.19.441	--	-19.38	1-03-92	-0.28	-19.00	1984	-40.07	1957	I	1957,1980-84,1987,1992
*17S.10W.30.31333	--	-52.95	1-03-92	-2.75	-50.20	1987	-58.62	1982	I	1956,1968,1981-84,1987,1992
17S.10W.32.331	--	-46.45	1-03-92	--	-46.45	1992	-50.82	1957	S	1957,1980-84,1987,1992
*17S.11W.04.424	--	-26.92	1-03-92	-1.52	-24.29	1979	-26.92	1992	I	1979,1982,1987,1992
*17S.11W.32.423	--	-9.32	1-06-92	+2.56	-5.24	1983	-62.47	1957	S	1957,1980-81,1983,1987,1992
*17S.14W.10.433A	--	-9.94	1-02-92	+0.36	-9.94	1992	-27.32	1981	U	1981-82,1987,1992
17S.14W.28.23A	--	-14.90	2-14-92	--	-14.90	1992	-21.55	1964	U	1964,1982,1992
18S.10W.06.443	--	-149.41	1-03-92	+0.89	-149.32	1980	-155.79	1957	S	1957,1980-84,1987,1992
*18S.10W.16.111A	--	-5.75	1-06-92	+2.36	-5.75	1992	-8.13	1982	I	1977,1979,1982,1987,1992
*18S.10W.35.432	--	-2.36	1-06-92	+1.72	-0.94	1980	-8.34	1957	I	1957,1980-84,1987,1992
18S.13W.04.433A	GILA	-18.62	1-03-92	--	-12.39	1982	-18.62	1992	I	1975-77,1982,1992
18S.13W.11.212	--	-2.20	2-14-92	--	-2.20	1992	-48.28	1980	I	1980,1982,1992
*18S.14W.16.111	--	-6.08	1-02-92	-0.83	-5.25	1987	-9.90	1981	H	1981-82,1987,1992
18S.14W.24.310	--	-18.60	2-14-92	--	-18.60	1992	-24.79	1982	H	1976-77,1981-82,1992
18S.14W.25.111	--	-18.40	2-14-92	--	-18.40	1992	-37.15	1982	U	1982,1992
18S.14W.28.12434	GILA	-44.69	1-02-92	--	-44.69	1992	-172.94	1954	S	1954,1977,1982,1992
18S.14W.28.143B	--	-380.39S	1-07-92	--	-268.84	1986	-379.89	1992	U	1984-92
18S.14W.28.443	--	-251.58	1-02-92	--	-108.72	1970	-251.58	1992	H	1970,1981-82,1992
18S.14W.30.32411	GILA	-459.31	1-02-92	--	-300.26	1954	-459.31	1992	P	1954-62,1964-67,1970-84,1992
19S.10W.14.124	--	-9.90	1-06-92	+1.40	-9.90	1992	-17.90	1984	I	1957,1961-62,1979-84,1987,1992
*19S.10W.27.21144	--	-5.64	1-06-92	+0.51	-5.02	1980	-8.67	1982	I	1979-84,1987,1992
*19S.12W.26.43433	--	-152.33	1-23-92	+6.02	-152.33	1992	-176.32	1973	S	1955,1973,1982,1987,1992
19S.13W.05.320	--	-238.33	1-09-92	--	-176.62	1976	-238.33	1992	S	1976-77,1980-82,1992
19S.13W.18.14142	--	-68.76	1-09-92	--	-64.60	1954	-83.83	1977	S	1954,1977,1982,1992
19S.13W.18.243	--	-57.47	1-09-92	--	-48.02	1968	-78.66	1954	I	1954,1968,1970,1977,1982,1992
*19S.13W.20.341A	--	-91.62	1-09-92	+5.08	-91.62	1992	-96.70	1987	U	1982,1987,1992
19S.13W.29.421	--	-91.97	1-09-92	+10.03	-91.97	1992	-147.20	1954	U	1954-81,1983-84,1987,1992
19S.13W.34.422	--	-90.42	1-06-92	+2.78	-90.42	1992	-106.69	1970	S	1970,1973,1976-77,1982,1987,1992
20S.07W.31.311	--	-354.52	1-08-92	--	-354.52	1992	-354.52	1992	S	1982,1992
20S.10W.05.243B	--	-5.40	2-19-92	--	-5.40	1992	-10.01	1964	I	1964,1982,1992
20S.10W.06.444	--	-10.64P	1-07-92	--	-10.30	1962	-19.68	1961	S	1961-63,1965,1968,1982,1992
20S.10W.07.331	--	-9.74	2-19-92	--	-8.40	1982	-14.48	1961	S	1961-63,1965,1968,1982,1992
20S.10W.16.141	--	-33.71P	1-07-92	--	-27.48	1972	-31.03	1971	S	1971-72,1982,1992
20S.10W.18.121	--	-12.99	1-07-92	--	-11.39	1982	-13.96	1963	S	1963,1982,1992
20S.11W.07.31212	--	-95.00	1-23-92	--	-77.85	1955	-106.69	1970	I	1955,1957,1959,1970,1977,1982,1992
*20S.11W.07.43332	--	-88.31	1-14-92	+21.49	-57.93	1953	-109.80	1987	U	1953,1955,1969-70,1972,1977,1982, 1987,1992
20S.11W.07.44442	--	-86.48	1-14-92	+11.97	-63.91	1955	-98.45	1987	U	1955,1957,1969-70,1972-73,1977,1982, 1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*20S.11W.19.11133	--	-97.50	1-14-92	+22.00	-46.16	1959	-163.60	1984	U	1955,1957-84,1987,1992
20S.11W.28.410	--	-237.78	1-24-92	--	-153.72	1969	-237.78	1992	U	1969-70,1972,1977,1982,1992
20S.11W.29.113	--	-198.85	1-14-92	-1.76	-166.33	1968	-198.85	1992	U	1968-70,1972,1982,1987,1992
20S.12W.01.121	--	-139.01	1-23-92	+6.29	-139.01	1992	-156.47	1973	U	1969,1972-73,1977,1982,1987,1992
*20S.12W.07.31134A	--	-137.48	1-17-92	+9.92	-137.48	1992	-149.07	1982	S	1955,1968,1970,1972,1982,1987,1992
20S.12W.09.13333	--	-91.76	1-14-92	--	-91.76	1992	-118.61	1972	S	1955,1968,1970-73,1982,1987,1992
20S.12W.13.224	--	-74.03	1-23-92	+23.22	-73.37	1973	-97.25	1987	I	1969-70,1972-73,1977,1982,1987,1992
20S.12W.14.221	--	-54.87	1-23-92	+5.61	-54.87	1992	-80.67	1972	U	1959,1969-70,1972-73,1977,1982,1987, 1992
20S.12W.15.12122	--	-26.11	1-14-92	--	-26.11	1992	-50.44	1955	S	1955,1982,1987,1992
*20S.12W.29.443	--	-60.19	1-09-92	-2.04	-47.67	1969	-60.19	1992	U	1969-70,1972-73,1977,1982,1987,1992
20S.12W.33.414	--	-79.03	1-17-92	-3.63	-56.07	1969	-79.03	1992	U	1969-70,1972-73,1977,1982,1987,1992
20S.13W.13.422	--	-99.69	1-09-92	--	-99.69	1992	-174.45	1980	S	1980,1982,1992
*20S.13W.15.31341	--	-165.14	1-17-92	+3.41	-165.14	1992	-170.20	1955	S	1955,1972,1977,1982,1987,1992
20S.13W.19.134	--	-374.25	1-16-92	--	-290.60	1980	-399.76	1955	S	1955,1980-82,1987,1992
20S.13W.23.44442	--	-166.50	1-17-92	+6.75	-157.97	1955	-173.25	1987	S	1955,1970,1982,1987,1992
20S.13W.28.124	--	-194.96	1-16-92	+5.49	-194.96	1992	-208.08	1982	S	1980-82,1987,1992
20S.13W.33.3244	--	-142.58P	1-28-92	--	-142.90	1976	-145.52	1982	S	1976,1982,1992
*20S.14W.06.433A	--	-323.57	1-16-92	-5.97	-316.30	1983	-323.57	1992	S	1980-83,1987,1992
20S.14W.18.113	--	-3.92	1-16-92	+2.28	-3.92	1992	-17.34	1955	S	1955,1980-82,1987,1992
20S.14W.30.124	--	-3.30	1-16-92	--	-3.30	1992	-44.79	1954	S	1954,1970,1977,1980-82,1987,1992
*21S.06W.06.11332	--	-273.46	1-27-92	+1.85	-270.10	1984	-275.31	1987	S	1970-71,1973,1975,1982-84,1987,1992
*21S.06W.30.21332	--	-162.57	1-08-92	+1.23	-152.71	1963	-163.80	1987	S	1961-71,1982,1987,1992
*21S.09W.24.14242	--	-41.69	1-08-92	-6.67	-35.02	1987	-88.94	1982	S	1971-72,1977,1982,1987,1992
*21S.10W.20.41112	--	-96.32	1-07-92	+19.45	-96.32	1992	-115.77	1987	S	1956,1987,1992
21S.10W.20.433	--	-101.59	1-07-92	+16.91	-101.59	1992	-118.50	1987	I	1955,1970,1982,1987,1992
21S.10W.30.33332	AVMB	-40.77	1-07-92	+25.21	-40.77	1992	-68.07	1962	I	1953-65,1968-70,1972,1977,1982,1987, 1992
*21S.11W.20.214	--	-64.65	1-17-92	+3.23	-64.65	1992	-67.88	1987	I	1982,1987,1992
21S.11W.28.11422	--	-49.57	1-17-92	+2.14	-49.57	1992	-53.63	1958	S	1953-65,1968-70,1972,1982,1987,1992
21S.11W.33.44222	--	-30.97	1-24-92	--	-30.97	1992	-48.92	1965	H	1953-65,1968-70,1972,1992
21S.11W.35.310	AVMB	-8.00	1-27-92	+22.05	-8.00	1992	-42.15	1965	U	1931-77,1979-82,1987,1992
21S.12W.08.42224	AVMB	-195.40	2-14-92	-6.70	-167.09	1970	-195.40	1992	S	1970,1972-73,1977,1982,1987,1992
*21S.12W.11.41111	--	-107.68	1-17-92	-6.75	-77.49	1950	-107.68	1992	I	1950,1952,1954,1982,1987,1992
21S.12W.12.44444	AVMB	-89.21	1-17-92	-8.29	-68.74	1957	-89.21	1992	I	1957-58,1973,1977,1982,1987,1992
21S.12W.13.111	AVMB	-130.45	1-17-92	-9.15	-110.10	1979	-130.45	1992	U	1969-70,1972-77,1979-82,1987,1992
21S.12W.13.234	--	-110.76	1-17-92	+0.04	-99.75	1982	-110.80	1987	N	1969-70,1972-73,1982,1987,1992
*21S.12W.18.43313	AVMB	-197.17	1-28-92	+14.93	-189.58	1970	-212.10	1987	I	1970,1972,1977,1982,1987,1992
21S.12W.25.222	AVMB	-121.29	1-24-92	+3.88	-113.76	1970	-126.32	1974	U	1969-70,1973-77,1979-82,1987,1992
21S.12W.25.241	AVMB	-131.19	1-24-92	-10.86	-113.62	1969	-131.19	1992	N	1969-70,1973,1977,1982,1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
21S.13W.24.44442	--	-133.35	1-28-92	+19.36	-88.00	1939	-152.71	1987	S	1939,1970,1982,1987,1992
21S.14W.05.240	--	-5.42P	1-16-92	--	-5.90	1987	-19.60	1970	S	1970,1973,1975,1977,1982,1987,1992
21S.14W.08.122	--	-9.56	1-16-92	--	-9.56	1992	-14.06	1982	S	1980,1982,1992
21S.14W.16.41243	--	-10.01	1-16-92	--	-10.01	1992	-36.18	1972	S	1968,1970,1972,1982,1992
*21S.14W.24.343	--	-127.52	1-16-92	-5.92	-121.12	1968	-127.52	1992	I	1968,1970,1973,1975,1977,1980-84, 1987,1992
21S.14W.25.342A	--	-74.48	1-16-92	--	-72.82	1970	-77.20	1977	S	1968,1970,1973,1975,1977,1980-84, 1987,1992
*22S.06W.32.411	--	-89.77	1-29-92	+8.11	-89.75	1961	-97.88	1987	S	1961,1964-70,1982,1987,1992
22S.07W.02.14131	--	-218.23	1-08-92	--	-207.58	1963	-218.23	1992	S	1961-65,1967-71,1982,1987,1992
*22S.07W.22.221	AVMB	-163.04	1-08-92	+1.28	-162.06	1974	-167.70	1992	I	1974-76,1978-81,1983-84,1987,1992
22S.07W.31.344	AVMB	-135.52	1-08-92	--	-127.41	1980	-136.90	1984	S	1970-71,1973-78,1980-84,1987,1992
22S.07W.34.311	AVMB	-140.20	1-28-92	--	-135.66	1961	-144.32	1972	S	1961-66,1968-70,1972-81,1983,1987, 1992
22S.08W.06.41334	AVMB	-36.76P	1-08-92	--	-23.20	1971	-47.02	1971	S	1971,1973,1977,1982,1987,1992
*22S.09W.03.141	--	-21.68	1-07-92	+23.12	-21.68	1992	-44.80	1987	S	1982,1987,1992
22S.09W.29.41244	--	-216.93	1-07-92	--	-191.60	1958	-242.81	1968	S	1953-65,1967-69,1982,1987,1992
*22S.09W.31.322	AVMB	-142.52	1-17-92	+4.30	-128.83	1961	-289.10	1989	I	1957,1961-66,1968-69,1971-74,1976-82,1987,1989,1992
*22S.09W.34.242A	--	-233.31	1-07-92	-3.94	-226.40	1982	-233.31	1992	I	1982,1987,1992
22S.09W.34.434	AVMB	-202.74	1-07-92	-6.44	-174.06	1959	-202.74	1992	I	1959-69,1971-77,1979-82,1987,1992
*22S.10W.06.422	--	-55.02	1-17-92	+8.29	-55.02	1992	-67.24	1970	S	1968-70,1972,1982,1987,1992
22S.10W.18.222	--	-72.52	1-27-92	+1.38	-72.52	1992	-76.27	1982	I	1970,1972,1982,1987,1992
22S.10W.33.42311	--	-55.88	1-27-92	+12.62	-55.88	1992	-78.72	1957	U	1953-54,1957,1982,1987,1992
22S.11W.02.210	AVMB	-12.25	1-27-92	+27.02	-12.25	1992	-48.49	1972	U	1931-77,1979-82,1987,1992
*22S.11W.03.310	--	-19.03	1-24-92	+23.94	-19.03	1992	-42.97	1987	S	1982,1987,1992
22S.11W.11.22222	--	-28.52	1-27-92	+16.98	-28.52	1992	-54.02	1972	S	1970,1972-73,1982,1987,1992
22S.11W.13.122	AVMB	-59.50	1-27-92	+16.91	-58.39	1931	-80.55	1972	U	1931-76,1979-82,1987,1992
*22S.11W.13.221	AVMB	-65.12	1-27-92	+12.40	-65.12	1992	-83.29	1971	U	1931-77,1979-82,1987,1992
22S.11W.15.12411	--	-26.05	1-27-92	+12.35	-26.05	1992	-50.70	1955	S	1954-55,1970,1972-73,1982,1987,1992
*22S.11W.22.44414	--	-80.90	2-14-92	+2.43	-80.90	1992	-84.09	1982	S	1970,1972-73,1982,1987,1992
22S.11W.23.222	AVMB	-43.57	1-27-92	+8.73	-43.57	1992	-64.84	1973	U	1930-73,1975-77,1979-82,1987,1992
22S.11W.24.133	--	-56.38	1-27-92	+3.15	-56.38	1992	-63.24	1972	S	1954,1970,1972-73,1982,1987,1992
22S.11W.36.242	--	-28.37	1-27-92	+17.53	-28.37	1992	-53.19	1972	S	1970,1972-73,1982,1987,1992
*22S.12W.05.11344	--	-38.01	1-28-92	+6.09	-38.01	1992	-44.10	1987	S	1939,1987,1992
23S.06W.08.222	AVMB	-113.53	1-29-92	-1.20	-104.00	1942	-130.31	1965	H	1942,1961,1963-68,1971,1973,1987, 1992
*23S.06W.23.222A	--	-92.56	1-29-92	+0.34	-87.98	1962	-93.88	1982	S	1962,1982,1987,1992
23S.06W.28.244	BLSN	-92.19	1-29-92	-2.12	-78.44	1958	-92.19	1992	S	1954,1956-58,1962-68,1982,1987,1992
23S.07W.01.122	--	-118.17	1-29-92	-1.87	-114.98	1973	-118.17	1992	S	1972-73,1982,1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*23S.07W.04.122	AVMB	-137.95	1-28-92	+0.63	-134.35	1977	-146.98	1972	S	1970-72,1974-79,1981,1983-84,1987, 1992
23S.07W.14.230	--	-107.93	1-29-92	-15.43	-91.95	1982	-107.93	1992	S	1982,1987,1992
*23S.07W.29.241	--	-79.05	1-30-92	+3.66	-77.92	1973	-82.71	1987	S	1972-73,1975,1982,1987,1992
23S.07W.31.112	--	-73.76	1-30-92	+7.27	-73.76	1992	-84.76	1982	I	1982,1987,1992
23S.07W.33.211	AVMB	-72.49	1-30-92	+7.66	-0.67	1948	-81.91	1982	S	1940,1943-64,1967,1970-71,1982,1987, 1992
*23S.08W.19.210	--	-87.44	1-29-92	-4.74	-82.70	1987	-87.44	1992	S	1982,1987,1992
*23S.08W.26.131	AVMB	-57.17	1-30-92	+3.60	-49.04	1953	-96.08	1959	I	1950-66,1970-77,1979-82,1987,1992
23S.08W.33.143	--	-69.80	2-04-92	+0.31	-68.45	1982	-70.11	1987	H	1982,1987,1992
23S.08W.33.212	AVMB	-57.57	1-30-92	+4.48	-53.72	1959	-68.08	1971	I	1956-77,1979-82,1987,1992
23S.08W.34.211	AVMB	-35.84	1-30-92	+19.96	-28.98	1931	-90.88	1963	I	1931-74,1976-77,1979-82,1987,1992
23S.08W.35.233	AVMB	-52.01	1-30-92	+8.09	-51.94	1963	-149.90	1957	I	1957,1960-61,1963-67,1969,1971-77, 1979-82,1987,1992
23S.09W.07.240	AVMB	-115.04	2-04-92	+6.36	-97.06	1940	-124.79	1970	U	1940-77,1979-82,1987,1992
23S.09W.14.133	AVMB	-106.12	2-04-92	-3.22	-89.62	1967	-106.12	1992	S	1967,1970-71,1977,1982,1987,1992
*23S.09W.20.444	--	-110.88	1-31-92	-2.78	-108.10	1987	-110.88	1992	U	1982,1987,1992
23S.09W.30.111	--	-106.55	1-31-92	+4.57	-106.55	1992	-115.34	1973	I	1973,1982,1987,1992
23S.09W.31.110	AVMB	-132.67	1-31-92	-5.50	-75.38	1940	-132.67	1992	I	1940-60,1962-69,1971-76,1979-82, 1987,1992
*23S.10W.07.131	--	-100.76	1-28-92	+5.57	-100.76	1992	-111.69	1972	S	1972,1982,1987,1992
23S.10W.25.242	AVMB	-110.85	1-31-92	+3.26	-82.84	1947	-120.66	1981	I	1947-70,1972-76,1979-82,1987,1992
23S.10W.25.411A	--	-110.45	1-31-92	+5.76	-110.45	1992	-120.93	1982	I	1982,1987,1992
*23S.11W.21.111	--	-187.69	1-28-92	-4.50	-181.81	1974	-188.78	1982	S	1974,1982,1987,1992
*23S.12W.14.330	--	-217.51	1-13-92	-9.01	-208.50	1987	-217.51	1992	S	1982,1987,1992
23S.13W.09.23133	--	-384.29	1-13-92	--	-384.29	1992	-388.59	1955	S	1939,1955,1971,1992
*23S.13W.29.340	--	-267.05	1-13-92	-25.28	-240.80	1982	-317.67	1971	S	1971,1982,1987,1992
24S.05W.06.331	--	-90.63	1-29-92	--	-87.42	1955	-101.83	1973	I	1955,1957,1959,1962-64,1966-73,1982, 1992
*24S.05W.07.111	AVMB	-91.20	1-29-92	+14.46	-91.09	1971	-134.80	1981	I	1966,1971,1974-77,1979-82,1987,1992
24S.05W.07.230	--	-104.85	2-17-92	-0.67	-104.18	1987	-118.47	1982	U	1971,1982,1987,1992
*24S.05W.12.444	--	-125.00	2-07-92	-2.23	-122.77	1987	-153.00	1939	S	1939,1973,1982,1987,1992
24S.05W.18.422	--	-95.20	2-07-92	--	-95.20	1992	-95.20	1992	S	1982,1987,1992
24S.05W.23.444	--	-114.85P	2-07-92	--	-109.84	1973	-120.00	1942	S	1942,1973,1982,1987,1992
24S.06W.07.111	--	-75.06	1-30-92	--	-74.57	1982	-75.06	1992	U	1982,1992
24S.06W.13.222	--	-85.77	2-07-92	+9.43	-85.77	1992	-98.87	1982	S	1973,1982,1987,1992
24S.06W.14.312	--	-48.62	2-07-92	-13.32	-35.30	1987	-63.41	1975	S	1970,1974-76,1982,1987,1992
*24S.06W.17.140	--	-66.30	1-30-92	-1.13	-65.17	1987	-66.30	1992	S	1982,1987,1992
24S.06W.19.144	--	-84.20	2-17-92	--	-82.74	1982	-84.68	1971	H	1971,1982,1992
24S.06W.29.333	AVMB	-86.76	1-30-92	+10.01	-66.89	1941	-96.77	1987	U	1940-41,1943-48,1950-58,1971,1982, 1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	High Year	Low (feet)	Low Year	Use of water	Years of record
*24S.06W.31.422	--	-92.94	1-30-92	+5.09	-92.94	1992	-102.26	1971	S	1971,1982,1987,1992
24S.07W.09.111A	AVMB	-81.76	1-06-92	+7.40	-0.37	1946	-94.66	1951	I	1946-82,1985-92
*24S.07W.09.241B	--	-58.44	1-30-92	-2.70	-53.34	1982	-58.44	1992	I	1982,1987,1992
24S.07W.10.111	AVMB	-87.26	1-30-92	+0.84	-17.53	1946	-115.78	1940	I	1940-51,1953,1961-82,1987,1992
24S.07W.11.111	AVMB	-86.99	1-30-92	-1.74	-0.83	1941	-101.36	1981	I	1939-61,1963-78,1980-82,1987,1992
24S.07W.12.111	AVMB	-89.67	1-30-92	+3.23	-86.17	1960	-134.00	1957	I	1955-82,1987,1992
24S.07W.13.111B	--	-83.99	1-30-92	+1.31	-83.99	1992	-85.30	1987	I	1982,1987,1992
24S.07W.13.212A	AVMB	-85.30	1-30-92	+2.60	-65.60	1952	-94.63	1982	I	1952,1954-82,1987,1992
24S.07W.13.311	AVMB	-97.99	1-30-92	-22.79	-69.97	1939	-104.04	1982	I	1939-63,1965-67,1971-74,1976-78, 1980-82,1987,1992
24S.07W.13.333	--	-94.72	1-30-92	+0.48	-86.34	1958	-100.65	1982	I	1955,1957-58,1982,1987,1992
24S.07W.14.12111	--	-82.88	1-30-92	+2.16	-82.88	1992	-96.84	1973	I	1958-59,1972-73,1982,1987,1992
24S.07W.14.311	--	-95.35	1-30-92	-0.55	-88.27	1959	-99.92	1982	I	1955,1957-59,1964,1982,1987,1992
24S.07W.14.331	AVMB	-89.48	1-30-92	+5.70	-76.08	1949	-101.07	1981	I	1940-65,1968-82,1987,1992
24S.07W.15.111	--	-86.93	1-30-92	--	-66.99	1931	-86.93	1992	U	1931-35,1992
24S.07W.15.111A	--	-86.93	1-30-92	+11.90	-86.93	1992	-98.83	1987	I	1982,1987,1992
24S.07W.15.121B	--	-92.63	1-30-92	+7.87	-92.63	1992	-102.44	1982	I	1982,1987,1992
24S.07W.15.13334	--	-93.35	1-30-92	+2.63	-83.14	1972	-98.22	1982	I	1971-72,1982,1987,1992
24S.07W.21.222B	AVMB	-85.12	1-30-92	+1.16	-77.90	1966	-88.90	1981	I	1966,1970-82,1987,1992
24S.07W.26.113	AVMB	-94.46	1-30-92	+3.39	-0.84	1967	-97.85	1987	S	1941-48,1951-74,1976,1979-82,1987, 1992
24S.08W.01.334	--	-52.75	2-04-92	-1.95	-50.80	1987	-52.75	1992	I	1982,1987,1992
24S.08W.02.114	--	-65.66	2-04-92	+10.36	-64.72	1970	-93.52	1977	I	1970-71,1977,1981-82,1987,1992
*24S.08W.07.311	AVMB	-97.04	2-04-92	-2.99	-68.90	1954	-97.04	1992	I	1954,1958-74,1976,1979-82,1987,1992
24S.08W.08.121A	AVMB	-86.49	2-04-92	+1.83	-63.46	1960	-88.32	1987	I	1960-76,1979-82,1987,1992
24S.08W.11.122A	--	-71.57	2-04-92	+3.98	-71.57	1992	-78.58	1982	I	1982,1987,1992
*24S.08W.22.212	--	-98.30	2-04-92	-3.90	-71.13	1956	-98.30	1992	I	1956,1972,1982,1987,1992
24S.08W.29.211	AVMB	-116.80	2-05-92	+0.04	-66.58	1960	-116.84	1987	I	1956-57,1960-66,1968,1971-82,1987, 1992
24S.09W.01.222	AVMB	-92.78	2-04-92	+0.09	-51.47	1942	-92.87	1987	P	1942-50,1952-63,1965-68,1970-73, 1982,1987,1992
*24S.09W.06.431A	AVMB	-113.84	2-04-92	+23.75	-104.50	1962	-160.86	1961	I	1961-82,1987,1992
24S.09W.07.331A	AVMB	-118.94	2-04-92	+2.38	-92.85	1953	-129.63	1981	I	1953-60,1962-66,1968-81,1987,1992
24S.09W.08.12121	--	-130.06	2-04-92	--	-130.06	1992	-143.16	1982	I	1982,1992
24S.09W.08.23131	--	-120.56	2-04-92	--	-108.83	1959	-135.74	1982	I	1959,1982,1992
24S.09W.15.221A	AVMB	-123.82	1-06-92	-5.97	-64.65	1948	-123.82	1992	I	1948-82,1986-92
24S.09W.16.13113B	--	-132.93	2-04-92	+4.24	-126.90	1972	-137.17	1987	I	1972,1982,1987,1992
24S.09W.17.31121	--	-131.88	2-04-92	-2.08	-113.45	1959	-143.36	1982	I	1959,1982,1987,1992
24S.09W.18.311	AVMB	-121.22	2-04-92	+6.98	-1.00	1956	-131.30	1967	I	1940-67,1982,1987,1992
24S.09W.22.311	AVMB	-141.94	2-04-92	-1.04	-69.50	1945	-145.15	1981	I	1945-67,1969,1971-82,1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
24S.09W.23.21A	--	-132.99	2-05-92	+0.91	-126.73	1982	-143.63	1977	I	1977,1982,1987,1992
24S.09W.23.322	AVMB	-129.45	2-05-92	+2.50	-2.24	1956	-136.40	1982	I	1955-56,1958-76,1980-82,1987,1992
24S.09W.25.411	--	-119.42	2-05-92	--	-78.26	1955	-123.97	1982	I	1955,1982,1992
*24S.09W.28.12111	--	-147.73	2-04-92	+1.37	-111.89	1959	-184.10	1962	I	1954,1959,1962,1987,1992
24S.09W.29.211	AVMB	-144.62	2-04-92	+1.20	-112.80	1958	-148.46	1982	I	1958-66,1968-76,1978-82,1987,1992
24S.09W.31.121	AVMB	-157.60	2-04-92	-3.23	-109.58	1960	-157.60	1992	I	1960-82,1987,1992
24S.09W.33.113	AVMB	-158.02	2-04-92	-7.02	-110.64	1959	-158.02	1992	I	1959-82,1987,1992
24S.09W.33.21122	--	-153.05	2-04-92	--	-109.88	1959	-153.05	1992	I	1954,1959,1982,1992
24S.09W.34.111	AVMB	-149.17	2-04-92	-8.44	-65.94	1946	-149.17	1992	I	1946-67,1969-70,1972-82,1987,1992
24S.09W.34.11223	--	-149.00	2-04-92	-7.20	-102.48	1959	-149.00	1992	I	1954,1958-59,1982,1987,1992
24S.09W.34.23333	--	-114.25	2-04-92	+1.95	-101.58	1959	-173.60	1959	I	1958-59,1982,1987,1992
24S.09W.35.32112	--	-151.33	2-17-92	-12.28	-88.78	1956	-151.33	1992	I	1954,1956,1959,1982,1987,1992
24S.10W.01.311B	AVMB	-117.15	1-29-92	+0.58	-89.04	1953	-120.91	1981	I	1952-62,1964-65,1968-70,1972-74, 1976-77,1979-82,1987,1992
24S.10W.01.431	--	-116.90	1-29-92	+4.75	-116.90	1992	-121.65	1987	I	1982,1987,1992
*24S.10W.03.411B	AVMB	-114.59	1-29-92	+17.18	-75.33	1942	-131.77	1987	I	1940-76,1979-81,1987,1992
24S.10W.03.412	AVMB	-118.06	1-29-92	+1.04	-92.31	1950	-125.17	1981	I	1949-69,1971,1976,1979-81,1987,1992
24S.10W.12.31112	--	-116.25	1-29-92	--	-114.12	1972	-116.25	1992	I	1952,1957,1972,1992
24S.10W.12.431	AVMB	-100.60	1-29-92	-0.13	-76.66	1939	-113.18	1976	U	1939-90,1992
24S.10W.13.21123	--	-117.60	1-29-92	--	-117.60	1992	-119.17	1972	I	1956,1964,1972,1992
24S.10W.22.211	AVMB	-124.20	1-29-92	+22.43	-69.27	1942	-148.77	1982	I	1941-69,1971-76,1978-82,1987,1992
24S.10W.23.111	AVMB	-123.29	1-29-92	--	-0.76	1947	-147.84	1982	I	1941,1947-64,1982,1992
*24S.10W.27.33313	--	-113.08	1-29-92	-5.64	-95.23	1971	-113.08	1992	S	1971-72,1982,1987,1992
24S.10W.31.22211	--	-110.90	1-30-92	--	-94.92	1971	-110.90	1992	S	1971-72,1982,1992
24S.11W.01.111	--	-155.41	1-13-92	-4.24	-134.56	1959	-157.10	1982	I	1958-59,1961,1982,1987,1992
24S.11W.01.12222	--	-169.37	1-13-92	-6.87	-125.98	1955	-169.37	1992	U	1955,1957,1959-61,1982,1987,1992
24S.11W.01.311	AVMB	-151.20	1-30-92	-3.46	-101.42	1951	-155.34	1981	I	1951-82,1987,1992
24S.11W.06.444	AVMB	-180.12	1-13-92	--	-159.56	1964	-180.12	1992	S	1964-76,1979-82,1992
24S.11W.11.211	AVMB	-159.10	1-30-92	-1.15	-105.48	1951	-167.02	1981	I	1951-82,1987,1992
24S.11W.12.11132	--	-157.77	1-30-92	-3.23	-154.54	1987	-163.12	1982	I	1959,1963,1967,1977,1982,1987,1992
24S.11W.12.211	AVMB	-166.70	1-30-92	-6.90	-150.71	1963	-176.98	1982	I	1963-82,1987,1992
24S.11W.12.342A	--	-162.29	1-30-92	-4.04	-158.25	1987	-200.44	1981	I	1981-82,1987,1992
24S.11W.13.242	--	-145.65	1-30-92	-4.37	-141.28	1987	-145.70	1982	I	1982,1987,1992
24S.11W.13.311	AVMB	-161.39	1-30-92	-1.92	-95.48	1952	-180.85	1981	I	1952-82,1987,1992
24S.11W.14.122	AVMB	-166.72	1-06-92	+2.42	-107.66	1952	-192.46	1983	I	1951-76,1978-92
24S.11W.14.311	AVMB	-157.40	1-30-92	+6.19	-111.93	1954	-172.51	1980	I	1954-76,1980-82,1987,1992
24S.11W.15.312	AVMB	-148.72	1-30-92	+7.67	-110.26	1954	-157.79	1956	I	1954-82,1987,1992
*24S.11W.24.411	AVMB	-152.85	1-30-92	+11.83	-81.85	1952	-164.68	1987	I	1952-82,1987,1992
24S.11W.25.32113	--	-129.60	1-30-92	-3.25	-87.36	1955	-129.60	1992	I	1955-56,1960,1972,1982,1987,1992
24S.11W.26.231	AVMB	-138.78	1-31-92	-3.93	-87.88	1954	-143.65	1981	I	1954-76,1980-82,1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
24S.11W.27.12121	--	-143.90	1-31-92	--	-138.12	1972	-148.97	1982	I	1970,1972,1982,1992
24S.11W.27.22224	--	-146.35	1-31-92	-4.08	-104.90	1957	-146.44	1982	I	1957-58,1960,1972,1982,1987,1992
*24S.11W.29.14121	--	-134.60	1-31-92	-3.40	-122.97	1972	-134.60	1992	U	1970,1972,1982,1987,1992
24S.11W.30.33113	--	-133.09	1-31-92	--	-120.95	1971	-133.09	1992	I	1971-72,1982,1992
24S.11W.32.211	--	-119.57	1-31-92	-0.79	-118.03	1982	-119.57	1992	I	1982,1987,1992
24S.11W.33.222	AVMB	-124.40	1-31-92	-1.96	-92.79	1960	-124.83	1980	I	1960-82,1987,1992
*24S.12W.34.433	AVMB	-145.80	2-04-92	-1.85	-137.31	1976	-146.15	1981	U	1974-77,1979-82,1987,1992
*25S.06W.02.111	AVMB	-21.80	1-06-92	-1.42	-0.45	1953	-117.66	1980	U	1952-92
25S.06W.03.111	AVMB	-26.68	1-30-92	+23.65	-2.22	1952	-98.47	1966	I	1952-82,1987,1992
25S.06W.04.111	AVMB	-86.29	1-30-92	+2.42	-0.78	1952	-103.84	1981	I	1952-82,1987,1992
25S.06W.05.111	AVMB	-90.10	1-30-92	+2.85	-0.88	1955	-118.48	1971	I	1952-82,1987,1992
25S.06W.06.112	--	-93.27	1-30-92	-5.15	-84.37	1957	-105.25	1971	I	1956-58,1965,1968-72,1982,1987,1992
*25S.06W.07.211	AVMB	-84.08	1-06-92	+1.42	-65.34	1953	-100.13	1981	I	1953-92
25S.06W.07.421	--	-74.20	1-30-92	+5.13	-70.57	1953	-83.87	1982	I	1953,1982,1987,1992
25S.06W.08.112	AVMB	-26.20	1-30-92	+8.91	-26.20	1992	-95.55	1979	I	1950-65,1976-79,1982,1987,1992
25S.06W.08.411A	--	-81.62	2-07-92	-10.22	-71.40	1987	-81.62	1992	I	1956,1958,1963-66,1968-72,1982,1987, 1992
25S.06W.09.111	AVMB	-80.09	1-30-92	+2.96	-65.48	1953	-96.36	1974	I	1953-82,1987,1992
25S.06W.09.312	--	-28.16	1-30-92	+45.05	-28.16	1992	-84.87	1982	I	1973-74,1982,1987,1992
25S.06W.11.111	--	-24.24	1-30-92	+22.71	-24.24	1992	-56.90	1982	H	1977,1982,1987,1992
25S.06W.15.212	AVMB	-17.40	2-07-92	+27.93	0.10	1955	-68.32	1976	I	1955,1957-60,1963,1965-73,1976-77, 1979-82,1987,1992
25S.06W.16.111A	AVMB	-70.05	2-07-92	-7.84	-41.80	1976	-78.14	1969	I	1961-77,1979-82,1987,1992
25S.06W.16.231	--	-14.47	2-07-92	+12.30	-14.47	1992	-77.89	1982	I	1974-75,1982,1987,1992
25S.06W.17.111	AVMB	-83.80	2-07-92	-8.98	-0.78	1969	-91.33	1981	I	1953-77,1979-82,1987,1992
25S.06W.20.111	AVMB	-83.60	2-07-92	--	-68.80	1953	-86.77	1953	U	1953-57,1963,1965-66,1968-70,1982, 1992
*25S.06W.30.321	--	-78.50	2-17-92	+0.30	-78.50	1992	-87.36	1971	I	1969-74,1976,1982,1987,1992
25S.07W.01.122	AVMB	-94.52	1-30-92	-4.49	-68.09	1952	-96.82	1980	I	1952-69,1971-77,1979-82,1987,1992
25S.07W.01.13311	--	-85.24	1-30-92	-1.10	-73.70	1956	-85.59	1982	I	1956-58,1963,1965-66,1968-72,1982, 1987,1992
25S.07W.01.144	AVMB	-87.84	1-30-92	+0.09	-73.78	1954	-93.03	1972	I	1953-56,1972,1982,1987,1992
25S.07W.01.212A	--	-96.72	1-30-92	-5.77	-80.91	1955	-99.85	1974	I	1955-56,1973-76,1982,1987,1992
25S.07W.02.444A	AVMB	-83.25	1-30-92	+0.05	-70.85	1952	-85.30	1976	H	1952-76,1979-82,1987,1992
25S.07W.12.211	--	-85.97	1-30-92	-5.00	-73.72	1955	-89.40	1971	I	1955,1965-66,1968-71,1973-75,1982, 1987,1992
25S.08W.07.422	AVMB	-127.97	2-05-92	--	-82.80	1960	-127.97	1992	I	1957,1960-82,1992
*25S.08W.19.331	--	-142.77	2-05-92	-5.17	-134.92	1982	-142.77	1992	H	1982,1987,1992
25S.09W.01.311	--	-151.07	2-05-92	-1.37	-135.30	1982	-151.07	1992	I	1982,1987,1992
25S.09W.05.12114	--	-169.66	2-04-92	-11.29	-106.62	1957	-169.66	1992	I	1957,1959,1982,1987,1992

Land grants in Taos County were sectionized by extension of the Colorado land-grid system into New Mexico. Within the Sangre de Cristo Grant, townships south of the State line have been designated T. 1 S. and T. 2 S., whereas townships north of the State line are designated T. 1 N., T.2 N., and so on.

GROUND-WATER-MONITORING DATA

The ground-water-level monitoring program in New Mexico has two components. Selected wells are equipped with continuous water-level recorders. Data from these wells furnish information about daily and seasonal changes in the water levels. Every 5 years water levels in selected wells in each of the monitoring areas are measured. These data are used to compute the 5-year water-level changes in that particular area and to document long-term trends of water levels.

Continuous Water-Level Data

Locations of wells equipped with continuous recorders, the geologic unit that is the primary water-yielding unit to the well, and the years of record are listed in table 1. Hydrographs of water levels for these wells are shown in figure 4. Some continuous recorders have been in operation for 52 years, whereas others have only been equipped with recorders for 11 years. The hydrographs show either the entire period of record or, if the record exceeds 20 years, the latest 20-year period. Some wells have not had recorders installed for the entire period of record. Measurements made other than with recorders have been included in the hydrographs to present long-term ground-water-level trends.

Five-Year Ground-Water-Level Changes

Thirty-four areas have been designated for ground-water-level monitoring (fig. 1) on a 5-year schedule. Each area was selected because it corresponds roughly to a New Mexico State Engineer designated ground-water basin or is in an area of significant ground-water withdrawals. All measurements in this report are given in feet below or above land surface at the well. Tables of ground-water data are provided for each monitoring area. Included in these tables are well location; geologic unit, which is the primary water-yielding unit for the well; the most recent instantaneous water level measured during 1984 through 1993 and the date of measurement; change in ground-water level during the most recent 5-year period; highest and lowest static water level ever measured in each well and the year of that measurement; use of water withdrawn from the well; and years water-level data were collected for each well.

Several areas have a large amount of data and all data points and associated ground-water-level changes could not be plotted on the map because of size limitations. For these areas a computer program was developed to thin the data presented on the map by selecting well locations and water-level changes at specified distance to be representative of water-level changes in the area. All data, however, are presented in the tables. Wells and ground-water-level changes that were plotted on maps are marked with an asterisk (*) in the tables.

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
25S.09W.05.233A	--	-167.52	2-04-92	-6.58	-160.94	1987	-167.52	1992	I	1982,1987,1992
25S.09W.06.131	AVMB	-159.41	2-04-92	+4.89	-80.80	1953	-164.30	1987	I	1953,1959,1965-82,1987,1992
25S.09W.06.41313	--	-168.14	2-04-92	-5.87	-113.98	1959	-168.14	1992	I	1955,1957,1959,198 2,1987,1992
*25S.09W.07.21133	--	-168.54	2-04-92	-11.22	-108.23	1959	-168.54	1992	I	1954,1957,1959,1982,1987,1992
25S.09W.07.21213	--	-172.39	2-05-92	--	-108.31	1959	-172.39	1992	I	1954-55,1957,1959,1982,1992
25S.09W.08.41333	--	-170.00	2-04-92	-3.40	-125.35	1967	-170.00	1992	I	1967-68,1972,1982,1987,1992
25S.09W.11.111B	--	-162.74	2-05-92	-6.44	-149.22	1977	-162.74	1992	I	1977,1982,1987,1992
25S.09W.11.22111	--	-141.37	2-05-92	+1.97	-107.58	1966	-143.34	1987	I	1966,1982,1987,1992
25S.09W.11.31114	--	-153.29	2-05-92	+5.87	-119.90	1954	-159.16	1987	I	1954,1956,1966,1982,1987,1992
25S.09W.12.11114	--	-140.28	2-05-92	--	-89.91	1959	-140.28	1992	I	1957,1959,1972,1982,1992
25S.09W.12.211	--	-132.65	2-05-92	+12.11	-89.91	1959	-144.76	1987	I	1957,1959,1982,198 7,1992
25S.09W.12.311A	AVMB	-142.40	2-05-92	-2.76	-95.05	1961	-142.40	1992	I	1961-82,1987,1992
*25S.09W.14.111	--	-153.85	2-05-92	-9.52	-144.33	1987	-153.85	1992	I	1982,1987,1992
25S.09W.15.231	AVMB	-159.90	2-05-92	--	-96.25	1958	-159.90	1992	I	1958-82,1992
25S.09W.17.21113	AVMB	-171.33	2-05-92	--	-43.11	1954	-171.33	1992	I	1954,1959,1971,1977,1982,1992
25S.09W.18.21122A	AVMB	-174.06	2-04-92	-9.74	-61.03	1962	-176.53	1982	I	1954,1959,1962,1977,1982,1987,1992
25S.09W.18.211B	--	-156.29	2-04-92	-0.29	-156.00	1987	-177.25	1982	I	1961,1977,1982,1987,1992
25S.09W.18.312A	--	-179.05	2-04-92	-20.95	-156.15	1982	-179.05	1992	I	1982,1987,1992
25S.09W.18.321	--	-178.50	2-04-92	-19.10	-108.77	1959	-178.50	1992	U	1959,1982,1987,1992
25S.09W.18.412	AVMB	-172.30	2-04-92	-5.16	-73.37	1947	-172.30	1992	I	1947-63,1965-70,1972-74,1976-81, 1987,1992
25S.09W.18.43111	--	-185.92	2-04-92	-25.18	-110.07	1959	-185.92	1992	U	1959,1982,1987,1992
25S.09W.19.11114	--	-174.52	2-06-92	--	-95.09	1954	-174.52	1992	I	1954,1959,1992
25S.09W.19.11321	AVMB	-177.16	2-06-92	-24.96	-59.02	1959	-177.16	1992	I	1959,1972,1977,1987,1992
25S.09W.19.21222	AVMB	-176.54	2-06-92	-27.57	-45.07	1953	-176.54	1992	I	1953,1959,1977,1982,1987,1992
25S.09W.19.311A	--	-171.15	2-06-92	-26.92	-117.70	1959	-171.15	1992	I	1959,1982,1987,1992
25S.09W.19.31331	--	-158.72	2-06-92	-16.70	-98.68	1959	-202.80	1992	U	1957,1959,1972,1982,1987,1992
25S.09W.19.42113	--	-180.44	2-06-92	-31.76	-89.70	1953	-180.44	1992	I	1953,1957,1959,1982,1987,1992
25S.09W.19.42224	--	-174.48	2-06-92	-26.78	-137.50	1957	-177.01	1982	I	1957,1972,1982,1987,1992
25S.09W.20.23114	AVMB	-167.83	2-06-92	-12.97	-56.02	1954	-167.83	1992	I	1954,1959,1963-64,1977,1982,1987, 1992
25S.09W.21.111	--	-167.62	2-06-92	-11.16	-156.46	1987	-167.62	1992	I	1982,1987,1992
25S.09W.21.13131	--	-162.26	2-06-92	-8.66	-100.35	1959	-167.27	1982	I	1956-57,1959,1982,1987,1992
25S.09W.21.31113	--	-173.56	2-06-92	-1.27	-121.00	1954	-173.56	1992	I	1954,1970,1982,1987,1992
25S.09W.21.33113	--	-160.56	2-06-92	-7.40	-140.09	1972	-160.56	1992	I	1972,1982,1987,1992
25S.09W.23.13142	AVMB	-152.20	2-06-92	--	-49.01	1953	-152.20	1992	I	1953,1977,1982,1992
25S.09W.25.111A	AVMB	-130.36	2-05-92	-5.39	-1.06	1972	-130.36	1992	I	1953,1956-82,1987,1992
25S.09W.25.13114	--	-127.24	2-05-92	--	-74.72	1959	-127.24	1992	I	1959,1992
25S.09W.25.221	--	-133.65	2-05-92	-4.28	-0.92	1972	-133.65	1992	I	1972,1982,1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
25S.09W.27.31333	AVMB	-143.75	2-05-92	-9.03	-56.02	1957	-143.75	1992	I	1957,1977,1982,1987,1992
25S.09W.28.111A	--	-156.02	2-06-92	-7.92	-147.65	1982	-156.02	1992	I	1982,1987,1992
25S.09W.28.411A	--	-145.93	2-06-92	+4.57	-144.75	1982	-150.50	1987	I	1982,1987,1992
*25S.09W.30.111B	--	-169.28	2-06-92	-30.34	-78.85	1950	-169.28	1992	I	1949-50,1987,1992
25S.09W.30.12124	--	-175.00	2-06-92	-37.27	-104.46	1959	-175.00	1992	U	1959,1982,1987,1992
25S.09W.30.222A	--	-159.57	2-06-92	-13.19	-146.38	1987	-159.57	1992	I	1982,1987,1992
25S.09W.33.32423	AVMB	-130.83	2-05-92	-5.06	-1.09	1972	-130.83	1992	I	1958-59,1972,1977,1982,1987,1992
*25S.09W.34.11123	AVMB	-143.32	2-05-92	-11.07	-59.12	1961	-143.32	1992	I	1961,1977,1982,1987,1992
25S.09W.35.211A	AVMB	-125.00	2-05-92	+0.64	-58.65	1951	-125.64	1987	I	1950-82,1987,1992
25S.10W.13.12231	--	-155.25	2-04-92	-3.85	-129.61	1972	-156.20	1982	I	1970,1972,1982,1987,1992
25S.10W.13.412	AVMB	-165.30	2-04-92	+6.24	-77.56	1950	-171.54	1987	I	1950-82,1987,1992
25S.10W.13.42221	--	-162.96	2-04-92	-22.96	-122.00	1982	-162.96	1992	I	1954,1982,1987,1992
25S.10W.16.11132	--	-89.90	2-04-92	--	-56.32	1954	-89.90	1992	S	1953-56,1959-61,1971,1982,1987,1992
25S.10W.23.21313	--	-140.55	2-04-92	-11.95	-111.34	1972	-148.72	1982	I	1953,1963,1972,1982,1987,1992
25S.10W.23.22211	--	-139.30	2-04-92	-9.60	-112.71	1972	-148.80	1982	I	1965,1972,1982,1987,1992
25S.10W.23.31114	--	-118.60	2-04-92	-0.32	-90.78	1971	-118.60	1992	I	1971,1982,1987,1992
25S.10W.24.41112	--	-162.62	2-04-92	-29.08	-121.29	1972	-162.62	1992	I	1972,1982,1987,1992
25S.10W.24.42111	--	-175.85	2-04-92	-32.25	-143.60	1987	-175.85	1992	I	1956-57,1967,1982,1987,1992
25S.10W.36.134	--	-175.98	2-04-92	-22.78	-153.20	1987	-175.98	1992	I	1974,1982,1987,1992
25S.10W.36.21113	--	-121.96	2-04-92	+0.34	-121.96	1992	-123.80	1982	I	1960-62,1982,1987,1992
25S.10W.36.32121	--	-119.33	2-04-92	-11.93	-107.40	1987	-119.33	1992	I	1960-62,1972,1982,1987,1992
25S.10W.36.422	--	-140.10	2-04-92	-12.20	-127.90	1987	-140.10	1992	I	1954,1956-57,1982,1987,1992
25S.10W.36.422	--	-133.58	2-04-92	--	-133.58	1992	-133.58	1992	I	1992
25S.10W.36.42221	--	-113.20	2-04-92	-14.63	-98.57	1987	-138.30	1982	I	1960,1982,1987,1992
*25S.11W.11.121	AVMB	-97.20	2-04-92	-2.65	-76.22	1961	-97.20	1992	I	1961-68,1970-78,1980-82,1987,1992
25S.11W.12.211	AVMB	-96.20	2-05-92	+5.44	-72.34	1962	-101.64	1987	I	1961-70,1972-73,1975-78,1980-82, 1987,1992
25S.11W.27.410A	--	-90.60	2-05-92	--	-41.56	1967	-90.60	1992	H	1966-72,1977,1982,1992
25S.12W.08.333	--	-90.46	2-05-92	-0.65	-83.79	1968	-91.43	1970	I	1967-71,1982,1987,1992
25S.12W.09.444	AVMB	-123.25	2-05-92	+0.45	-88.99	1968	-143.16	1977	I	1967-69,1974-77,1980-82,1987,1992
*25S.12W.32.22424	--	-195.84	2-05-92	+0.06	-190.78	1967	-195.90	1987	S	1966-69,1982,1987,1992
*25S.13W.16.34422	--	-165.50	2-05-92	+1.90	-162.04	1957	-175.41	1971	S	1955,1957,1966-69,1971,1982,1987, 1992
26S.05W.16.442	--	-184.11P	1-05-92	--	-137.82	1971	-138.27	1971	S	1971,1982,1992
*26S.06W.07.244	--	-86.94	2-07-92	+2.00	-86.94	1992	-90.59	1982	H	1982,1987,1992
26S.06W.20.323	--	-81.36	2-07-92	-0.36	-80.90	1982	-81.36	1992	S	1982,1987,1992
*26S.08W.30.112A	AVMB	-53.84	1-06-92	-0.56	-35.62	1957	-63.45	1975	I	1957,1959,1961-81,1985-92
26S.09W.04.331	AVMB	-121.00	2-05-92	-6.14	-52.28	1941	-121.00	1992	I	1941-46,1948-63,1965,1968-82,1987, 1992
26S.09W.08.21121	AVMB	-123.94	2-05-92	-10.14	-108.85	1982	-123.94	1992	I	1954,1962,1982,1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
26S.09W.08.31221	--	-128.20	2-05-92	-4.36	-68.69	1957	-128.20	1992	I	1957-58,1962,1982,1987,1992
26S.09W.09.11111A	--	-118.65	2-05-92	-8.37	-99.70	1962	-118.65	1992	I	1962,1982,1987,1992
26S.09W.09.114	--	-112.78	2-05-92	+0.94	-109.20	1982	-113.72	1987	I	1982,1987,1992
26S.09W.09.411A	--	-101.95	2-05-92	-3.55	-68.56	1960	-107.20	1982	I	1960,1977,1982,1987,1992
26S.09W.13.324	AVMB	-68.90	2-06-92	-0.60	-38.93	1954	-68.90	1992	I	1954-55,1957,1962,1977,1987,1992
26S.09W.13.340	--	-68.28	2-06-92	-1.78	-66.50	1987	-68.28	1992	I	1982,1987,1992
*26S.09W.21.212A	--	-81.64	2-06-92	-3.86	-53.02	1982	-81.64	1992	I	1982,1987,1992
26S.09W.21.241	AVMB	-79.45	2-06-92	-0.90	-47.80	1957	-79.45	1992	I	1957-58,1972,1977,1982,1987,1992
26S.09W.27.31112A	--	-68.24	2-06-92	-4.28	-43.71	1958	-68.24	1992	I	1958,1962,1973,1982,1987,1992
26S.09W.27.311A	--	-70.44	2-06-92	-3.65	-0.47	1958	-70.44	1992	I	1958,1982,1985,1987,1992
26S.09W.29.111	AVMB	-71.80	2-05-92	-2.50	-0.46	1958	-71.80	1992	I	1957-58,1961-66,1969-82,1987,1992
26S.09W.31.111	--	-62.14	2-05-92	-2.18	-53.58	1972	-63.42	1982	S	1972,1977,1982,1987,1992
26S.09W.33.21111	--	-61.25	2-05-92	-3.23	-41.20	1957	-61.25	1992	S	1957,1959,1977,1982,1987,1992
26S.10W.01.311A	AVMB	-131.54	2-05-92	--	-84.43	1962	-131.54	1992	I	1962-82,1992
26S.10W.02.211	--	-148.80	2-05-92	-16.20	-132.60	1987	-167.00	1982	I	1982,1987,1992
26S.10W.02.222A	AVMB	-109.67	2-05-92	--	-94.38	1973	-109.67	1992	I	1973,1977,1982,1992
26S.10W.02.411A	AVMB	-109.60	2-05-92	--	-83.81	1958	-111.66	1982	I	1958,1977,1982,1992
26S.10W.02.42112	--	-122.90	2-05-92	--	-113.56	1982	-122.90	1992	I	1954,1957,1959,1965,1982,1992
*26S.10W.07.33212	--	-45.22	2-18-92	-1.72	-42.40	1982	-45.22	1992	S	1955,1982,1987,1992
*26S.10W.11.11211	AVMB	-91.38	2-05-92	+9.12	-40.00	1910	-103.10	1982	H	1910,1972,1982,1987,1992
26S.10W.11.12343	AVMB	-105.14	2-05-92	-0.16	-73.79	1955	-105.60	1982	I	1955,1969,1972,1977,1982,1987,1992
26S.10W.11.12434	--	-96.01	2-05-92	-3.59	-89.58	1972	-96.01	1992	U	1972,1982,1987,1992
26S.10W.13.321	AVMB	-91.94	2-05-92	-0.86	-64.21	1958	-96.05	1982	I	1958,1960-67,1969-82,1987,1992
26S.10W.14.112	--	-88.68	2-05-92	-3.59	-60.00	1972	-88.68	1992	S	1972,1982,1987,1992
26S.10W.24.21311	AVMB	-98.30	2-05-92	-1.81	-85.83	1972	-98.30	1992	H	1972,1982,1987,1992
26S.10W.24.223	--	-98.38	2-05-92	+4.92	-98.38	1992	-103.30	1987	I	1982,1987,1992
*26S.10W.25.221A	--	-99.36	2-05-92	-4.38	-90.50	1982	-99.36	1992	I	1982,1987,1992
26S.10W.25.32122	--	-96.20	2-05-92	-2.95	-93.10	1982	-96.20	1992	I	1971,1982,1987,1992
26S.11W.13.14242	--	-81.64	2-18-92	-2.35	-72.99	1959	-81.64	1992	S	1953-56,1958-62,1971,1982,1987,1992
*26S.11W.35.22233	--	-59.65	2-18-92	+2.59	-59.40	1982	-65.79	1957	U	1957,1973,1982,1987,1992
26S.12W.07.140	--	-308.40	2-05-92	--	-300.78	1977	-308.40	1992	S	1977,1982,1992
26S.13W.34.11233	--	-69.10	2-05-92	--	-69.10	1992	-83.80	1982	S	1957,1982,1992
27S.06W.31.333	--	-95.56	2-04-92	--	-95.56	1992	-95.90	1982	I	1972,1982,1992
27S.07W.17.44441	AVMB	-124.68	1-31-92	--	-44.72	1959	-124.68	1992	S	1955,1959,1962,1964-68,1971-72,1982, 1992
*27S.07W.19.31133	--	-118.06	2-06-92	+5.84	-98.00	1968	-138.92	1982	I	1968,1972,1982,1987,1992
27S.07W.20.333	--	-148.80	2-12-92	--	-143.17	1982	-148.80	1992	S	1982,1992
27S.07W.31.23331	--	-50.40	2-04-92	-5.80	-44.07	1982	-50.40	1992	I	1969,1972,1982,1987,1992
27S.08W.05.131	--	-59.18	2-06-92	+1.59	-53.53	1975	-60.77	1987	I	1958,1973,1975,1982,1987,1992
27S.08W.05.134	--	-80.60	2-06-92	-16.84	-63.76	1987	-80.60	1992	I	1982,1987,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*27S.08W.06.333A	--	-103.94	2-06-92	-11.15	-89.48	1977	-103.94	1992	I	1977,1982,1987,1992
27S.08W.07.313A	--	-65.70	2-06-92	--	-63.50	1982	-94.52	1977	I	1974,1977,1982,1992
27S.08W.08.111	AVMB	-72.30	2-06-92	+9.97	-25.66	1954	-83.30	1982	I	1953-57,1959-82,1987,1992
27S.08W.08.212	--	-25.59	2-06-92	+2.43	-25.59	1992	-46.14	1978	I	1978,1982,1987,1992
*27S.08W.15.131	AVMB	-116.40	2-06-92	-5.61	-18.00	1952	-116.40	1992	I	1952-68,1970-82,1987,1992
27S.08W.18.121	AVMB	-67.10	2-06-92	+1.78	-66.59	1959	-134.80	1958	I	1958-59,1965-81,1987,1992
27S.08W.18.22111	--	-55.40	2-06-92	+5.50	-55.40	1992	-71.55	1982	I	1972,1982,1987,1992
27S.08W.25.11114	AVMB	-107.50	2-06-92	+2.13	-50.33	1958	-117.02	1982	I	1958,1962,1965,1972,1982,1987,1992
27S.08W.25.231A	AVMB	-81.89	2-06-92	+3.30	-73.54	1962	-103.64	1981	I	1961-82,1987,1992
27S.08W.26.42242	--	-53.95	2-17-92	-0.40	-35.67	1957	-58.42	1982	S	1955,1957,1972,1982,1987,1992
*27S.08W.35.113	AVMB	-116.16	2-12-92	-5.68	-31.08	1954	-127.42	1979	I	1953-82,1987,1992
27S.08W.35.122	AVMB	-75.88	1-06-92	+2.88	-20.84	1953	-119.34	1981	I	1952-68,1970-92
*27S.09W.01.431	AVMB	-38.40	1-06-92	-0.26	-30.61	1954	-47.26	1977	I	1954-78,1980-92
*27S.10W.14.334	AVMB	-126.96	2-17-92	+0.04	-105.04	1965	-127.00	1987	I	1965-81,1987,1992
27S.10W.14.434	--	-140.24	2-17-92	--	-116.75	1954	-140.24	1992	U	1952-57,1960,1962,1964,1967,1969, 1972,1982,1992
27S.10W.15.411	AVMB	-128.26	2-17-92	-3.49	-105.77	1965	-128.26	1992	I	1965-76,1980-82,1987,1992
27S.10W.18.44441	--	-198.00	2-18-92	--	-95.00	1949	-204.69	1969	S	1949,1955-58,1960,1969,1973,1982, 1992
28S.05W.08.224	--	-80.82	2-12-92	--	-65.27	1955	-80.82	1992	H	1955,1959,1982,1992
*28S.07W.06.311	AVMB	-117.25	2-04-92	+6.09	-51.56	1959	-152.06	1981	I	1953-71,1973-82,1987,1992
28S.07W.08.34114	GILA	-88.10	2-04-92	+10.40	-88.10	1992	-115.87	1982	U	1962-63,1967,1972,1982,1987,1992
28S.07W.21.211A	--	-132.12	1-31-92	+22.38	-132.12	1992	-183.92	1982	I	1982,1987,1992
28S.07W.22.31111	--	-107.00	2-04-92	--	-99.65	1962	-178.87	1982	U	1962-63,1972,1982,1992
28S.07W.28.124	AVMB	-62.55	1-31-92	+48.65	-10.92	1952	-175.90	1974	I	1952-76,1987,1992
28S.07W.30.21313	--	-113.03	1-31-92	-0.87	-58.28	1963	-117.84	1982	I	1960,1962-63,1972,1982,1987,1992
28S.07W.30.443	--	-3.20	1-31-92	+0.03	-3.20	1992	-7.90	1966	I	1966,1972,1975,1982,1987,1992
28S.08W.02.111	AVMB	-136.10	2-04-92	--	-0.71	1965	-136.10	1992	I	1955-82,1992
28S.08W.24.111	AVMB	-137.10	2-04-92	-4.00	-48.19	1955	-142.71	1982	I	1954-78,1980-82,1987,1992
28S.08W.25.211	AVMB	-115.04	2-04-92	--	-0.37	1955	-115.04	1992	I	1952-82,1992
28S.08W.25.311	AVMB	-124.50	2-04-92	--	-11.47	1977	-124.50	1992	I	1953-73,1976-78,1980-81,1992
28S.08W.26.412	--	-99.17	1-29-92	--	-77.69	1966	-99.17	1992	I	1966,1992
*28S.08W.35.211A	--	-122.90	1-29-92	-13.20	-89.88	1977	-122.90	1992	I	1977,1982,1987,1992
28S.08W.36.133	AVMB	-2.54	1-31-92	+8.73	-2.54	1992	-69.10	1975	I	1953-63,1965-70,1972-76,1987,1992
*28S.08W.36.411	AVMB	-11.28	1-06-92	-0.61	-8.18	1983	-32.45	1961	I	1954-74,1976-92
28S.10W.02.443	--	-306.25	2-18-92	--	-294.19	1982	-306.25	1992	S	1982,1992
28S.10W.04.11111	--	-245.20	2-18-92	+3.35	-172.58	1956	-248.55	1987	I	1955-56,1982,1987,1992
28S.10W.04.133	--	-236.43	2-18-92	-8.01	-228.42	1987	-236.43	1992	I	1976-77,1982,1987,1992
28S.10W.36.322	--	-377.04	1-31-92	--	-3.40	1970	-377.04	1992	I	1970,1992
28S.11W.27.124	--	-117.85	1-30-92	--	-87.57	1955	-117.85	1992	S	1955-56,1959,1973,1975,1982,1992

Table 18.--Well location and water-level data for selected wells in the Mimbres Basin monitoring area, Luna, Grant, Doña Ana, and Sierra Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
29S.08W.04.210	AVMB	-206.94	1-29-92	-16.26	-136.59	1960	-206.94	1992	I	1959-70,1972-76,1979-81,1987,1992
29S.08W.10.422	--	-87.35	1-29-92	-14.05	-58.89	1979	-87.35	1992	I	1978-79,1981-82,1987,1992
29S.08W.11.12113	--	-12.70	1-29-92	--	-7.79	1965	-15.00	1951	I	1951,1965,1992
*29S.08W.17.231	AVMB	-185.36	1-29-92	-13.26	-127.29	1956	-185.36	1992	I	1955-56,1958,1962,1965,1972-73,1982, 1987,1992
29S.08W.18.231	GILA	-226.30	1-29-92	-13.72	-158.32	1955	-226.30	1992	S	1955,1972-73,1982,1987,1992
*29S.09W.08.24143	--	-359.50	1-29-92	+10.70	-299.00	1957	-396.10	1982	I	1957,1982,1987,1992
29S.09W.09.422	AVMB	-363.40	1-29-92	+15.30	-319.31	1966	-424.94	1982	I	1966-82,1987,1992
29S.09W.17.111	AVMB	-328.60	1-29-92	-14.23	-264.72	1963	-330.23	1978	I	1963-76,1978,1987,1992
*29S.10W.05.12244	--	-283.82	1-30-92	-3.87	-210.06	1965	-293.85	1982	I	1963,1965,1982,1987,1992
29S.10W.05.22222	--	-281.60	1-30-92	-3.80	-241.15	1970	-281.60	1992	I	1970,1982,1987,1992
29S.10W.07.443	AVMB	-235.96	1-30-92	-23.20	-162.55	1965	-235.96	1992	I	1965-81,1987,1992
29S.10W.08.31111	BLSN	-274.40	1-30-92	-14.68	-189.00	1964	-274.40	1992	I	1964-65,1973,1982,1987,1992
29S.10W.09.111	AVMB	-284.33	1-30-92	-0.98	-200.15	1965	-284.33	1992	I	1965-78,1980-81,1987,1992
29S.10W.10.222	AVMB	-292.90	1-30-92	-23.00	-220.44	1966	-292.90	1992	I	1966-78,1980-82,1987,1992
29S.10W.11.222	AVMB	-333.00	1-30-92	-26.33	-231.11	1955	-333.00	1992	I	1954-66,1968-82,1987,1992
29S.10W.12.421	--	-311.90	1-30-92	-3.14	-308.76	1987	-320.40	1982	I	1982,1987,1992
29S.10W.14.222	--	-262.60	1-30-92	--	-196.97	1955	-268.38	1982	I	1955,1961-82,1992
*29S.10W.15.111	--	-214.34	1-30-92	-5.27	-149.70	1955	-214.34	1992	I	1954-56,1961-66,1968-82,1987,1992
29S.10W.15.222	--	-244.74	1-30-92	--	-193.52	1964	-271.30	1982	I	1964-65,1973,1982,1992
29S.10W.17.112	--	-256.08	1-30-92	-13.79	-161.29	1965	-266.75	1982	I	1965,1972,1982,1987,1992

Mora Monitoring Area

The Mora monitoring area is in Mora and San Miguel Counties and the very southwestern part of Colfax County. Declines range from less than 1 foot to more than 10 feet. Rises range from less than 1 foot to more than 2 feet.

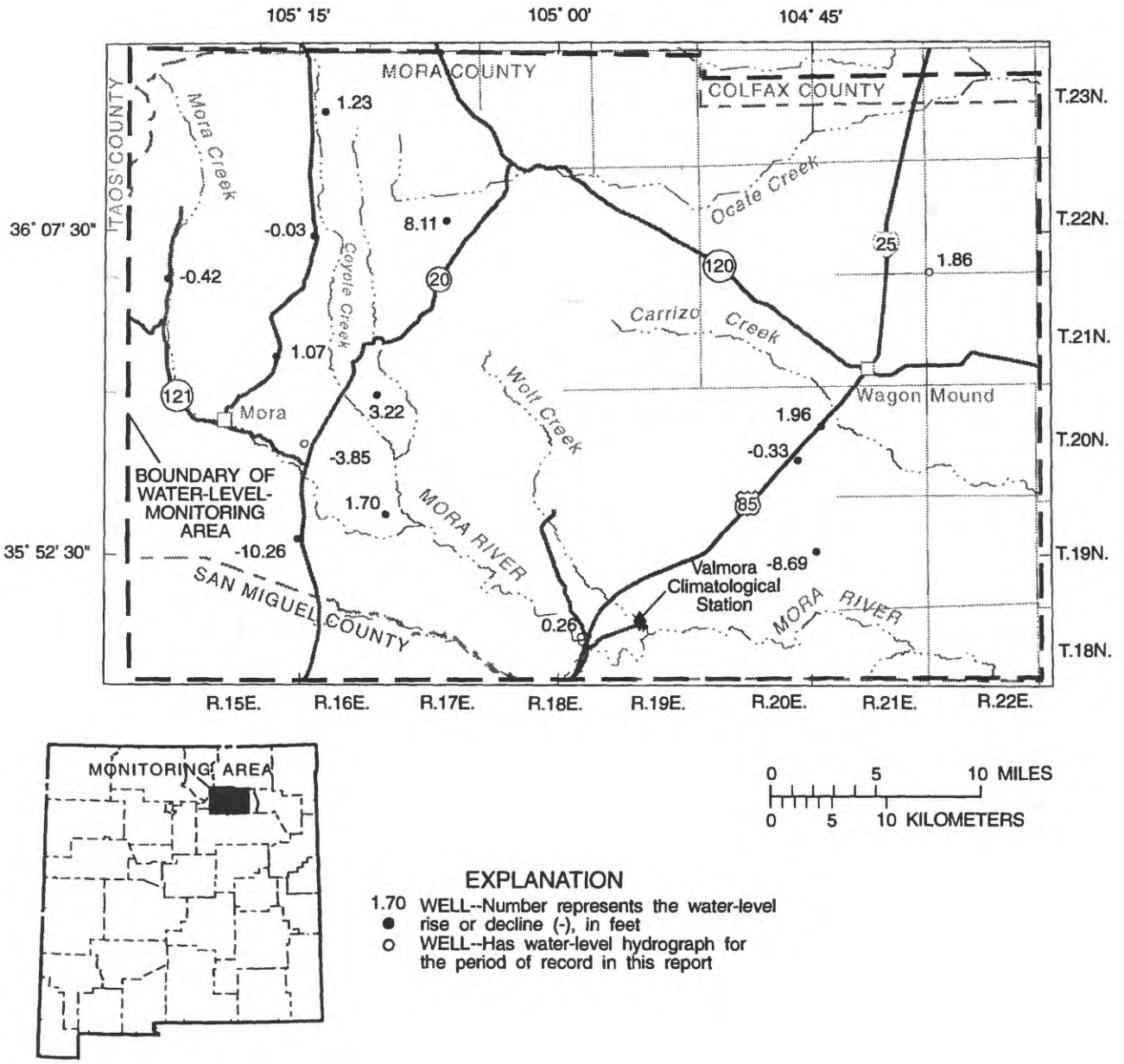


Figure 39.--Water-level changes for wells in the Mora monitoring area, 1987-92.

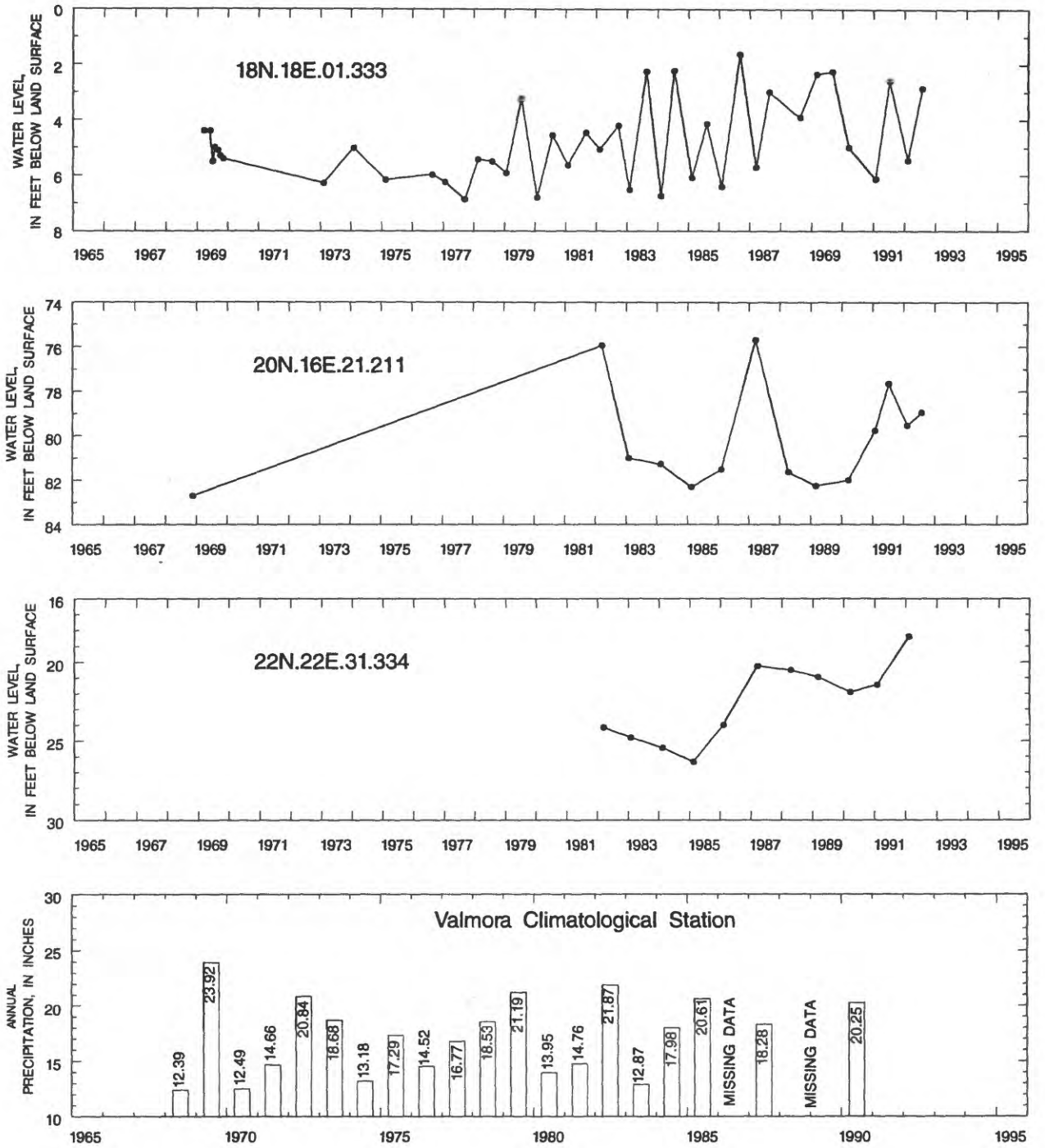


Figure 40.--Water-level data for selected wells in the Mora monitoring area and annual precipitation at the Valmora Climatological Station. See figure 39 for location of wells and station.

Table 19.--Well location and water-level data for selected wells in the Mora monitoring area, Mora, San Miguel, and Colfax Counties, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits. Winter water level, site status: P, pumping; R, recently pumped. Use of water: H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
18N.18E.01.333	AVMB	-5.44	2-10-92	+0.26	-1.62	1986	-6.86	1977	I	1969,1973-92
19N.16E.17.212	--	-55.14	2-11-92	-10.26	-44.88	1987	-55.14	1992	U	1982,1987,1992
19N.17E.06.324	--	-55.20	2-11-92	+1.70	-55.20	1992	-60.53	1982	S	1968,1982,1987,1992
19N.20E.13.444	--	-15.83	2-11-92	-8.69	-7.14	1987	-15.83	1992	U	1982,1987,1992
19N.20E.31.312	--	-46.40P	2-11-92	--	-45.16	1982	-45.16	1982	S	1982,1987,1992
20N.15E.28.344	AVMB	-50.95R	2-11-92	--	-35.80	1969	-54.03	1980	H	1968-69,1973-74,1978-80,1982, 1987,1992
20N.16E.21.211	--	-79.53	2-10-92	-3.85	-75.68	1987	-82.70	1968	U	1968,1982-92
20N.16E.21.334A	--	-105.84R	2-11-92	--	-95.63	1987	-95.63	1987	U	1987,1992
20N.17E.06.131	--	-51.16	2-11-92	+3.22	-51.16	1992	-61.55	1982	S	1982,1987,1992
20N.20E.23.444	--	-9.65	2-10-92	-0.33	-9.32	1987	-15.49	1982	U	1982,1987,1992
20N.21E.18.141	--	-16.00	2-11-92	+1.96	-16.00	1992	-19.80	1982	U	1982,1987,1992
21N.16E.30.232	--	-13.85	2-11-92	+1.07	-13.85	1992	-23.30	1982	S	1982,1987,1992 1992
22N.15E.32.334	--	-12.21	2-11-92	-0.42	-11.79	1987	-13.30	1968	U	1968,1982,1987,1992
22N.16E.22.313	--	-18.44	2-11-92	-0.03	-18.41	1987	-21.05	1982	U	1982,1987,1992
22N.17E.14.333	--	-131.04	2-11-92	+8.11	-131.04	1992	-140.98	1982	S	1982,1987,1992
22N.22E.31.334	--	-18.37	2-10-92	+1.86	-18.37	1992	-26.32	1985	U	1982-92
23N.16E.22.211	--	-25.80	2-11-92	+1.23	-25.80	1992	-28.35	1982	H	1982,1987,1992

Nutt-Hockett Monitoring Area

The Nutt-Hockett monitoring area is in Doña Ana, Luna, and Sierra Counties in southern New Mexico. All changes are declines ranging from less than 4 feet to more than 28 feet.

Table 1.--Well location and water-level data for wells equipped with continuous water-level recorders

[Geologic unit: primary water-yielding unit for the well. AVMB, alluvium, bolson deposits, and other surface deposits; CPTN, Capitan Limestone; GILA, Gila Conglomerate (Group); OGLL, Ogallala Formation; SADR, San Andres Limestone; SNRS, Santa Rosa Sandstone; SNTF, Santa Fe Group; TSUQ, Tesuque Formation, undifferentiated unit]

Map number (fig. 2)	Well location	Geologic unit	Years of record
1	01S.74W.24.244	AVMB	1955
2	24N.36E.17.244	OGLL	1968-93
3	16N.08E.26.32112	TSUQ	1973-93
4	10N.20E.28.2241	SADR	1979-93
5	10N.03E.32.314	SNTF	1982-93
6	05N.25E.34.232220	SNRS	1971-93
7	04N.32E.22.111114	OGLL	1980-93
8	01N.37E.15.13311	OGLL	1954-93
9	01S.33E.36.23111	AVMB	1952-93
10	02S.36E.14.311111	AVMB	1975-93
11	11S.32E.24.113222	OGLL	1977-93
12	12S.25E.23.344234A	AVMB	1966-93
13	12S.25E.23.344412	SADR	1964-93
14	15S.24E.25.433331	SADR	1967-93
15	16S.36E.04.32232	OGLL	1971-93
16	18S.15W.11.323	GILA	1945-93
17	18S.26E.06.442221A	SADR	1961-93
18	18S.26E.06.442212B	AVMB	1963-93
19	21S.26E.36.22110	CPTN	1962-93
20	21S.28E.30.14123	CPTN	1963-93
21	22S.26E.25.333333	AVMB	1942-93
22	23S.25E.24.21433	CPTN	1963-93

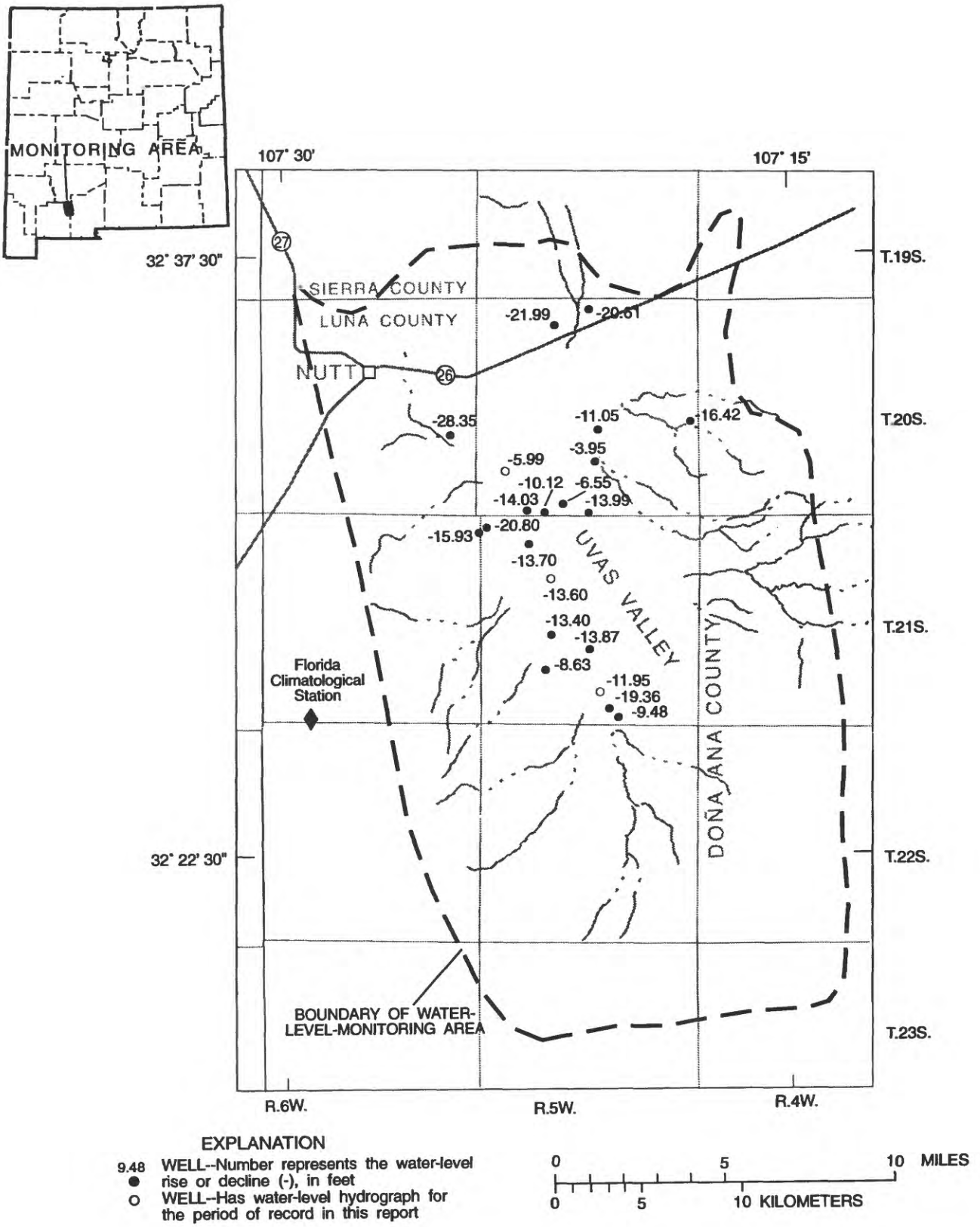


Figure 41.--Water-level changes for wells in the Nutt-Hockett monitoring area, 1987-92.

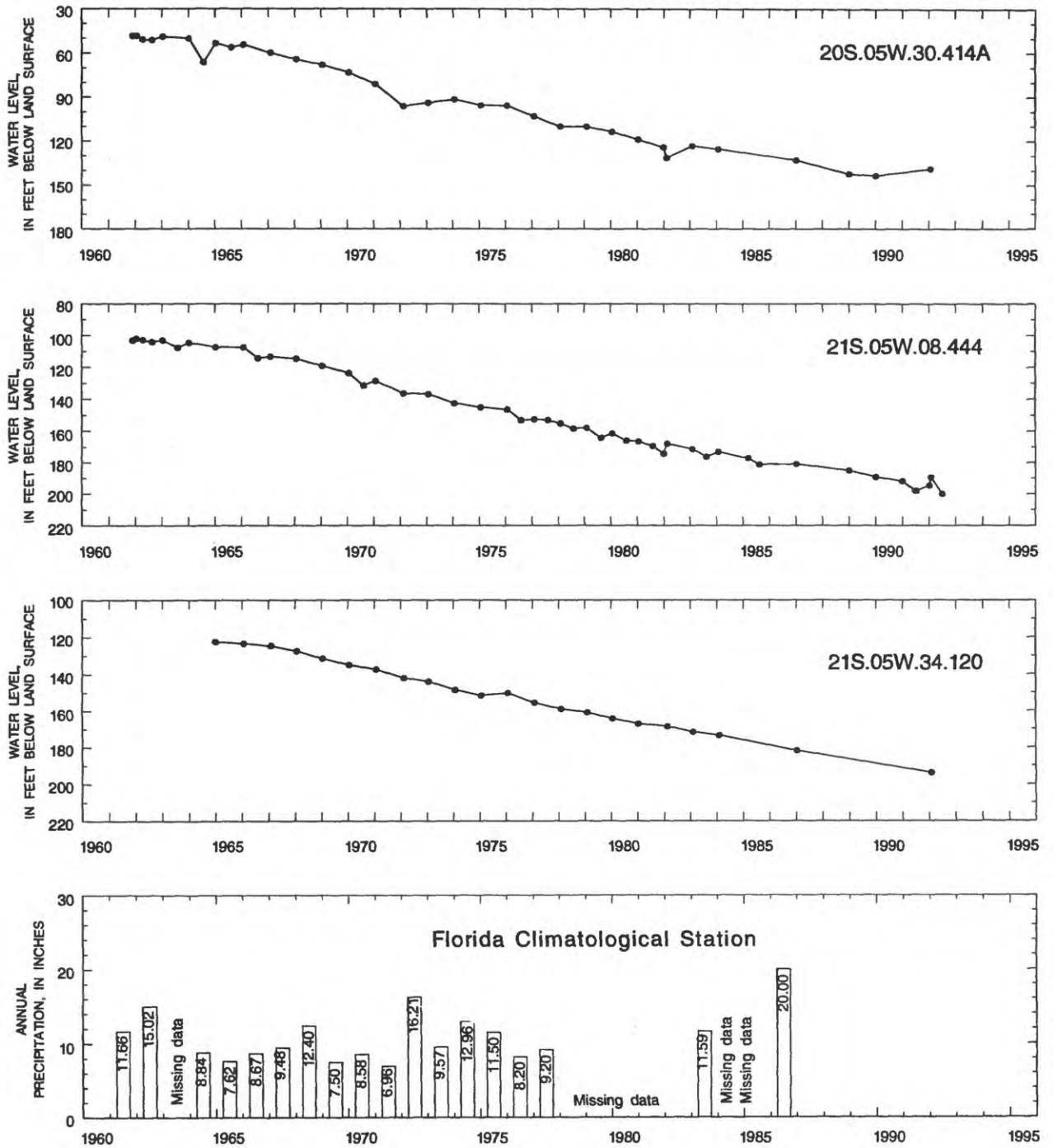


Figure 42.--Water-level data for selected wells in the Nutt-Hockett monitoring area and annual precipitation at the Florida Climatological Station. See figure 41 for location of wells and station.

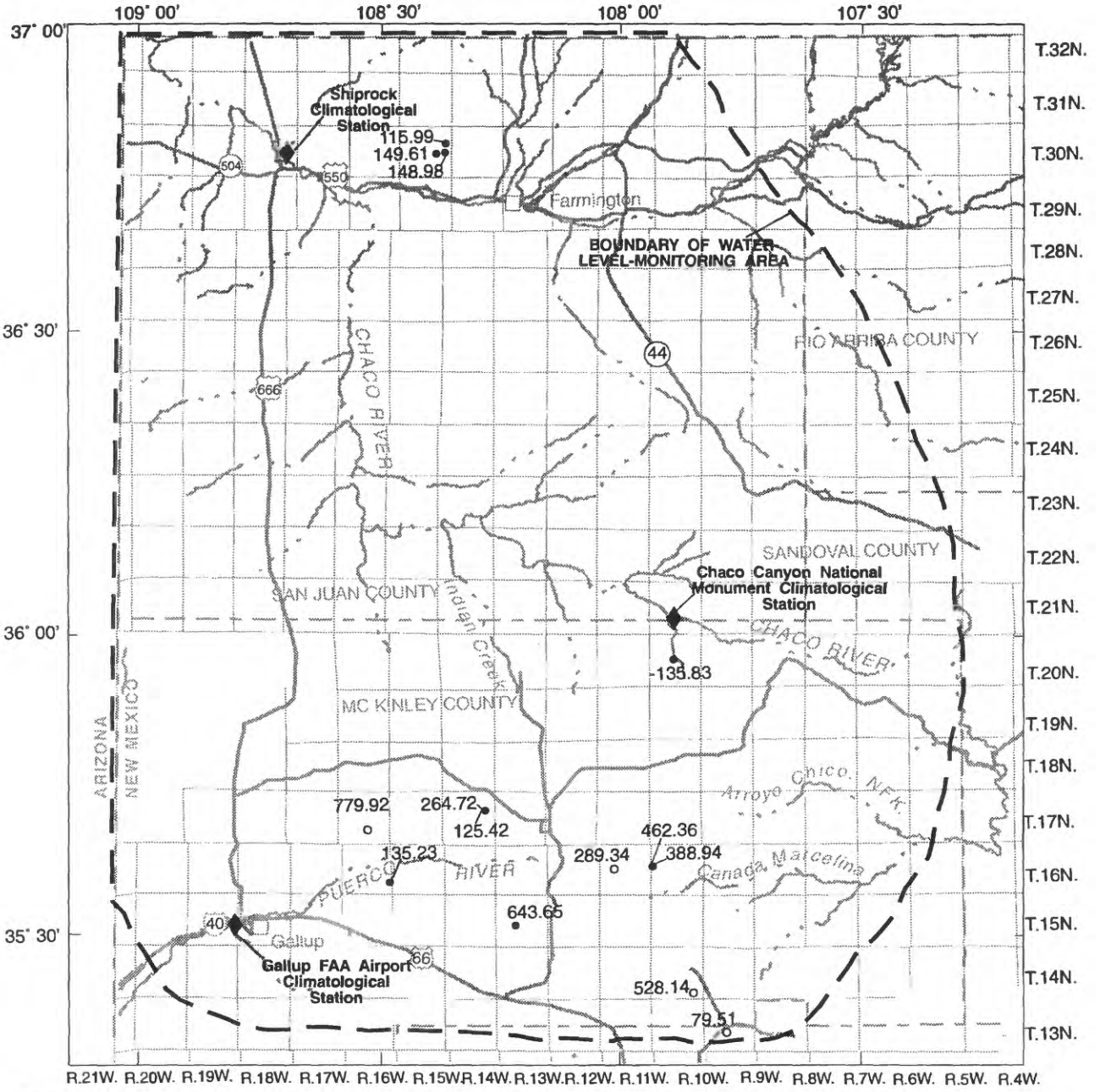
Table 20.--Well location and water-level data for selected wells in the Nutt-Hockett monitoring area, Doña Ana, Luna, and Sierra Counties, New Mexico

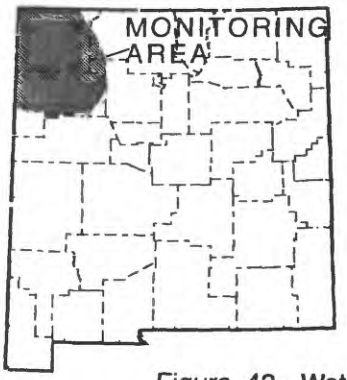
[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; BLSN, bolson fill. Use of water: I, irrigation; S, stock. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
20S.04W.19.122	AVMB	-237.40	1-24-92	--	-192.97	1977	-237.40	1992	I	1974-84,1992
20S.04W.19.131	AVMB	-226.70	1-24-92	-16.42	-132.20	1966	-226.70	1992	I	1966,1968-69,1971-84,1987,1992
20S.04W.19.324	AVMB	-219.55	1-24-92	--	-186.03	1974	-219.55	1992	I	1974-84,1992
20S.05W.03.112	AVMB	-190.18	1-09-92	-20.61	-87.62	1966	-190.18	1992	I	1966-69,1971-84,1987,1992
20S.05W.04.321	--	-175.29	1-09-92	-21.99	-134.13	1978	-175.29	1992	I	1978,1982-84,1987,1992
20S.05W.08.231	AVMB	-100.70	1-09-92	--	-62.52	1967	-121.06	1980	I	1967-69,1971-84,1987,1992
20S.05W.09.331	AVMB	-132.30	1-23-92	--	-57.56	1970	-132.30	1992	I	1970-75,1977-81,1983,1987,1992
20S.05W.13.344	AVMB	-223.71	1-24-92	--	-147.51	1974	-223.71	1992	I	1974-82,1992
20S.05W.22.322	AVMB	-150.95	1-24-92	-11.05	-105.84	1974	-150.95	1992	I	1974-80,1982-84,1987,1992
20S.05W.27.143	AVMB	-138.15	1-27-92	-3.95	-87.16	1966	-138.15	1992	I	1966-69,1971-84,1987,1992
20S.05W.30.414A	AVMB	-138.66	1-27-92	-5.99	-48.45	1961	-143.32	1990	I	1961-84,1987,1989-90,1992
20S.05W.30.414	--	-146.80	1-07-92	--	-46.72	1959	-146.80	1992	I	1959-66,1969-70,1972-75,1977-80, 1992
20S.05W.32.344	AVMB	-156.28	1-27-92	-14.03	-1.56	1968	-156.28	1992	I	1961-72,1980-84,1987,1992
20S.05W.32.444	AVMB	-174.25	1-27-92	-10.12	-77.99	1961	-174.25	1992	I	1961-77,1979-84,1987,1992
20S.05W.33.344	AVMB	-108.85	1-27-92	-6.55	-97.64	1981	-108.93	1979	I	1974-84,1987,1992
20S.05W.34.111	AVMB	-197.20	1-27-92	--	-89.28	1964	-197.20	1992	I	1964-84,1992
20S.05W.34.333	AVMB	-209.72	1-27-92	-13.99	-162.60	1975	-209.72	1992	S	1974-84,1987,1992
20S.06W.24.332	BLSN	-224.50	1-23-92	-28.35	-128.00	1968	-224.50	1992	I	1968,1982-84,1987,1992
21S.05W.05.344	AVMB	-174.73	1-27-92	-13.70	-81.08	1962	-174.73	1992	I	1961-66,1968-81,1983-84,1987,1992
21S.05W.06.133	AVMB	-158.60	1-23-92	-20.80	-70.47	1967	-158.60	1992	I	1967,1971-81,1983-84,1987,1992
21S.05W.08.422	AVMB	-183.24	1-27-92	--	-143.14	1974	-183.24	1992	I	1974-84,1992
21S.05W.08.444	AVMB	-194.56	1-07-92	-13.60	-102.06	1962	-198.05	1991	I	1961-85,1987,1989-92
21S.05W.09.344	AVMB	-194.35	1-27-92	--	-162.23	1974	-194.35	1992	I	1974-81,1992
21S.05W.09.434	AVMB	-223.40	1-27-92	--	-144.42	1968	-223.40	1992	I	1968-69,1971,1973-74,1976-79, 1981-84,1992
21S.05W.20.422	AVMB	-187.21	1-23-92	-13.40	-102.03	1965	-187.21	1992	I	1964-66,1968-70,1972-73,1975-84, 1987,1992
21S.05W.21.444	AVMB	-207.22	1-23-92	-13.87	-143.65	1971	-207.22	1992	I	1971-84,1987,1992
21S.05W.28.133	AVMB	-188.35	1-23-92	-8.63	-109.54	1963	-188.35	1992	I	1963-73,1980-84,1987,1992
21S.05W.29.222	AVMB	-188.96	1-23-92	--	-114.91	1967	-188.96	1992	I	1967-82,1992
21S.05W.34.120	AVMB	-193.75	1-23-92	-11.95	-122.34	1965	-193.75	1992	I	1964-84,1987,1992
21S.05W.34.410	AVMB	-202.50	1-23-92	-19.36	-150.84	1974	-202.50	1992	I	1974-84,1987,1992
21S.05W.34.444	AVMB	-195.46	1-07-92	-9.48	-130.88	1964	-197.19	1992	I	1964-65,1967-84,1987,1989-92
21S.06W.01.244	AVMB	-157.30	1-24-92	-15.93	-59.62	1962	-157.30	1992	S	1961-78,1980-84,1987,1992
22S.05W.16.130	BLSN	-260.34	1-29-92	--	-117.96	1965	-260.34	1992	I	1961-69,1972,1982,1987,1992

San Juan Basin Monitoring Area

The San Juan Basin monitoring area is in San Juan, McKinley, Rio Arriba, and Sandoval Counties, northwestern New Mexico. Depth-to-water data were first collected as part of the observation well program in 1992 and are presented.





EXPLANATION

125.92 ● WELL--Number represents the water level below land surface, in feet

○ WELL--Has water-level hydrograph for the period of record in this report

0 5 10 MILES

0 5 10 KILOMETERS

Figure 43.--Water levels for selected wells in the San Juan Basin monitoring area, 1992.

Table 21.--Well location and water-level data for selected wells in the San Juan Basin monitoring area, San Juan, McKinley, Rio Arriba, and Sandoval Counties, New Mexico

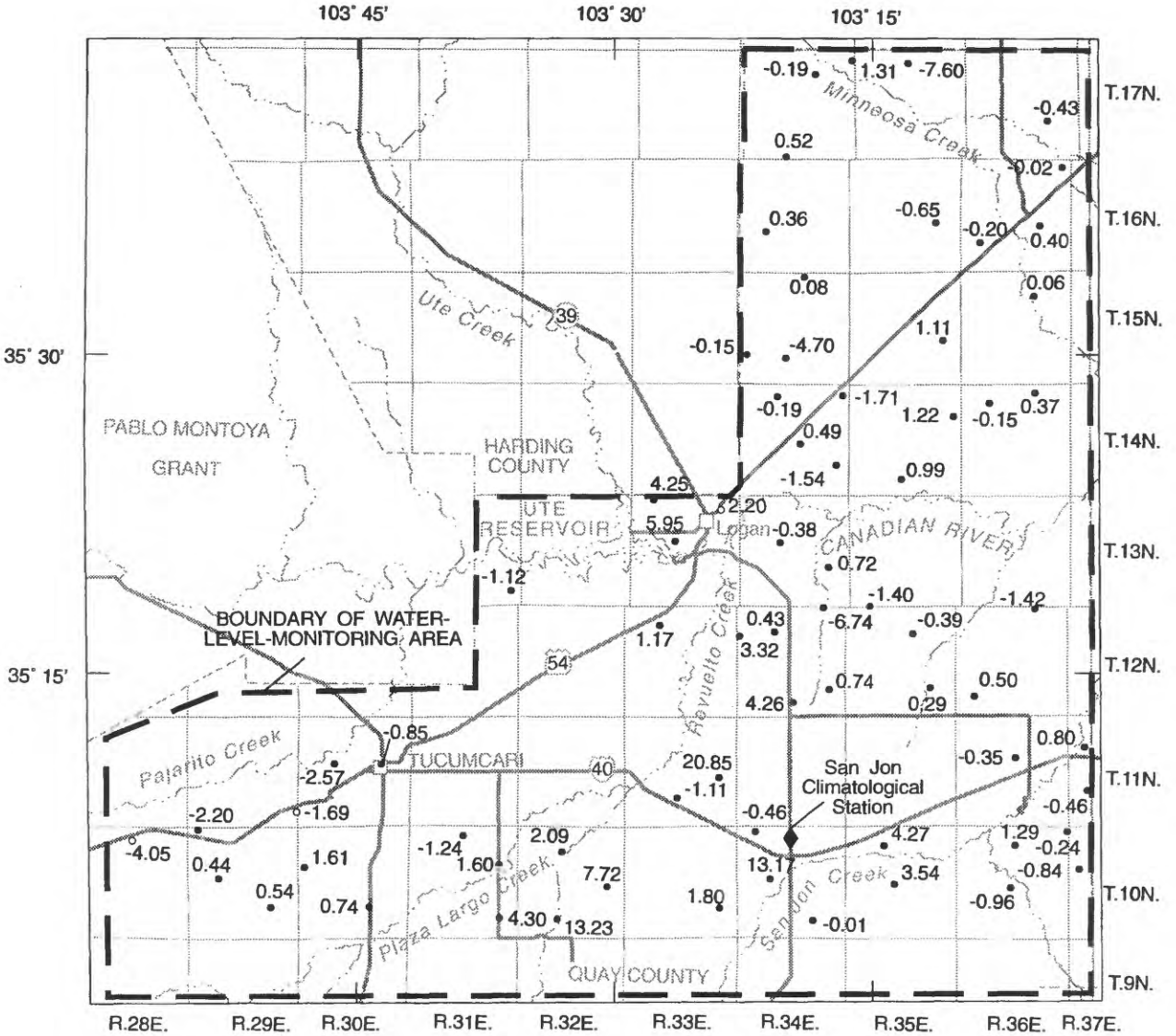
[Geologic unit, primary producing zone for the well: DKOT, Dakota Sandstone or Formation; ENRD, Entrada Sandstone; FRLD, Fruitland Formation; GLLP, Gallup Sandstone; MRSN, Morrison Formation; PCCF, Pictured Cliffs Sandstone; WSRC, Westwater Canyon Sandstone Member of Morrison Formation. Winter water level, site status: P, pumping. Use of water: H, domestic; N, industrial; S, stock; U, unused. --, no data]

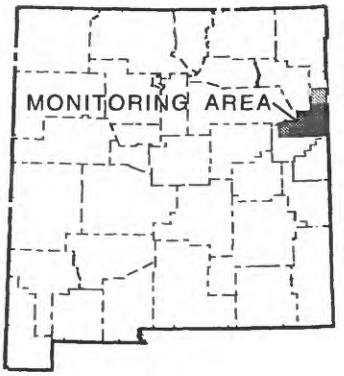
Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987 to winter 1992 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
13N.09W.21.4123	MRSN	-79.51	1-29-92	-9.11	-58.30	1978	-144.80	1955	U	1955,1957,1977-78,1980-92
14N.10W.35.221	MRSN	-528.14	2-25-92	-3.56	-461.40	1957	-528.14	1992	U	1957,1980-90,1992
15N.13W.21.14	ENRD	-643.65	2-26-92	--	-491.57	1988	-676.10	1982	N	1982,1985,1988-89,1992
16N.10W.18.133B	DKOT	-388.94	2-25-92	-12.34	-350.47	1982	-388.94	1992	U	1982-90,1992
16N.10W.18.133D	WSRC	-462.36	2-25-92	-17.83	-424.83	1983	-462.36	1992	U	1983-90,1992
16N.11W.17.4322	GLLP	-289.34	2-27-92	+5.61	-265.10	1959	-318.28	1982	S	1959,1978,1980-90,1992
16N.16W.25.142	ENRD	-135.23P	2-26-92	--	-1.40	1965	-160.64	1985	H	1965,1980-90,1992
17N.14W.13.1144B	WSRC	-264.72	2-26-92	+84.56	-264.72	1992	-350.38	1986	U	1982-90,1992
17N.14W.13.1144C	DKOT	-125.42	2-26-92	-13.79	-76.21	1982	-125.42	1992	U	1982-90,1992
17N.16W.22.432	WSRC	-779.92	2-26-92	+408.41	-779.92	1992	-1355.60	1983	U	1982-90,1992
20N.10W.16.4413	MRSN	135.83	2-27-92	--	135.83	1992	104.64	1989	U	1980-90,1992
30N.15W.13.414	FRLD	-115.99	2-28-92	--	-115.99	1992	-167.62	1978	U	1978,1980-81,1986,1992
30N.15W.23.4411	PCCF	-149.61	2-28-92	--	-123.75	1978	-149.61	1992	U	1978,1980-81,1986,1992
30N.15W.24.4231	FRLD	-148.98	2-28-92	--	-79.90	1978	-148.98	1992	U	1978,1980-82,1992

Lower Canadian Monitoring Area

The Lower Canadian monitoring area is in Quay County, east-central New Mexico. Not all water-level changes are shown on the map; however, all well locations and water-level data are listed in the table. Well locations marked with an asterisk (*) in the table are plotted on the map.

Water-level declines range from less than 1 to more than 7 feet. Water-level rises range from less than 1 foot to more than 20 feet. Water-level declines are located around the perimeter of the monitoring area and range from less than 1 foot to more than 7 feet. Data indicate rises in the central part of the monitoring area in a sinuous area from T. 17 N., R. 36 E. to Tps. 10 and 11 N., Rs. 29 through 36 E. Water-level rises range from less than 1 foot to more than 20 feet.





0 5 10 MILES

0 5 10 KILOMETERS

EXPLANATION

-1.42 WELL--Number represents the water-level rise or decline (-), in feet

WELL--Has water-level hydrograph for the period of record in this report

Figure 45.--Water-level changes for selected wells in the Lower Canadian monitoring area, 1988-93.

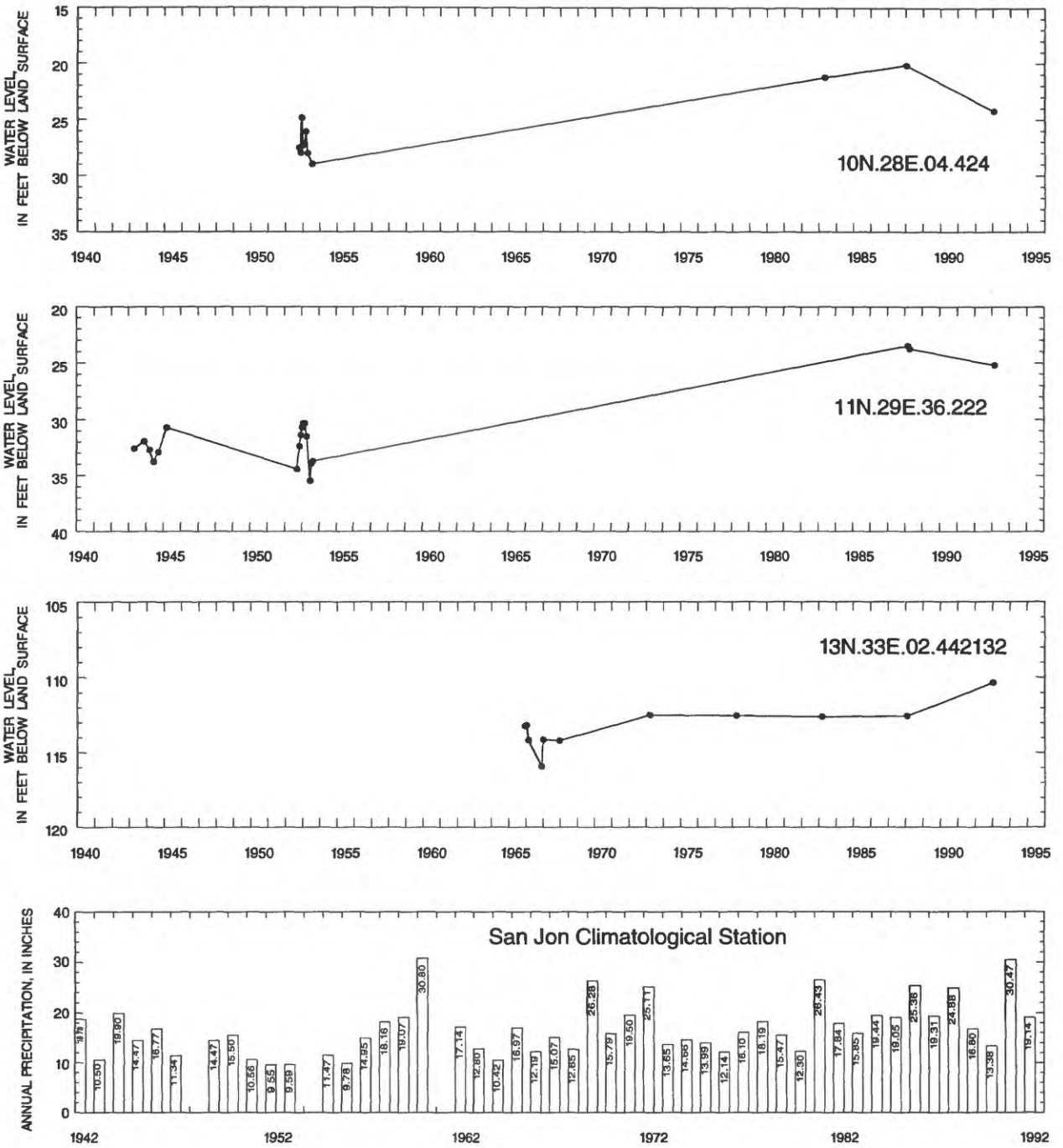


Figure 46.--Water-level data for selected wells in the Lower Canadian monitoring area and annual precipitation at the San Jon Climatological Station. See figure 45 for location of wells and station.

Table 22.--Well location and water-level data for selected wells in the Lower Canadian monitoring area, Quay County, New Mexico

[*, well location and change data are plotted on the corresponding map. Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; CHNL, Chinle Formation; ENRD, Entrada Sandstone; MRSN, Morrison Formation; OGLL, Ogallala Formation; SNRS, Santa Rosa Sandstone. Winter water level, site status: P, pumping. Use of water: C, commercial; H, domestic; I, irrigation; P, public supply; R, recreation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*10N.28E.04.424	AVMB	-24.21	1-21-93	-4.05	-20.16	1988	-28.02	1953	--	1952-53,1983,1988,1993
10N.28E.22.421121	AVMB	-93.25P	1-21-93	--	-68.90	1952	-88.73	1988	I	1952,1988,1993
10N.28E.24.242341	MRSN	-65.92	1-15-93	--	-58.95	1952	-65.92	1993	I	1952,1993
*10N.29E.06.211	MRSN	-65.12	1-08-93	-2.20	-55.06	1952	-65.12	1993	--	1952-53,1988,1993
10N.29E.08.332	MRSN	-78.53	1-08-93	-0.59	-77.94	1988	-79.43	1953	--	1952-53,1988,1993
10N.29E.09.2341	MRSN	-39.57P	2-24-93	--	-20.73	1952	-20.73	1952	I	1952,1988,1993
*10N.29E.17.414	MRSN	-137.99	1-15-93	+0.44	-134.50	1953	-138.43	1988	--	1952-54,1988,1993
10N.29E.20.131	AVMB	-102.78P	1-15-93	--	-84.44	1952	-106.91	1988	I	1952,1983,1988,1993
*10N.29E.26.142421	ENRD	-136.23	2-12-93	+0.54	-136.23	1993	-140.69	1952	I	1952,1988,1993
10N.29E.30.422332	ENRD	-196.48P	1-15-93	--	-200.00	1988	-206.29	1952	I	1952,1988,1993
10N.30E.06.42424A	ENRD	-102.78P	2-24-93	--	-102.45	1988	-102.45	1988	I	1983,1988,1993
*10N.30E.18.121342	MRSN	-116.12	1-22-93	+1.61	-116.12	1993	-125.75	1952	I	1952,1983,1988,1993
*10N.30E.27.24122	CHNL	-249.64	3-16-93	+0.74	-249.64	1993	-263.32	1983	I	1952,1983,1988,1993
10N.30E.30.321444	CHNL	-26.50	3-05-93	--	-15.38	1955	-26.50	1993	I	1955,1993
10N.30E.30.333134	CHNL	-39.12	3-05-93	+1.14	-37.23	1955	-44.93	1983	I	1955,1983,1988,1993
10N.30E.30.34133	CHNL	-34.17	3-05-93	-6.67	-27.50	1988	-37.80	1983	I	1983,1988,1993
10N.30E.34.44444	AVMB	-23.14	3-09-93	+0.65	-8.00	1952	-24.47	1983	I	1952,1983,1988,1993
*10N.31E.03.13313	CHNL	-15.76	3-16-93	-1.24	-14.52	1988	-28.90	1944	I	1944,1988,1993
*10N.31E.12.333	CHNL	-6.98	2-19-93	+1.60	-6.60	1983	-23.95	1945	I	1945,1983,1988,1993
10N.31E.13.21233	AVMB	-4.01	2-23-93	+0.04	-4.01	1993	-6.36	1983	I	1983,1988,1993
10N.31E.13.33333	CHNL	-33.91	2-19-93	+3.37	-33.91	1993	-41.12	1983	I	1983,1988,1993
*10N.31E.25.333111	CHNL	-94.06	2-19-93	+4.30	-94.06	1993	-110.88	1955	I	1955,1983,1988,1993
10N.31E.26.31133	CHNL	-24.38	3-03-93	+1.67	-24.38	1993	-92.65	1955	I	1955,1983,1988,1993
*10N.32E.09.141233	AVMB	-4.04	3-04-93	+2.09	-4.04	1993	-9.13	1985	I	1985,1988,1993
10N.32E.19.21221	CHNL	-49.73	3-03-93	+2.34	-49.73	1993	-52.07	1988	I	1983,1988,1993
*10N.32E.23.223231	CHNL	-170.55	3-10-93	+7.72	-170.55	1993	-178.27	1988	I	1955,1988,1993
*10N.32E.28.333411	AVMB	-12.91	3-02-93	+13.23	-12.91	1993	-26.14	1988	I	1955,1983,1988,1993
10N.32E.32.42213	AVMB	-7.34	3-16-93	+0.88	-6.44	1983	-8.22	1988	I	1983,1988,1993
10N.32E.34.243	AVMB	-15.15P	3-04-93	--	-14.87	1988	-15.16	1955	I	1955,1988,1993
10N.33E.24.113	CHNL	-181.66	3-18-93	--	-172.83	1983	-181.66	1993	I	1983,1993
*10N.33E.25.131330	AVMB	-31.69	3-18-93	+1.80	-31.69	1993	-33.49	1988	I	1983,1988,1993
10N.33E.36.33331	AVMB	-45.44	3-19-93	-3.20	-40.95	1983	-45.44	1993	I	1955,1983,1988,1993
*10N.34E.06.224	CHNL	-9.54	3-25-93	-0.46	-9.08	1988	-9.54	1993	I	1955,1988,1993
*10N.34E.17.441124	CHNL	-103.49	3-17-93	+13.17	-103.49	1993	-116.66	1988	I	1955,1983,1988,1993
10N.34E.19.212213	CHNL	-137.20	3-17-93	+11.89	-137.20	1993	-149.09	1988	I	1955,1983,1988,1993
10N.34E.22.141333	CHNL	-97.22	3-17-93	+4.13	-97.22	1993	-102.29	1955	I	1955,1988,1993
*10N.34E.35.111243	AVMB	-25.65	3-17-93	-0.01	-25.31	1983	-25.79	1954	I	1954,1983,1988,1993
10N.34E.36.344414	CHNL	-47.10	3-17-93	--	-47.10	1993	-101.67	1983	I	1983,1988,1993
10N.35E.01.333	CHNL	-36.33	2-25-93	--	-36.38	1993	-38.80	1954	I	1954,1983,1988,1993
*10N.35E.04.333	CHNL	-20.96	2-25-93	+4.27	-20.96	1993	-25.23	1988	H	1954,1988,1993

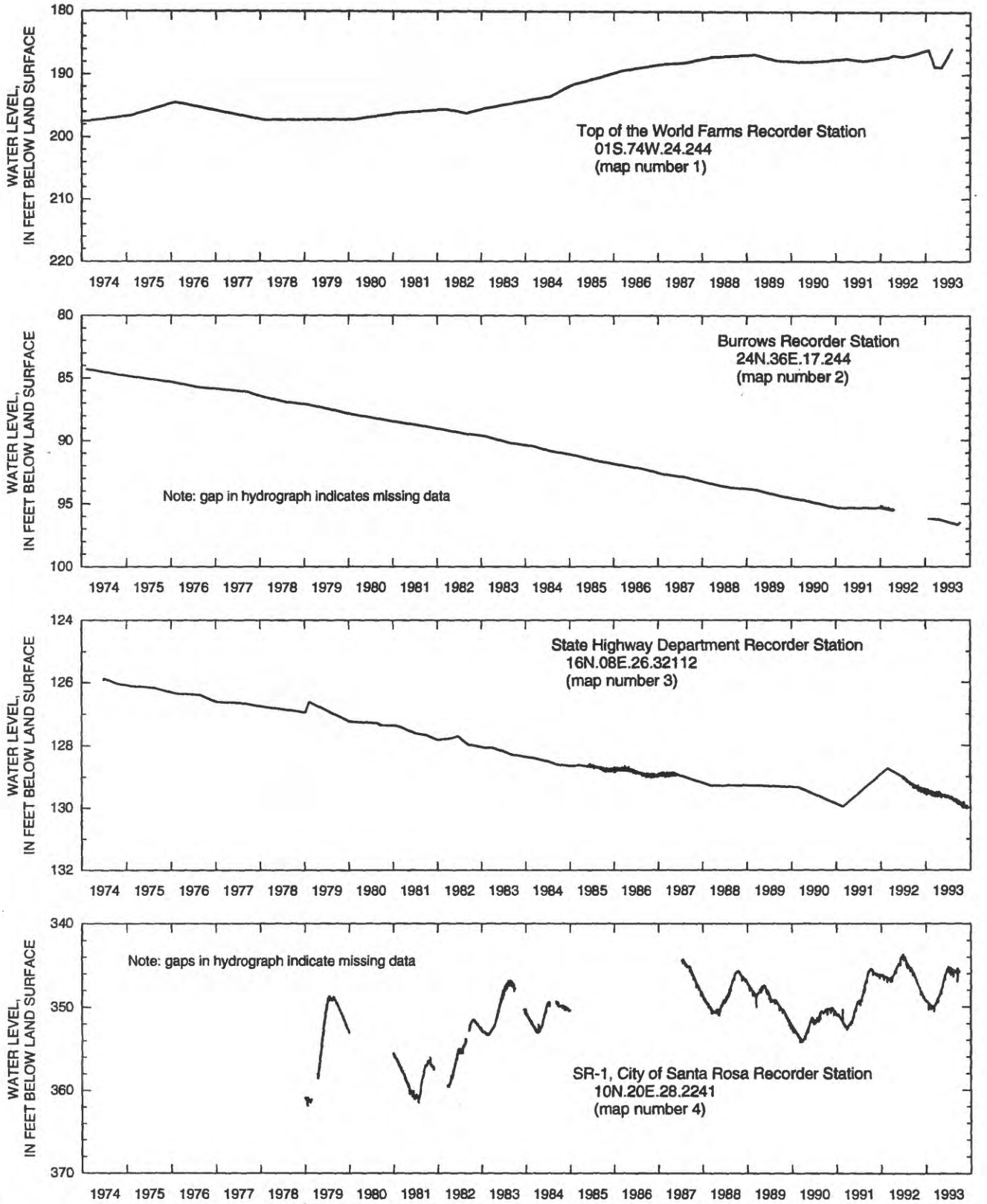


Figure 4.--Continuous water-level data for selected wells. See figure 2 and table 1 for locations.

Table 22.--Well location and water-level data for selected wells in the Lower Canadian monitoring area, Quay County, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
10N.35E.05.2222	CHNL	-18.19	2-25-93	+1.31	-18.19	1993	-19.85	1954	H	1954,1983,1988,1993
10N.35E.06.111114	CHNL	-20.63	3-16-93	--	-20.63	1993	-30.45	1955	I	1955,1993
10N.35E.09.424	AVMB	-7.95	2-25-93	+1.21	-7.95	1993	-9.16	1988	I	1954,1983,1988,1993
10N.35E.14.334A	CHNL	-87.11P	3-10-93	--	--	--	--	--	I	1983,1988,1993
*10N.35E.21.21132	CHNL	-56.09	3-10-93	+3.54	-56.09	1993	-59.63	1988	I	1954,1983,1988,1993
*10N.36E.01.242111	AVMB	-17.05	2-18-93	-0.24	-16.81	1988	-18.23	1954	I	1954,1983,1988,1993
*10N.36E.03.33	CHNL	-12.84	2-16-93	+1.29	-12.84	1993	-20.59	1983	I	1983,1988,1993
10N.36E.03.334224	CHNL	-37.27	2-16-93	+1.70	-37.27	1993	-42.60	1953	I	1953,1988,1993
10N.36E.14.311442	CHNL	-16.17	2-16-93	--	-16.17	1993	-20.13	1940	I	1940,1983,1988,1993
*10N.36E.21.223	CHNL	-40.89	2-18-93	-0.96	-39.93	1988	-41.14	1983	I	1954,1983,1988,1993
10N.36E.26.332423	AVMB	-18.20	2-16-93	+0.35	-17.80	1983	-18.55	1988	I	1953,1983,1988,1993
*10N.37E.18.231112	CHNL	-82.34	2-25-93	-0.84	-78.16	1954	-82.34	1993	I	1954,1983,1988,1993
11N.29E.13.133	ENRD	-35.13S	2-25-93	--	-18.06	1953	-82.97	1952	--	1952-54,1957,1963,1988,1993
11N.29E.13.314A	ENRD	-50.65S	2-24-93	--	-39.01	1983	-72.18	1952	--	1952-55,1957,1983,1993
*11N.29E.36.222	AVMB	-25.19	2-25-93	-1.69	-23.50	1988	-35.48	1953	--	1943-45,1952-53,1988,1993
*11N.30E.14.144D	AVMB	-45.25	1-26-93	-0.85	-21.20	1963	-137.66	1952	--	1952-68,1971,1973-75,1977-80, 1982-88,1992-93
11N.30E.14.432	AVMB	-33.41P	1-22-93	--	-34.84	1988	-82.39	1953	--	1953-55,1957-58,1963,1988,1993
11N.30E.15.224	AVMB	-25.16	2-24-93	--	-25.16	1993	-151.19	1953	--	1953-54,1983,1993
*11N.30E.17.244	CHNL	-18.33	2-24-93	-2.57	-14.44	1953	-18.65	1953	--	1952-53,1988,1993
11N.30E.30.333	ENRD	-147.58	1-29-93	-1.39	-146.19	1988	-198.40	1957	--	1953-68,1971,1973-75,1977-80, 1988,1993
11N.31E.03.22244	CHNL	-140.29	1-26-93	--	-140.29	1993	-141.10	1988	S	1983,1988,1993
*11N.33E.23.242212	CHNL	-16.88	2-18-93	+20.85	-16.88	1993	-37.73	1988	S	1988,1993
11N.33E.23.43422	CHNL	-8.44	2-18-93	+2.65	-8.44	1993	-11.09	1988	S	1988,1993
11N.33E.24.42114	CHNL	-43.30	2-18-93	--	-43.30	1993	-45.62	1988	S	1988,1993
*11N.33E.28.232344	AVMB	-10.17	2-18-93	-1.11	-9.06	1988	-10.17	1993	S	1988,1993
11N.35E.14.224124	CHNL	-59.09P	1-21-93	--	-56.83	1954	-63.19	1983	S	1954,1983,1988,1993
11N.35E.34.11444	CHNL	-26.77	1-27-93	+1.70	-26.77	1993	-29.33	1983	S	1983,1988,1993
11N.36E.03.314412	CHNL	-174.53P	1-27-93	--	-174.34	1988	-174.77	1983	S	1983,1988,1993
11N.36E.07.12123	CHNL	-28.76P	1-28-93	--	-30.01	1983	-30.89	1988	S	1983,1988,1993
*11N.36E.15.131111	CHNL	-196.55	1-27-93	-0.35	-195.36	1983	-196.55	1993	S	1983,1988,1993
11N.36E.26.431424	CHNL	-197.68P	1-27-93	--	-196.52	1983	-197.44	1988	S	1983,1988,1993
11N.36E.29.431131	CHNL	-243.50	1-28-93	--	-243.50	1993	-245.06	1983	S	1983,1993
11N.36E.36.423131	AVMB	-19.19	1-20-93	+0.66	-19.19	1993	-20.34	1983	S	1983,1988,1993
*11N.37E.07.42330	AVMB	-13.08	1-27-93	+0.80	-13.08	1993	-15.10	1983	S	1983,1988,1993
11N.37E.17.31222	CHNL	-214.39	1-20-93	-1.45	-211.90	1983	-214.39	1993	H	1983,1988,1993
11N.37E.18.12423	AVMB	-6.38	1-20-93	+1.30	-6.38	1993	-8.89	1983	I	1983,1988,1993
11N.37E.18.22423	CHNL	-166.48	1-20-93	--	-165.06	1983	-166.48	1993	H	1983,1988,1993
11N.37E.19.13343	CHNL	-18.58	1-20-93	-0.18	-17.53	1983	-18.58	1993	S	1983,1988,1993

Table 22.--Well location and water-level data for selected wells in the Lower Canadian monitoring area, Quay County, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes High (feet)	Year	Low (feet)	Year	Use of water	Years of record
11N.37E.29.142442	CHNL	-22.17	1-20-93	--	-20.64	1988	-22.17	1993	S	1988,1993
11N.37E.29.43340	CHNL	-32.73	1-20-93	--	-31.72	1988	-32.73	1993	S	1988,1993
*11N.37E.30.222323	AVMB	-14.06	1-20-93	-0.46	-13.27	1983	-14.06	1993	S	1983,1988,1993
11N.37E.31.213121	CHNL	-33.48	1-20-93	-0.03	-32.66	1983	-33.48	1993	S	1983,1988,1993
11N.37E.31.41232	CHNL	-34.19	1-20-93	--	-34.19	1993	-60.05	1983	H	1983,1993
11N.37E.32.332243	AVMB	-6.93	1-20-93	+1.57	-6.93	1993	-8.50	1988	S	1983,1988,1993
12N.33E.05.124334	CHNL	-42.76	3-24-93	--	-42.76	1993	-43.11	1988	S	1988,1993
*12N.33E.05.43443	CHNL	-10.11	3-24-93	+1.17	-10.11	1993	-11.28	1988	S	1988,1993
12N.33E.07.124432	CHNL	-48.76	2-19-93	+1.64	-48.76	1993	-71.45	1954	S	1954,1983,1988,1993
12N.33E.09.242323	AVMB	-14.72	2-19-93	+0.40	-14.72	1993	-15.26	1983	S	1983,1988,1993
*12N.34E.02.21214	CHNL	-195.51	2-17-93	-6.74	-188.77	1988	-195.51	1993	S	1988,1993
12N.34E.02.33424	CHNL	-270.18	2-17-93	+1.64	-270.18	1993	-271.82	1988	S	1988,1993
*12N.34E.07.311412	CHNL	-37.02	2-17-93	+3.32	-37.02	1993	-42.65	1983	H	1983,1988,1993
12N.34E.08.21111	CHNL	-18.56	2-17-93	+1.78	-18.56	1993	-22.23	1983	S	1983,1988,1993
*12N.34E.08.24244	CHNL	-29.68	2-17-93	+0.43	-29.68	1993	-30.11	1988	S	1988,1993
*12N.34E.26.24444	CHNL	-14.18	2-16-93	+0.74	-14.18	1993	-14.92	1988	S	1988,1993
*12N.34E.34.11313	AVMB	-16.79	2-17-93	+4.26	-16.79	1993	-21.05	1988	S	1988,1993
12N.34E.34.42420	AVMB	-10.50	2-16-93	+1.55	-10.50	1993	-12.05	1988	S	1988,1993
12N.34E.36.43344	CHNL	-9.24	2-16-93	+9.89	-9.24	1993	-25.08	1983	U	1983,1988,1993
*12N.35E.10.23341	CHNL	-150.85	2-16-93	-0.39	-150.46	1988	-150.85	1993	S	1988,1993
*12N.35E.26.233142	CHNL	-218.37	2-16-93	+0.29	-218.37	1993	-218.66	1988	S	1988,1993
12N.35E.36.334413	AVMB	-13.24	2-16-93	+0.50	-13.24	1993	-13.74	1988	S	1988,1993
*12N.36E.02.11241	SNRS	-155.06	2-16-93	-1.42	-153.64	1988	-155.06	1993	S	1988,1993
*12N.36E.30.44412	CHNL	-25.28	1-28-93	+0.50	-25.28	1993	-25.78	1988	S	1988,1993
12N.36E.31.14123	AVMB	-11.40	1-28-93	+0.60	-11.40	1993	-12.00	1988	U	1988,1993
12N.36E.32.13333	AVMB	-8.51	1-28-93	+2.15	-8.51	1993	-10.66	1988	S	1988,1993
*13N.31E.36.21133	CHNL	-71.61	2-25-93	-1.12	-70.49	1988	-73.35	1983	S	1983,1988,1993
*13N.33E.02.442132	AVMB	-110.35	1-14-93	+2.20	-110.35	1993	-114.19	1967	I	1965-67,1973,1978,1983,1988,1993
13N.33E.03.123000	AVMB	-123.89	3-23-93	+4.05	-123.89	1993	-127.94	1988	U	1973,1978,1983,1988,1993
*13N.33E.05.132222	SNRS	-106.28	3-23-93	+4.25	-106.28	1993	-116.71	1978	I	1967,1973,1978,1983,1988,1993
13N.33E.06.111213	SNRS	-91.77	3-11-93	--	-88.54	1961	-97.41	1978	U	1961,1963,1965-67,1973,1978,1993
13N.33E.08.114422	SNRS	-75.13	3-25-93	-4.28	-68.97	1966	-90.07	1983	H	1965-67,1973,1978,1983,1988,1993
13N.33E.08.432322	SNRS	-93.23	3-25-93	+13.88	-93.23	1993	-107.11	1988	P	1988,1993
13N.33E.08.444230	SNRS	-73.22	3-25-93	+2.61	-73.22	1993	-126.10	1961	H	1960-61,1963-66,1988,1993
13N.33E.09.223331	SNRS	-101.55	3-25-93	--	-101.55	1993	-118.23	1978	I	1973,1978,1993
13N.33E.09.314443	SNRS	-79.63	3-23-93	+6.09	-78.79	1967	-103.25	1978	I	1967,1973,1978,1983,1988,1993
13N.33E.11.312123	SNRS	-100.02	3-25-93	+3.71	-100.02	1993	-103.73	1988	P	1988,1993
13N.33E.11.41340	SNRS	-118.91	3-25-93	+2.25	-118.91	1993	-131.29	1967	I	1966-67,1973,1978,1983,1988,1993
13N.33E.14.242334	SNRS	-108.48	3-25-93	+0.19	-108.48	1993	-111.23	1973	U	1973,1978,1983,1988,1993
*13N.33E.16.144312	SNRS	-46.58	3-23-93	+5.95	-46.58	1993	-90.90	1965	R	1965-67,1983,1988,1993

Table 22.--Well location and water-level data for selected wells in the Lower Canadian monitoring area, Quay County, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
13N.33E.18.12211	SNRS	-76.72	3-25-93	-6.93	-69.79	1988	-76.72	1993	P	1988,1993
13N.33E.28.124331A	CHNL	-110.30	3-11-93	--	-37.99	1960	-110.30	1993	I	1960,1967,1973,1993
13N.33E.34.11430	SNRS	-178.47	3-11-93	+4.27	-178.47	1993	-185.80	1983	C	1983,1988,1993
*13N.34E.16.311223	CHNL	-276.04	3-24-93	-0.38	-275.66	1988	-276.04	1993	S	1988,1993
*13N.34E.23.432434	SNRS	-181.67	3-26-93	+0.72	-181.67	1993	-182.39	1988	S	1983,1988,1993
13N.34E.32.111144	SNRS	-255.34	3-11-93	--	-127.90	1988	-255.34	1993	S	1988,1993
13N.34E.35.211331	SNRS	-163.00	3-26-93	+1.71	-163.00	1993	-164.82	1983	S	1983,1988,1993
*13N.35E.31.44441	SNRS	-255.69	3-26-93	-1.40	-253.73	1983	-255.69	1993	S	1983,1988,1993
*14N.34E.01.32244	AVMB	-130.18	1-14-93	-1.71	-128.39	1983	-130.18	1993	I	1983,1988,1993
14N.34E.03.22114	AVMB	-109.05	1-15-93	--	-104.32	1983	-109.05	1993	I	1983,1993
*14N.34E.05.424221	AVMB	-111.52	2-02-93	-0.19	-111.33	1988	-111.52	1993	S	1988,1993
14N.34E.10.12421	AVMB	-101.36	1-15-93	--	-101.36	1993	-101.36	1993	I	1983,1993
*14N.34E.22.114213	AVMB	-44.48	1-14-93	+0.49	-44.48	1993	-44.97	1988	U	1988,1993
*14N.34E.25.132313	SNRS	-165.89	1-14-93	-1.54	-162.57	1983	-165.89	1993	I	1983,1988,1993
14N.34E.28.231422	AVMB	-74.60	1-14-93	-0.08	-74.52	1988	-74.60	1993	S	1988,1993
14N.34E.31.31133	SNRS	-91.25P	3-03-93	--	-89.67	1988	-89.67	1988	I	1983,1988,1993
14N.34E.34.441212	SNRS	-121.45	1-15-93	+0.56	-121.45	1993	-122.01	1988	S	1988,1993
14N.35E.07.121131	AVMB	-140.80P	2-25-93	--	-138.56	1988	-138.56	1988	H	1988,1993
*14N.35E.12.41332	SNRS	-194.23	1-13-93	+1.22	-194.23	1993	-202.14	1983	I	1983,1988,1993
*14N.35E.33.21232	SNRS	-74.85	2-24-93	+0.99	-74.85	1993	-75.84	1988	I	1983,1988,1993
*14N.36E.03.24444	SNRS	-183.85	1-13-93	+0.37	-183.85	1993	-193.86	1983	I	1983,1988,1993
14N.36E.03.333332	SNRS	-171.63	1-13-93	+0.09	-171.63	1993	-179.72	1983	I	1983,1988,1993
14N.36E.04.24444	SNRS	-178.54	1-13-93	+1.53	-178.54	1993	-188.19	1983	I	1983,1988,1993
14N.36E.04.34444	AVMB	-161.50	1-13-93	+0.73	-161.50	1993	-164.73	1983	I	1983,1988,1993
14N.36E.06.2000	SNRS	-258.29	1-13-93	+0.06	-258.29	1993	-275.11	1983	I	1983,1988,1993
14N.36E.07.332421	SNRS	-168.31	1-13-93	+1.11	-168.31	1993	-175.46	1983	I	1983,1988,1993
14N.36E.07.44444	AVMB	-153.40	1-13-93	+1.64	-153.40	1993	-159.65	1983	I	1983,1988,1993
*14N.36E.08.21111	SNRS	-160.77	1-13-93	-0.15	-160.62	1988	-174.23	1983	I	1983,1988,1993
14N.36E.08.22222	SNRS	-167.75	1-13-93	-1.59	-166.16	1988	-183.04	1983	I	1983,1988,1993
14N.36E.25.3112122	SNRS	-131.05P	2-11-93	--	-130.15	1988	-130.15	1988	I	1983,1988,1993
*15N.34E.03.12433	OGLL	-102.28	3-24-93	+0.08	-102.28	1993	-104.39	1983	I	1983,1988,1993
15N.34E.04.12111	OGLL	-88.67	3-24-93	+0.47	-88.67	1993	-92.20	1983	I	1983,1988,1993
*15N.34E.28.32142	SNRS	-219.03	2-02-93	-4.70	-206.00	1983	-219.03	1993	U	1983,1988,1993
*15N.34E.30.13421	OGLL	-18.36	3-05-93	-0.15	-18.21	1988	-18.36	1993	S	1988,1993
15N.35E.11.21222	--	-90.14	1-26-93	--	-85.85	1991	-114.67	1974	U	1971-72,1974-80,1988-93
15N.35E.22.31110	OGLL	-80.00P	2-24-93	--	-84.13	1954	-84.13	1954	I	1954,1993
*15N.35E.24.31312	SNRS	-195.90	3-03-93	+1.11	-195.90	1993	-197.16	1983	I	1983,1988,1993
15N.35E.26.112321	OGLL	-71.40	2-24-93	+0.57	-71.40	1993	-71.97	1988	S	1988,1993
15N.36E.08.344322	OGLL	-106.14P	3-03-93	--	-105.71	1988	-105.71	1988	S	1988,1993
15N.36E.09.122433	OGLL	-109.18P	3-03-93	--	-108.80	1988	-108.80	1988	S	1988,1993

Table 22.--Well location and water-level data for selected wells in the Lower Canadian monitoring area, Quay County, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*15N.36E.10.224141	OGLL	-80.87	2-10-93	+0.06	-80.87	1993	-80.93	1988	S	1988,1993
15N.36E.12.423114	OGLL	-78.99P	2-10-93	--	-78.83	1988	-78.83	1988	S	1988,1993
15N.36E.14.324121	OGLL	-53.05P	2-10-93	--	-52.90	1988	-52.90	1988	S	1988,1993
15N.36E.33.33222	CHNL	-227.60	1-13-93	+0.97	-227.60	1993	-237.80	1983	I	1983,1988,1993
15N.36E.34.32444	CHNL	-184.85P	2-11-93	--	-183.99	1988	-183.99	1988	S	1988,1993
15N.37E.30.11231	AVMB	-26.35	2-10-93	--	-26.35	1993	-29.67	1954	I	1954,1988,1993
15N.37E.30.333211	SNRS	-226.95P	2-10-93	--	-227.18	1988	-227.18	1988	S	1988,1993
16N.34E.17.43423	OGLL	-77.62P	2-11-93	--	-77.30	1988	-77.30	1988	S	1988,1993
*16N.34E.20.34142	OGLL	-21.27	2-10-93	+0.36	-21.27	1993	-22.86	1983	I	1983,1988,1993
16N.34E.25.13440	OGLL	-216.33P	1-28-93	--	-225.07	1988	-225.07	1988	H	1988,1993
16N.34E.30.24113	OGLL	-104.98	1-28-93	+2.05	-104.98	1993	-113.60	1983	I	1983,1988,1993
16N.34E.31.312424	OGLL	-55.37	2-11-93	-0.52	-54.85	1988	-55.37	1993	S	1988,1993
16N.34E.33.111114	OGLL	-113.88	2-11-93	+2.99	-112.93	1955	-116.87	1988	I	1955,1988,1993
16N.34E.33.43331	OGLL	-78.81	2-11-93	+0.19	-73.56	1953	-79.00	1988	I	1953,1988,1993
*16N.35E.23.234211	OGLL	-40.25	1-11-93	-0.65	-39.60	1988	-40.25	1993	I	1983,1988,1993
*16N.36E.01.144241	OGLL	-105.70	1-07-93	-0.02	-105.68	1988	-105.70	1993	S	1988,1993
16N.36E.11.32211	OGLL	-70.49	1-07-93	-1.70	-68.79	1988	-70.49	1993	I	1953,1988,1993
*16N.36E.23.312241	AVMB	-25.24	1-20-93	+0.40	-25.24	1993	-25.64	1988	S	1988,1993
*16N.36E.30.24442	OGLL	-142.09	1-20-93	-0.20	-139.53	1954	-142.09	1993	I	1954,1988,1993
16N.36E.32.43213	OGLL	-127.05	1-20-93	-0.72	-126.33	1988	-127.05	1993	S	1988,1993
16N.37E.04.114144	AVMB	-17.41P	1-05-93	--	-1.69	1988	-1.69	1988	S	1988,1993
16N.37E.06.121	OGLL	-51.58P	1-07-93	--	-48.35	1954	-50.93	1988		1954,1988,1993
16N.37E.07.44233	AVMB	-4.49	1-05-93	+0.15	-4.49	1993	-4.64	1988	S	1988,1993
*17N.34E.01.42214	OGLL	-237.80	1-14-93	+1.31	-237.80	1993	-239.11	1988	I	1983,1988,1993
*17N.34E.10.23224	OGLL	-153.09	1-14-93	-0.19	-152.90	1988	-153.09	1993	S	1988,1993
*17N.34E.33.33431	OGLL	-185.88	1-14-93	+0.52	-185.88	1993	-186.40	1988	I	1983,1988,1993
*17N.35E.04.423424	OGLL	-224.59	1-14-93	-7.60	-216.99	1988	-224.59	1993	S	1988,1993
17N.35E.10.342434	OGLL	-197.87	1-07-93	+0.88	-197.87	1993	-198.75	1988	S	1988,1993
17N.35E.16.221	--	-159.54	1-26-93	--	-159.33	1993	-171.59	1988	I	1967-68,1971-82,1984,1986,1988-93
17N.35E.22.434314	OGLL	-117.91P	1-27-93	--	-117.79	1988	-117.79	1988	S	1988,1993
17N.35E.24.412	OGLL	-93.03P	1-27-93	--	-95.30	1953	-95.30	1953	I	1953,1993
17N.36E.14.31224	OGLL	-205.16P	1-13-93	--	-198.82	1988	-198.82	1988	H	1988,1993
17N.36E.15.333413	OGLL	-175.68P	1-13-93	--	-175.32	1988	-175.32	1988	S	1988,1993
17N.36E.20.24323	OGLL	-118.02P	1-13-93	--	-117.44	1988	-117.44	1988	I	1983,1988,1993
*17N.36E.23.34200	OGLL	-157.24	1-05-93	-0.43	-156.81	1988	-157.24	1993	H	1988,1993
17N.36E.25.443441	OGLL	-101.37P	1-15-93	--	-101.13	1988	-101.13	1988	H	1988,1993
17N.36E.30.244244	OGLL	-163.33P	1-27-93	--	-162.78	1988	-162.78	1988	S	1988,1993
17N.36E.34.22210	OGLL	-84.94P	1-07-93	--	-84.74	1988	-84.74	1988	S	1988,1993
17N.36E.34.321422	OGLL	-154.68	1-07-93	-0.22	-154.46	1988	-154.68	1993	S	1988,1993
17N.36E.35.313442	OGLL	-122.94P	1-17-93	--	-122.92	1988	-122.92	1988	S	1988,1993
19N.36E.23.2444	OGLL	-149.70	1-26-93	--	-145.22	1971	-157.23	1991	U	1967-68,1970-93

Carlsbad Monitoring Area

The Carlsbad monitoring area is located in Eddy County, southeastern New Mexico. This area has the same boundary as the Capitan Reef monitoring area. Wells completed in alluvial sediments are in the Carlsbad monitoring area, whereas wells completed in sediments other than alluvium are in the Capitan Reef monitoring area. Not all water-level changes are shown on the map; however, all well locations and water-level data are listed in the table. Well locations marked with an asterisk (*) in the table are plotted on the map.

Water-level declines range from less than 1 foot to more than 8 feet. Rises range from less than 1 foot to more than 5 feet.

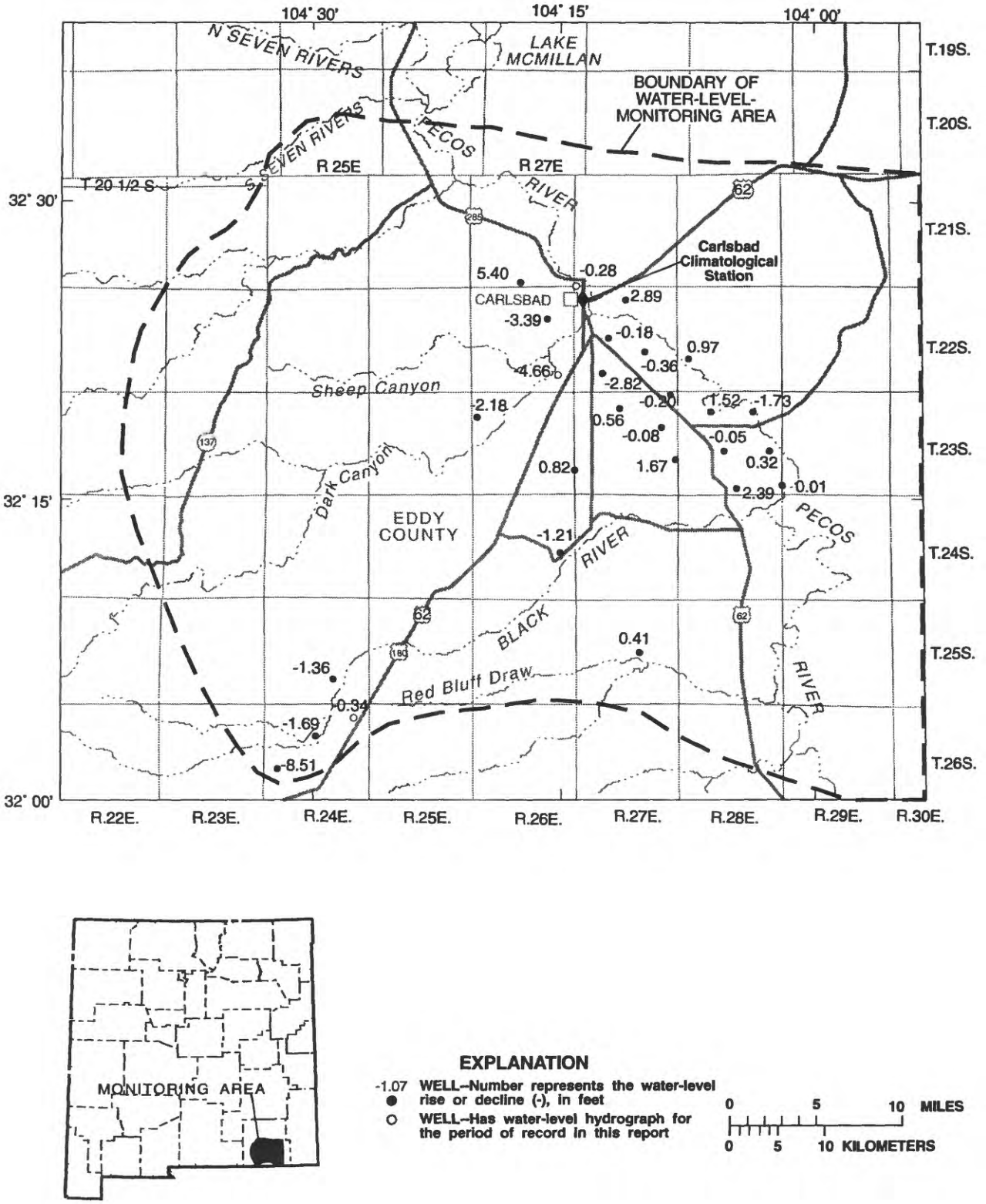


Figure 47.--Water-level changes for selected wells in the Carlsbad monitoring area, 1988-93.

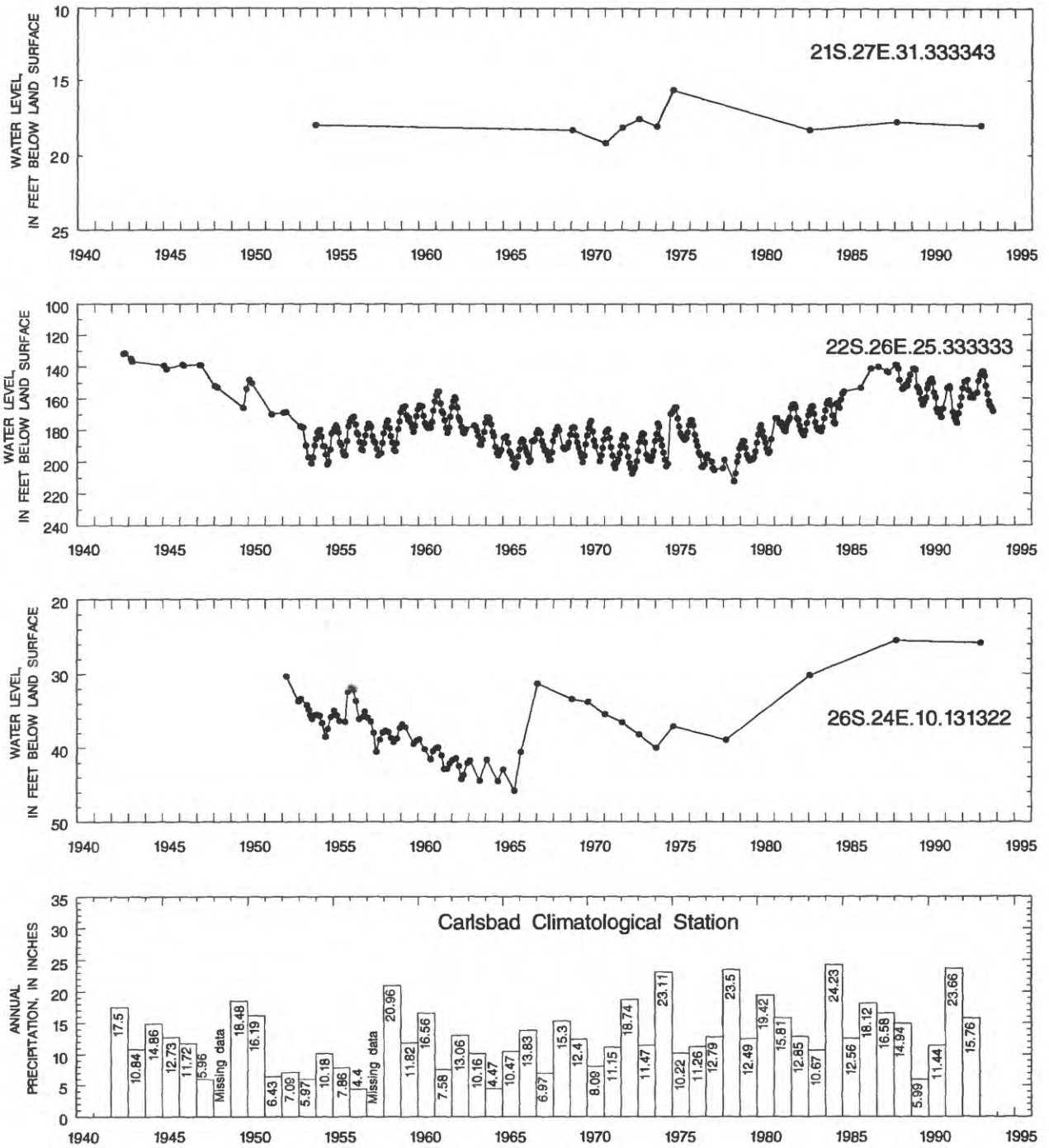


Figure 48.--Water-level data for selected wells in the Carlsbad monitoring area and annual precipitation at the Carlsbad Climatological Station. See figure 47 for location of wells and station.

Table 23.--Well location and water-level data for selected wells in the Carlsbad monitoring area, Eddy County, New Mexico

[*, well location and change data are plotted on the corresponding map. Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits. Winter water level, site status: R, recently pumped. Use of water: H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987-88 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*21S.26E.33.43224	AVMB	-56.36	1-13-93	+5.40	-45.70	1949	-64.04	1988	U	1949,1978,1983,1988,1993
*21S.27E.31.333343	AVMB	-18.00	1-07-93	-0.28	-15.59	1975	-19.15	1971	I	1953,1969,1971-75,1983,1988,1993
21S.27E.32.111243	AVMB	-15.84	1-14-93	-1.35	-13.36	1951	-17.26	1950	I	1947-75,1983,1988,1993
*22S.26E.11.34234	AVMB	-72.41	1-08-93	-3.39	-68.35	1947	-75.04	1978	I	1947,1978,1983,1988,1993
22S.26E.13.331241	AVMB	-55.47	1-08-93	+1.51	-55.47	1993	-58.15	1983	H	1983,1988,1993
*22S.26E.25.333333	AVMB	-143.44	1-27-93	-4.66	-138.78	1988	-182.37	1982	U	1942-43,1945-93
*22S.27E.04.44231	AVMB	-18.46	1-05-93	+2.89	-18.46	1993	-22.20	1983	U	1983,1988,1993
22S.27E.08.312443	AVMB	-17.33	1-05-93	-0.12	-16.68	1950	-23.10	1965	I	1947-67,1969-75,1978,1983,1988,1993
22S.27E.08.33443	AVMB	-24.47	1-06-93	-0.79	-17.80	1946	-30.18	1982	I	1946-47,1982,1988,1993
22S.27E.09.33334	AVMB	-33.88	1-05-93	-1.24	-32.64	1988	-48.44	1954	I	1947-48,1950-60,1962-75,1978, 1982-83,1988,1993
22S.27E.10.333333	AVMB	-6.68	1-06-93	+0.37	-3.80	1950	-45.64	1954	I	1947-79,1983,1988,1993
22S.27E.15.113133	AVMB	-9.29	1-06-93	+0.42	-9.29	1993	-21.30	1983	I	1947,1983,1988,1993
22S.27E.16.131111	AVMB	-33.43	1-06-93	-0.91	-32.52	1988	-43.28	1983	I	1983,1988,1993
*22S.27E.17.443444	AVMB	-39.85	1-06-93	-0.18	-39.67	1988	-63.43	1978	U	1978,1983,1988,1993
22S.27E.20.111341	AVMB	-43.99	1-06-93	-0.43	-43.56	1988	-49.08	1952	S	1948-52,1954-66,1983,1988,1993
22S.27E.21.344444	AVMB	-46.81	1-06-93	+0.68	-46.35	1950	-84.90	1978	I	1948-62,1978,1983,1988,1993
22S.27E.22.33333	AVMB	-37.14	1-07-93	+0.74	-37.14	1993	-56.35	1983	I	1983,1988,1993
22S.27E.22.421333	AVMB	-29.95	2-10-93	-1.67	-21.43	1950	-81.10	1977	I	1947-68,1970-93
*22S.27E.23.331113	AVMB	-27.42	1-07-93	-0.36	-27.06	1988	-47.30	1983	I	1983,1988,1993
22S.27E.24.43334	AVMB	-17.72	1-07-93	--	-17.72	1993	-32.76	1983	I	1954,1978,1983,1993
22S.27E.25.31333	AVMB	-17.53	1-07-93	-0.69	-16.84	1988	-45.86	1978	I	1978,1983,1988,1993
22S.27E.27.323123	AVMB	-42.31	1-07-93	+1.27	-42.31	1993	-65.04	1983	I	1955,1983,1988,1993
22S.27E.28.133333	AVMB	-54.83	1-06-93	-2.23	-52.60	1988	-107.67	1965	I	1947-79,1983,1988,1993
22S.27E.28.423131	AVMB	-44.72	1-07-93	+0.95	-44.72	1993	-76.31	1978	I	1947-48,1978,1983,1988,1993
22S.27E.29.113333	AVMB	-73.89	1-06-93	-4.14	-69.75	1988	-120.80	1954	I	1947-48,1954,1983,1988,1993
22S.27E.29.311311	AVMB	-84.90	1-06-93	-3.05	-81.85	1988	-129.70	1978	I	1947-48,1955,1978,1983,1988,1993
*22S.27E.32.21111	AVMB	-68.36	1-06-93	-2.82	-65.54	1988	-118.00	1978	I	1954,1978,1983,1988,1993
22S.27E.32.313313	AVMB	-107.02R	1-06-93	--	-95.07	1988	-170.79	1966	I	1962-79,1983,1988,1993
22S.27E.33.131112	AVMB	-67.37	1-06-93	-5.31	-59.75	1947	-102.34	1966	I	1947-57,1959-63,1966,1968-75,1983, 1988,1993
22S.27E.33.441314	AVMB	-76.90	1-07-93	+0.70	-76.90	1993	-119.60	1978	I	1955,1978,1983,1988,1993
22S.27E.34.321112	AVMB	-51.27	1-07-93	+0.04	-51.27	1993	-72.88	1983	I	1983,1988,1993
22S.27E.34.34333	AVMB	-60.10	1-07-93	+5.10	-60.10	1993	-89.10	1964	I	1964,1983,1988,1993
22S.28E.29.13322	AVMB	-23.89	1-05-93	-0.10	-23.77	1983	-23.89	1993	I	1983,1987,1993
*22S.28E.30.12243	AVMB	-18.63	1-05-93	+0.97	-18.63	1993	-19.60	1987	U	1965,1983,1987,1993
*23S.26E.07.31222	AVMB	-18.30	2-03-93	-2.18	-13.09	1959	-23.48	1954	S	1954-62,1964,1978,1983,1987,1993
*23S.26E.25.422323	AVMB	-164.40	2-04-93	+0.82	-160.52	1983	-165.22	1987	P	1978,1983,1987,1993
*23S.27E.01.23111	AVMB	-22.15	2-04-93	-0.20	-21.95	1988	-54.97	1978	I	1978,1983,1988,1993
23S.27E.03.13433	AVMB	-70.46	2-04-93	-0.67	-69.79	1988	-118.83	1978	I	1978,1983,1988,1993

Table 23.--Well location and water-level data for selected wells in the Carlsbad monitoring area, Eddy County, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987-88 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
23S.27E.04.31141	AVMB	-60.71	2-04-93	+0.67	-60.56	1988	-63.03	1978	I	1978,1983,1988,1993
*23S.27E.09.211124	AVMB	-55.43	2-10-93	+0.56	-41.70	1950	-68.22	1969	I	1950-54,1956-73,1985-93
23S.27E.09.211124A	AVMB	-60.20	2-04-93	+2.90	-53.61	1983	-64.72	1978	I	1954,1974-79,1981-85,1988,1993
23S.27E.10.413333	AVMB	-58.21	2-04-93	+10.51	-50.40	1947	-68.72	1988	I	1947,1983,1988,1993
23S.27E.11.113133	AVMB	-51.92	2-04-93	-0.32	-51.60	1988	-95.00	1978	I	1978,1983,1988,1993
23S.27E.12.233333	AVMB	-39.13	2-03-93	+0.21	-31.00	1950	-72.48	1978	I	1947-79,1983,1988,1993
*23S.27E.13.113113	AVMB	-71.69	2-03-93	-0.08	-71.61	1988	-88.19	1983	I	1983,1988,1993
23S.27E.14.124414	AVMB	-68.69	2-03-93	+0.76	-67.02	1950	-110.46	1978	U	1946-50,1952-79,1983,1988,1993
23S.27E.15.144334	AVMB	-87.60	2-03-93	-0.55	-74.00	1954	-119.08	1978	I	1954,1978,1983,1988,1993
23S.27E.23.11421	AVMB	-104.24	2-03-93	-1.96	-102.28	1988	-127.43	1981	H	1981,1983,1988,1993
23S.27E.24.11141	AVMB	-84.20	2-03-93	-0.91	-83.29	1988	-116.87	1978	I	1955,1978,1983,1988,1993
*23S.27E.25.22121	AVMB	-78.85	2-03-93	+1.67	-78.85	1993	-109.79	1978	I	1978,1983,1988,1993
23S.28E.05.111444	AVMB	-22.71	2-04-93	+0.28	-22.71	1993	-32.90	1954	I	1954,1983,1988,1993
23S.28E.07.11333	AVMB	-27.14	2-03-93	-0.71	-26.43	1987	-57.12	1978	I	1954,1978,1983,1987,1993
*23S.28E.08.223311	AVMB	-24.52	2-04-93	+1.52	-24.52	1993	-27.00	1978	I	1978,1988,1993
23S.28E.10.333423	AVMB	-19.32	2-03-93	+0.18	-19.32	1993	-22.89	1983	I	1983,1988,1993
*23S.28E.11.114421	AVMB	-17.31	2-03-93	-1.73	-10.90	1956	-21.75	1965	I	1947-79,1983,1988,1993
23S.28E.13.31111	AVMB	-11.08	2-02-93	-0.20	-10.88	1987	-11.54	1983	N	1983,1987,1993
23S.28E.14.241141	AVMB	-14.03	2-02-93	-0.43	-14.03	1993	-47.56	1978	I	1954,1978,1983,1987,1993
23S.28E.15.32111	AVMB	-12.27	2-03-93	+0.10	-10.43	1961	-30.60	1954	I	1954,1957-75,1983,1988,1993
23S.28E.17.33333	AVMB	-42.93	2-04-93	-2.48	-40.45	1987	-71.03	1978	I	1978,1983,1987,1993
23S.28E.18.111331	AVMB	-42.02	2-03-93	-0.20	-41.37	1987	-53.22	1983	I	1983,1987-88,1993
23S.28E.18.333332	AVMB	-20.58	2-03-93	+23.68	-10.15	1993	-44.26	1988	U	1954,1983,1988,1993
23S.28E.19.33120	AVMB	-66.93	2-03-93	-0.13	-66.80	1988	-93.77	1978	I	1978,1983,1988,1993
23S.28E.20.144444	AVMB	-52.08	2-04-93	-0.23	-48.80	1950	-69.50	1979	I	1948-72,1974-79,1983,1988,1993
*23S.28E.21.233331	AVMB	-36.72	2-03-93	-0.05	-36.67	1988	-57.59	1978	I	1978,1983,1988,1993
23S.28E.22.243441	AVMB	-38.46	2-03-93	+0.27	-38.46	1993	-43.27	1983	I	1983,1988,1993
23S.28E.23.33344	AVMB	-37.80	2-03-93	+0.18	-37.80	1993	-71.08	1978	I	1978,1983,1988,1993
*23S.28E.24.13434	AVMB	-37.95	2-02-93	+0.32	-36.30	1961	-47.20	1955	I	1946-64,1966-73,1975,1983, 1987-88,1993
23S.28E.25.213131A	AVMB	-33.84	2-02-93	-0.17	-32.18	1961	-42.20	1965	I	1955-68,1970-75,1983,1988,1993
23S.28E.28.232341	AVMB	-18.67	2-02-93	-5.35	-9.45	1983	-18.76	1978	I	1978,1983,1988,1993
23S.28E.29.24333	AVMB	-45.30	2-03-93	+0.24	-45.30	1993	-74.09	1978	I	1954,1978,1983,1988,1993
23S.28E.31.23142	AVMB	-56.75	2-03-93	+0.48	-56.15	1963	-63.13	1968	S	1954-66,1968,1978,1983,1988,1993
23S.28E.33.123432	AVMB	-10.75	2-03-93	+3.46	-10.75	1993	-19.50	1954	H	1954,1978,1983,1987,1993
*23S.28E.34.312234	AVMB	-7.11	2-02-93	+2.39	-7.11	1993	-11.04	1978	S	1978,1983,1987,1993
23S.28E.35.341144	AVMB	-21.03	2-02-93	-5.44	-15.59	1987	-21.45	1978	S	1978,1983,1987,1993
*23S.28E.36.244322	AVMB	-32.72	2-02-93	+0.01	-32.72	1993	-35.49	1978	I	1978,1983,1988,1993
*24S.26E.23.242243	AVMB	-25.21	2-05-93	-1.21	-23.90	1979	-34.93	1977	I	1974-75,1977-79,1983,1988,1993
*25S.24E.27.421121	AVMB	-53.49	1-06-93	-1.36	-50.12	1988	-69.80	1985	I	1952-66,1969-79,1981-93

Table 23.--Well location and water-level data for selected wells in the Carlsbad monitoring area, Eddy County, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1987-88 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
25S.24E.34.112231	AVMB	-83.21	1-07-93	-1.60	-81.61	1988	-92.77	1953	I	1952-55,1978,1983,1988,1993
*25S.27E.22.21211	AVMB	-17.87	1-05-93	+0.41	-16.69	1988	-22.70	1978	S	1978,1983,1987-88,1992-93
26S.23E.15.421233	AVMB	-108.96	1-07-93	--	-108.96	1993	-108.96	1993	S	1993
*26S.24E.09.443111	AVMB	-37.10	1-06-93	-1.69	-35.05	1988	-54.98	1965	I	1952-67,1969-93
*26S.24E.10.131322	AVMB	-25.85	1-06-93	-0.34	-25.51	1988	-45.82	1965	I	1952-67,1969-75,1978,1983,1988,1993
26S.24E.19.41314	AVMB	-49.75	1-08-93	--	-49.75	1993	-49.75	1993	U	1993
*26S.24E.19.43111	AVMB	-52.00	1-07-93	-8.51	-43.49	1988	-82.20	1978	H	1948,1978,1983,1988,1992-93

GROUND-WATER HYDROGRAPHS AND 5-YEAR GROUND-WATER-LEVEL CHANGES, 1984-93, FOR SELECTED AREAS IN AND ADJACENT TO NEW MEXICO

By D.W. Wilkins and B.M. Garcia

U.S. GEOLOGICAL SURVEY

Open-File Report 95-434

Prepared in cooperation with the

NEW MEXICO STATE ENGINEER OFFICE

Albuquerque, New Mexico

1995

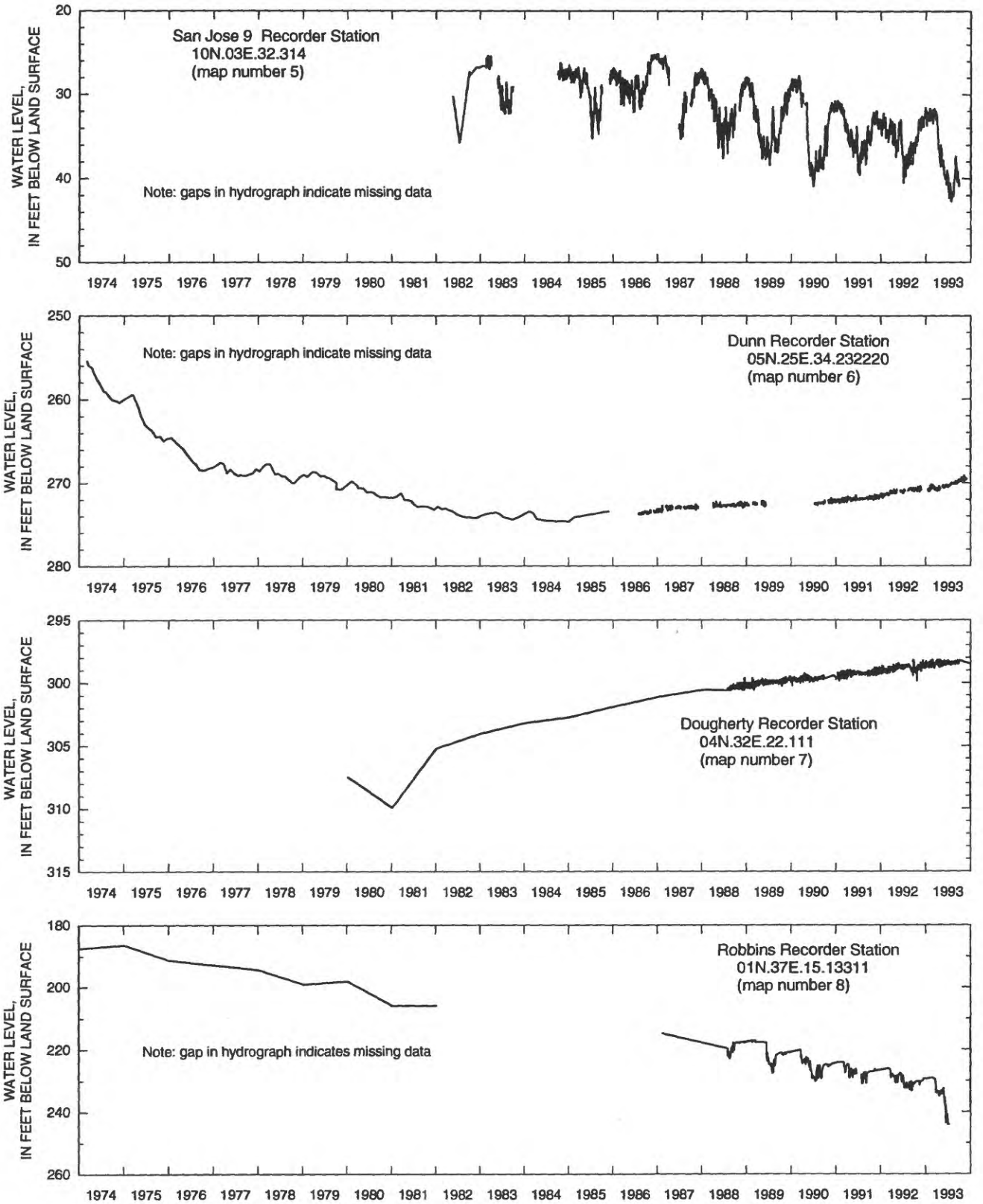


Figure 4.--Continuous water-level data for selected wells. See figure 2 and table 1 for location--Continued.

Capitan Reef Monitoring Area

The Capitan Reef monitoring area is located in Eddy County, southeastern New Mexico. The Capitan Reef and Carlsbad monitoring areas have the same boundary for water-level monitoring. However, water-level changes in wells completed in sediments other than alluvium are monitored in the Capitan Reef area; water-level changes in wells completed in alluvial sediments are monitored in the Carlsbad area.

Water-level declines range from less than 1 foot to more than 5 feet. Rises range from less than 1 to more than 5 feet. Water-level changes indicate declines ranging from less than 1 foot to more than 3 feet around Carlsbad. Water-level changes show a rise east and west of Carlsbad, ranging from less than 1 foot east of Carlsbad to more than 5 feet west of Carlsbad.

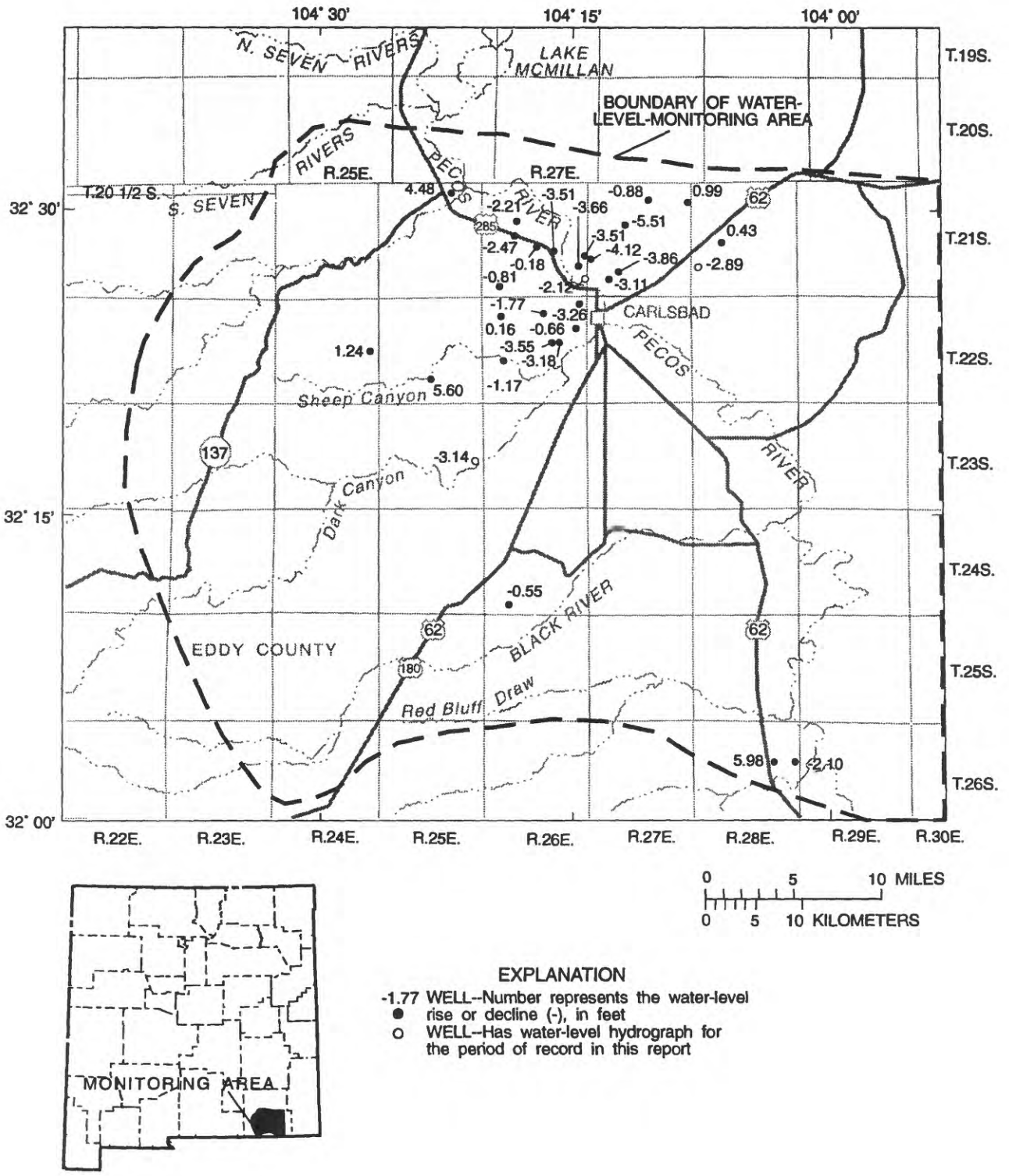


Figure 49.--Water-level changes for wells in the Capitan Reef monitoring area, 1988-93.

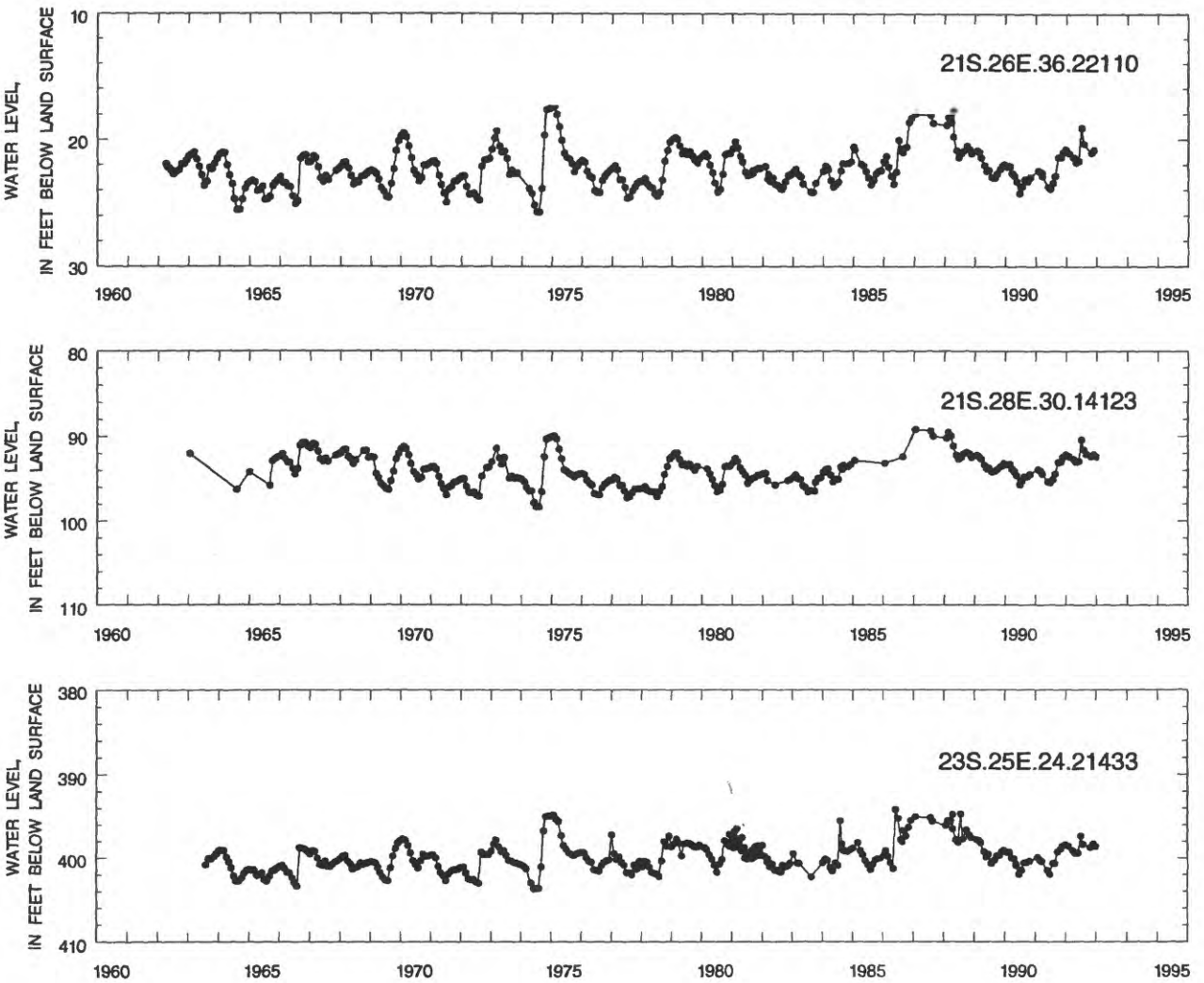


Figure 50.--Water-level data for selected wells in the Capitan Reef monitoring area. See figure 49 for location of wells.

Table 24.--Well location and water-level data for selected wells in the Capitan Reef monitoring area, Eddy County, New Mexico

[Geologic unit, primary producing zone for the well: CSTL, Castile Formation; CPTN, Capitan Limestone; RSLR, Rustler Formation; SVRV, Seven Rivers Formation; TNSL, Tansill Formation; YTES, Yates Formation, Artesia Group. Winter water level, site status: P, pumping. Use of water: H, domestic; I, irrigation; P, public supply; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
21S.25E.02.31111	RSLR	-39.93	2-12-93	+4.48	-39.93	1993	-45.38	1983	U	1957,1983,1987,1992-93
21S.26E.08.44120	YTES	-145.69	1-14-93	-2.21	-138.97	1948	-146.73	1978	S	1948,1954-55,1978,1983,1988,1993
21S.26E.17.41244	YTES	-181.77	1-12-93	-2.47	-174.00	1947	-182.42	1978	U	1947,1954-55,1978,1983,1987,1993
21S.26E.22.11333	YTES	-79.62	1-12-93	-0.18	-79.44	1987	-80.59	1978	S	1978,1987,1993
21S.26E.23.13333	CPTN	-43.56	1-14-93	-3.51	-34.30	1950	-45.35	1978	I	1949-70,1978,1983,1988,1993
21S.26E.24.423343	CPTN	-54.53	1-13-93	-3.51	-46.30	1950	-56.54	1965	I	1947-79,1983,1988,1993
21S.26E.25.14241	CPTN	-49.90	1-13-93	-3.66	-41.63	1949	-51.40	1982	I	1949,1954,1982,1988,1993
21S.26E.31.24344	CPTN	-194.37	1-13-93	-0.81	-193.56	1987	-196.70	1954	H	1949,1954,1983,1987,1993
21S.26E.36.22110	CPTN	-20.96	1-13-93	-2.12	-17.76	1988	-24.23	1990	P	1962-93
21S.27E.01.42333	RSLR	-12.95	1-13-93	+0.99	-3.51	1976	-14.17	1971	H	1971,1976,1983,1987,1993
21S.27E.03.32244	RSLR	-26.72	1-13-93	-0.88	-25.84	1987	-31.22	1968	S	1968,1971,1978,1987,1993
21S.27E.09.33433A	RSLR	-82.42	1-13-93	-5.51	-71.91	1983	-82.42	1993	S	1978,1983,1987-88,1993
21S.27E.19.334132	CPTN	-35.02	1-03-93	-4.12	-26.10	1950	-38.00	1965	I	1946-77,1979,1983-86,1988,1993
21S.27E.29.423113A	RSLR	-56.61	1-13-93	-3.86	-52.75	1988	-58.62	1978	H	1978,1983,1988,1993
21S.27E.32.112411	CPTN	-12.45	2-10-93	-3.11	-4.64	1950	-17.35	1974	I	1947-93
21S.28E.17.34444	CPTN	-47.13	1-13-93	+0.43	-47.13	1993	-49.54	1976	H	1965,1976,1983,1987-88,1993
21S.28E.30.14123	CPTN	-93.07	2-01-93	-2.89	-89.16	1987	-96.48	1983	U	1963-93
22S.24E.24.211113	YTES	-138.31	1-14-93	-1.24	-137.10	1948	-139.55	1987	S	1948,1978,1987,1993
22S.24E.27.43232	SVRV	-18.79	1-14-93	--	-18.61	1983	-22.70	1955	S	1947,1955,1978,1983,1993
22S.25E.13.33320	YTES	-19.45P	1-15-93	--	-117.64	1947	-120.86	1983	S	1947,1954,1978,1983,1993
22S.25E.27.31133	SVRV	-235.26	1-12-93	+5.60	-149.10	1954	-240.86	1987	S	1954,1978,1983,1987-88,1993
22S.26E.01.233323	CPTN	-35.04	1-07-93	-3.26	-31.78	1988	-37.09	1978	P	1948,1978,1983,1988,1993
22S.26E.03.344441	CPTN	-82.12	1-08-93	-1.77	-76.24	1959	-89.07	1983	I	1953-74,1976-79,1983,1988,1993
22S.26E.08.11312	YTES	1.53	1-08-93	+0.16	1.53	1993	-3.20	1949	U	1949,1978,1983,1988,1993
22S.26E.12.341421	CPTN	-33.09	1-07-93	-0.66	-28.42	1959	-34.24	1978	I	1954,1959,1978,1983,1988,1993
22S.26E.14.322331	CPTN	-101.14	1-08-93	-3.18	-95.55	1947	-102.75	1983	I	1947,1978,1983,1988,1993
22S.26E.15.42200	CPTN	-153.69	1-15-93	-3.55	-148.70	1956	-157.90	1964	U	1955-79,1983,1988,1993
22S.26E.20.31412	CPTN	-221.56	1-12-93	-1.17	-124.30	1955	-221.56	1993	S	1947,1955,1978,1983,1987,1993
22S.27E.05.142314	TNSL	-85.40	1-05-93	--	-85.40	1993	-90.46	1978	I	1950,1978,1983,1993
23S.25E.24.21433	CPTN	-399.21	2-02-93	-3.14	-394.71	1988	-402.26	1983	U	1963-93
24S.26E.32.141121	CSTL	-108.23	2-05-93	-0.55	-107.68	1987	-113.33	1983	H	1948,1978,1983,1987,1993
26S.28E.13.11214	RSLR	-59.83	1-05-93	-2.10	-53.10	1983	-60.00	1948	U	1948,1975-78,1983,1987-88,1993
26S.28E.14.11111	RSLR	-100.42	1-05-93	-5.98	-100.42	1993	-127.38	1983	U	1978,1983,1987,1993
26S.29E.22.333242	--	-57.38	1-05-93	--	-57.38	1993	-57.38	1993	U	1993

Animas Monitoring Area

The Animas monitoring area is in Hidalgo County, southwestern New Mexico. Water-level declines range from less than 1 foot to more than 16 feet. Rises range from less than 1 to more than 14 feet. Water-level declines in T. 24 S., R. 20 W. range from less than 1 foot to more than 3 feet. Parts of T. 25 S. and R. 20 W. have declines ranging from less than 1 foot to 9 feet. Water-level changes in three wells in T. 27 S., Rs. 19 and 20 W. are declines. Surrounding these areas of declines are rises ranging from greater than 14 feet in T. 28 S., R. 19 W. to less than 1 foot.

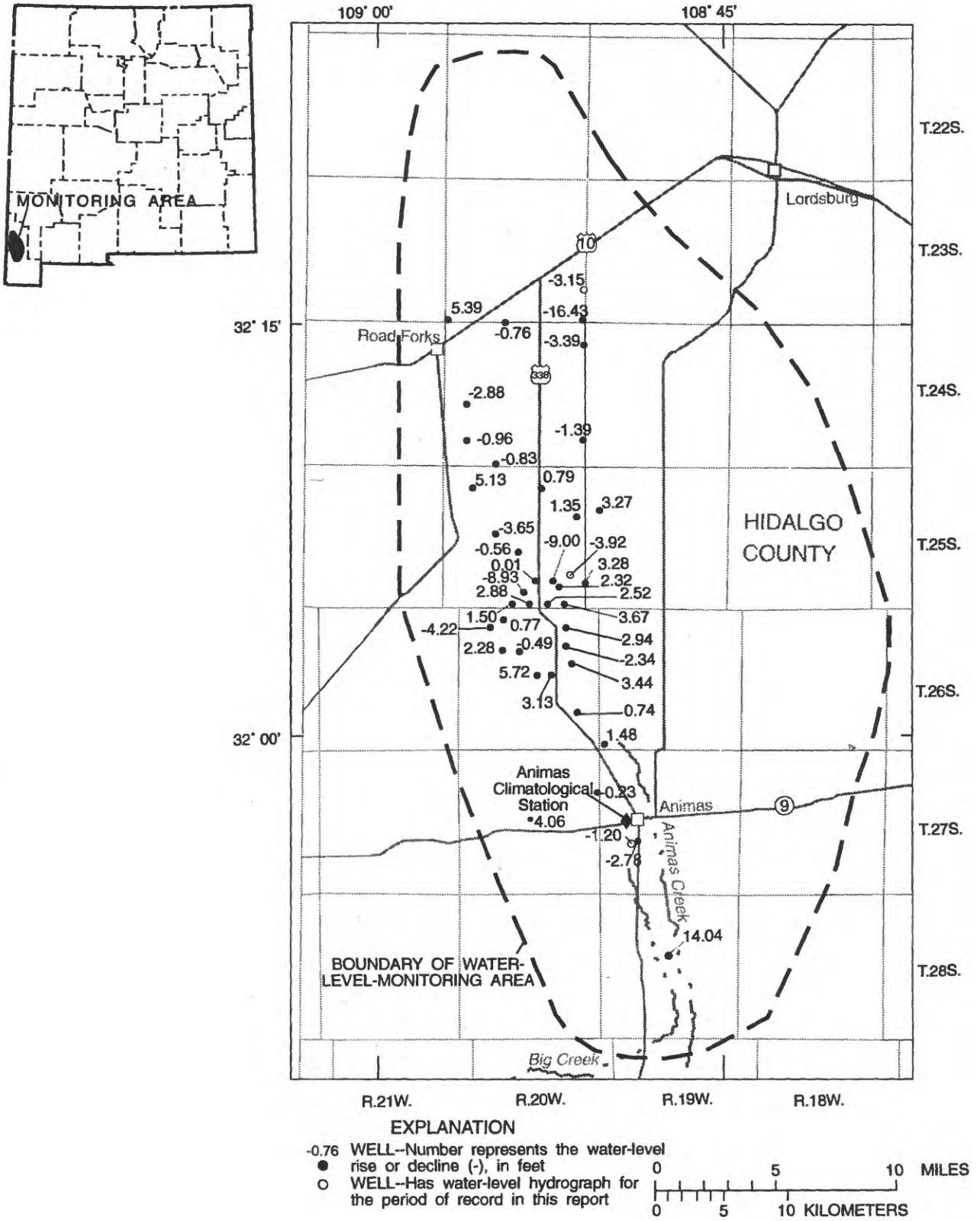


Figure 51.--Water-level changes for wells in the Animas monitoring area, 1988-93.

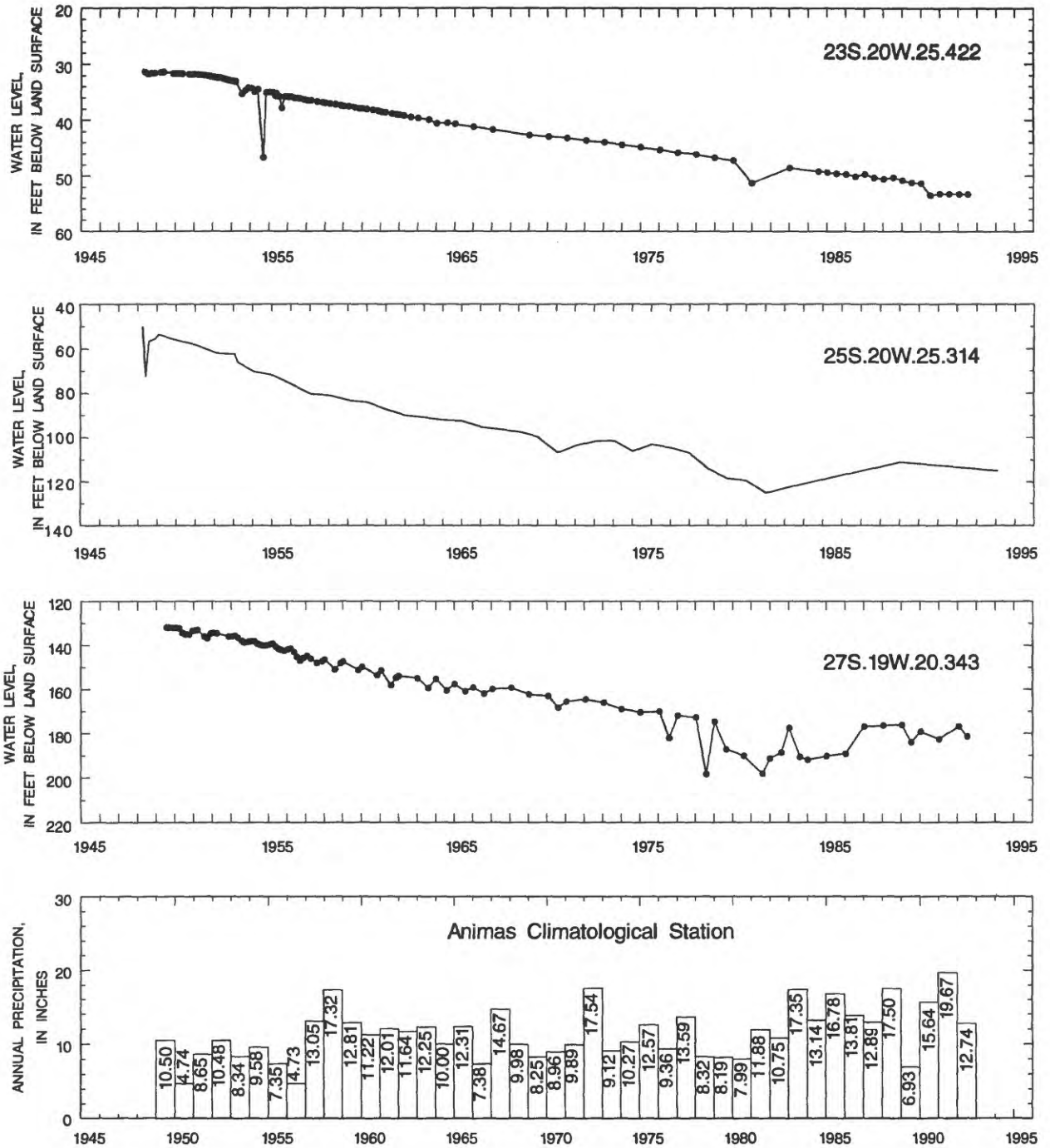


Figure 52.--Water-level data for selected wells in the Animas monitoring area and annual precipitation at the Animas Climatological Station. See figure 51 for location of wells and station.

Table 25.--Well location and water-level data for selected wells in the Animas monitoring area, Hidalgo County, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; BLSN, bolson fill. Use of water: H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
23S.20W.25.422	AVMB	-53.64	1-12-93	-3.15	-31.36	1948	-54.44	1993	I	1948-67,1969-81,1983-93
23S.20W.31.333	BLSN	-38.05	1-12-93	+5.39	-31.78	1950	-43.44	1988	S	1948-93
23S.20W.36.444	AVMB	-70.90	2-04-93	-16.43	-33.73	1951	-70.90	1993	I	1951,1953-63,1965-67,1969-81, 1983-84,1988,1993
24S.20W.01.444	AVMB	-65.00	2-04-93	-3.39	-29.75	1948	-65.00	1993	I	1948-67,1971-72,1974-81,1983, 1988,1993
24S.20W.04.211	AVMB	-29.59	2-04-93	-0.76	-23.78	1974	-29.59	1993	S	1974-81,1983,1988,1993
24S.20W.19.230B	AVMB	-81.43	2-03-93	-2.88	-70.01	1975	-90.26	1983	I	1974-81,1983,1988,1993
24S.20W.25.444	AVMB	-63.34	2-04-93	-1.39	-54.33	1974	-63.34	1993	I	1974-81,1983,1988,1993
24S.20W.31.221	AVMB	-75.78	2-03-93	-0.96	-70.40	1974	-76.20	1983	U	1974-81,1983,1988,1993
24S.20W.33.333	AVMB	-66.72	2-03-93	-0.83	-59.82	1976	-66.72	1993	S	1974-81,1983,1988,1993
24S.20W.34.444	AVMB	-58.12	1-12-93	--	-25.77	1951	-59.71	1993	S	1951-71,1973-93
25S.19W.07.344	AVMB	-59.59	2-03-93	+3.27	-34.44	1959	-62.86	1988	I	1959-64,1966-79,1981,1983,1988,1993
25S.20W.08.111A	AVMB	-102.94	2-03-93	+5.13	-73.09	1964	-108.07	1988	H	1963-81,1983,1988,1993
25S.20W.10.222	--	-68.40	1-03-93	+0.79	-62.95	1974	-69.19	1988	H	1974-81,1983,1988,1993
25S.20W.12.123A	AVMB	-63.36	2-03-93	--	-63.36	1993	-65.67	1983	S	1980-81,1983,1993
25S.20W.13.213A	AVMB	-72.40	2-03-93	+1.35	-71.87	1976	-75.38	1981	I	1976-81,1983,1988,1993
25S.20W.16.333	AVMB	-91.83	2-03-93	-3.65	-57.04	1955	-91.83	1993	I	1955-81,1983,1988,1993
25S.20W.22.313	AVMB	-96.80	2-03-93	-0.56	-66.27	1955	-96.80	1993	I	1955,1974-81,1983,1988,1993
25S.20W.25.314	AVMB	-114.98	2-04-93	-3.92	-50.07	1948	-125.20	1981	I	1948-81,1983,1988,1993
25S.20W.25.444A	AVMB	-125.80	2-04-93	+3.28	-97.61	1960	-193.60	1966	I	1959-81,1983,1988,1993
25S.20W.26.344	AVMB	-112.95	2-04-93	-9.00	-48.00	1948	-112.95	1993	I	1948-73,1975-81,1983,1988,1993
25S.20W.27.434A	AVMB	-103.23	2-04-93	+0.01	-93.90	1967	-106.35	1980	I	1967-81,1983,1988,1993
25S.20W.33.434	AVMB	-98.46	2-04-93	+1.50	-98.46	1993	-106.80	1981	I	1974-81,1983,1988,1993
25S.20W.34.134	AVMB	-114.70	2-04-93	-8.93	-99.26	1974	-114.70	1993	I	1974-81,1983,1988,1993
25S.20W.34.344A	AVMB	-115.80	2-04-93	+2.88	-94.73	1961	-118.68	1988	I	1961-81,1983,1988,1993
25S.20W.35.241A	AVMB	-112.78	2-04-93	+2.32	-101.95	1969	-121.81	1980	I	1969-72,1974-75,1977-80,1983, 1988,1993
25S.20W.35.343	AVMB	-114.17	2-04-93	+2.52	-104.47	1962	-126.00	1981	I	1962-81,1983,1988,1993
25S.20W.35.444A	AVMB	-120.09	2-04-93	+3.67	-116.42	1974	-136.88	1981	U	1974-81,1983,1988,1993
26S.19W.31.333	AVMB	-137.17	1-12-93	+1.48	-84.13	1949	-147.93	1977	I	1948-93
26S.20W.02.344	AVMB	-118.80	2-04-93	+2.94	-66.33	1949	-121.74	1988	I	1948-64,1967-81,1983,1988,1993
26S.20W.04.444	AVMB	-116.57	2-08-93	--	-60.99	1948	-116.57	1993	U	1948-52,1993
26S.20W.05.334A	AVMB	-109.27	2-08-93	-4.22	-68.58	1953	-109.27	1993	H	1953-68,1971-81,1983,1988,1993
26S.20W.05.422	AVMB	-110.60	2-08-93	+0.77	-54.72	1948	-115.82	1980	S	1948-63,1966-67,1972-81,1983, 1988,1993
26S.20W.05.443	AVMB	-117.54	2-08-93	--	-109.32	1976	-117.54	1993	I	1974-81,1983,1993
26S.20W.08.434	AVMB	-107.57	1-12-93	+2.28	-60.54	1948	-117.64	1981	I	1948-81,1983,1985-93
26S.20W.09.344	AVMB	-122.42	2-08-93	-0.49	-121.93	1988	-128.57	1981	I	1974-81,1983,1988,1993

Table 25.--Well location and water-level data for selected wells in the Animas monitoring area, Hidalgo County, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
26S.20W.11.342	AVMB	-117.49	2-08-93	-2.34	-64.63	1948	-120.06	1980	I	1948-61,1964-68,1970,1972-81, 1983,1988,1993
26S.20W.14.234	AVMB	-113.78	2-08-93	+3.44	-113.78	1993	-117.22	1988	H	1980,1983,1988,1993
26S.20W.15.343	AVMB	-103.08	2-08-93	+5.72	-103.08	1993	-121.29	1981	I	1974-81,1983,1988,1993
26S.20W.15.444	AVMB	-108.64	2-08-93	+3.13	-62.91	1949	-137.28	1962	I	1948-81,1983,1988,1993
26S.20W.23.433	--	-138.82	2-09-93	--	-46.55	1986	-138.82	1993		1948-52,1986,1993
26S.20W.26.422	AVMB	-133.45	2-09-93	+0.74	-75.65	1948	-151.13	1981	I	1948-81,1983,1988,1993
26S.20W.29.142	AVMB	-102.08	2-08-93	--	-48.86	1948	-102.71	1981	U	1948-68,1970-71,1973-81,1983,1993
27S.19W.20.343	AVMB	-177.59	1-12-93	-1.20	-132.12	1950	-198.30	1981	U	1949-93
27S.19W.20.433	AVMB	-178.30	2-09-93	-2.78	-131.29	1950	-182.72	1977	I	1949-62,1967-81,1983,1988,1993
27S.20W.12.444A	AVMB	-154.09	2-09-93	-0.23	-111.67	1953	-164.30	1966	I	1953-81,1983,1988,1993
27S.20W.21.222	AVMB	-144.50	2-09-93	+4.06	-98.83	1955	-168.45	1966	I	1955-81,1983,1988,1993
28S.19W.16.244A	AVMB	-226.72	2-09-93	+14.04	-195.00	1961	-240.76	1988	I	1961,1973,1978,1988,1993
28S.19W.27.314	AVMB	-274.65	2-09-93	--	-148.92	1975	-274.65	1993	I	1974-75,1977-81,1983,1993

Playas Monitoring Area

The Playas monitoring area is in Hidalgo and Grant Counties, southwestern New Mexico. Water-level declines range from less than 1 to more than 13 feet. Rises range from less than 1 to more than 4 feet. Most water-level changes are rises. Two small areas in T. 32 S., R. 16 W. and T. 33 S., Rs. 16 and 17 W. show declines.

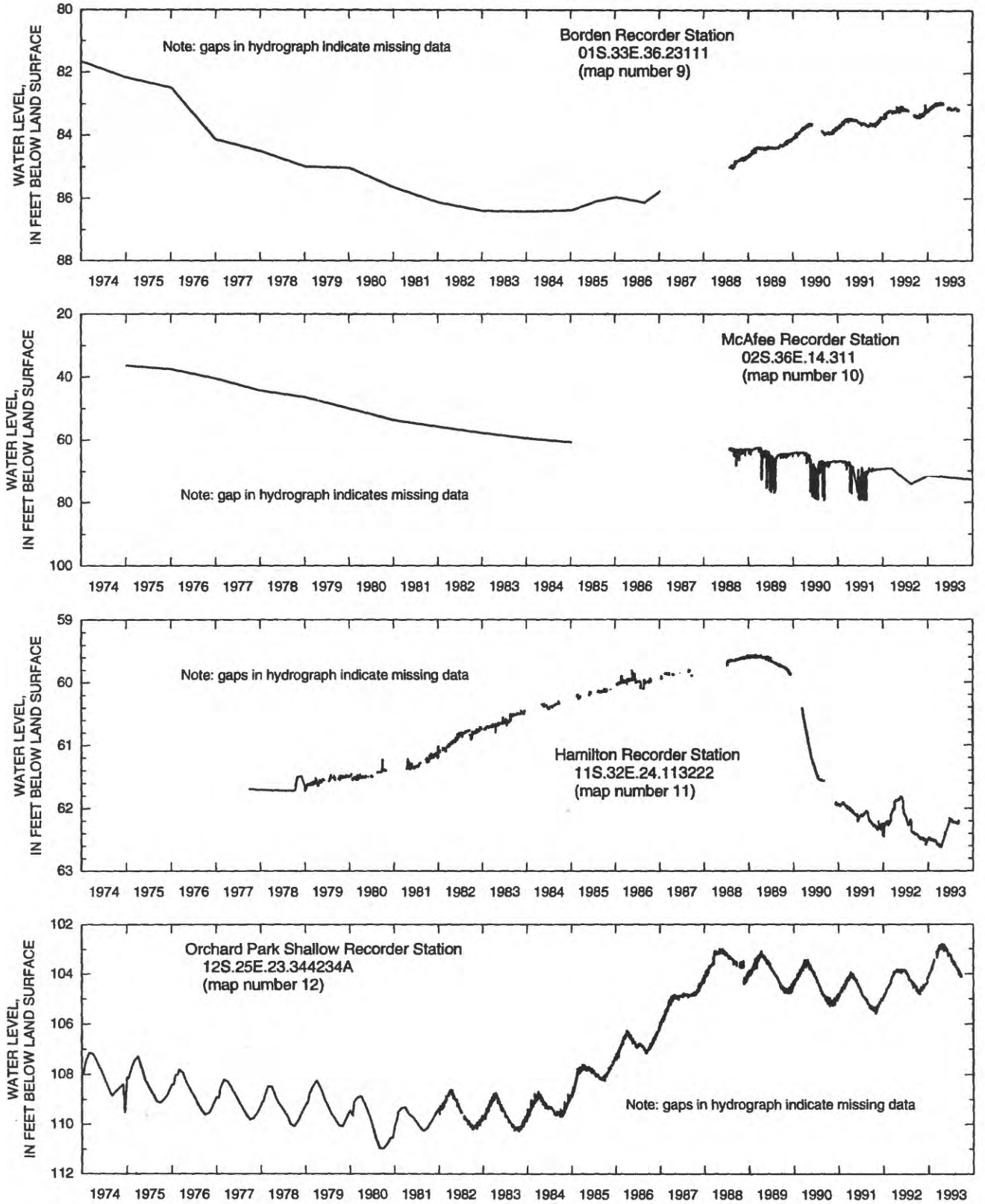


Figure 4.--Continuous water-level data for selected wells. See figure 2 and table 1 for locations--Continued.

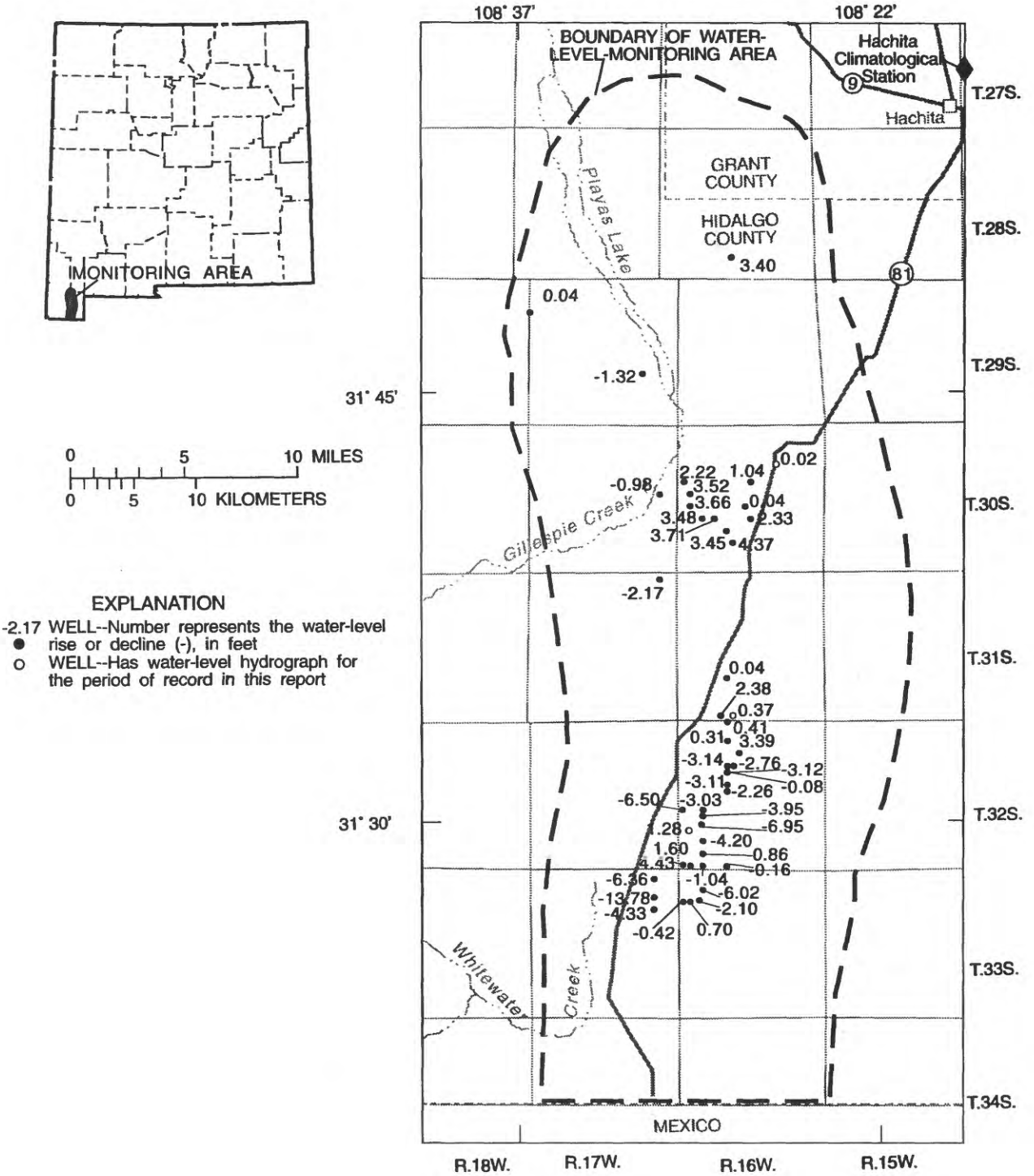


Figure 53.--Water-level changes for wells in the Playas monitoring area, 1988-93.

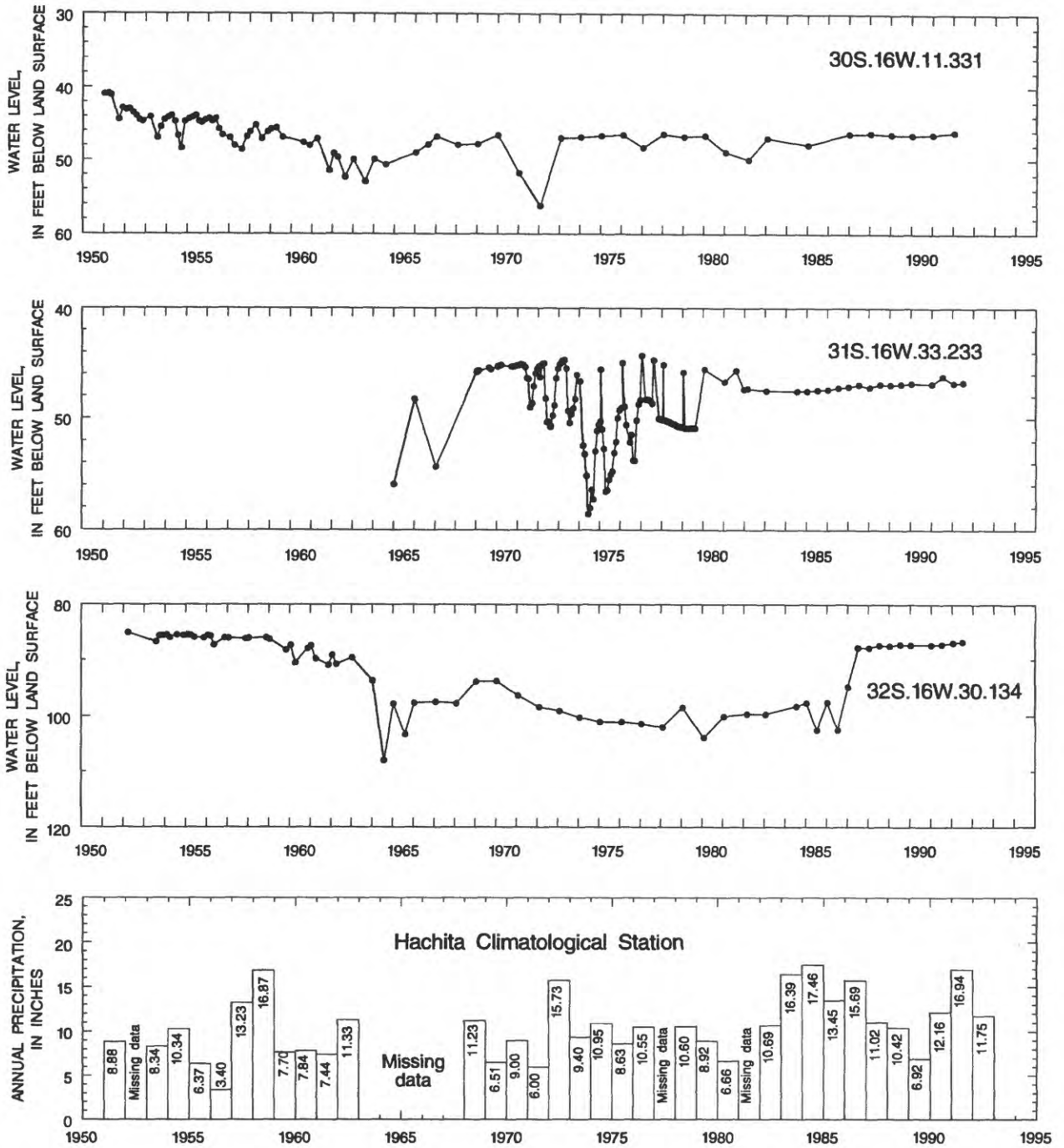


Figure 54.--Water-level data for selected wells in the Playas monitoring area and annual precipitation at the Hachita Climatological Station. See figure 53 for location of wells and station.

Table 26.--Well location and water-level data for selected wells in the Playas monitoring area, Hidalgo and Grant Counties, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits. Winter water level, site status: P, pumping. Use of water: H, domestic; I, irrigation; N, industrial; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
28S.16W.33.213	AVMB	-20.30	1-22-93	+3.40	-20.30	1993	-39.90	1979	H	1974-81,1983,1988,1993
29S.17W.07.313A	AVMB	-199.80	1-21-93	+0.04	-192.88	1974	-199.84	1988	S	1974-83,1988,1993
29S.17W.26.211	AVMB	-25.61	1-11-93	-1.32	-22.43	1982	-34.18	1976	N	1974-83,1985-93
30S.16W.07.333	AVMB	-71.50	1-21-93	--	-53.85	1966	-71.50	1993	--	1956,1958-62,1966-77,1979-83,1993
30S.16W.11.331	AVMB	-46.28	1-11-93	+0.02	-40.88	1951	-56.23	1972	I	1951-64,1966-83,1985,1987-93
30S.16W.14.211A	AVMB	-40.58	1-15-93	--	-39.26	1956	-56.04	1960	I	1954-62,1964-67,1970-73,1978-81, 1993
30S.16W.16.244	AVMB	-42.60	1-26-93	+1.04	-37.48	1951	-47.70	1968	I	1950-55,1957-62,1966-83,1988,1993
30S.16W.18.133	AVMB	-76.80	1-21-93	+2.22	-67.78	1974	-81.55	1979	I	1974-77,1979-83,1988,1993
30S.16W.18.433	AVMB	-65.10	1-21-93	+3.52	-62.67	1974	-72.53	1978	I	1974-83,1988,1993
30S.16W.19.233A	AVMB	-71.60	1-21-93	+3.66	-67.47	1974	-78.02	1981	I	1974-83,1988,1993
30S.16W.20.333B	--	-50.70	1-21-93	+3.48	-50.70	1993	-57.51	1980	I	1978,1980,1983,1988,1993
30S.16W.20.433	AVMB	-45.45	1-21-93	+3.71	-41.68	1977	-49.91	1975	I	1974-83,1988,1993
30S.16W.21.412	AVMB	-44.35	1-21-93	+0.04	-37.34	1948	-51.35	1956	U	1948,1953-83,1988,1993
30S.16W.21.444	AVMB	-47.40	1-21-93	+2.33	-47.40	1993	-62.02	1979	I	1974-83,1988,1993
30S.16W.28.334	AVMB	-49.60	1-22-93	+4.37	-48.03	1950	-138.20	1962	I	1949-50,1954-83,1988,1993
30S.16W.29.422	AVMB	-47.40	1-21-93	+3.45	-43.85	1949	-61.17	1953	--	1948-63,1967-83,1988,1993
30S.17W.13.343	--	-131.90	1-21-93	-0.98	-126.82	1982	-136.87	1978	I	1978-83,1988,1993
31S.16W.28.133	AVMB	-44.60	1-21-93	+0.04	-42.94	1978	-48.98	1976	I	1974-83,1988,1993
31S.16W.32.443	AVMB	-34.20	1-21-93	+2.38	-33.47	1974	-36.58	1988	I	1974-83,1988,1993
31S.16W.33.233	AVMB	-46.84	1-11-93	+0.37	-44.30	1977	-55.93	1965	I	1965-67,1969-93
31S.16W.33.343	AVMB	-43.30	1-21-93	+0.41	-43.30	1993	-47.55	1982	I	1974-83,1988,1993
31S.17W.01.134	AVMB	-151.70	1-22-93	-2.17	-144.98	1978	-155.97	1983	I	1978-83,1988,1993
32S.16W.04.133	AVMB	-43.10	1-21-93	--	-43.10	1993	-47.52	1974	I	1974-83,1993
32S.16W.04.333	AVMB	-46.30	1-21-93	+0.31	-46.30	1993	-68.70	1965	I	1965-83,1988,1993
32S.16W.09.233	AVMB	-62.25	1-21-93	+3.39	-59.30	1977	-74.21	1974	I	1974-83,1988,1993
32S.16W.09.333	AVMB	-67.70	1-15-93	-3.14	-62.89	1979	-72.28	1968	I	1965,1967-83,1988,1993
32S.16W.09.343	AVMB	-68.20	1-15-93	-2.76	-65.44	1988	-70.38	1974	I	1974-83,1988,1993
32S.16W.16.113	AVMB	-66.30	1-15-93	-3.12	-63.18	1988	-71.83	1974	I	1974-83,1988,1993
32S.16W.16.113A	AVMB	-67.60	1-15-93	-0.80	-66.80	1988	-71.09	1974	I	1974-83,1988,1993
32S.16W.16.143	AVMB	-66.10	1-21-93	--	-64.42	1979	-69.63	1977	I	1974-83,1993
32S.16W.16.313	AVMB	-69.75	1-15-93	-3.11	-66.64	1988	-81.30	1977	I	1974-83,1988,1993
32S.16W.16.333	AVMB	-71.90	1-15-93	-2.26	-67.39	1970	-75.80	1965	I	1965-83,1988,1993
32S.16W.19.313	AVMB	-92.50	1-15-93	-6.50	-86.00	1988	-92.50	1993	I	1974-83,1988,1993
32S.16W.20.313	AVMB	-79.50	1-15-93	-3.03	-76.47	1988	-83.95	1980	I	1974-76,1978-83,1988,1993
32S.16W.20.333	AVMB	-86.15	1-15-93	-3.95	-75.65	1961	-91.44	1965	I	1961-63,1965-81,1983,1988,1993
32S.16W.29.134	AVMB	-95.75	1-15-93	-6.95	-77.87	1956	-97.93	1980	I	1956,1974-83,1988,1993
32S.16W.29.333	AVMB	-101.20	1-15-93	-4.20	-86.54	1961	-106.92	1980	I	1961-64,1966-83,1988,1993
32S.16W.30.134	AVMB	-86.56	1-11-93	+1.28	-85.11	1952	-108.02	1964	I	1952-93

Table 26.--Well location and water-level data for selected wells in the Playas monitoring area, Hidalgo and Grant Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
32S.16W.31.333	AVMB	-119.10	1-15-93	+4.43	-115.81	1979	-125.52	1980	I	1974-83,1988,1993
32S.16W.31.433	AVMB	-114.60	1-15-93	+1.60	-114.60	1993	-125.05	1978	I	1974-79,1981-83,1988,1993
32S.16W.32.133	AVMB	-112.50	1-15-93	+0.86	-110.68	1979	-118.52	1980	I	1974-83,1988,1993
32S.16W.32.333	AVMB	-118.58	1-15-93	-1.04	-105.23	1957	-130.85	1980	I	1957,1959-65,1967-81,1983,1988,1993
33S.16W.05.222	AVMB	-141.80	1-15-93	-0.16	-132.64	1962	-148.75	1977	U	1962-65,1967,1970-83,1988,1993
33S.16W.06.444	AVMB	-147.70	1-15-93	-6.02	-130.30	1961	-155.59	1970	I	1961-77,1979-83,1988,1993
33S.16W.07.133	AVMB	-139.40	1-15-93	-0.42	-138.98	1988	-150.45	1978	I	1974-83,1988,1993
33S.16W.07.144	AVMB	-147.60	1-15-93	+0.70	-147.60	1993	-159.69	1978	I	1974-83,1988,1993
33S.16W.07.244	AVMB	-160.70	1-15-93	-2.10	-157.70	1969	-171.60	1970	I	1964-77,1979-83,1988,1993
33S.16W.20.343	AVMB	-217.80P	1-26-93	--	-206.27	1961	-227.88	1974	U	1961-70,1973-81,1983,1993
33S.16W.32.310A	AVMB	-219.70	1-26-93	--	-219.70	1993	-228.63	1978	S	1974-81,1983,1993
33S.17W.01.133	AVMB	-148.70	1-15-93	-6.36	-142.34	1988	-148.78	1978	I	1974-83,1988,1993
33S.17W.12.131	AVMB	-168.60	1-15-93	-13.78	-154.82	1988	-169.26	1978	I	1974-83,1988,1993
33S.17W.12.331	AVMB	-171.55	1-15-93	-4.33	-159.50	1973	-242.00	1966	U	1965-69,1971-83,1988,1993

Lordsburg Monitoring Area

The Lordsburg monitoring area is in Grant, Hidalgo, and Luna Counties, southwestern New Mexico. No specific areas have predominant rises or declines. Rises range from less than 1 foot to more than 23 feet. Declines range from less than 1 foot to more than 8 feet.

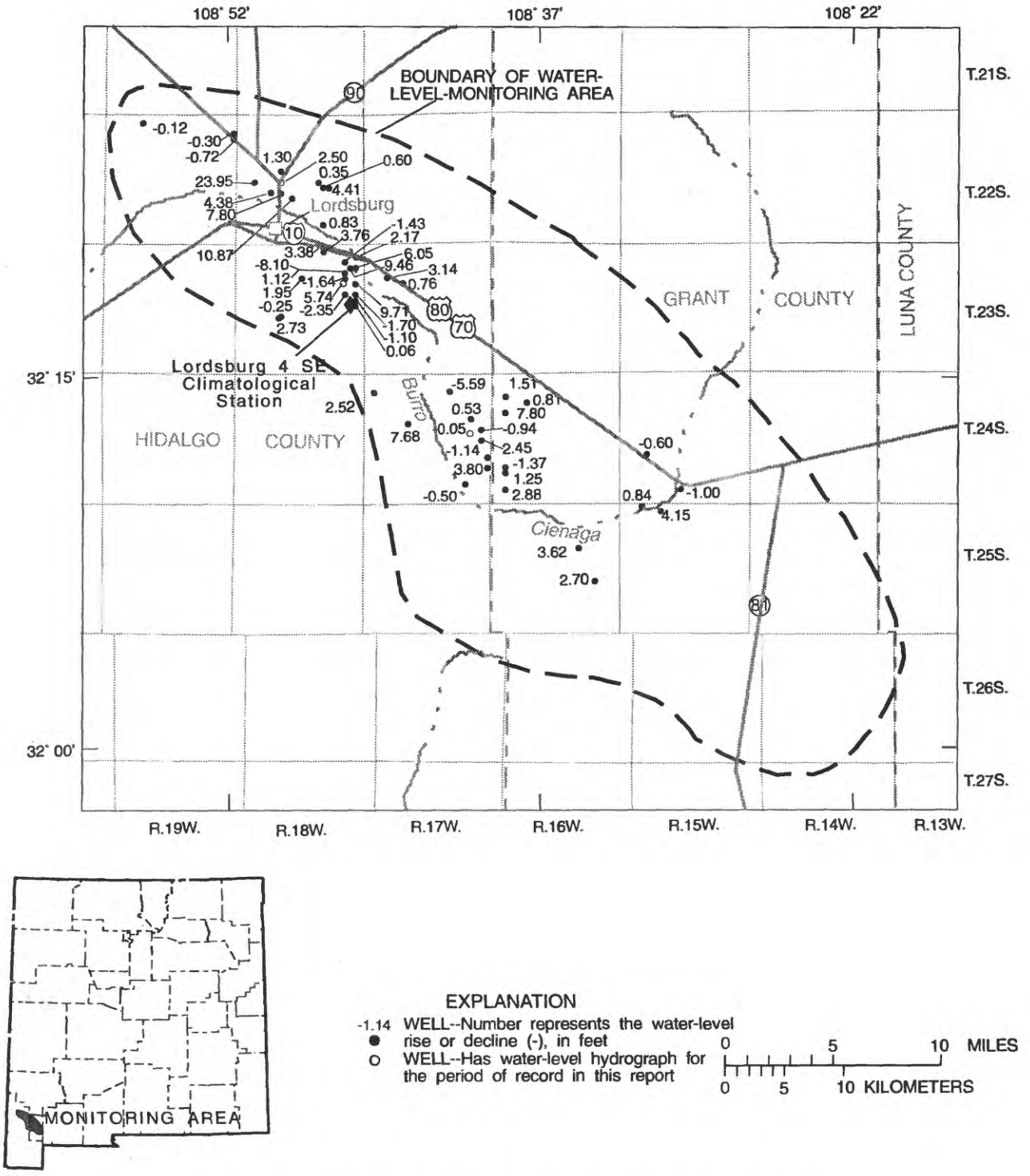


Figure 55.--Water-level changes for wells in the Lordsburg monitoring area, 1988-93.

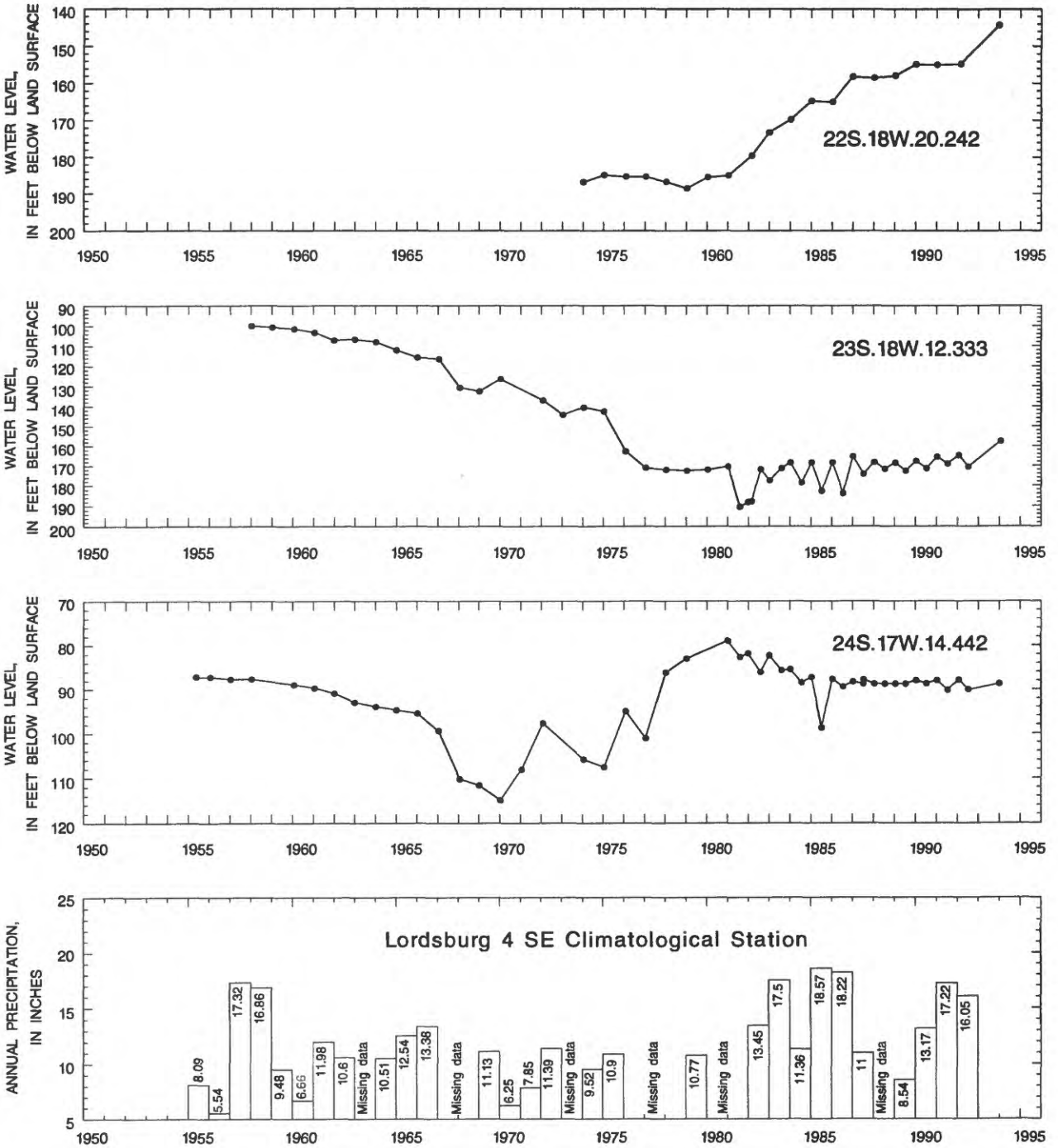


Figure 56.--Water-level data for selected wells in the Lordsburg monitoring area and annual precipitation at the Lordsburg 4 SE Climatological Station. See figure 55 for location of wells and station.

Table 27.--Well location and water-level data for selected wells in the Lordsburg monitoring area, Grant, Hidalgo, and Luna Counties, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits. Winter water levels, site status: P, pumping. Use of water: H, domestic; I, irrigation; N, idustrial; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
22S.18W.17.424	AVMB	-137.70	1-12-93	+1.30	-137.23	1955	-159.67	1971	S	1955,1971,1980,1983,1988,1993
22S.18W.19.232	AVMB	-142.85	1-12-93	+23.95	-142.85	1993	-170.59	1980	I	1980,1983,1988,1993
22S.18W.20.242	AVMB	-155.92	1-12-93	+2.50	-154.54	1992	-188.52	1979	I	1974-93
22S.18W.20.413A	AVMB	-140.92	1-12-93	+4.38	-140.92	1993	-165.50	1955	I	1955,1980,1983,1988,1993
22S.18W.20.442	AVMB	-149.57	1-12-93	+7.80	-149.57	1993	-170.39	1980	I	1980,1983,1988,1993
22S.18W.22.241	AVMB	-138.30	1-28-93	+0.35	-138.30	1993	-151.31	1978	I	1974-83,1988,1993
22S.18W.22.244	AVMB	-141.23	1-28-93	+0.60	-141.03	1983	-151.88	1978	I	1974-83,1988,1993
22S.18W.23.312	AVMB	-129.52	1-28-93	+4.41	-125.90	1972	-133.93	1988	I	1972,1980,1983,1988,1993
22S.18W.28.211	AVMB	-140.59	1-12-93	+10.87	-140.59	1993	-164.95	1980	I	1970,1980,1983,1988,1993
22S.18W.34.224	AVMB	-139.25	1-12-93	+0.83	-95.29	1961	-157.50	1981	I	1961-66,1968-83,1988,1993
22S.18W.34.224A	AVMB	-137.95	1-12-93	+0.85	-137.95	1993	-158.70	1981	I	1974-83,1988,1993
22S.19W.01.443	AVMB	-182.70	1-12-93	-0.30	-181.26	1955	-192.52	1980	S	1955,1980,1983,1988,1993
22S.19W.05.322	AVMB	-183.65	1-12-93	-0.12	-148.21	1983	-183.65	1993	S	1980,1983,1988,1993
22S.19W.12.241A	AVMB	-162.12	1-12-93	-0.72	-157.72	1983	-170.46	1980	H	1980,1983,1988,1993
23S.15W.28.420	--	-42.10	1-28-93	--	-42.10	1993	-71.18	1980	S	1955,1971,1980,1983,1993
23S.15W.31.111	--	-443.56	1-28-93	--	-442.84	1955	-450.08	1980	S	1955,1971,1980,1983,1993
23S.17W.08.313	AVMB	-116.00	1-28-93	+3.14	-106.35	1974	-126.56	1975	I	1974-83,1988,1993
23S.17W.08.430	AVMB	-115.64	1-28-93	+0.76	-102.98	1974	-117.48	1977	I	1974-83,1988,1993
23S.18W.01.413	AVMB	-133.33	1-29-93	+2.17	-87.53	1960	-135.50	1988	S	1960,1980,1983,1988,1993
23S.18W.02.131	AVMB	-179.37	1-13-93	+3.38	-179.37	1993	-191.50	1980	U	1978-80,1983,1988,1993
23S.18W.02.311	AVMB	-188.89	1-29-93	+3.76	-188.89	1993	-198.59	1980	U	1980,1982-83,1988,1993
23S.18W.02.444	AVMB	-165.73	1-13-93	-1.43	-144.48	1974	-168.52	1982	I	1974-83,1988,1993
23S.18W.09.424	AVMB	-73.55	1-29-93	+1.95	-73.55	1993	-80.15	1980	S	1979-80,1983,1988,1993
23S.18W.11.142	AVMB	-170.00	1-29-93	--	-159.39	1969	-170.00	1993	I	1969,1980,1983,1988,1993
23S.18W.11.244	AVMB	-197.37	1-13-93	-8.10	-155.50	1974	-197.37	1993	I	1974-83,1988,1993
23S.18W.11.422	AVMB	-174.83	1-13-93	+1.12	-174.83	1993	-176.92	1980	I	1980,1983,1988,1993
23S.18W.12.132	AVMB	-154.14	1-29-93	+9.46	-126.70	1973	-163.60	1988	I	1970,1973,1980,1983,1988,1993
23S.18W.12.213A	AVMB	-135.35	1-29-93	+6.05	-135.35	1993	-142.32	1980	N	1978,1980,1983,1988,1993
23S.18W.12.331	AVMB	-175.79	1-13-93	-1.64	-157.10	1974	-187.81	1981	I	1974-83,1988,1993
23S.18W.12.333	AVMB	-162.55	1-13-93	+5.74	-100.02	1958	-190.45	1981	I	1957-70,1972-93
23S.18W.12.433	AVMB	-138.38	1-13-93	+9.71	-79.30	1958	-148.09	1988	I	1958-60,1962-64,1966-68,1970-73, 1975,1978-80,1983,1988,1993
23S.18W.13.133	AVMB	-176.75	1-13-93	-2.35	-155.10	1971	-177.80	1980	I	1971,1980,1983,1988,1993
23S.18W.13.233	AVMB	-159.60	1-13-93	-1.70	-127.32	1973	-159.60	1993	I	1973,1980,1983,1988,1993
23S.18W.13.431	AVMB	-159.83	1-13-93	-1.10	-101.07	1965	-159.83	1993	I	1965,1980,1983,1988,1993
23S.18W.13.433	AVMB	-160.52	1-13-93	+0.06	-140.11	1974	-166.44	1978	I	1974-83,1988,1993
23S.18W.20.422	AVMB	-16.12	1-29-93	+2.73	-16.12	1993	-22.90	1980	S	1979-80,1983,1988,1993
23S.18W.21.133	AVMB	-25.15	1-29-93	-0.25	-24.90	1988	-28.73	1979	S	1979-80,1983,1988,1993
23S.18W.23.110	AVMB	-84.40	1-29-93	--	-83.70	1983	-85.40	1980	S	1979-80,1983,1993
24S.15W.29.111	--	-304.20	1-26-93	-0.60	-299.11	1974	-304.20	1993	S	1974-81,1983,1988,1993

Table 27.--Well location and water-level data for selected wells in the Lordsburg monitoring area, Grant, Hidalgo, and Luna Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
24S.15W.33.200	--	-292.40	1-27-93	--	-276.59	1971	-298.81	1981	H	1955,1971,1975-81,1983,1988,
24S.15W.33.230	--	-299.10	1-27-93	-1.00	-290.87	1974	-299.10	1993	I	1974-81,1983,1988,1993
24S.16W.07.124	--	-151.24	1-25-93	+1.51	-149.53	1974	-167.88	1981	I	1974-81,1983,1988,1993
24S.16W.07.344	--	-131.60	1-25-93	+7.80	-131.60	1993	-141.00	1981	I	1974-81,1983,1988,1993
24S.16W.08.322	--	-206.34	1-25-93	+0.81	-176.14	1974	-207.15	1988	I	1974-81,1983,1988,1993
24S.16W.09.122	--	-206.12P	1-26-93	--	-201.84	1970	-208.43	1981	S	1970,1980-81,1983,1988,1993
24S.16W.30.322	--	-155.62	1-25-93	-1.37	-147.11	1972	-157.75	1981	I	1972,1980-81,1983,1988,1993
24S.16W.30.342	--	-144.75	1-25-93	+1.25	-139.77	1983	-156.57	1977	I	1974-81,1983,1988,1993
24S.16W.31.123	--	-136.32	1-25-93	--	-103.16	1963	-136.55	1981	H	1963,1980-81,1983,1993
24S.16W.31.222	--	-153.33	1-25-93	--	-128.69	1965	-157.55	1981	I	1964-81,1993
24S.16W.31.322	--	-127.12	1-25-93	+2.88	-127.12	1993	-134.03	1979	I	1974-81,1983,1988,1993
24S.16W.31.422	--	-138.63	1-25-93	--	-124.49	1965	-148.73	1979	I	1965-81,1983,1993
24S.17W.03.444	AVMB	-78.03	1-25-93	-5.59	-64.85	1981	-78.03	1993	U	1965-73,1975-81,1983,1988,1993
24S.17W.06.433A	AVMB	-166.08	1-13-93	+2.52	-132.94	1958	-184.42	1981	I	1958,1965-68,1970-72,1974-93
24S.17W.08.312	AVMB	-150.86	1-26-93	--	-141.30	1974	-153.82	1981	I	1974-79,1981-83,1993
24S.17W.12.324	AVMB	-114.39	1-25-93	--	-114.39	1993	-124.04	1981	I	1974-76,1980-81,1993
24S.17W.13.324	AVMB	-114.39	1-25-93	-0.94	-113.45	1988	-131.40	1979	I	1960,1974-80,1983,1988,1993
24S.17W.14.242	AVMB	-109.47	1-25-93	+0.53	-78.94	1980	-110.00	1988	I	1972,1980-81,1983,1988,1993
24S.17W.14.442	AVMB	-88.84	1-25-93	-0.05	-78.97	1981	-114.90	1970	S	1955-58,1960-72,1974-79,1981-93
24S.17W.16.133	AVMB	-143.04	1-26-93	+7.68	-138.80	1974	-151.60	1981	I	1974-83,1988,1993
24S.17W.24.213	AVMB	-124.67	1-25-93	-1.14	-101.51	1962	-144.14	1981	I	1962-81,1983,1988,1993
24S.17W.25.222	AVMB	-128.75	1-25-93	+2.45	-128.75	1993	-143.96	1980	I	1972,1980,1983,1988,1993
24S.17W.25.244	AVMB	-127.85	1-25-93	+3.80	-125.00	1967	-148.39	1977	I	1966-81,1983,1988,1993
24S.17W.35.232	AVMB	-102.10	1-25-93	-0.50	-94.62	1974	-106.47	1982	S	1974-83,1988,1993
25S.15W.05.111	--	-269.46	1-26-93	+0.84	-269.46	1993	-279.75	1983	I	1978,1980,1983,1988,1993
25S.15W.05.210	--	-280.30	1-26-93	+4.15	-250.10	1974	-284.45	1988	U	1974-79,1981,1983,1988,1993
25S.16W.02.244	--	-208.30	1-27-93	--	-191.06	1973	-208.30	1993	S	1973,1980,1983,1993
25S.16W.15.220	AVMB	-178.48	1-27-93	+3.62	-170.03	1978	-186.71	1980	N	1977-80,1983,1988,1993
25S.16W.23.410	--	-174.30	1-27-93	+2.70	-162.81	1975	-177.00	1988	H	1974-81,1983,1988,1993
25S.16W.28.220	--	-143.68	1-27-93	--	-119.51	1973	-143.68	1993	S	1973,1980,1983,1993
25S.17W.27.110	AVMB	-53.96	1-25-93	--	-53.96	1993	-56.90	1980	H	1974-83,1993

Santa Fe County Monitoring Area

The Santa Fe County monitoring area is in north-central New Mexico. Water-level rises range from less than 1 foot to more than 23 feet. The area has mixed rises and declines except for an area where declines are prevalent. The area of declines extends from north of Santa Fe to south and west of Santa Fe to T. 15 N., R. 8 E. and then turns eastward to T. 15 N., R. 10 E. Declines range from less than 1 foot to more than 19 feet.

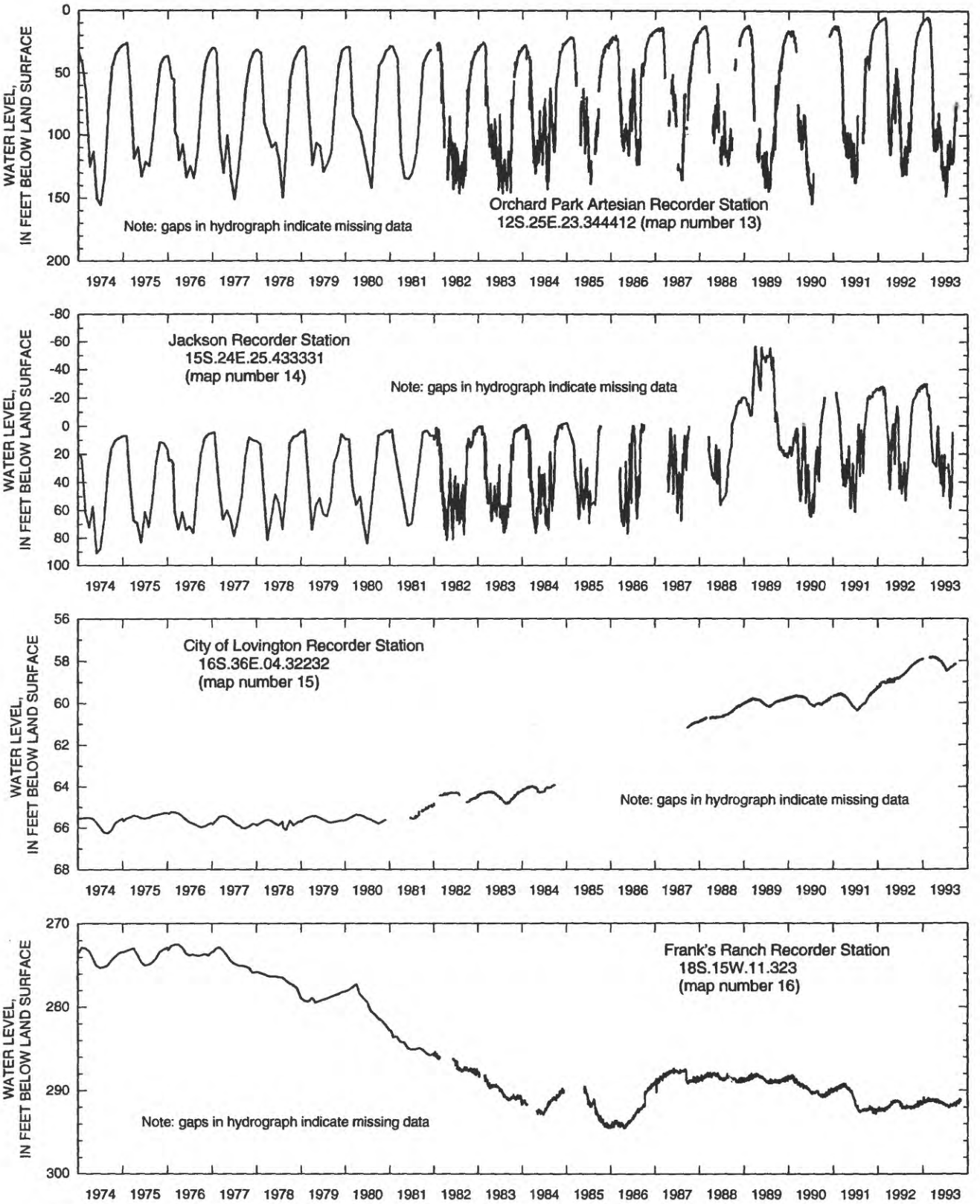


Figure 4.--Continuous water-level data for selected wells. See figure 2 and table 1 for locations--Continued.

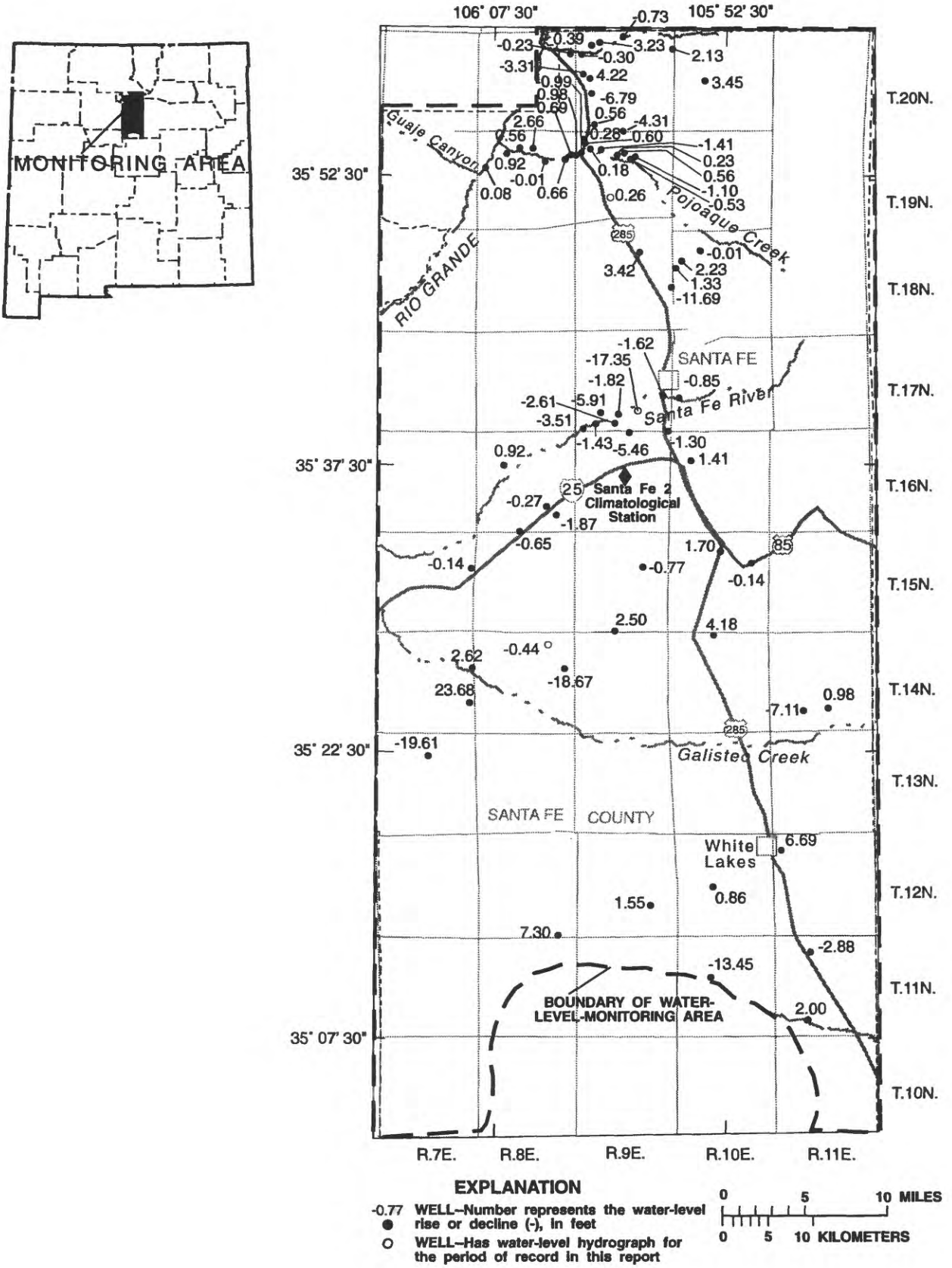


Figure 57.--Water-level changes for wells in the Santa Fe County monitoring area, 1988-93.

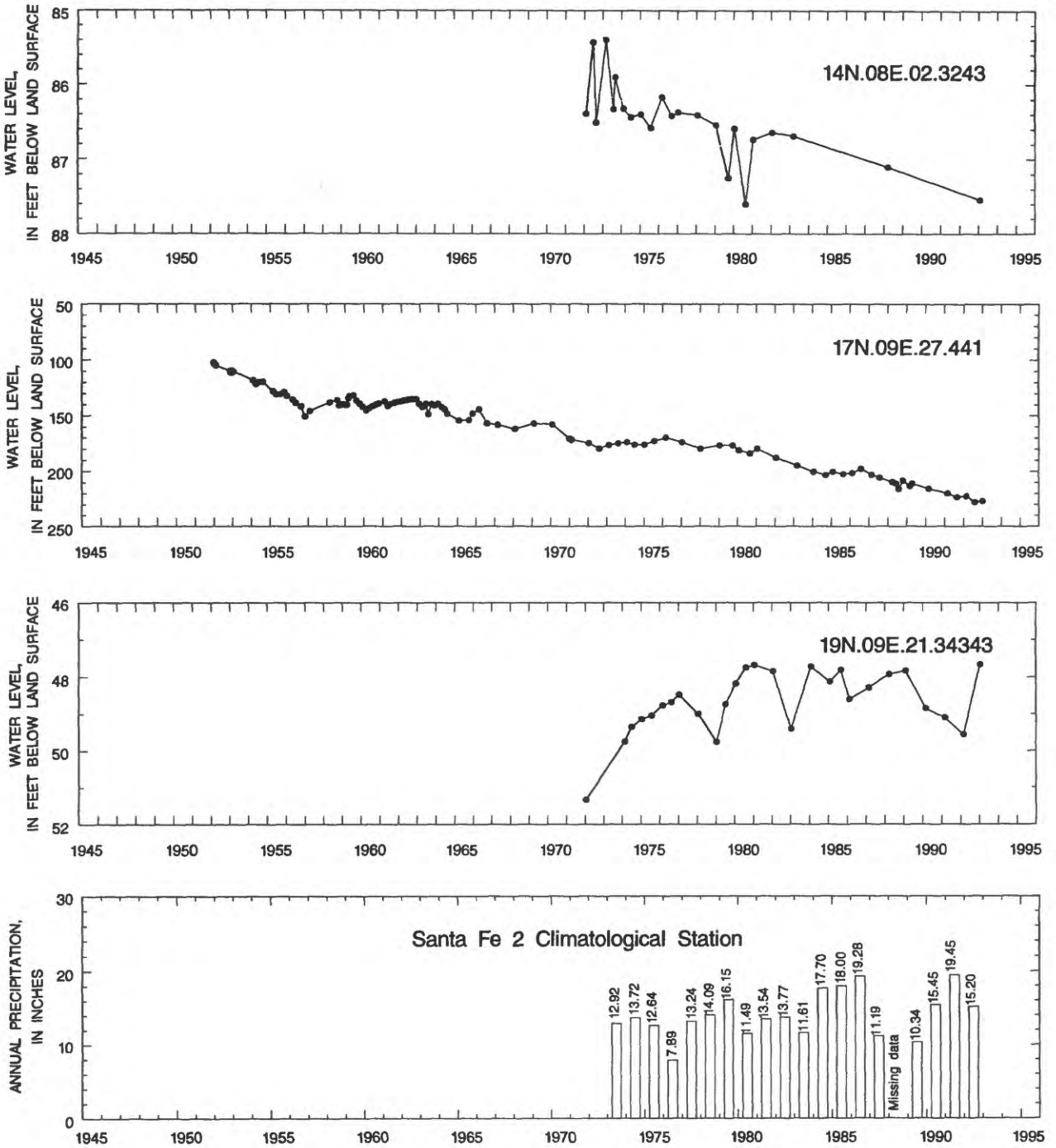


Figure 58.--Water-level data for selected wells in the Santa Fe County monitoring area and annual precipitation at the Santa Fe 2 Climatological Station. See figure 57 for location of wells and station.

Table 28.--Well location and water-level data for selected wells in the Santa Fe County monitoring area, New Mexico

[Geologic unit, primary producing zone for the well: ANCH, Ancha Formation, upper part of Santa Fe Group; AVMB, alluvium, bolson deposits, and other surface deposits; BLSN, bolson fill; GLST, Galisteo Formation; OPTOD, pediment, terrace, and other deposits of gravel, sand, and caliche; PCMB, Precambrian Erathem; TSUQ, Tesuque Formation, undifferentiated unit; TURT, Tuerto Gravel of Santa Fe Group. Winter water level, site status: P, pumping. Use of water: H, domestic; I, irrigation; N, industrial; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
11N.07E.26.24231	BLSN	-185.35	1-27-93	--	-178.25	1979	-185.49	1982	--	1971-83,1993
11N.10E.16.311	--	-301.43	2-03-93	-13.45	-287.98	1988	-301.43	1993	I	1973,1983,1988,1993
11N.11E.09.1112	--	-48.21	1-06-93	-2.88	-37.57	1983	-48.21	1993	H	1983,1988,1993
11N.11E.32.22221	--	-53.58	1-06-93	+2.00	-42.34	1973	-62.57	1981	S	1972-83,1988,1993
12N.08E.35.4433	--	-239.20	1-27-93	+7.30	-239.20	1993	-246.50	1988	U	1972-83,1988,1993
12N.09E.26.1232	--	-53.84	1-28-93	+1.55	-52.00	1973	-56.18	1983	S	1973,1983,1988,1993
12N.10E.21.1114	--	-118.19	2-05-93	+0.86	-102.99	1973	-119.05	1988	I	1973,1983,1988,1993
12N.11E.07.121	--	-63.01	2-05-93	+6.69	-63.01	1993	-69.70	1988	I	1983,1988,1993
13N.07E.10.1323	--	-46.26	2-01-93	-19.61	-26.65	1988	-55.73	1975	S	1975,1983,1988,1993
13N.07E.22.211	--	-30.49	2-01-93	--	-30.49	1993	-30.49	1993	I	1983,1993
13N.09E.26.44432	--	-45.24	1-28-93	--	-45.24	1993	-151.76	1973	S	1973,1983,1993
13N.10E.14.4444	--	-48.30	1-06-93	--	-48.30	1993	-130.98	1973	S	1973,1983,1993
13N.10E.17.443	--	-66.34	2-05-93	--	-66.34	1993	-66.34	1993	S	1983,1993
14N.07E.13.2241	--	-33.91	2-02-93	+2.62	-33.20	1975	-36.53	1988	--	1975,1983,1988,1993
14N.07E.17.3312	--	-191.14	2-02-93	--	-188.44	1979	-191.14	1993	I	1975,1979,1983,1993
14N.07E.25.122	--	-5.21	2-01-93	+23.68	-5.21	1993	-40.00	1983	H	1983,1988,1993
14N.08E.02.3243	ANCH	-87.54	2-01-93	-0.44	-85.40	1973	-87.54	1993	--	1972-83,1988,1993
14N.08E.13.1241	GLST	-88.33	1-11-93	-18.67	-63.35	1983	-88.33	1993	H	1973-86,1988-93
14N.10E.04.1241	--	-36.44	1-11-93	+4.18	-35.70	1974	-40.62	1988	I	1974,1983,1988,1993
14N.11E.27.3212	--	-16.35	2-03-93	+0.98	-16.35	1993	-17.33	1988	--	1988,1993
14N.11E.29.4232	--	-432.65	2-10-93	-7.11	-425.54	1988	-448.31	1973	S	1973,1983,1988,1993
15N.07E.13.224	--	-81.66	2-02-93	-0.14	-81.52	1988	-83.19	1983	U	1983,1988,1993
15N.07E.26.21312	--	-145.42	2-02-93	--	-144.34	1983	-149.27	1975	S	1975,1983,1993
15N.09E.14.11413B	--	-60.20	1-07-93	-0.77	-53.41	1984	-60.63	1992	U	1972,1974-80,1982-85,1987-93
15N.09E.33.3443	--	-55.44	2-09-93	+2.50	-48.00	1966	-97.00	1967	H	1961-73,1976-77,1979-83, 1985-86,1988-89,1993
15N.10E.09.2412	--	-31.38	1-07-93	+1.70	-31.38	1993	-37.20	1983	U	1983,1988,1993
15N.10E.11.4342	--	-10.48	2-03-93	-0.14	-10.34	1988	-12.27	1983	U	1983,1988,1993
16N.08E.17.2122	--	-66.67	1-07-93	+0.92	-65.20	1965	-75.72	1988	I	1959-77,1979-83,1985-89,1993
16N.08E.26.32112	TSUQ	-129.56	1-05-93	-0.27	-124.42	1984	-129.96	1991	--	1973-85,1988-93
16N.08E.26.4443	--	-129.44	1-11-93	-1.87	-125.57	1983	-129.44	1993	U	1983,1988,1993
16N.08E.33.4343	ANCH	-41.47	2-02-93	-0.65	-40.05	1983	-41.54	1973	H	1973,1983,1988-89,1993
16N.09E.01.2413	--	-96.57	1-08-93	--	-18.50	1957	-96.57	1993	I	1957-60,1973,1993
16N.09E.02.432	--	-218.36P	2-10-93	--	-216.98	1983	-219.49	1988	H	1983,1988,1993
16N.09E.03.1213A	ANCH	-62.90	1-07-93	-5.46	-43.71	1980	-62.90	1993	H	1977-83,1985-89,1993
16N.09E.08.22212	--	-23.18	2-09-93	--	-23.18	1993	-96.85	1983	H	1973,1983,1993
16N.09E.10.42114	ANCH	-226.28	2-19-93	--	-149.52	1957	-228.62	1991	U	1957-60,1962,1964-77,1979-93
16N.10E.08.313	--	-29.34	1-08-93	+1.41	-29.34	1993	-35.89	1983	H	1983,1988,1993
16N.10E.17.42234	PCMB	-47.75	1-08-93	--	-47.00	1986	-58.31	1974	U	1974-86,1988-93
17N.09E.24.343	--	-36.75	1-05-93	-1.62	-33.42	1983	-36.75	1993	--	1983,1988-89,1993

Table 28.--Well location and water-level data for selected wells in the Santa Fe County monitoring area, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
17N.09E.27.441	--	-226.74	1-07-93	-17.35	-102.33	1951	-227.80	1992	H	1951-93
17N.09E.28.423B	AVMB	-14.84	1-21-93	--	-5.07	1959	-21.60	1991	U	1959,1972-93
17N.09E.29.43433	--	-154.59	1-21-93	-5.91	-145.69	1983	-154.59	1993	H	1983,1988,1993
17N.09E.31.324	--	-431.82	1-22-93	-3.51	-424.47	1974	-431.82	1993	H	1974,1983,1988,1993
17N.09E.32.312442	--	-28.92	2-11-93	-1.43	-19.51	1974	-28.92	1993	H	1974,1983,1988,1993
17N.09E.32.41234	--	-76.94	1-22-93	--	-74.46	1983	-76.94	1993	H	1983,1993
17N.09E.33.2112	--	-204.16	1-21-93	-1.82	-193.20	1970	-204.16	1993	H	1970,1983,1988,1993
17N.09E.33.32142	ANCH	-181.07	2-11-93	-2.61	-174.85	1974	-181.07	1993	H	1974,1983,1988,1993
17N.09E.36.4332	--	-30.05	2-11-93	-1.30	-28.75	1988	-30.40	1983	H	1983,1988,1993
17N.10E.30.121	--	-67.17	1-05-93	-0.85	-66.32	1988	-69.28	1983	I	1983,1988,1993
17N.10E.31.134	--	-49.74	1-05-93	--	-41.49	1975	-75.10	1970	I	1959-86,1989-93
18N.09E.10.24211	TSUQ	-50.78	1-13-93	+3.42	-50.21	1989	-72.80	1974	H	1974,1983,1988-89,1993
18N.09E.24.2424	--	-83.56	1-14-93	-11.69	-71.87	1988	-83.56	1993	H	1977,1983,1988,1993
18N.09E.25.13111	--	-227.66	1-13-93	--	-211.61	1961	-231.80	1989	H	1961-83,1985-87,1989,1993
18N.09E.35.2214	--	-288.94	1-15-93	--	-234.34	1987	-288.94	1993	--	1972-93
18N.10E.07.342	--	-229.61	1-14-93	+2.23	-228.69	1952	-240.10	1974	H	1952,1967,1974,1983,1988,1993
18N.10E.08.2133	AVMB	-9.50	1-14-93	-0.01	-9.49	1988	-13.91	1977	H	1977,1983,1988,1993
18N.10E.18.13112	TSUQ	-98.52	1-14-93	+1.33	-94.28	1967	-131.10	1973	H	1967,1972-83,1985-89,1993
19N.08E.08.42121	TURT	-13.36	1-25-93	+0.92	-10.49	1983	-16.50	1955	H	1955,1977,1983,1988,1993
19N.08E.09.2114	AVMB	-43.54	1-26-93	+0.56	-42.55	1977	-47.38	1983	H	1977,1983,1988,1993
19N.08E.10.12322	--	-33.19	1-26-93	+2.66	-33.19	1993	-36.61	1983	H	1977,1983,1988,1993
19N.08E.11.3341	TSUQ	-73.64	1-25-93	-0.01	-43.63	1977	-75.64	1983	H	1977,1983,1988,1993
19N.08E.12.3332	--	-49.15P	1-25-93	--	-47.58	1983	-51.13	1988	H	1977,1983,1988,1993
19N.08E.12.3421	--	-0.27	1-25-93	+0.66	-0.27	1993	-1.11	1977	I	1977,1983,1988,1993
19N.08E.12.4122	--	-9.71	1-25-93	+0.69	-9.71	1993	-11.11	1977	H	1977,1983,1988-89,1993
19N.08E.18.2311	TSUQ	-6.14	1-25-93	+0.08	-6.14	1993	-7.47	1977	H	1977,1983,1988,1993
19N.09E.04.2212	--	-53.88	1-20-93	-4.31	-43.51	1977	-53.88	1993	H	1977,1983,1988,1993
19N.09E.05.4113	--	-36.78	1-20-93	--	-36.78	1993	-45.65	1964	H	1964,1977,1983,1993
19N.09E.06.2311	--	-18.43P	1-26-93	--	-20.41	1988	-27.42	1977	H	1977,1983,1988,1993
19N.09E.06.2333	--	-25.74	1-26-93	+0.28	-25.74	1993	-30.58	1983	H	1983,1988,1993
19N.09E.06.4133	TSUQ	-14.34	1-25-93	+0.60	-14.34	1993	-20.15	1977	H	1977,1983,1988,1993
19N.09E.07.1333	--	-11.94	1-25-93	+0.98	-11.94	1993	-12.92	1988	H	1977,1983,1988,1993
19N.09E.07.1414	--	-17.75	1-20-93	-0.99	-16.00	1977	-18.35	1983	H	1977,1983,1988,1993
19N.09E.07.2214	--	-5.99	1-19-93	+0.18	-4.40	1983	-6.27	1950	H	1950,1977,1983,1988,1993
19N.09E.08.2131	--	-1.82	1-19-93	-1.41	-0.41	1988	-4.48	1964	H	1964,1977,1983,1988,1993
19N.09E.09.1444	--	-13.10	1-19-93	+0.23	-11.04	1977	-13.33	1988	S	1964,1977,1983,1988,1993
19N.09E.09.2423	--	-20.97	1-19-93	+0.56	-20.97	1993	-22.18	1983	H	1977,1983,1988,1993
19N.09E.10.3233	--	-27.46	1-19-93	-0.53	-26.93	1988	-37.80	1977	H	1977,1983,1988,1993
19N.09E.10.4112	AVMB	-26.42	1-19-93	-1.10	-25.32	1988	-29.28	1977	H	1977,1988,1993
19N.09E.21.34343	TSUQ	-47.66	1-13-93	+0.26	-47.66	1993	-51.33	1972	N	1972,1974-93

Table 28.--Well location and water-level data for selected wells in the Santa Fe County monitoring area, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
20N.08E.12.23412	--	-33.24	1-13-93	-0.23	-24.74	1973	-33.53	1987	H	1973-83,1985-89,1993
20N.09E.01.4444	AVMB	-43.55	1-15-93	+2.13	-37.28	1977	-45.68	1988	H	1977,1983,1988,1993
20N.09E.02.2122	--	-5.38	1-15-93	--	-5.38	1993	-5.38	1993	H	1993
20N.09E.04.2234	--	-33.62	1-12-93	-0.73	-31.94	1977	-33.62	1993	H	1977,1983,1988,1993
20N.09E.05.3224	--	-33.45	1-15-93	+3.23	-33.45	1993	-37.19	1983	H	1977,1983,1988,1993
20N.09E.06.4422	AVMB	-27.70	1-15-93	+0.39	-27.70	1993	-29.79	1977	H	1977,1983,1988,1993
20N.09E.07.1414	OPTOD	-16.94	1-12-93	-0.30	-16.64	1988	-23.70	1983	H	1967,1983,1988,1993
20N.09E.18.32221	--	-49.21	1-13-93	-3.31	-45.04	1977	-49.21	1993	H	1977,1983,1988,1993
20N.09E.18.4243	--	-11.46	1-13-93	+4.22	-11.46	1993	-15.68	1988	H	1983,1988,1993
20N.09E.19.4244	--	-103.59	1-13-93	-6.79	-96.80	1988	-103.59	1993	H	1968,1983,1988,1993
20N.09E.24.24343	TSUQ	-109.24	1-22-93	--	-108.63	1970	-119.21	1983	S	1970,1983,1993
20N.09E.32.31233	TSUQ	-143.51	1-13-93	+0.56	-142.61	1983	-154.75	1970	S	1967,1970,1974,1983,1988,1993
20N.10E.17.44312	--	-85.73	1-22-93	+3.45	-85.47	1977	-89.18	1988	H	1977,1983,1988,1993

Upper Rio Grande Monitoring Area

The Upper Rio Grande monitoring area is in Taos and Rio Arriba Counties, north-central New Mexico, and a small area in Costilla County, Colorado. Water-level changes are mostly rises that range from less than 1 foot to more than 5 feet. A small area north of Cerro, New Mexico, has water-level declines that range from less than 1 foot to more than 3 feet.

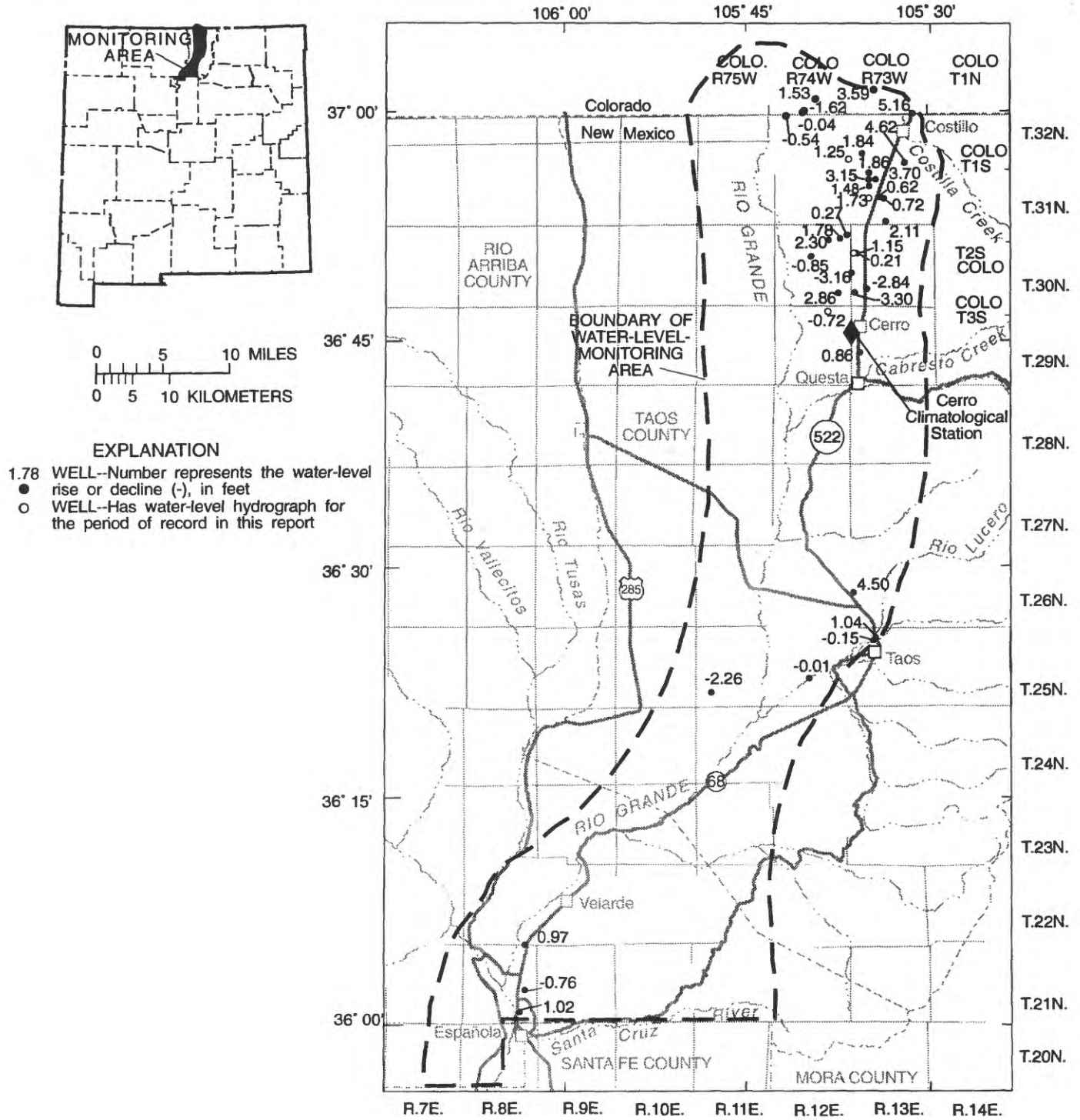


Figure 59.--Water-level changes for wells in the Upper Rio Grande monitoring area, 1988-93.

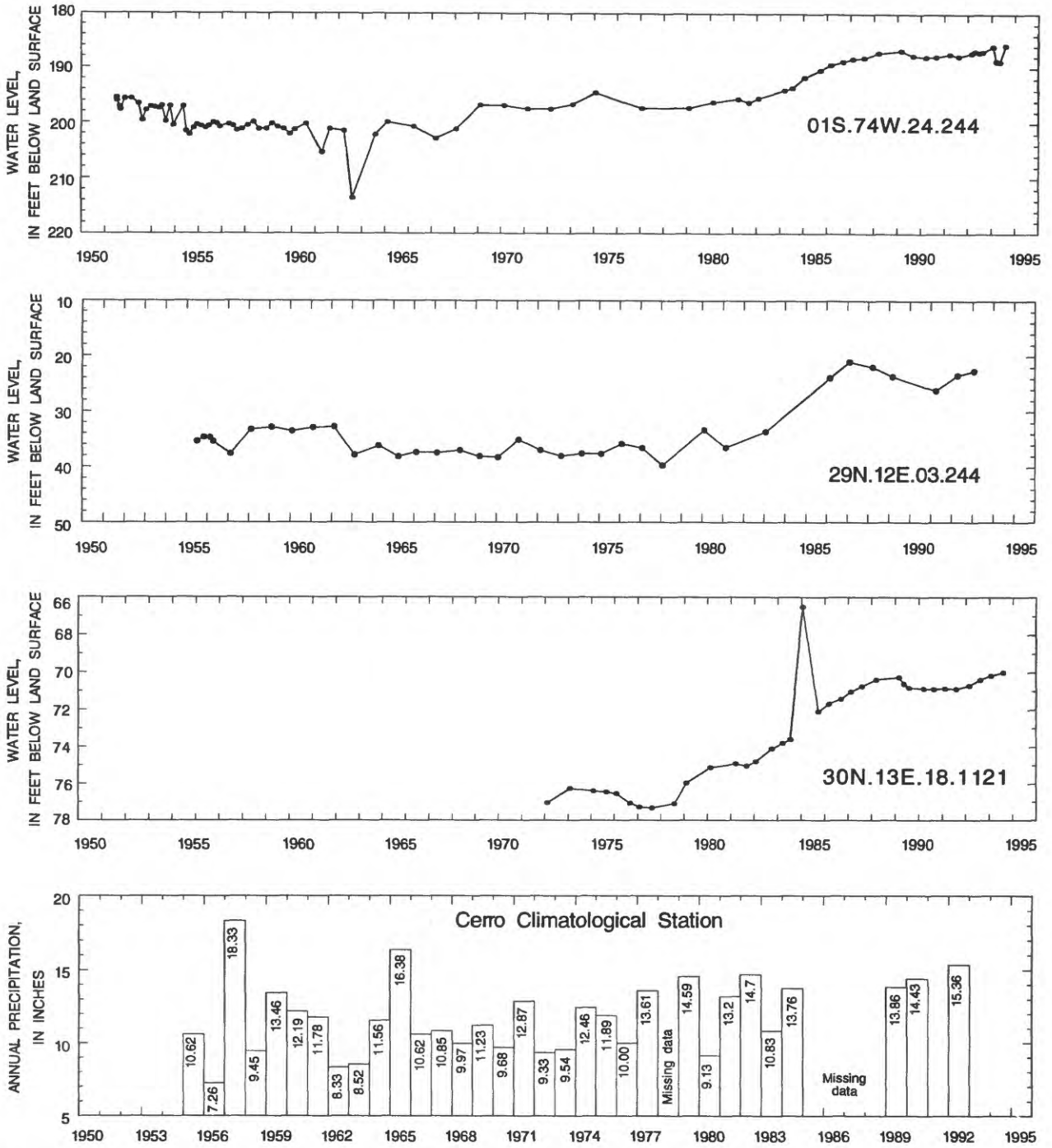


Figure 60.--Water-level data for selected wells in the Upper Rio Grande monitoring area and annual precipitation at the Cerro Climatological Station. See figure 59 for location of wells and station.

Table 29.--Well location and water-level data for selected wells in the Upper Rio Grande monitoring area, Taos and Rio Arriba Counties, New Mexico, and Costilla County, Colorado

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; EXRV, extrusive rocks; SNTF, Santa Fe Group. Winter water level, site status: T, nearby pumping recently. Use of water: I, irrigation; P, public supply; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
01N.73W.30.224	--	-102.78	1-26-93	+3.59	-102.78	1993	-119.13	1983	I	1983,1988,1993
01N.74W.27.334	--	-145.31	1-26-93	+1.53	-110.68	1955	-146.98	1983	U	1955-63,1983,1988,1993
01N.74W.32.343	--	-128.04	1-26-93	-0.54	-127.42	1989	-130.99	1983	U	1983,1988-90,1993
01N.74W.33.322	--	-136.90	1-26-93	-1.62	-91.46	1955	-139.24	1982	I	1955-93
01N.74W.33.422	--	-117.22	1-26-93	-0.04	-87.22	1957	-117.22	1993	I	1956-78,1980-81,1983,1985,1988-89, 1993
01S.73W.02.221	AVMB	-74.90	1-26-93	+5.16	-74.90	1993	-82.94	1989	U	1983,1988-89,1993
01S.73W.19.222	AVMB	-179.73	1-26-93	+1.84	-179.73	1993	-212.25	1964	I	1955-57,1959-76,1983,1988,1993
01S.73W.23.314	AVMB	-179.42	1-26-93	+4.62	-179.42	1993	-206.37	1990	U	1983,1988-90,1993
01S.73W.29.322	AVMB	-163.53	1-27-93	+1.86	-163.53	1993	-190.82	1955	I	1955-64,1967,1969-70,1983,1988,1993
01S.73W.32.122	AVMB	-135.10	1-27-93	+3.15	-135.10	1993	-172.31	1967	U	1955-63,1967,1969-71,1983,1988,1993
01S.73W.32.222	AVMB	-147.60	1-27-93	+3.70	-147.60	1993	-188.58	1970	U	1955-64,1967,1969-71,1983,1988,1993
01S.73W.32.322	AVMB	-107.28	1-27-93	+1.48	-107.28	1993	-141.10	1970	U	1955-63,1967,1969-71,1983,1988,1993
01S.74W.11.424	AVMB	-230.15	1-26-93	--	-230.15	1993	-246.85	1974	U	1974,1980,1983,1993
01S.74W.24.244	AVMB	-185.99	1-26-93	+1.25	-185.79	1993	-213.53	1965	U	1955-76,1978,1980-93
02S.73W.04.141	AVMB	-82.07	1-28-93	+0.62	-82.07	1993	-100.32	1955	U	1955-56,1983,1988-89,1993
02S.73W.04.234	AVMB	-117.43	1-28-93	+0.72	-117.43	1993	-136.34	1957	U	1955-58,1983,1988-89,1993
02S.73W.05.244	AVMB	-71.19	1-28-93	+1.73	-67.52	1993	-84.78	1977	I	1974-93
02S.73W.16.214	AVMB	-101.52	1-28-93	+2.11	-101.52	1993	-109.86	1983	U	1983,1988,1993
21N.08E.02.2221	AVMB	-24.38	1-28-93	+0.97	-24.38	1993	-26.48	1990	U	1983,1987-93
21N.08E.23.244	SNTF	-72.26	1-28-93	-0.76	-69.46	1970	-72.63	1991	U	1968,1970,1983,1987-93
21N.08E.26.433	--	-19.90	1-28-93	+1.02	-19.90	1993	-20.92	1988	P	1983,1988,1993
21N.08E.34.432	SNTF	-64.26T	1-28-93	--	-29.89	1988	-41.49	1976	P	1975-81,1988,1993
22N.12E.05.212	SNTF	-95.30	1-25-93	--	-95.30	1993	-103.50	1983	U	1983,1989,1993
25N.11E.29.3334	EXRV	-304.86	1-27-93	-2.26	-301.80	1983	-304.86	1993	U	1983,1988-89,1993
25N.12E.21.434	AVMB	-39.95	1-25-93	-0.01	-16.32	1983	-40.40	1989	U	1983,1988-89,1993
25N.13E.05.4334	AVMB	-6.35	1-02-93	+1.04	-6.28	1991	-7.39	1988	U	1983,1988-89,1991-93
25N.13E.08.123	AVMB	0.01	1-25-93	-0.15	0.16	1988	-1.01	1988	U	1983,1988-89,1993
26N.12E.25.3213	AVMB	-53.59	1-27-93	--	-53.59	1993	-57.23	1991	U	1990-93
26N.12E.26.421	AVMB	-163.00	1-25-93	+4.50	-163.00	1993	-173.70	1983	Z	1983,1988,1993
29N.12E.03.244	AVMB	-22.62	1-25-93	-0.72	-21.01	1987	-39.66	1978	I	1955-78,1980-81,1983,1986-89, 1991-93
29N.13E.19.322	AVMB	-128.65	1-25-93	+0.86	-128.65	1993	-164.45	1969	I	1955-66,1968-78,1980-81,1983, 1988,1993
30N.12E.01.3244	AVMB	-8.42	1-27-93	+0.27	-8.42	1993	-13.52	1978	U	1974-78,1980-81,1983,1988,1993
30N.12E.02.444	AVMB	-2.36	1-27-93	+1.78	-2.36	1993	-8.05	1983	U	1983,1988-89,1993
30N.12E.11.1112	AVMB	-10.37	1-27-93	+2.30	-10.37	1993	-26.50	1955	U	1955,1983,1988,1993
30N.12E.12.334	AVMB	-12.64	1-26-93	--	-12.64	1993	-18.82	1965	I	1955-65,1971-78,1980-81,1983,1993
30N.12E.16.241	AVMB	-113.85	1-26-93	-0.85	-113.00	1988	-117.05	1983	I	1983,1988,1993
30N.12E.24.422	AVMB	-66.32	1-26-93	-3.16	-63.16	1988	-76.63	1963	I	1955-63,1965-66,1968-72,1974-78, 1980-81,1983,1988,1993

Table 29.--Well location and water-level data for selected wells in the Upper Rio Grande monitoring area, Taos and Rio Arriba Counties, New Mexico, and Costilla County, Colorado--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1988 to winter 1993 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
30N.12E.35.221	AVMB	-15.24	1-27-93	+2.86	-5.55	1972	-48.12	1957	I	1955-72,1983,1988,1993
30N.13E.18.111	AVMB	-64.96	1-26-93	+1.15	-64.96	1993	-69.40	1983	U	1983,1988,1993
30N.13E.18.1121	AVMB	-70.17	1-26-93	+0.21	-66.52	1985	-77.33	1978	U	1973-93
30N.13E.30.4422	AVMB	-37.90	1-25-93	-2.84	-34.89	1974	-42.36	1983	I	1974-78,1980-81,1983,1988,1993
30N.13E.31.1112	AVMB	-74.70	1-25-93	-3.30	-68.46	1983	-85.59	1974	U	1974-78,1980-81,1983,1988-90,1993

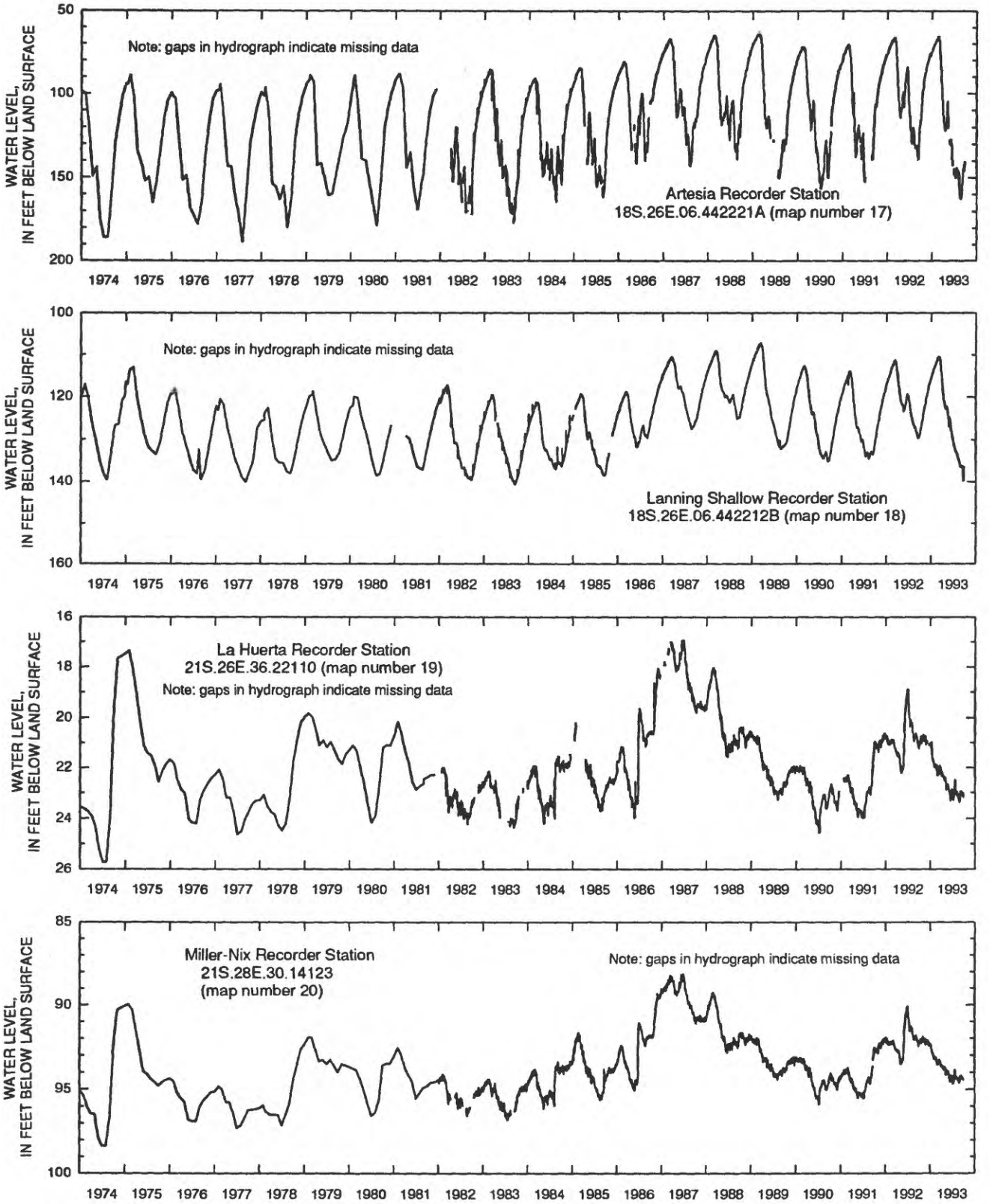


Figure 4.--Continuous water-level data for selected wells. See figure 2 and table 1 for locations--Continued.

Roswell Basin Monitoring Area (Shallow and Artesian)

The Roswell Basin monitoring area is in Chaves, DeBaca, and Eddy Counties, southeastern New Mexico. Maps, tables, and hydrographs separate water-level data for the shallow and artesian wells within the monitoring area. Not all water-level changes are shown on the maps; however, all well locations and water-level data are listed in the tables. Well locations marked with an asterisk (*) in the table are plotted on the map.

Water-level changes for the shallow wells are mostly rises ranging from less than 1 foot to more than 34 feet. Declines are generally scattered throughout the area. Declines are shown in a small area in Tps. 14 and 15 S., Rs. 24 through 26 E. and in an area north of T. 7 S. Declines range from less than 1 foot to more than 4 feet.

Water-level changes for wells completed in the artesian aquifer are mostly rises. These rises range from less than 1 foot to more than 56 feet. Declines are scattered throughout the monitoring area and range from less than 1 foot to more than 14 feet.

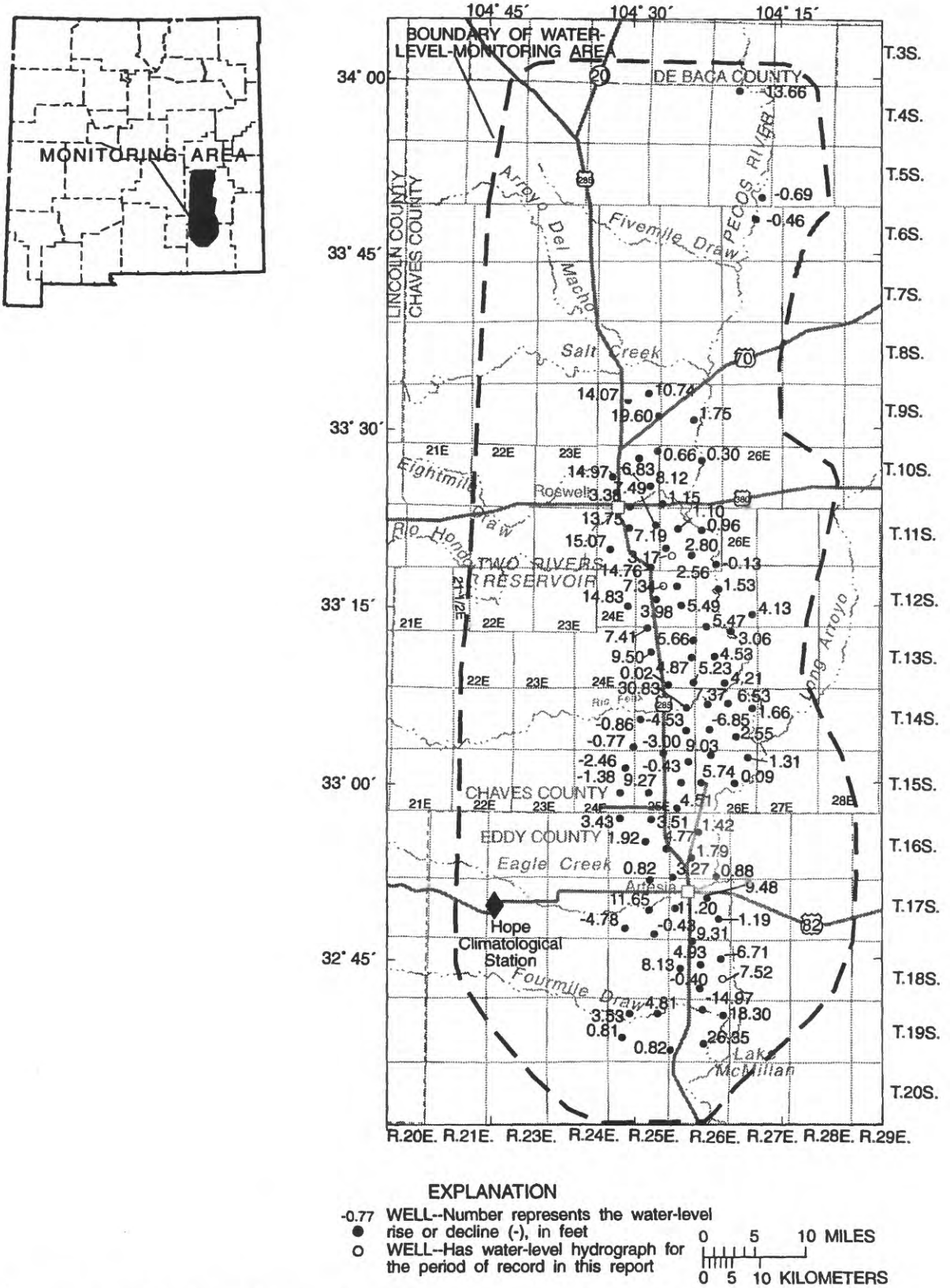


Figure 61.--Water-level changes for selected shallow wells in the Roswell Basin monitoring area, 1984-89.

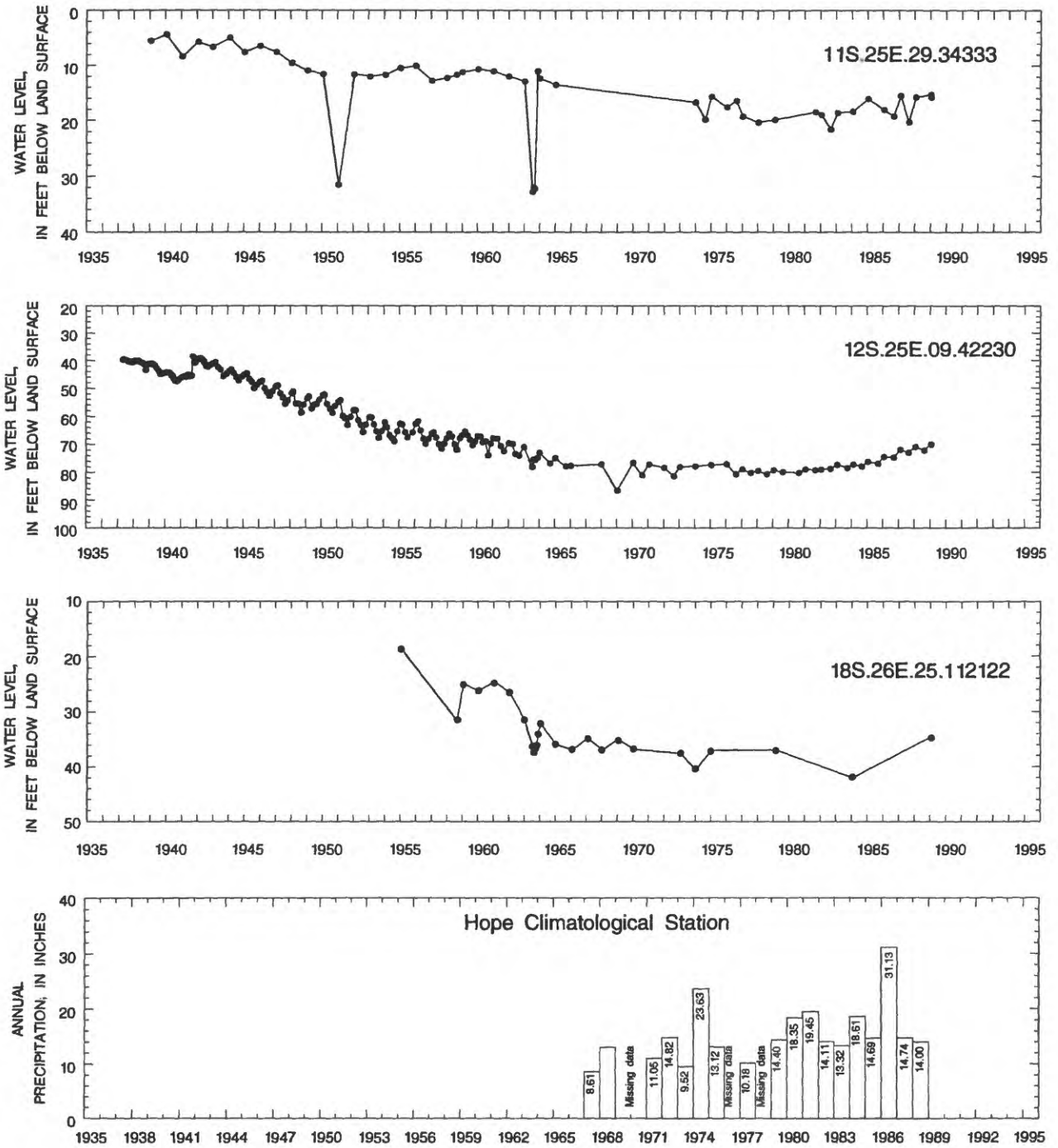


Figure 62.--Water-level data for selected shallow wells in the Roswell Basin monitoring area and annual precipitation at the Hope Climatological Station. See figure 61 for location of wells and station.

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico

[*, well location and change data are plotted on corresponding map. Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits. Use of water: C, commercial; D, dewater; H, domestic; I, irrigation; N, industrial; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*04S.25E.04.322324	AVMB	-26.54	1-11-89	-13.66	-12.88	1984	-26.54	1989	S	1966,1984,1989
*05S.25E.35.212342	AVMB	-23.92	2-23-89	-0.69	-22.31	1963	-23.92	1989	U	1963,1968,1979,1984,1989
*06S.26E.09.244423	AVMB	-8.75	2-23-89	-0.46	-8.29	1984	-8.75	1989	U	1967,1979,1984,1989
06S.26E.10.131331	AVMB	-14.18	2-23-89	-0.53	-13.65	1984	-14.18	1989	U	1967,1979,1984,1989
*09S.24E.02.43324A	AVMB	-61.70	1-05-89	+10.74	-57.93	1963	-72.78	1979	I	1963,1965-67,1979,1984,1989
*09S.24E.09.41321	AVMB	-82.38	2-23-89	+14.07	-71.74	1960	-96.45	1984	I	1960-63,1984,1989
09S.24E.14.122334	AVMB	-45.82	2-23-89	+10.96	-45.82	1989	-66.30	1971	I	1967,1969-74,1979,1984,1989
09S.24E.14.34222B	AVMB	-47.57	2-23-89	+9.54	-32.42	1956	-57.11	1984	I	1956-59,1961-64,1967,1984,1989
*09S.24E.24.21144	AVMB	-26.20	1-17-89	+19.60	-16.66	1963	-45.80	1984	U	1963-65,1967,1979,1984,1989
*09S.25E.21.34421	AVMB	-29.25	1-04-89	+1.75	-28.34	1965	-31.00	1984	S	1965,1967,1979,1984,1989
*10S.24E.01.24444	AVMB	-31.03	1-17-89	-0.66	-21.10	1963	-31.03	1989	H	1963-65,1979,1984,1989
10S.24E.02.43333	AVMB	-25.32	1-05-89	+5.73	-12.73	1955	-35.85	1970	S	1955-60,1962-66,1970,1974-75, 1979,1984,1989
*10S.24E.10.22342	AVMB	-46.95	1-05-89	+6.83	-38.27	1962	-56.53	1978	I	1962-64,1969-75,1977-79,1984,1989
10S.24E.12.22243	AVMB	-37.67	1-10-89	-2.14	-17.10	1958	-37.67	1989	S	1955-60,1963-64,1979,1984,1989
10S.24E.13.233331	AVMB	-34.58	1-05-89	+2.55	-22.75	1955	-37.13	1984	U	1955-64,1979,1984,1989
*10S.24E.17.343333	AVMB	-67.69	1-04-89	+14.97	-67.69	1989	-85.13	1979	H	1979,1984,1989
*10S.24E.24.33131	AVMB	-11.46	1-05-89	+8.12	-11.46	1989	-22.80	1967	I	1967-75,1977-79,1984,1989
10S.24E.25.42413	AVMB	-6.75	1-12-89	+0.99	-6.75	1989	-7.74	1984	U	1979,1984,1989
10S.24E.27.422212	AVMB	-18.93	1-11-89	-1.73	-17.17	1979	-18.93	1989	H	1979,1984,1989
10S.24E.28.11440	AVMB	-39.84	1-11-89	+3.28	-39.84	1989	-47.05	1979	I	1979,1984,1989
*10S.24E.33.444221	AVMB	-12.17	1-10-89	+3.38	-9.40	1979	-15.55	1984	H	1979,1984,1989
10S.24E.35.343331	AVMB	-32.98	1-10-89	-2.26	-21.19	1956	-32.98	1989	H	1955-56,1958-60,1979,1984,1989
10S.24E.35.444334	AVMB	-28.93	1-10-89	-2.68	-22.38	1968	-63.10	1971	I	1967-75,1977-79,1984,1989
10S.25E.08.33432	AVMB	-25.42	1-10-89	+3.87	-25.42	1989	-29.55	1983	U	1974-75,1979,1983-84,1989
*10S.25E.10.242324	AVMB	-4.99	1-30-89	+0.30	-4.87	1983	-8.76	1968	U	1967-84,1989
10S.25E.10.411144	AVMB	-5.98	1-30-89	+0.01	-5.70	1975	-8.60	1967	U	1967-84,1989
10S.25E.15.32344	AVMB	-4.49	1-30-89	+0.28	-3.55	1960	-7.24	1958	U	1958-75,1979,1984,1989
10S.25E.18.344121	AVMB	0.38	1-12-89	+7.05	0.38	1989	-6.67	1984	S	1984,1989
*10S.25E.31.33111	AVMB	-18.99	1-10-89	+1.15	-18.99	1989	-24.58	1979	I	1979,1984,1989
10S.25E.32.431113	AVMB	-6.14	1-12-89	+0.36	-3.62	1966	-11.87	1973	I	1955-66,1969-74,1979,1984,1989
10S.25E.33.342311	AVMB	-6.58	1-12-89	-0.70	-1.85	1961	-8.25	1957	U	1957-63,1967,1979,1984,1989
10S.25E.33.432422A	AVMB	-4.57	1-12-89	+0.76	-2.38	1975	-12.39	1962	U	1957-63,1967-75,1979,1984,1989
11S.24E.02.433331	AVMB	-23.90	1-06-89	+11.10	-23.90	1989	-35.00	1984	I	1984,1989
11S.24E.03.322342	AVMB	-24.04	1-06-89	+0.64	-19.67	1979	-24.68	1984	I	1979,1984,1989
*11S.24E.09.44413A	AVMB	-63.55	1-10-89	+13.75	-63.55	1989	-77.30	1984	I	1984,1989
11S.24E.11.412422	AVMB	-26.62	1-10-89	+11.53	-26.62	1989	-48.66	1979	I	1979,1984,1989
11S.24E.12.114111	AVMB	-21.60	1-10-89	+10.66	-21.60	1989	-44.80	1979	U	1979,1984,1989
11S.24E.12.233333	AVMB	-23.50	1-10-89	+8.29	-16.43	1957	-31.79	1984	I	1957-66,1979,1984,1989
*11S.24E.12.41133	AVMB	-22.41	1-10-89	+7.49	-22.41	1989	-55.50	1971	I	1969-74,1979,1984,1989

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
11S.24E.13.12242	AVMB	-10.75	1-10-89	+10.09	-5.60	1958	-20.84	1984	H	1957-60,1984,1989
11S.24E.13.34224	AVMB	-25.62	1-10-89	+11.80	-17.50	1955	-37.42	1984	I	1955,1979,1984,1989
11S.24E.14.33243	AVMB	-52.87	1-10-89	+14.47	-27.58	1948	-94.46	1963	U	1947-70,1972-75,1979,1984,1989
11S.24E.14.443133	AVMB	-30.18	1-10-89	+12.65	-30.18	1989	-73.35	1970	I	1969-74,1979,1984,1989
11S.24E.15.43121	AVMB	-62.60	1-10-89	+14.07	-31.30	1942	-94.16	1963	I	1938-64,1966,1979,1984,1989
*11S.24E.20.33333	AVMB	-108.05	1-06-89	+15.07	-94.76	1955	-133.21	1966	I	1955-71,1974-75,1979,1984,1989
*11S.24E.36.333431	AVMB	-48.77	1-11-89	+14.76	-48.77	1989	-63.53	1984	I	1969-70,1974-75,1979,1984,1989
11S.25E.05.33333A	AVMB	-18.62	1-12-89	+7.73	-18.62	1989	-37.07	1963	I	1962-66,1979,1984,1989
11S.25E.06.33222	AVMB	-22.10	1-12-89	+6.90	-22.10	1989	-34.53	1979	I	1979,1984,1989
11S.25E.06.42131	AVMB	-13.98	1-12-89	+4.34	-7.12	1954	-26.85	1965	I	1954-71,1974-75,1979,1984,1989
11S.25E.08.33112	AVMB	-16.42	1-12-89	+5.44	-14.30	1957	-21.86	1984	I	1957-66,1979,1984,1989
*11S.25E.08.434331	AVMB	-1.24	1-12-89	+1.10	0.06	1957	-2.34	1984	U	1957-60,1979,1984,1989
11S.25E.09.21122	AVMB	-4.98	1-13-89	--	-4.98	1989	-22.84	1978	H	1978-79,1989
11S.25E.10.142424	AVMB	1.52	1-13-89	-0.91	2.43	1984	-4.66	1978	S	1978-79,1984,1989
*11S.25E.15.222423	AVMB	-0.28	1-13-89	+0.96	-0.28	1989	-7.75	1978	I	1978,1984,1989
11S.25E.18.14334	AVMB	-20.31	1-11-89	+8.10	-20.31	1989	-28.62	1978	I	1975,1977-79,1984,1989
*11S.25E.19.34210	AVMB	-12.87	1-13-89	+7.19	-12.87	1989	-20.06	1984	I	1979,1984,1989
11S.25E.23.21113	AVMB	-8.78	1-17-89	+2.20	-8.78	1989	-11.98	1979	I	1979,1984,1989
*11S.25E.27.13333	AVMB	-12.85	1-13-89	+2.80	-9.45	1961	-16.77	1958	I	1957-61,1970-71,1974-75,1979,1984, 1989
11S.25E.27.32222	AVMB	-14.64	1-13-89	+3.30	-14.64	1989	-17.94	1984	I	1979,1984,1989
11S.25E.28.33331	AVMB	-15.01	1-13-89	+2.27	-5.34	1944	-17.28	1984	I	1938,1944-54,1956-62,1979,1984,1989
11S.25E.28.43322	AVMB	-14.47	1-13-89	+2.51	-9.19	1955	-16.98	1984	S	1955,1984,1989
*11S.25E.29.34333	AVMB	-15.19	1-13-89	+3.17	-4.38	1940	-21.56	1982	I	1939-65,1974-79,1981-89
11S.25E.31.223331A	AVMB	-21.15	1-13-89	+7.32	-21.15	1989	-28.47	1984	I	1979,1984,1989
11S.25E.31.433314	AVMB	-37.92	1-11-89	+6.94	-27.31	1947	-44.86	1984	I	1947-65,1979,1984,1989
11S.25E.33.413111	AVMB	-21.60	1-13-89	+5.40	-21.60	1989	-28.17	1979	I	1979,1984,1989
11S.25E.34.131333	AVMB	-18.12	1-13-89	+4.44	-18.12	1989	-23.94	1979	I	1979,1984,1989
*11S.25E.36.142344	AVMB	-4.53	1-13-89	-0.13	-1.88	1961	-11.96	1958	U	1958-61,1965,1967-84,1989
11S.25E.36.213412	AVMB	24.50	1-30-89	--	61.00	1979	16.42	1959	U	1957-61,1965,1978-79,1984,1989
11S.25E.36.242323	AVMB	-2.10	1-13-89	+1.48	-1.44	1961	-7.57	1974	U	1956-61,1965,1967-84,1989
11S.25E.36.41322	AVMB	-9.12	1-13-89	--	-8.63	1978	-9.80	1979	U	1978-80,1989
12S.24E.12.241411	AVMB	-76.42	1-26-89	+16.99	-76.42	1989	-93.41	1984	S	1979,1984,1989
*12S.24E.23.442311	AVMB	-114.51	1-20-89	+14.83	-75.53	1943	-131.25	1979	H	1938-40,1942-58,1979,1984,1989
12S.24E.25.222243	AVMB	-103.23	1-26-89	+4.17	-103.23	1989	-107.40	1984	S	1979,1984,1989
12S.25E.02.123111	AVMB	-36.93	1-19-89	+1.75	-34.62	1975	-39.74	1979	I	1975,1979,1984,1989
12S.25E.04.341123	AVMB	-55.90	1-20-89	+11.45	-55.90	1989	-67.35	1984	I	1979,1984,1989
*12S.25E.09.42230	AVMB	-69.95	1-23-89	+7.34	-38.64	1941	-86.62	1969	U	1937-66,1968-89
*12S.25E.11.313143	AVMB	-69.41	1-23-89	+2.56	-48.17	1955	-71.97	1984	H	1955-60,1979,1984,1989
12S.25E.13.111143	AVMB	-56.88	1-23-89	+1.39	-29.76	1953	-58.27	1984	U	1953-65,1979,1984,1989

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
12S.25E.15.333334	AVMB	-105.30	1-13-89	--	-105.30	1989	-115.16	1979	I	1979,1989
12S.25E.16.211114	AVMB	-78.57	1-13-89	+7.87	-69.18	1952	-88.80	1979	I	1952-53,1955-62,1979,1984,1989
*12S.25E.21.11313	AVMB	-94.74	1-26-89	+3.98	-74.76	1955	-98.72	1984	D	1955,1960-66,1979,1984,1989
12S.25E.22.231134	AVMB	-119.79	1-26-89	+7.86	-51.84	1939	-127.65	1984	I	1939-62,1979,1984,1989
12S.25E.23.344234A	AVMB	-103.97	1-20-89	+5.41	-103.06	1989	-112.13	1973	U	1966-89
*12S.25E.24.42424A	AVMB	-61.58	1-24-89	+5.49	-47.60	1961	-67.07	1984	S	1961-66,1984,1989
12S.25E.27.21111	AVMB	-118.73	1-20-89	--	-48.70	1939	-126.30	1979	I	1939-59,1961-64,1979,1989
12S.25E.33.12224	AVMB	-108.09	1-26-89	+4.26	-90.83	1949	-112.35	1984	I	1949-54,1979,1984,1989
12S.25E.34.21111	AVMB	-110.59	2-28-89	+6.37	-39.09	1938	-116.96	1984	I	1938,1942-50,1953,1955-56,1958-60, 1962,1968-70,1974-75,1984,1989
12S.25E.35.11111A	AVMB	-103.93	1-18-89	+4.94	-65.63	1949	-110.97	1979	I	1949-57,1959-60,1962,1979,1984,1989
12S.25E.35.41131	AVMB	-98.96	1-19-89	+6.52	-40.33	1945	-106.92	1979	I	1945-66,1979,1984,1989
12S.25E.36.123333	AVMB	-63.34	1-18-89	--	-35.43	1951	-73.13	1979	I	1950-51,1953-62,1979,1989
12S.25E.36.133343	AVMB	-72.14	1-24-89	+8.56	-48.86	1953	-82.47	1963	I	1953-65,1979,1984,1989
12S.25E.36.21111	AVMB	-62.69	1-18-89	+7.49	-24.55	1944	-76.11	1963	I	1944-45,1947,1950-64,1979,1984,1989
12S.25E.36.313311	AVMB	-69.20	1-24-89	+7.38	-22.84	1938	-78.07	1979	I	1938-41,1943-56,1958-60,1979, 1984,1989
12S.26E.05.424312	AVMB	-6.81	1-25-89	+0.06	-6.70	1982	-9.13	1977	U	1973-79,1981-84,1989
*12S.26E.16.13142	AVMB	-2.97	2-28-89	+1.53	-2.34	1978	-5.70	1978	U	1978-80,1984,1989
12S.26E.17.144133	AVMB	-16.97	1-24-89	+1.81	-12.80	1956	-20.86	1963	S	1955-64,1966-75,1979,1984,1989
12S.26E.18.221113	AVMB	-29.79	1-24-89	--	-14.22	1945	-32.18	1984	H	1944-62,1984,1989
12S.26E.18.42333	AVMB	-28.89	1-24-89	+4.26	-24.69	1973	-34.27	1971	U	1969-74,1979,1984,1989
12S.26E.19.242434	AVMB	-31.48	1-29-89	--	-20.12	1964	-32.91	1984	U	1955-66,1984,1989
12S.26E.20.43313	AVMB	-22.78	1-24-89	+0.67	-18.30	1955	-23.45	1984	U	1955,1979,1984,1989
12S.26E.21.41243	AVMB	-19.28	1-26-89	+0.08	-19.28	1989	-19.43	1979	U	1979,1984,1989
*12S.26E.25.34221A	AVMB	-44.88	1-26-89	+4.13	-42.29	1980	-49.01	1984	S	1980,1984,1989
*12S.26E.31.444434	AVMB	-21.89	1-24-89	+5.47	-15.20	1955	-27.36	1984	H	1955,1979,1984,1989
12S.26E.32.133234	AVMB	-25.19	1-24-89	+2.61	-7.75	1963	-30.59	1971	I	1963-66,1969,1971,1984,1989
13S.24E.24.112132	AVMB	-139.84	1-18-89	--	-119.03	1955	-139.84	1989	S	1955-57,1979,1989
13S.25E.01.11111	AVMB	-57.34	1-12-89	+10.52	-27.70	1950	-67.86	1984	I	1948-64,1966,1968,1970,1975,1979, 1984,1989
13S.25E.01.331131	AVMB	-71.88	1-12-89	+5.72	-71.88	1989	-77.60	1984	I	1979,1984,1989
*13S.25E.05.11411	AVMB	-88.77	1-17-89	+7.41	-60.70	1942	-109.80	1963	S	1938-64,1984,1989
13S.25E.06.33433	AVMB	-80.48	1-17-89	+0.89	-78.22	1938	-114.34	1961	S	1938-66,1979,1984,1989
*13S.25E.12.311134	AVMB	-79.41	1-12-89	+5.66	-16.23	1942	-90.13	1984	I	1939-67,1969-75,1977-78,1982-89
*13S.25E.13.43333	AVMB	-81.68	1-11-89	+4.87	-25.54	1942	-88.30	1979	I	1938-53,1955-59,1979,1984,1989
13S.25E.14.111331	AVMB	-116.15	1-11-89	+9.68	-67.38	1950	-127.20	1963	I	1950-66,1979,1984,1989
13S.25E.15.31222	AVMB	-107.11	1-12-89	--	-98.15	1958	-135.75	1979	I	1958-66,1979,1989
*13S.25E.17.23333	AVMB	-85.02	1-17-89	+9.50	-55.08	1942	-153.76	1963	S	1939,1941-65,1979,1984,1989
13S.25E.19.14100	AVMB	-123.31	1-17-89	+0.06	-110.53	1963	-123.37	1984	S	1963-66,1979,1984,1989

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
13S.25E.23.41123	AVMB	-114.10	1-11-89	+2.35	-111.91	1979	-116.45	1984	I	1979,1984,1989
13S.25E.27.21121	AVMB	-115.24	1-27-89	+10.34	-61.95	1942	-131.83	1963	I	1939,1942-43,1945-51,1953-63, 1965-66,1979,1984,1989
*13S.25E.34.314224	AVMB	-127.30	1-13-89	+0.02	-86.31	1948	-127.32	1984	S	1948-66,1970,1974-75,1979,1984,1989
13S.25E.35.311241	AVMB	-128.35	1-13-89	+4.95	-57.13	1938	-133.30	1984	I	1938-41,1943-45,1979,1984,1989
*13S.25E.36.234241A	AVMB	-102.69	1-13-89	+5.23	-81.12	1956	-107.92	1984	I	1956,1962-66,1979,1984,1989
*13S.26E.03.143233	AVMB	-12.74	1-23-89	+3.06	-12.74	1989	-15.80	1984	U	1979,1984,1989
13S.26E.05.11113A	AVMB	-20.99	2-08-89	+5.98	-20.99	1989	-26.97	1984	I	1979,1984,1989
13S.26E.10.113222	AVMB	-12.68	1-23-89	+0.22	-12.07	1960	-14.76	1959	U	1957-60,1967,1979,1983-84,1989
*13S.26E.17.443131	AVMB	-31.77	2-03-89	+4.53	-11.28	1942	-38.52	1978	I	1938-64,1968-70,1974-75,1977-79, 1984,1989
13S.26E.19.313333A	AVMB	-66.41	1-27-89	+6.93	-66.41	1989	-73.34	1984	I	1979,1984,1989
13S.26E.20.11344	AVMB	-49.39	2-08-89	+7.16	-17.25	1942	-56.55	1984	I	1938-46,1979,1984,1989
13S.26E.22.313312	AVMB	-15.18	2-03-89	+3.04	-4.09	1956	-29.99	1963	I	1947-60,1962-65,1968-71,1974-75, 1979,1984,1989
13S.26E.28.111111	AVMB	-37.39	2-03-89	+3.81	-17.50	1951	-47.89	1979	I	1949-61,1979,1984,1989
13S.26E.28.223111	AVMB	-21.79	2-03-89	+3.66	-21.79	1989	-25.45	1984	I	1979,1984,1989
13S.26E.28.31111A	AVMB	-31.34	1-30-89	+5.48	-25.95	1964	-41.30	1973	I	1963-66,1968-70,1972-75,1979,1984, 1989
13S.26E.29.11331A	AVMB	-47.69	2-03-89	+5.25	-19.13	1951	-55.74	1975	U	1951-65,1968-70,1974-75,1979,1984, 1989
*13S.26E.33.421113	AVMB	-25.38	1-30-89	+4.21	-15.62	1942	-44.13	1969	U	1938-70,1974-75,1979,1984,1989
*14S.24E.36.42342	AVMB	-122.30	2-24-89	-0.77	-101.56	1966	-122.30	1989	H	1963-66,1979,1984,1989
14S.25E.01.11111	AVMB	-123.69	1-19-89	+4.08	-74.84	1953	-127.77	1984	U	1953-66,1968-72,1975,1979,1984,1989
14S.25E.01.12111	AVMB	-105.71	1-17-89	--	-75.97	1955	-108.49	1979	I	1955,1979,1989
14S.25E.02.44444	AVMB	-170.78	1-17-89	+8.33	-169.60	1974	-179.11	1984	U	1974-75,1977-79,1984,1989
*14S.25E.12.33133	AVMB	-188.09	1-13-89	+30.83	-188.09	1989	-218.92	1984	I	1984,1989
14S.25E.13.213231	AVMB	-179.08	1-13-89	--	-161.83	1963	-186.37	1979	I	1963,1965,1979,1989
14S.25E.13.311221	AVMB	-188.76	1-13-89	+0.73	-173.07	1968	-195.00	1977	U	1967-70,1972-75,1977-79,1984,1989
14S.25E.15.413313	AVMB	-165.70	1-17-89	-2.60	-129.06	1953	-176.57	1968	I	1953-66,1968-75,1979,1984,1989
*14S.25E.18.43333	AVMB	-108.94	2-24-89	-0.86	-91.16	1979	-108.94	1989	S	1979,1984,1989
*14S.25E.25.111112	AVMB	-143.47	1-17-89	-4.53	-86.48	1950	-171.48	1963	I	1950-63,1965-66,1979,1984,1989
14S.26E.05.111112	AVMB	-67.89	1-17-89	+11.01	-67.89	1989	-78.90	1984	I	1979-80,1984,1989
14S.26E.05.43313	AVMB	-48.90	1-18-89	+7.60	-10.70	1968	-66.18	1969	I	1947-65,1968-71,1974-75,1979,1984, 1989
14S.26E.06.142224	AVMB	-83.20	1-17-89	--	-83.20	1989	-85.93	1979	I	1979,1989
14S.26E.06.42240	AVMB	-67.66	1-18-89	+14.59	-22.10	1938	-82.25	1984	H	1938-40,1979,1984,1989
14S.26E.08.11212	AVMB	-92.92	1-18-89	+8.97	-75.47	1959	-101.89	1984	I	1958-62,1979,1984,1989
*14S.26E.08.311243	AVMB	-130.30	1-18-89	+7.37	-79.60	1952	-155.20	1963	I	1951-65,1979,1984,1989
14S.26E.09.22111	AVMB	-24.09	1-18-89	+4.32	-24.09	1989	-28.41	1984	I	1980,1984,1989

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes High (feet)	Year	Low (feet)	Year	Use of water	Years of record
14S.26E.09.434333	AVMB	-60.21	1-20-89	+11.87	-7.79	1945	-72.08	1984	I	1938-47,1949-65,1984,1989
*14S.26E.10.133443	AVMB	-27.65	1-23-89	+6.53	-20.08	1955	-34.18	1984	I	1955,1979,1984,1989
14S.26E.12.431331	AVMB	-17.61	1-23-89	--	-12.50	1942	-23.32	1977	U	1940-66,1968-73,1976-89
*14S.26E.12.433131	AVMB	-18.24	1-23-89	+1.66	-18.24	1989	-22.20	1974	I	1973-77,1979,1984,1989
14S.26E.13.112242	AVMB	-15.29	1-23-89	+2.11	-15.01	1952	-18.54	1957	I	1952,1954-62,1979,1984,1989
14S.26E.14.13313	AVMB	-22.24	1-23-89	+9.92	-22.24	1989	-34.30	1980	I	1980,1984,1989
14S.26E.14.212243	AVMB	-16.63	1-23-89	+0.44	-11.96	1942	-20.03	1966	I	1940-50,1952-66,1979,1984,1989
14S.26E.14.44140	AVMB	-18.64	2-23-89	+3.96	-18.64	1989	-22.60	1984	U	1984,1989
14S.26E.15.411111	AVMB	-23.18	1-24-89	+19.35	-23.18	1989	-45.99	1980	I	1980,1984,1989
14S.26E.16.11111	AVMB	-97.59	1-18-89	+9.77	-23.08	1942	-110.31	1979	I	1938-42,1979,1984,1989
14S.26E.17.44430	AVMB	-115.65	2-23-89	+11.36	-38.42	1938	-164.15	1978	U	1938-52,1954-70,1974-75,1977-79, 1984,1989
14S.26E.18.11331A	AVMB	-173.64	1-18-89	+5.13	-127.90	1960	-180.07	1979	I	1960-66,1979,1984,1989
14S.26E.18.43124	AVMB	-150.74	1-24-89	+6.29	-150.74	1989	-159.21	1979	H	1968-69,1974-75,1979,1984,1989
14S.26E.19.24224	AVMB	-123.57	1-24-89	+15.45	-48.05	1938	-139.02	1984	H	1938-48,1979,1984,1989
14S.26E.19.31110	AVMB	-143.04	2-23-89	-2.02	-36.12	1938	-143.04	1989	I	1938-48,1950,1952-53,1955-62,1979, 1984,1989
*14S.26E.20.343344	AVMB	-131.94	1-24-89	-6.85	-56.26	1938	-135.04	1979	I	1938-40,1942-58,1979,1984,1989
14S.26E.21.333313	AVMB	-94.63	1-24-89	+9.47	-33.38	1942	-107.11	1979	H	1938-43,1946-48,1979,1984,1989
14S.26E.22.14111	AVMB	-65.77	1-24-89	+17.77	-21.66	1942	-88.65	1979	I	1938-59,1979,1984,1989
14S.26E.23.11113	AVMB	-22.53	1-23-89	+13.56	-18.00	1954	-41.82	1979	I	1954-62,1979,1984,1989
14S.26E.23.232231A	AVMB	-22.91	1-24-89	+5.61	-13.96	1945	-37.59	1963	I	1945-75,1979,1984,1989
14S.26E.27.31331	AVMB	-52.04	1-24-89	+10.61	-52.04	1989	-65.33	1979	H	1979,1984,1989
*14S.26E.27.42423	AVMB	-47.82	1-24-89	+2.55	-47.82	1989	-50.87	1975	I	1975,1979,1984,1989
14S.26E.28.211333A	AVMB	-81.92	1-24-89	+22.19	-74.29	1960	-116.38	1963	I	1960-63,1965,1979,1984,1989
14S.26E.28.41133	AVMB	-68.64	1-24-89	+13.32	-39.18	1952	-92.85	1974	I	1952-70,1974-75,1977-79,1984,1989
14S.26E.29.213313	AVMB	-117.59	1-24-89	+1.10	-117.25	1989	-120.38	1979	U	1979,1984,1989
14S.26E.35.22131	AVMB	-39.27	1-24-89	+5.05	-27.65	1950	-47.55	1979	I	1949-52,1954-55,1957-66,1979, 1984,1989
*15S.24E.12.311311	AVMB	-120.34	1-31-89	-2.46	-117.88	1984	-120.34	1989	S	1984,1989
*15S.24E.23.43333A	AVMB	-84.99	1-31-89	-1.38	-68.50	1955	-84.99	1989	S	1955,1957-66,1979,1984,1989
15S.24E.28.244243	AVMB	-91.22	1-30-89	-0.75	-87.95	1954	-105.41	1958	H	1938-66,1968-71,1984,1989
15S.24E.36.133343	AVMB	-27.35	1-26-89	+5.31	-27.35	1989	-35.63	1979	U	1979,1984,1989
*15S.25E.04.22142	AVMB	-103.91	1-19-89	-3.00	-88.65	1970	-103.91	1989	C	1970-71,1973-75,1978-79,1984,1989
*15S.25E.12.112221	AVMB	-60.10	1-24-89	-0.43	-59.06	1979	-60.10	1989	U	1979,1984,1989
15S.25E.19.324124	AVMB	-62.18	1-31-89	+1.47	-47.42	1955	-63.65	1984	U	1955,1979,1984,1989
15S.25E.23.211134	AVMB	-16.13	1-25-89	+3.56	-16.13	1989	-19.69	1984	U	1979,1984,1989
15S.25E.26.133313	AVMB	-27.34	1-26-89	+8.16	-13.83	1951	-35.50	1984	I	1951-64,1979,1984,1989
*15S.25E.29.121234	AVMB	-77.41	1-31-89	+9.27	-45.02	1955	-98.47	1963	U	1955-58,1963-66,1970,1979,1984,1989
15S.25E.33.121131	AVMB	-34.06	1-27-89	+0.27	-11.18	1942	-34.33	1984	H	1927,1938,1940-49,1955-61,1979,1984, 1989

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*15S.25E.35.311222	AVMB	-46.83	1-26-89	+4.51	-28.85	1942	-51.34	1984	I	1938-39,1941-45,1947-55,1979, 1984,1989
15S.25E.36.11333	AVMB	-22.20	1-26-89	-0.09	-10.72	1940	-22.31	1979	I	1940,1955,1979,1984,1989
*15S.26E.01.311141	AVMB	-31.67	1-23-89	+1.31	-31.67	1989	-33.09	1979	S	1979,1984,1989
*15S.26E.05.142144	AVMB	-99.48	1-25-89	+9.03	-25.55	1943	-108.51	1984	U	1938-66,1979,1984,1989
15S.26E.06.31111	AVMB	-98.47	1-24-89	+4.48	-29.04	1938	-119.50	1963	U	1938-52,1954-70,1972-75,1979, 1984,1989
15S.26E.08.413241	AVMB	-48.50	1-24-89	--	-16.08	1944	-50.27	1979	H	1944-64,1966,1979,1984,1989
15S.26E.09.133133	AVMB	-48.77	1-24-89	+0.96	-16.68	1942	-64.92	1963	U	1940-66,1979,1984,1989
15S.26E.09.34400	AVMB	-39.30	1-24-89	-0.16	-39.14	1984	-41.52	1979	S	1979,1984,1989
15S.26E.11.111113	AVMB	-48.42	1-25-89	+1.24	-36.34	1955	-49.91	1979	U	1955-66,1979,1984,1989
15S.26E.17.211114	AVMB	-49.15	1-24-89	+4.94	-12.06	1944	-84.98	1964	I	1944-66,1979,1984,1989
15S.26E.18.112121	AVMB	-50.32	1-24-89	+2.82	-31.29	1944	-92.18	1958	I	1944-59,1961-66,1968-70,1972-75, 1977-79,1984,1989
*15S.26E.19.12222	AVMB	-49.06	1-24-89	+5.74	-23.85	1942	-59.14	1979	I	1941-51,1979,1984,1989
15S.26E.20.14121	AVMB	-57.10	2-08-89	+5.71	-57.10	1989	-65.99	1979	I	1979,1984,1989
*15S.26E.22.22113	AVMB	-13.96	1-25-89	+0.09	-11.45	1955	-14.60	1958	S	1955-71,1974-75,1977-79,1984,1989
15S.26E.22.342114	AVMB	-6.96	1-18-89	+5.03	-6.96	1989	-12.75	1957	U	1957-61,1979,1984,1989
15S.26E.29.23114	AVMB	-26.47	1-25-89	+1.03	-26.47	1989	-28.88	1979	H	1979,1984,1989
15S.26E.29.23244	AVMB	-18.16	1-25-89	+1.44	-18.16	1989	-20.77	1979	I	1979,1984,1989
15S.26E.30.12343	AVMB	-31.64	1-25-89	+8.34	-18.56	1956	-39.98	1984	I	1956-58,1960-63,1984,1989
15S.26E.30.131131	AVMB	-15.94	1-25-89	+12.64	-2.10	1940	-133.77	1963	I	1939-41,1943-66,1968-75,1984,1989
15S.26E.31.333330	AVMB	-31.56	1-26-89	+3.23	-15.12	1942	-34.79	1984	I	1942-66,1979,1984,1989
15S.27E.06.141414	AVMB	-9.40	2-08-89	+0.73	-6.46	1974	-14.23	1978	U	1958-60,1965,1967-84,1989
15S.27E.06.233244A	AVMB	-4.14	2-08-89	-0.21	-3.40	1983	-5.52	1976	U	1975-84,1989
16S.25E.01.111111	AVMB	-21.67	1-24-89	+5.28	-12.68	1955	-38.84	1958	I	1954-62,1979,1984,1989
16S.25E.01.12110	AVMB	-37.61	1-25-89	+8.03	-10.61	1944	-49.12	1979	H	1938-64,1979,1984,1989
16S.25E.01.311334	AVMB	-48.22	1-25-89	+5.24	-14.66	1944	-56.65	1979	I	1943-57,1960-61,1979,1984,1989
16S.25E.01.34321A	AVMB	-65.80	1-25-89	+4.84	-20.15	1961	-72.64	1979	H	1961-64,1966,1979,1984,1989
*16S.25E.02.131142	AVMB	-31.17	1-25-89	+3.51	-16.54	1952	-37.55	1979	I	1949-58,1960-61,1963,1965-66, 1979,1984,1989
*16S.25E.06.224413	AVMB	-15.89	1-24-89	+3.43	-15.89	1989	-32.29	1972	I	1967-75,1979,1984,1989
16S.25E.06.31313	AVMB	-22.92	1-23-89	+6.12	-20.41	1989	-31.72	1978	U	1935,1937-66,1969-79,1981-89
16S.25E.08.111432	AVMB	-40.43	1-23-89	+5.25	-24.27	1945	-45.68	1984	U	1938,1940-66,1979,1984,1989
16S.25E.10.41111	AVMB	-66.94	1-24-89	+3.48	-51.98	1952	-70.42	1984	I	1952-62,1979,1984,1989
16S.25E.11.111131A	AVMB	-53.68	1-24-89	+4.33	-40.45	1965	-64.26	1985	U	1964-89
16S.25E.13.21322	AVMB	-100.40	1-24-89	+2.84	-53.24	1959	-105.65	1979	I	1949-63,1966,1979,1984,1989
*16S.25E.15.233331A	AVMB	-78.42	1-24-89	+1.92	-78.42	1989	-80.34	1984	I	1984,1989
16S.25E.16.23223	AVMB	-67.16	1-24-89	+4.44	-55.68	1955	-71.60	1984	S	1955,1979,1984,1989
16S.25E.23.43332	AVMB	-69.81	1-31-89	+14.32	-57.90	1955	-100.12	1963	S	1955-66,1979,1984,1989

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*16S.25E.24.21232	AVMB	-118.28	1-24-89	+4.77	-30.42	1942	-125.85	1979	U	1938-50,1952-56,1958-64,1967-70, 1974-75,1977-79,1984,1989
16S.26E.05.11311	AVMB	-52.61	1-25-89	-0.81	-31.25	1961	-52.61	1989	I	1955-62,1979,1984,1989
16S.26E.06.112233	AVMB	-47.13	1-25-89	-4.00	-19.99	1946	-47.13	1989	I	1944-65,1979,1984,1989
16S.26E.07.321111	AVMB	-77.58	1-25-89	+5.31	-3.09	1942	-82.89	1984	U	1938-54,1956-59,1961-62,1979, 1984,1989
16S.26E.07.34130	AVMB	-86.05	1-25-89	+4.38	-8.58	1942	-90.43	1984	H	1938-42,1979,1984,1989
*16S.26E.09.23443	AVMB	-19.34	1-25-89	+1.42	-12.37	1960	-20.76	1984	S	1955-70,1974-75,1979,1984,1989
16S.26E.15.234323	AVMB	-10.21	1-26-89	+1.39	-5.58	1955	-11.60	1984	S	1955-66,1970-75,1979,1984,1989
16S.26E.16.12212	AVMB	-15.76	1-25-89	+2.04	-5.95	1958	-17.80	1984	H	1955,1958,1960-66,1979,1984,1989
16S.26E.16.31134	AVMB	-33.96	1-25-89	+4.87	-21.32	1979	-38.83	1984	I	1979,1984,1989
16S.26E.17.31114	AVMB	-76.40	1-24-89	+5.32	-16.68	1942	-81.72	1984	I	1938-51,1954,1956-62,1979,1984,1989
16S.26E.19.21113	AVMB	-97.10	1-24-89	+9.06	-82.60	1969	-112.85	1985	I	1969-89
*16S.26E.21.333334	AVMB	-58.93	1-26-89	+1.79	-2.09	1942	-60.72	1984	I	1938-66,1968-70,1974-75,1978-79, 1984,1989
16S.26E.27.13330	AVMB	-36.54	1-26-89	-2.42	-34.12	1984	-39.11	1979	H	1979,1984,1989
16S.26E.27.434342	AVMB	-34.15	1-26-89	+2.14	-32.44	1979	-36.29	1984	S	1979,1984,1989
*16S.26E.31.33423	AVMB	-149.18	1-31-89	+3.27	-111.90	1963	-152.45	1984	I	1963-65,1979,1984,1989
16S.26E.32.231111	AVMB	-107.44	1-27-89	+2.50	-20.41	1943	-109.94	1984	I	1943-59,1961-64,1966,1979,1984,1989
*16S.26E.35.342424	AVMB	-7.64	1-26-89	+0.88	-0.30	1974	-12.33	1971	U	1967-84,1989
*17S.25E.02.11333	AVMB	-185.04	1-25-89	+0.82	-182.99	1979	-185.86	1984	H	1979,1984,1989
17S.25E.04.244411	AVMB	-190.98	1-25-89	+1.12	-190.24	1979	-192.10	1984	S	1979,1984,1989
17S.25E.12.211432	AVMB	-160.52	1-24-89	+6.42	-90.09	1948	-166.94	1984	I	1948-58,1960-61,1963-65,1967, 1969-70,1974-75,1984,1989
17S.25E.21.214423	AVMB	-186.19	1-25-89	--	-168.38	1955	-186.19	1989	S	1955,1979,1984,1989
*17S.25E.22.224412	AVMB	-169.83	1-25-89	+11.65	-169.83	1989	-181.48	1984	U	1984,1989
17S.25E.23.124411	AVMB	-196.74	1-25-89	+4.48	-174.54	1963	-201.22	1984	S	1963-66,1970-71,1984,1989
17S.25E.27.141413	AVMB	-212.51	1-31-89	+5.90	-209.98	1979	-218.41	1984	S	1979,1984,1989
*17S.25E.29.433442	AVMB	-193.45	1-31-89	-4.78	-154.50	1955	-193.45	1989	I	1955-57,1959-65,1979,1984,1989
*17S.25E.35.411113A	AVMB	-191.39	1-31-89	-0.43	-188.97	1979	-191.39	1989	S	1979,1984,1989
17S.26E.01.11221	AVMB	-9.87	1-26-89	+1.56	-8.85	1966	-11.43	1984	U	1958,1962-68,1979,1984,1989
17S.26E.02.13123	AVMB	-24.71	1-24-89	+3.76	-5.62	1942	-28.47	1984	I	1938-64,1984,1989
17S.26E.03.231214	AVMB	-28.81	1-24-89	+5.63	-16.88	1959	-34.44	1984	I	1958-60,1962,1970,1974-75,1979, 1984,1989
17S.26E.03.33334	AVMB	-33.38	1-24-89	+7.14	-29.98	1969	-40.52	1984	I	1967-75,1977-79,1984,1989
17S.26E.07.131123	AVMB	-138.30	1-23-89	+6.24	-81.26	1952	-144.54	1984	I	1952-59,1979,1984,1989
*17S.26E.10.433442	AVMB	-40.82	1-24-89	+9.48	-14.41	1942	-68.23	1958	I	1938-66,1984,1989
17S.26E.11.313111	AVMB	-16.11	1-24-89	+4.36	-5.64	1951	-20.47	1984	I	1949,1951,1956-59,1961-66,1979, 1984,1989
17S.26E.13.33111	AVMB	-6.09	1-24-89	+1.71	-1.20	1955	-7.80	1984	S	1955-66,1979,1984,1989

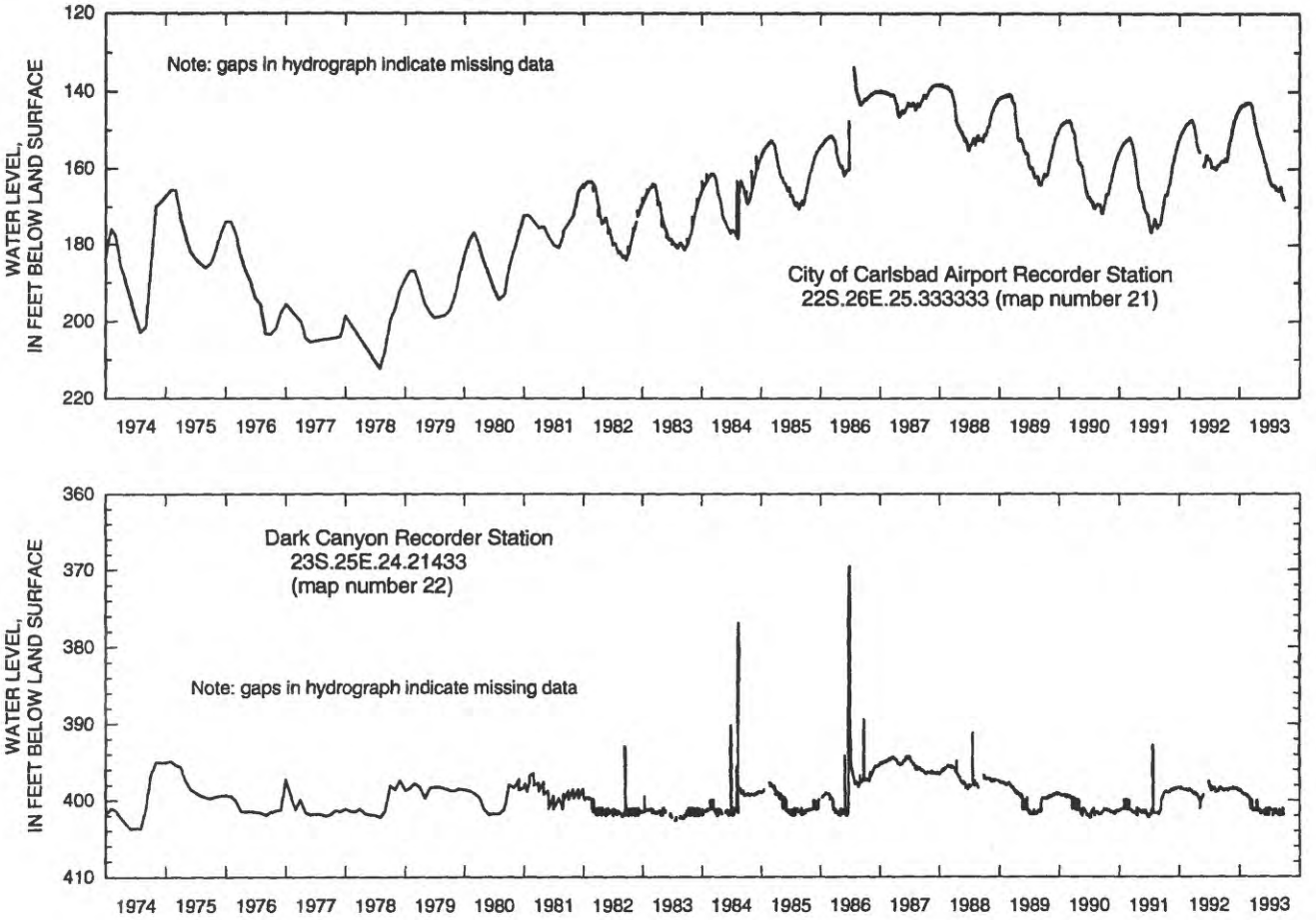


Figure 4.--Continuous water-level data for selected wells. See figure 2 and table 1 for locations--Concluded.

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
17S.26E.15.31334	AVMB	-52.15	1-24-89	+12.53	-52.15	1989	-64.68	1984	I	1979,1984,1989
*17S.26E.18.43333A	AVMB	-81.07	2-23-89	+11.20	-38.61	1942	-115.55	1958	I	1938-58,1984,1989
17S.26E.21.341114	AVMB	-75.53	1-24-89	+13.48	-74.22	1975	-89.01	1984	I	1963,1969-70,1974-75,1984,1989
17S.26E.21.34113	AVMB	-73.47	1-24-89	+12.66	-0.53	1943	-93.78	1979	I	1938-41,1943-56,1962-63,1979, 1984,1989
17S.26E.22.234311	AVMB	-40.91	1-24-89	+5.62	-34.99	1975	-46.53	1984	I	1963,1967-75,1979-80,1984,1989
17S.26E.25.11111	AVMB	-4.73	1-24-89	--	-3.11	1973	-7.48	1974	S	1972-75,1977,1985,1989
*17S.26E.26.221111	AVMB	-14.27	1-24-89	+1.19	-14.27	1989	-15.46	1984	H	1979,1984,1989
17S.26E.27.41333	AVMB	-29.69	1-26-89	+6.38	-11.16	1942	-36.07	1984	I	1938-39,1942-48,1950-62,1979, 1984,1989
*18S.26E.04.112124	AVMB	-44.74	1-24-89	+9.31	-44.74	1989	-54.05	1984	H	1979,1984,1989
18S.26E.04.433311	AVMB	-68.40	1-24-89	+19.95	-16.82	1943	-88.35	1984	I	1938-45,1947-61,1963,1966,1968-70, 1973-75,1979,1984,1989
18S.26E.06.33333	AVMB	-148.07	1-26-89	+9.24	-94.04	1953	-157.31	1984	S	1953-57,1959-66,1979,1984,1989
18S.26E.06.442212B	AVMB	-110.20	1-26-89	+13.79	-107.07	1964	-139.50	1983	U	1963-89
18S.26E.10.411314A	AVMB	-45.59	1-24-89	+8.74	-17.47	1950	-68.34	1963	I	1948-63,1965,1979,1984,1989
*18S.26E.13.111111	AVMB	-22.03	1-24-89	+6.71	-22.03	1989	-28.74	1984	I	1979,1984,1989
18S.26E.14.421133	AVMB	-35.58	1-25-89	+7.57	-35.45	1975	-43.15	1984	H	1967-70,1973-75,1979,1984,1989
*18S.26E.15.31131	AVMB	-54.73	1-25-89	+4.93	-14.16	1942	-59.66	1984	H	1938-48,1984,1989
*18S.26E.17.333321A	AVMB	-132.05	1-31-89	+8.13	-132.05	1989	-140.18	1984	I	1984,1989
18S.26E.18.21214	AVMB	-132.07	1-31-89	+7.85	-126.10	1979	-139.92	1984	H	1979,1984,1989
18S.26E.22.133313	AVMB	-76.93	1-25-89	+5.00	-76.93	1989	-81.93	1984	H	1979,1984,1989
18S.26E.23.131331	AVMB	-60.85	1-25-89	+7.15	-31.00	1950	-68.00	1984	I	1949-50,1975,1978-79,1984,1989
18S.26E.24.13111	AVMB	-45.32	1-25-89	+6.88	-14.16	1943	-52.20	1984	I	1943-66,1984,1989
*18S.26E.25.112122	AVMB	-34.48	1-25-89	+7.52	-18.70	1955	-42.00	1984	I	1955,1958-70,1973-75,1979,1984,1989
18S.26E.28.122111	AVMB	-122.04	1-25-89	-0.86	-60.21	1951	-122.61	1988	U	1951-89
18S.26E.28.332242	AVMB	-118.60	1-26-89	-5.12	-96.05	1963	-118.60	1989	U	1960,1963-65,1979,1984,1989
*18S.26E.28.444432	AVMB	-108.18	1-31-89	-0.40	-70.28	1951	-108.18	1989	H	1951-66,1979,1984,1989
18S.26E.30.241123	AVMB	-133.93	1-31-89	-0.06	-133.59	1979	-133.97	1989	--	1979,1984,1989
18S.26E.32.11100	AVMB	-94.38	1-31-89	-2.30	-77.54	1963	-97.25	1984	S	1963-66,1970,1973-75,1979,1984,1989
18S.28E.04.32412	AVMB	-107.27	2-02-89	--	-103.08	1985	-107.27	1989	N	1985,1989
18S.28E.07.43131	AVMB	-44.81	2-22-89	--	-42.20	1983	-44.81	1989	S	1983,1989
*19S.25E.08.42222	AVMB	-100.86	2-01-89	+3.53	-93.70	1959	-104.39	1984	S	1955-66,1984,1989
*19S.25E.11.24333	AVMB	-63.23	2-10-89	+4.81	-63.23	1989	-68.04	1984	S	1979,1984,1989
19S.25E.14.133131	AVMB	-82.18	1-30-89	--	-82.18	1989	-85.96	1979	S	1979,1989
19S.25E.16.22332	AVMB	-94.28	1-31-89	+5.77	-94.28	1989	-100.05	1984	U	1979,1984,1989
19S.25E.17.321211	AVMB	-88.37	1-31-89	+3.73	-71.49	1979	-92.10	1984	S	1979,1984,1989
*19S.25E.20.341112	AVMB	-116.68	2-10-89	+0.81	-109.38	1957	-117.50	1979	S	1957,1979,1984,1989
19S.25E.22.31430	AVMB	-124.19	2-10-89	+2.69	-97.08	1955	-126.88	1984	S	1955-57,1979,1984,1989
19S.26E.02.21131	AVMB	-49.55	1-25-89	-0.06	-32.10	1952	-49.55	1989	I	1952-62,1979,1984,1989

Table 30.--Well location and water-level data for selected shallow wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
19S.26E.04.311142	AVMB	-80.15	1-25-89	-2.21	-56.57	1955	-80.62	1968	H	1955-60,1962-64,1966,1968,1979, 1984,1989
*19S.26E.10.11220	AVMB	-86.77	1-25-89	-14.97	-54.28	1979	-86.77	1989	H	1979,1984,1989
*19S.26E.12.321324	AVMB	-39.13	1-25-89	+18.30	-38.22	1961	-59.73	1973	I	1961-75,1979,1984,1989
19S.26E.14.12244	AVMB	-53.82	1-26-89	+13.54	-53.82	1989	-67.36	1984	I	1979,1984,1989
19S.26E.15.341442	AVMB	-89.41	1-26-89	+5.49	-89.41	1989	-94.90	1984	H	1979,1984,1989
*19S.26E.27.141422	AVMB	-53.33	1-26-89	+26.35	-37.63	1942	-91.72	1963	H	1937-64,1966,1969-70,1972-73, 1975-76,1979,1984,1989
19S.26E.27.14443	AVMB	-43.80	1-26-89	+1.77	-43.10	1958	-54.01	1958	U	1956-59,1961,1965,1979,1984,1989
19S.26E.28.33442	AVMB	-56.28	1-26-89	+27.24	-46.20	1942	-97.99	1963	H	1938-39,1941-65,1979,1984,1989
*19S.26E.30.33323	AVMB	-72.31	1-26-89	+0.82	-53.53	1959	-73.13	1984	I	1955-60,1963,1979,1984,1989
20S.26E.03.411211	AVMB	-14.76	2-01-89	+34.47	-14.76	1989	-57.48	1979	S	1954-66,1970-75,1979,1984,1989

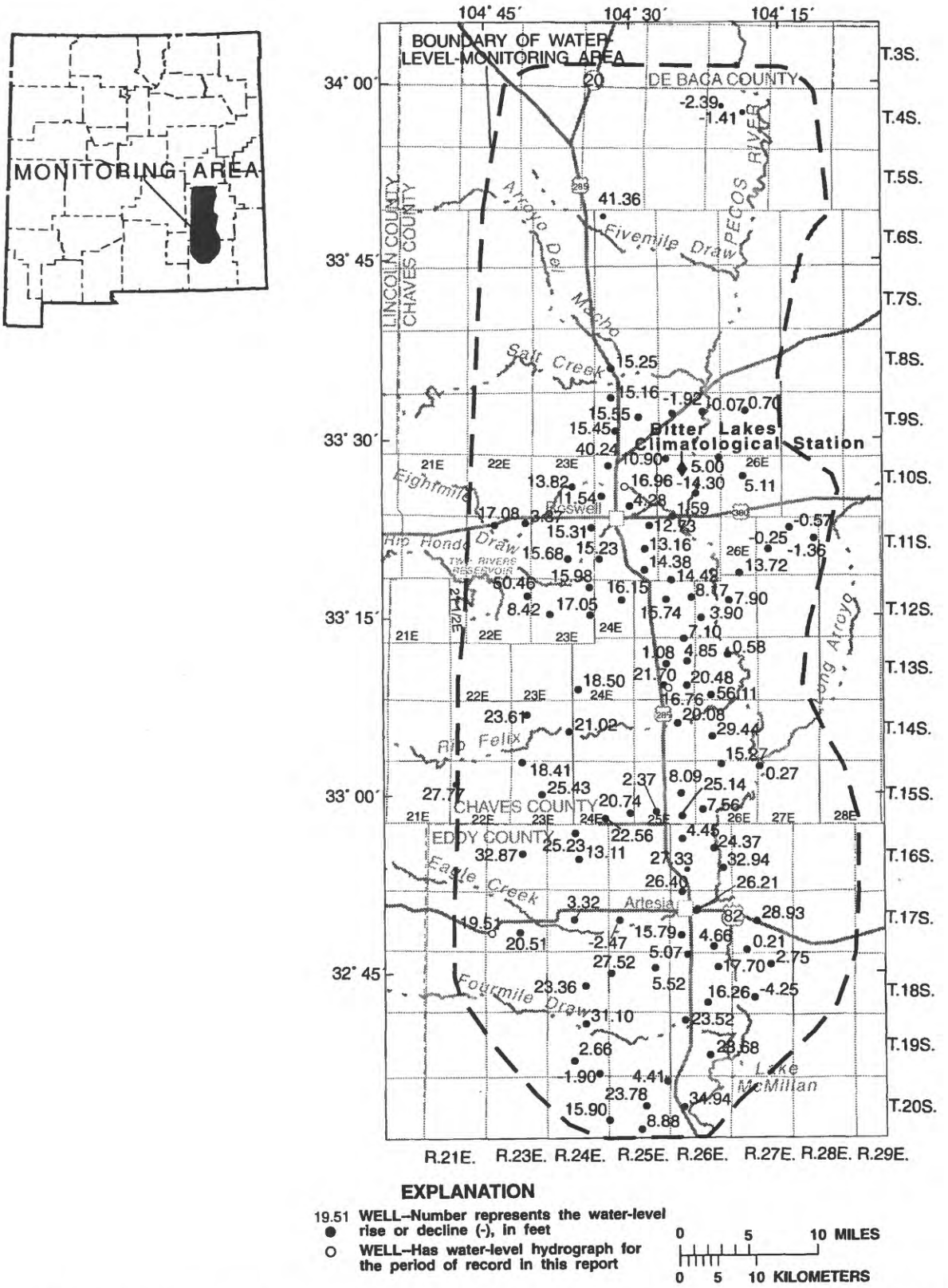


Figure 63.--Water-level changes for selected artesian wells in the Roswell Basin monitoring area, 1984-89.

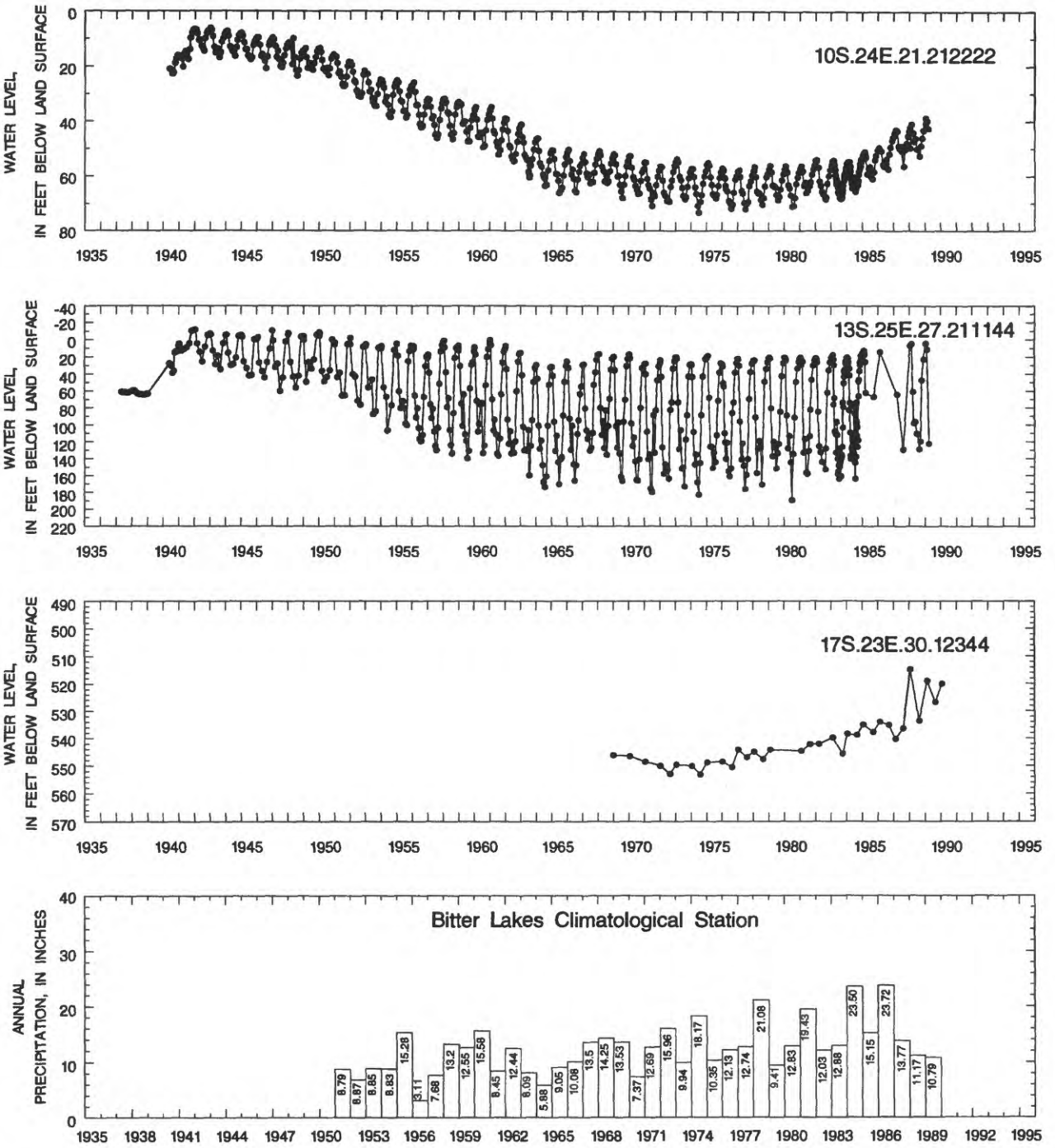


Figure 64.--Water-level data for selected artesian wells in the Roswell Basin monitoring area and annual precipitation at the Bitter Lakes Climatological Station. See figure 63 for location of wells and station.

Table 31.--Well location and water-level data for selected artesian wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico

[*, well location and change data are plotted on the corresponding map. Geologic unit, primary producing zone for the well: ARTS, Artesia Group; GRBG, Grayburg Formation of Artesia Group; SADR, San Andres Limestone; SNRS, Santa Rosa Sandstone; YESO, Yeso Formation. Use of water: C, commercial; H, domestic; I, irrigation; P, public supply; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
04S.22E.07.41142	ARTS	-77.18	1-04-89	--	-69.14	1966	-77.18	1989	S	1966,1989
*04S.25E.07.442211	ARTS	-50.09	1-10-89	-2.39	-33.89	1966	-50.09	1989	S	1966,1984,1989
*04S.25E.15.131314	ARTS	-50.21	1-10-89	-1.41	-43.54	1966	-50.21	1989	S	1966,1984,1989
04S.25E.17.33240	ARTS	-49.47	1-10-89	-1.01	-43.33	1966	-49.47	1989	S	1966,1984,1989
04S.25E.18.441343	ARTS	-103.93	1-10-89	-0.68	-69.36	1976	-103.93	1989	S	1976,1979,1984,1989
*06S.24E.06.32313	SADR	-450.10	2-28-89	+41.36	-449.98	1988	-491.46	1984	S	1963,1969,1971,1974-75,1979,1984, 1988-89
*08S.24E.20.313431	SADR	-120.90	2-23-89	+15.25	-119.11	1963	-136.78	1979	U	1963-67,1979,1984,1989
*09S.24E.05.31122	SADR	-118.09	1-11-89	+15.16	-87.25	1950	-139.13	1963	I	1948-75,1979,1984,1989
09S.24E.09.142243A	ARTS	-97.38	1-10-89	+13.09	-97.38	1989	-110.47	1984	I	1984,1989
*09S.24E.15.24141	SADR	-53.61	1-11-89	+15.55	-53.61	1989	-69.16	1984	I	1967-72,1975,1979,1984,1989
09S.24E.15.41313	SADR	-52.72	1-05-89	+13.12	-47.38	1961	-65.84	1984	I	1961,1963-65,1984,1989
*09S.24E.20.32422	SADR	-91.06	1-10-89	+15.45	-63.05	1949	-110.64	1974	I	1948-50,1952-54,1967-75,1977-79, 1984,1989
09S.24E.33.21443	SADR	-45.20	3-29-89	+10.01	-45.20	1989	-58.97	1974	I	1965-70,1974-75,1979,1984,1989
*09S.25E.07.44442	SADR	-158.17	1-05-89	-1.92	-137.90	1961	-161.55	1964	S	1961-64,1967,1984,1989
*09S.25E.10.44221	ARTS	-12.79	1-10-89	-0.07	-12.72	1984	-14.52	1963	U	1961-63,1984,1989
09S.25E.12.421443	ARTS	-48.91	1-04-89	-2.05	-46.86	1984	-49.11	1963	S	1962-63,1984,1989
09S.25E.21.24400	ARTS	0.11	1-04-89	+1.25	4.50	1961	-2.63	1979	U	1961-64,1979,1984,1989
*09S.26E.09.31234	ARTS	-32.10	1-04-89	+0.70	-32.10	1989	-32.80	1984	S	1984,1989
*10S.23E.15.434431	SADR	-158.18	1-04-89	+13.82	-135.50	1954	-185.20	1966	I	1954-70,1984,1989
*10S.24E.08.11111	SADR	-56.18	1-03-89	+40.24	-38.26	1948	-98.55	1979	S	1938-41,1943-64,1979,1984,1989
10S.24E.08.333322A	ARTS	-72.85	1-01-89	+15.22	-63.09	1958	-93.84	1965	I	1957-66,1979,1984,1989
10S.24E.16.141311	SADR	-53.61	1-05-89	+5.65	-53.61	1989	-78.07	1974	I	1969-74,1979,1984,1989
*10S.24E.19.343424	SADR	-86.63	1-05-89	+11.54	-66.20	1958	-101.42	1963	H	1956-58,1960-66,1984,1989
10S.24E.20.133424	ARTS	-81.08	1-05-89	+10.71	-81.08	1989	-91.79	1984	I	1984,1989
*10S.24E.21.212222	SADR	-38.66	1-12-89	+16.96	-33.02	1958	-68.36	1982	U	1940-89
10S.24E.22.423433	SADR	-31.49	1-10-89	+9.71	22.95	1909	-57.70	1980	I	1907-12,1980,1984,1989
10S.24E.27.21212A	SADR	-32.79	1-11-89	+14.04	-32.79	1989	-63.18	1980	H	1980,1984,1989
10S.24E.27.232134	SADR	-28.87	1-11-89	+14.74	11.11	1909	-43.61	1984	I	1909-11,1984,1989
*10S.24E.27.334111	SADR	-25.24	1-11-89	+4.28	24.10	1915	-29.52	1984	I	1910-15,1984,1989
10S.24E.27.414313	SADR	-27.83	1-11-89	+13.67	19.48	1915	-41.50	1984	I	1910-12,1915,1984,1989
10S.24E.27.421131	SADR	-34.03	1-11-89	+8.60	12.55	1908	-42.63	1984	I	1908-12,1984,1989
10S.24E.27.441433	SADR	-23.44	1-11-89	+17.92	13.71	1909	-41.36	1984	I	1909-14,1984,1989
10S.24E.28.223313	SADR	-40.66	1-11-89	+15.01	-29.20	1961	-65.14	1963	I	1960-64,1966,1984,1989
10S.24E.33.131421	SADR	-29.79	1-10-89	+5.04	-29.79	1989	-34.83	1984	C	1984,1989
10S.24E.35.413334	SADR	-17.29	1-10-89	+8.55	-17.29	1989	-25.84	1984	I	1984,1989
*10S.25E.01.214221	ARTS	-21.04	1-17-89	+5.00	-21.04	1989	-26.04	1984	I	1962,1979-80,1984,1989
10S.25E.01.243331	ARTS	-35.56	1-17-89	+1.01	-35.56	1989	-36.57	1984	S	1980,1984,1989
*10S.25E.06.142232	ARTS	-6.16	1-05-89	+10.90	38.00	1915	-18.84	1979	U	1912-15,1957-58,1979,1984,1989

Table 31.--Well location and water-level data for selected artesian wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*10S.25E.22.32412	SADR	27.28	1-30-89	-14.30	53.27	1962	21.04	1963	U	1962-66,1974-75,1984-85,1989
*10S.25E.32.332333	SADR	-4.68	1-12-89	+1.59	-3.94	1958	-6.27	1984	U	1957-60,1979,1984,1989
10S.25E.33.33113A	SADR	-8.26	1-12-89	+0.14	-1.77	1961	-8.40	1984	U	1957-75,1979,1984,1989
10S.26E.07.23314	ARTS	-41.76	1-17-89	+0.95	-41.76	1989	-42.71	1984	S	1980,1984,1989
*10S.26E.09.333141	ARTS	-51.87	1-17-89	+5.11	-51.87	1989	-56.98	1984	S	1984,1989
10S.26E.10.41231	ARTS	-78.79	1-17-89	+1.25	-78.79	1989	-80.20	1980	S	1980,1984,1989
*11S.22E.01.312323	SADR	-301.67	1-05-89	+3.37	-253.75	1945	-309.20	1974	S	1944-50,1953-56,1970-71,1974-75, 1979,1984,1989
*11S.22E.04.33124	SADR	-397.62	1-05-89	+17.08	-397.62	1989	-425.15	1974	U	1966-79,1984,1989
*11S.23E.01.433433	SADR	-88.69	1-04-89	+15.31	-32.40	1953	-114.90	1965	I	1947-66,1979,1984,1989
11S.23E.03.342223	SADR	-178.45	1-27-89	--	-124.95	1957	-198.96	1985	U	1952-66,1968-75,1977-79,1985-89
11S.23E.15.22223	SADR	-129.50	1-04-89	+14.87	-101.29	1950	-148.00	1974	I	1950-62,1964-66,1968-70,1974-75, 1979,1984,1989
*11S.23E.22.33444	SADR	-183.85	1-11-89	+15.68	-164.36	1953	-204.30	1963	I	1952-66,1968-75,1979,1984,1989
11S.23E.22.44444	SADR	-161.01	1-04-89	+15.29	-144.58	1954	-176.30	1984	I	1954-56,1984,1989
*11S.24E.01.31333	SADR	-9.54	1-10-89	+12.73	29.88	1912	-22.27	1984	I	1911-12,1925-27,1984,1989
11S.24E.02.434444	SADR	-12.92	1-06-89	+14.68	11.40	1926	-27.60	1984	I	1925-26,1984,1989
11S.24E.03.13333	SADR	-40.87	1-06-89	+15.14	-14.35	1950	-58.95	1974	I	1949-52,1954-58,1960-61,1968-70, 1974-75,1979,1984,1989
11S.24E.03.441111	SADR	-31.98	1-06-89	+14.43	-1.00	1914	-56.62	1963	I	1911,1914,1941,1956-58,1960-66, 1984,1989
11S.24E.04.112132	SADR	-19.44	1-10-89	+31.06	-19.44	1989	-50.50	1984	U	1984,1989
11S.24E.06.33111	SADR	-76.61	1-06-89	+14.99	-76.61	1989	-94.44	1974	I	1967-75,1979,1984,1989
11S.24E.11.11113	ARTS	-26.30	1-10-89	+15.29	17.17	1905	-41.59	1984	H	1905-12,1984,1989
11S.24E.14.32131	ARTS	-48.84	1-10-89	+14.23	-43.60	1959	-64.35	1984	I	1957,1959-62,1979,1984,1989
*11S.24E.14.43330	SADR	-36.50	1-10-89	+13.16	-1.00	1913	-49.66	1984	H	1911-13,1984,1989
11S.24E.15.343443	ARTS	-65.37	1-11-89	+14.31	-65.37	1989	-89.01	1979	I	1979,1984,1989
*11S.24E.19.333434	SADR	-126.57	1-06-89	+15.23	-99.00	1950	-147.97	1963	I	1950-61,1963-66,1979,1984,1989
11S.24E.19.411112	ARTS	-110.24	1-06-89	+15.21	-95.18	1954	-125.45	1984	I	1954,1956-66,1984,1989
11S.24E.23.32113	SADR	-43.77	1-11-89	+14.65	-20.75	1949	-74.95	1963	I	1949-61,1963-64,1984,1989
11S.24E.23.443434	SADR	-37.28	1-11-89	+14.75	-6.00	1942	-69.46	1963	I	1942,1944,1956-58,1960-66,1984,1989
11S.24E.26.313311	ARTS	-59.86	1-11-89	+14.50	-59.86	1989	-81.08	1979	I	1979,1984,1989
*11S.24E.26.433323	SADR	-55.57	1-11-89	+14.38	-52.50	1961	-85.60	1963	I	1960-67,1984,1989
11S.24E.27.134433	ARTS	-74.74	1-11-89	+14.12	-74.74	1989	-94.68	1979	I	1979,1984,1989
11S.24E.27.43111	ARTS	-67.28	1-11-89	+14.98	-67.28	1989	-88.47	1979	I	1979,1984,1989
11S.25E.18.331344	SADR	-8.68	1-11-89	+14.25	-8.68	1989	-26.24	1968	I	1967-75,1978-79,1984,1989
*11S.25E.32.33312	SADR	-19.23	1-17-89	+14.42	-9.60	1958	-34.32	1965	I	1958,1962-67,1984,1989
11S.26E.11.311311	ARTS	-57.70	1-18-89	--	-51.64	1984	-57.70	1989	S	1979,1984,1989
*11S.26E.33.42000	ARTS	28.62	3-01-89	+13.72	28.62	1989	14.90	1984	U	1984,1989
*11S.27E.04.444334	SNRS	-13.33	1-18-89	-0.57	-10.88	1978	-13.33	1989	S	1978-79,1984,1989

Table 31.--Well location and water-level data for selected artesian wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
11S.27E.10.111114	SNRS	-14.95	1-18-89	-0.79	-11.62	1979	-14.95	1989	S	1978-79,1984,1989
*11S.27E.13.123322	SNRS	-104.20	1-18-89	-1.36	-102.66	1980	-104.20	1989	H	1980,1984,1989
11S.27E.15.31131	SNRS	-49.60	1-19-89	-0.75	-39.82	1979	-49.60	1989	U	1978-79,1984,1989
11S.27E.15.44333	SNRS	-93.37	1-19-89	-0.82	-85.56	1979	-93.37	1989	U	1978-79,1984,1989
11S.27E.16.31113	ARTS	-62.21	1-19-89	-0.30	-57.64	1978	-62.21	1989	U	1978-79,1984,1989
*11S.27E.19.24132A	ARTS	-23.73	1-19-89	-0.25	-16.57	1978	-23.73	1989	S	1971,1978-79,1984,1989
11S.27E.20.331124	ARTS	-27.60	1-19-89	--	-22.75	1969	-27.60	1989	S	1969,1978-79,1984,1989
11S.27E.32.241321	ARTS	-25.22	1-19-89	--	-17.59	1978	-25.22	1989	S	1978-79,1984,1989
*12S.22E.12.14444	SADR	-290.54	3-01-89	+50.46	-290.54	1989	-355.51	1967	S	1947,1961-65,1967-71,1974,1984,1989
12S.22E.23.422243	SADR	-337.96	1-30-89	--	-337.96	1989	-398.30	1963	S	1961-64,1967-71,1974,1989
*12S.23E.01.324414	SADR	-171.08	1-10-89	+15.98	-171.08	1989	-189.69	1974	I	1967-75,1979,1984,1989
12S.23E.10.33132	SADR	-234.67	1-10-89	--	-234.67	1989	-248.36	1970	S	1968,1970,1989
*12S.23E.20.23114	SADR	-286.84	1-10-89	+8.42	-286.84	1989	-299.58	1974	U	1968,1970-71,1974-75,1979,1984,1989
*12S.23E.24.23130	SADR	-173.03	1-17-89	+17.05	-173.03	1989	-194.28	1974	I	1967-79,1984,1989
12S.23E.35.31344	SADR	-208.38	1-10-89	--	-208.38	1989	-233.24	1975	S	1968,1970,1975,1984,1989
*12S.24E.10.44444	SADR	-107.95	1-26-89	+16.15	-95.05	1954	-128.50	1961	H	1954-62,1979,1984,1989
12S.24E.12.33341	ARTS	-96.41	1-26-89	+16.26	-96.41	1989	-128.13	1965	S	1963-66,1979,1984,1989
12S.24E.22.44220	SADR	-127.68	1-20-89	+15.78	-127.68	1989	-146.82	1974	I	1967-75,1979,1984,1989
12S.25E.03.211112	SADR	-16.60	1-23-89	+14.87	14.86	1913	-32.95	1979	I	1911-13,1950,1967-70,1975,1979, 1984,1989
12S.25E.05.11111	SADR	-54.07	1-13-89	+14.75	-54.07	1989	-76.10	1969	I	1967,1969-70,1974-75,1979,1984,1989
*12S.25E.12.413313	ARTS	-26.92	1-23-89	+8.17	-26.92	1989	-35.09	1984	I	1975,1979,1984,1989
*12S.25E.15.111113	SADR	-24.78	1-13-89	+15.74	-22.43	1961	-108.19	1963	I	1960-66,1970,1974-75,1979,1984,1989
12S.25E.23.344412	SADR	-13.18	1-20-89	+16.40	-12.53	1988	-145.76	1983	U	1964-89
12S.26E.08.24124	ARTS	-1.66	1-25-89	--	-1.46	1979	-4.86	1978	U	1978-80,1984,1989
12S.26E.10.13434	ARTS	-62.93	1-25-89	+0.92	-62.29	1979	-63.85	1984	H	1979,1984,1989
*12S.26E.15.132332	ARTS	-61.04	1-25-89	+7.90	-54.17	1978	-86.33	1979	S	1978-79,1984,1989
12S.26E.19.331141	ARTS	-59.19	1-05-89	+5.04	-59.19	1989	-64.23	1984	I	1979,1984,1989
12S.26E.30.122423	ARTS	-40.58	1-05-89	-3.90	-25.68	1961	-50.60	1958	I	1958-66,1970,1974-75,1979,1984,1989
*13S.24E.31.12221	SADR	-214.40	1-18-89	+18.50	-214.40	1989	-238.40	1974	S	1968,1970,1974-75,1984,1989
*13S.25E.02.221131	ARTS	-77.40	1-12-89	+7.10	-49.87	1955	-87.13	1979	I	1955,1979,1984,1989
13S.25E.03.211121	SADR	-13.96	1-12-89	+19.64	-13.96	1989	-124.88	1963	I	1962-66,1984,1989
*13S.25E.13.113324	ARTS	-92.45	1-11-89	+4.85	-92.45	1989	-97.30	1984	I	1979,1984,1989
*13S.25E.15.31111A	SADR	-25.07	1-12-89	+1.08	30.03	1905	-48.60	1974	I	1905-06,19 8-15,1925-27,1931-32, 1946-47,1949-51,1956-58,1960-67,1969
13S.25E.15.411133	SADR	-15.03	1-12-89	+19.53	-15.03	1989	-34.56	1984	I	1979,1984,1989
*13S.25E.25.311142	SADR	22.10	1-13-89	+20.48	24.40	1961	-54.59	1963	I	1956-58,1960-61,1963,1984,1989
*13S.25E.27.211144	SADR	-4.76	1-00-89	+16.76	11.54	1942	-163.91	1984	U	1940-89
*13S.25E.28.42114	SADR	-9.67	1-13-89	+21.70	-9.67	1989	-54.06	1963	I	1961-72,1974-75,1979,1984,1989
*13S.26E.10.31133	ARTS	-9.12	1-23-89	+0.58	18.33	1909	-9.70	1984	H	1907-10,1913,1984,1989

Table 31.--Well location and water-level data for selected artesian wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
13S.26E.14.33433	ARTS	-19.47	2-03-89	-2.95	-3.55	1942	-34.50	1964	I	1938-66,1979,1984,1989
13S.26E.15.241133	SADR	-3.76	2-03-89	+2.49	139.60	1905	-6.25	1984	H	1905-09,1934,1937,1984,1989
13S.26E.16.13113	SADR	49.20	2-16-89	-5.08	74.60	1961	23.79	1973	I	1956-58,1960-63,1966,1968-69, 1973-75,1979,1984,1989
13S.26E.30.21333	SADR	42.46	1-30-89	+16.86	42.46	1989	-36.81	1979	I	1979,1984,1989
13S.26E.31.13312	SADR	18.07	1-30-89	+18.93	25.60	1961	-0.86	1984	I	1958,1960-63,1984,1989
13S.26E.31.443333	SADR	33.34	1-30-89	+34.12	33.34	1989	-0.78	1984	I	1984,1989
*13S.26E.32.32211	SADR	46.54	1-30-89	+56.11	46.54	1989	-9.57	1984	I	1962-63,1970,1974-75,1984,1989
*14S.23E.08.144344	SADR	-290.55	1-19-89	+23.61	-257.55	1943	-323.10	1972	S	1940-89
*14S.23E.24.211342	SADR	-180.62	1-06-89	+21.02	-160.38	1951	-201.64	1984	I	1951-62,1984,1989
14S.23E.24.413133	SADR	-177.56	1-06-89	+23.38	-177.56	1989	-208.01	1972	I	1968-75,1977-79,1984,1989
*14S.25E.14.113442	SADR	-31.90	1-13-89	+20.08	-31.90	1989	-79.82	1963	I	1963-75,1979,1984,1989
*14S.26E.20.411132	SADR	-60.04	1-24-89	+29.44	-59.88	1970	-185.93	1966	I	1963-67,1969-71,1974-75,1979, 1984,1989
14S.26E.30.44444	SADR	-70.05	1-24-89	+15.98	-65.19	1988	-261.75	1988	U	1970-75,1977-79,1981-89
15S.22E.01.12112	SADR	-408.30	1-18-89	--	-408.30	1989	-435.80	1968	S	1968,1989
*15S.22E.04.344443	SADR	-451.37	1-18-89	+27.77	-451.37	1989	-488.74	1972	S	1968,1970-72,1974-75,1979,1984,1989
*15S.23E.06.22222	SADR	-401.42	1-18-89	+18.41	-401.42	1989	-424.35	1974	S	1968-76,1984,1989
*15S.23E.21.22134	SADR	-209.22	2-24-89	+25.43	-209.22	1989	-234.65	1984	I	1984,1989
*15S.24E.25.433331	SADR	20.06	1-05-89	+20.74	56.75	1989	-76.36	1984	U	1967-89
*15S.24E.34.133131	SADR	-24.32	1-26-89	+22.56	-24.32	1989	-79.85	1963	I	1956,1958,1960-63,1966-67,1984,1989
15S.24E.35.133343	SADR	-9.21	1-26-89	+23.53	1.50	1950	-44.76	1965	I	1949-50,1952,1954-56,1958,1960-61, 1963-66,1984,1989
*15S.25E.23.12212	SADR	50.20	2-14-89	+8.09	50.20	1989	-58.96	1963	I	1963-66,1984,1989
15S.25E.26.423332	ARTS	-16.21	1-26-89	+11.13	-3.59	1942	-38.37	1963	H	1942-54,1957-59,1961-64,1966,1979, 1984,1989
15S.25E.27.21134	ARTS	-31.59	1-26-89	+0.69	17.17	1907	-32.28	1984	H	1906-12,1984,1989
*15S.25E.28.33113	ARTS	-42.22	1-27-89	+2.37	-25.40	1959	-44.59	1984	I	1938-39,1942,1944-66,1979,1984,1989
15S.25E.28.33131	ARTS	-65.57	1-27-89	--	-26.48	1945	-65.57	1989	I	1944-52,1956-60,1979,1984,1989
15S.25E.31.313134	ARTS	-55.53	1-26-89	+17.45	-45.62	1948	-72.98	1984	I	1948-55,1958-64,1966,1979,1984,1989
*15S.25E.35.213142	SADR	-46.55	1-26-89	+25.14	10.60	1947	-99.28	1964	H	1946-48,1955,1957-58,1960-66, 1968-75,1977-79,1984,1989
*15S.26E.04.123221	SADR	-37.22	1-25-89	+15.27	-36.75	1970	-56.22	1974	I	1967-75,1979,1984,1989
15S.26E.09.311111	SADR	-11.14	1-24-89	+17.09	-2.84	1962	-143.29	1963	I	1962-66,1984,1989
15S.26E.10.121121	ARTS	-48.14	1-23-89	+10.70	-48.14	1989	-66.59	1971	I	1967-75,1979,1984,1989
*15S.26E.30.41123	ARTS	-31.83	1-25-89	+7.56	-13.35	1943	-59.69	1966	I	1943-55,1957-66,1968-75,1979, 1984,1989
15S.26E.32.12131	ARTS	-13.00	1-25-89	+2.50	-7.66	1955	-15.50	1984	I	1955,1979,1984,1989
15S.26E.32.34442	ARTS	-14.61	1-25-89	+3.54	-7.10	1959	-18.15	1984	I	1955-59,1962-66,1979,1984,1989
*15S.27E.06.133332	ARTS	-15.71	2-08-89	+0.27	-13.61	1974	-18.73	1969	U	1967-84,1989

Table 31.--Well location and water-level data for selected artesian wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*16S.23E.15.323333	YESO	-231.46	1-25-89	+32.87	-211.87	1945	-277.16	1977	S	1940-65,1970,1974-77,1979,1981-89
16S.23E.20.23334	SADR	-386.64	1-19-89	+16.16	-386.64	1989	-413.67	1974	S	1900,1968,1974-75,1984,1989
16S.23E.26.233111A	SADR	-209.27	1-19-89	--	-209.27	1989	-245.70	1972	S	1963-64,1966-75,1979,1984,1989
*16S.24E.04.231	SADR	-59.17	1-23-89	+25.23	-59.17	1989	-99.23	1972	I	1967,1969-75,1977-89
*16S.24E.21.222344A	ARTS	-83.89	1-19-89	+13.11	-83.89	1989	-97.00	1984	S	1984,1989
*16S.26E.05.33333	GRBG	-46.60	1-25-89	+4.45	95.71	1907	-51.05	1984	U	1906-09,1984,1989
*16S.26E.11.333232	SADR	11.79	1-26-89	+24.37	11.79	1989	-23.25	1978	I	1967-75,1977-79,1984,1989
16S.26E.18.331112	ARTS	-101.07	1-24-89	+8.39	-101.07	1989	-109.46	1984	I	1984,1989
*16S.26E.20.433311	GRBG	-23.07	1-27-89	+27.33	-9.03	1956	-156.02	1963	I	1956,1958,1960-70,1972-75,1979, 1984,1989
16S.26E.21.34341	SADR	-27.49	1-26-89	+26.83	61.06	1917	-54.32	1984	I	1911-13,1916-18,1925-26,1931-32, 1984,1989
*16S.26E.23.442422	SADR	5.73	1-31-89	+32.94	29.91	1956	-120.25	1963	I	1956,1958,1961-70,1974-75,1979, 1984,1989
16S.26E.27.143434	GRBG	-14.85	1-26-89	+22.65	2.50	1960	-58.28	1965	I	1960,1963,1965-66,1984,1989
16S.26E.28.433113A	ARTS	-42.13	1-26-89	+9.12	-11.85	1950	-57.43	1960	I	1950-66,1979,1984,1989
16S.26E.30.222112	SADR	-46.31	1-24-89	--	43.60	1909	-173.00	1963	H	1909,1939-52,1954-56,1958,1961-65, 1986,1989
16S.26E.32.11310	GRBG	-64.20	1-24-89	--	72.61	1906	-64.20	1989	U	1905-09,1989
*17S.23E.27.11443	SADR	-401.87	2-21-89	+20.51	-325.60	1961	-435.70	1968	U	1961,1964,1968-69,1984,1989
*17S.23E.30.12344	SADR	-519.00	2-17-89	+19.51	-514.85	1988	-553.18	1974	P	1968,1970-79,1981-89
*17S.24E.16.433332	ARTS	-247.86	1-25-89	+3.32	-246.30	1959	-281.51	1963	S	1955-59,1961-65,1984,1989
17S.24E.23.33423	ARTS	-70.31	1-25-89	-0.67	-60.27	1979	-70.31	1989	S	1979,1984,1989
*17S.25E.18.444423	ARTS	-201.47	1-25-89	-2.47	-176.71	1957	-201.47	1989	S	1957,1979,1984,1989
17S.26E.05.11111	GRBG	-113.90	1-23-89	--	56.44	1906	-149.95	1963	I	1906-08,1910-14,1925,1956,1958, 1962-70,1975,1985,1989
*17S.26E.05.111141	SADR	-55.40	1-24-89	+26.40	-55.40	1989	-149.92	1963	I	1963-66,1968-70,1975,1984,1989
17S.26E.09.113331	GRBG	-24.55	1-24-89	+33.63	72.61	1913	-152.42	1963	I	1912-19,1925-26,1931,1956,1958, 1960-66,1984,1989
*17S.26E.09.344411	SADR	-32.14	1-24-89	+26.21	42.16	1944	-159.62	1963	I	1943-48,1950,1952,1956-58,1960-61, 1963-64,1966,1984,1989
17S.26E.10.43331	GRBG	-14.59	1-24-89	+23.82	-14.59	1989	-38.41	1984	I	1979,1984,1989
17S.26E.14.211231	GRBG	16.44	2-23-89	--	20.60	1956	-117.99	1963	I	1956,1958,1960-66,1968-75,1979,1989
17S.26E.16.311113	GRBG	-38.60	1-24-89	+28.00	-38.60	1989	-98.20	1977	I	1967-73,1975,1977,1979,1984,1989
17S.26E.22.23332	GRBG	-14.86	1-24-89	+21.81	-14.86	1989	-36.67	1984	I	1980,1984,1989
*17S.26E.29.13113	SADR	-114.18	1-26-89	+15.79	-26.04	1942	-129.97	1984	I	1938-75,1979,1984,1989
17S.26E.29.21333	SADR	-58.96	1-26-89	+25.76	51.82	1909	-84.72	1984	I	1909,1912-14,1926,1984,1989
17S.26E.32.11223	SADR	-71.44	1-26-89	-8.84	-62.60	1984	-72.41	1989	H	1979,1984,1989
17S.26E.32.13113	SADR	-77.13	2-23-89	+29.57	1.90	1943	-120.50	1965	I	1936-40,1943-45,1956-59,1961-63, 1965,1984,1989

Table 31.--Well location and water-level data for selected artesian wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
17S.26E.33.111111	SADR	-61.98	1-26-89	+17.12	58.75	1912	-79.10	1984	I	1910,1912,1939,1944-45,1957-58, 1961-63,1984,1989
17S.26E.33.223311	SADR	-33.40	1-26-89	--	-7.23	1956	-173.17	1963	I	1956-58,1960-70,1972-75,1979, 1985,1989
*17S.26E.35.13324	SADR	-15.74	1-26-89	+4.66	-12.47	1975	-20.40	1984	I	1975,1979,1984,1989
*17S.27E.16.34314	SADR	-149.80	1-26-89	+28.93	-149.80	1989	-219.38	1963	H	1962-64,1966,1979,1983-84,1989
17S.27E.32.32000	SADR	-78.97	1-31-89	--	-77.33	1983	-92.68	1964	C	1960,1962-64,1979,1983,1989
*17S.27E.32.323234	SADR	-86.07	1-31-89	+0.21	-76.64	1970	-96.79	1962	C	1959-60,1962-63,1966,1970-73,1979, 1983-84,1989
*18S.24E.22.23344	SADR	-364.34	2-01-89	+23.36	-354.82	1963	-387.70	1984	S	1963,1965,1984,1989
18S.24E.23.42141	SADR	-316.08	2-01-89	+7.57	-316.08	1989	-323.65	1984	S	1984,1989
*18S.25E.11.32233	SADR	-165.22	1-26-89	+5.52	-132.10	1955	-170.74	1984	S	1955-57,1959-65,1984,1989
*18S.25E.18.114131	SADR	-292.78	2-01-89	+27.52	-292.78	1989	-320.30	1984	S	1984,1989
18S.25E.22.111314	SADR	-134.48	1-26-89	+8.12	-134.48	1989	-184.36	1955	S	1955,1984,1989
18S.25E.36.313223	SADR	-169.51	1-31-89	--	-169.51	1989	-234.39	1959	I	1959-63,1984,1989
18S.26E.02.111113	SADR	12.50	1-24-89	+27.02	16.00	1961	-97.13	1963	I	1961,1963,1965,1984,1989
18S.26E.02.33333	SADR	-35.76	1-24-89	+7.93	-10.75	1946	-43.69	1984	I	1938-40,1942-54,1956-58,1960-64, 1966-70,1973-75,1979,1984,1989
18S.26E.03.43133	SADR	-40.48	1-24-89	+8.57	-40.48	1989	-49.05	1984	I	1979,1984,1989
18S.26E.04.12112	GRBG	-39.68	1-24-89	+23.12	134.98	1905	-62.80	1984	I	1905-09,1984,1989
18S.26E.04.22224	GRBG	-16.77	1-24-89	+22.76	37.80	1947	-56.70	1965	I	1947-49,1956,1958,1961-63,1965-66, 1984,1989
*18S.26E.05.213332	GRBG	-93.20	1-26-89	+5.07	-93.20	1989	-98.27	1984	S	1984,1989
18S.26E.06.442221A	SADR	-67.18	1-26-89	+28.01	-63.80	1989	-179.99	1963	U	1961-89
18S.26E.07.43111	GRBG	-104.45	1-26-89	+2.64	-104.45	1989	-107.09	1984	S	1984,1989
18S.26E.10.31333	GRBG	-19.01	1-24-89	--	130.36	1906	-19.01	1989	I	1906- 8,1989
*18S.26E.11.233313	GRBG	6.21	1-24-89	+17.70	13.80	1960	-103.87	1963	I	1960,1962-64,1966,1984,1989
18S.26E.14.232322	GRBG	17.71	1-25-89	--	17.71	1989	-21.79	1967	I	1967-69,1973-75,1979,1989
18S.26E.16.422414	GRBG	-21.58	1-25-89	+24.81	0.40	1961	-58.83	1964	I	1956-58,1961,1963-64,1969-75,1979, 1984,1989
18S.26E.21.2233113	SADR	-24.69	1-25-89	+24.90	-8.80	1958	-139.67	1963	I	1956,1958,1960-63,1966,1984,1989
*18S.26E.27.433333	GRBG	-39.13	1-25-89	+16.26	104.95	1907	-150.58	1963	I	1907-14,1916,1926-27,1956-58, 1960-66,1984,1989
18S.26E.34.313244	GRBG	-37.46	1-26-89	+23.12	-23.46	1956	-106.00	1963	I	1956-58,1960-61,1963-65,1968-75, 1979,1984,1989
18S.27E.08.24422	ARTS	-154.94	2-10-89	+11.56	-73.42	1962	-181.50	1963	U	1962-64,1966,1984,1989
*18S.27E.10.213223	ARTS	-19.41	2-02-89	+2.75	-19.41	1989	-48.75	1963	U	1961-64,1966,1984,1989
*18S.27E.28.13323	ARTS	-94.84	2-02-89	-4.25	-89.91	1979	-94.84	1989	U	1960,1962-64,1966,1979,1984,1989
18S.28E.17.111211	ARTS	-86.75	2-02-89	--	-85.59	1983	-86.75	1989	S	1983,1989
18S.28E.30.111123	ARTS	-93.25	2-22-89	--	-92.65	1983	-93.25	1989	H	1948,1983,1989

For each monitoring area this report includes a map showing the change in water level from the previous 5-year measurement and two or more hydrographs for selected wells. Hydrograph data are presented for each monitoring area through the last year of measurement. The hydrograph data include all data and water levels that may be affected by recent pumpage in the measured well or by nearby pumping wells. Differences may result between the high and low water levels presented in tables for each monitoring area and data presented in the hydrographs because all water-level data, including measurements influenced by pumping effects, are used to construct hydrographs but these data are not used in the selection of high and low extremes. Only actual water-level measurements made during the non-pumping season are used in determining the high and low values. Bar graphs also may be included that show annual precipitation at climatological stations that are within or adjacent to monitoring areas. Descriptions of water-level changes do not include references to accompanying figures and tables. Any reference to a figure or table is for the monitoring area being discussed.

Water-level data for the San Agustin Plains and San Juan Basin monitoring areas were not collected in one of the designated years required to compute the 5-year change. Maps of these areas show the most recent measured water level instead of 5-year water-level change.

The Roswell Basin and Carlsbad monitoring areas have two distinct aquifer systems within identical monitoring area boundaries. In the Roswell Basin monitoring area water-level changes in wells in the shallow aquifer system are reported separately from water-level changes in wells in the artesian aquifer system. Traditionally the two distinct aquifer systems in the Carlsbad area have been identified by different names. In the Carlsbad monitoring area water levels in wells completed in the alluvial aquifer system (Carlsbad monitoring area) are reported separately from water levels in wells completed in sediments other than alluvium (Capitan Reef monitoring area).

There may be multiple aquifer systems in other monitoring areas. For each area the geologic unit in which the well is finished is presented in the appropriate table. Wells finished in different geologic units in the same monitoring area may or may not be in different aquifer systems. Determination of aquifer systems is beyond the scope of the program or of this report.

Table 31.--Well location and water-level data for selected artesian wells in the Roswell Basin monitoring area, Chaves, DeBaca, and Eddy Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*19S.24E.10.211412	ARTS	-330.73	2-01-89	+31.10	-312.72	1955	-411.34	1963	S	1955,1957-65,1969,1984,1989
*19S.24E.28.322412	SADR	-336.60	2-02-89	+2.66	-336.60	1989	-339.26	1984	S	1974,1984,1989
*19S.24E.35.442324	SADR	-261.00	2-02-89	-1.90	-241.59	1963	-261.00	1989	U	1963-64,1984,1989
*19S.26E.05.323431	GRBG	-40.92	1-25-89	+23.52	-39.60	1961	-130.20	1963	I	1961-66,1968-75,1979,1984,1989
19S.26E.10.112212	GRBG	-21.56	2-22-89	+25.46	-17.35	1961	-132.37	1963	I	1958,1960-64,1967-70,1973-75, 1977-79,1984,1989
*19S.26E.27.221141	GRBG	-1.22	1-26-89	+28.68	-1.22	1989	-34.52	1974	I	1967-69,1972-76,1979,1984,1989
19S.26E.28.341132	ARTS	-68.03	1-26-89	+27.54	-68.03	1989	-95.57	1984	I	1955-56,1958,1968-70,1973-75,1979, 1984,1989
19S.26E.33.41224	ARTS	-38.78	1-26-89	+30.32	-38.78	1989	-92.94	1986	I	1938-66,1968-75,1977,1979,1982-89
20S.24E.03.132443	ARTS	-221.10	2-10-89	+6.24	-221.10	1989	-271.05	1979	I	1979,1984,1989
20S.24E.03.14322	ARTS	-280.81	2-10-89	+1.05	-280.73	1961	-297.37	1963	S	1961,1963-66,1969,1979,1984,1989
*20S.24E.25.22233	ARTS	-262.86	2-09-89	+15.90	-262.86	1989	-278.76	1984	S	1984,1989
*20S.25E.01.233121	ARTS	-110.58	2-14-89	+4.41	-84.26	1955	-128.10	1963	I	1955,1957-60,1963-66,1984,1989
20S.25E.13.11312	GRBG	-54.73	2-02-89	+21.55	12.24	1926	-81.55	1963	I	1926-27,1957-58,1960,1962-63, 1984,1989
20S.25E.13.113313	GRBG	-55.99	2-02-89	+16.21	6.78	1931	-85.32	1978	I	1931,1964,1968-75,1978-79,1984,1989
*20S.25E.15.34222	ARTS	-131.71	2-02-89	+23.78	-111.89	1955	-167.06	1963	S	1955,1963-66,1970,1973-75,1979, 1984,1989
20S.25E.20.41114	ARTS	-194.80	2-09-89	+19.38	-194.80	1989	-214.18	1984	S	1984,1989
20S.25E.23.32121	ARTS	-147.01	2-02-89	+22.89	-133.64	1955	-186.44	1963	S	1955,1963-64,1984,1989
20S.25E.32.413144	GRBG	-100.95	2-02-89	--	-100.95	1989	-130.27	1963	S	1963-65,1989
*20S.25E.34.111342	ARTS	-67.42	2-02-89	+8.88	-67.42	1989	-76.30	1984	S	1984,1989
20S.26E.04.22111	GRBG	-35.10	2-01-89	+3.18	-35.10	1989	-62.41	1963	I	1961-66,1968-75,1977-79,1984,1989
20S.26E.07.42134	ARTS	-56.75	2-01-89	+31.33	-48.87	1951	-102.07	1963	I	1950-59,1961-64,1966-70,1972-75, 1979,1984,1989
20S.26E.08.112214	ARTS	-41.46	1-31-89	+30.56	-24.15	1942	-112.44	1982	I	1938-56,1958-67,1979,1982-86,1989
20S.26E.08.121111	ARTS	-41.92	1-27-89	+30.02	-32.64	1989	-105.34	1982	U	1956,1968-70,1972-79,1981-89
*20S.26E.17.34331	ARTS	-20.24	2-01-89	+34.94	-20.24	1989	-56.03	1957	U	1948,1957,1979,1984,1989

Rio Hondo Monitoring Area

The Rio Hondo monitoring area is in Lincoln County, southwestern New Mexico. Water-level measurements indicate rises and declines throughout the monitoring area. Rises range from less than 1 foot to more than 9 feet. Changes in two small areas are declines: one is northwest of Hondo for about 3 miles along the Rio Ruidoso and Salado Creek; the other area is along the Rio Hondo just west of Riverside. Declines throughout the area range from less than 1 foot to more than 5 feet.

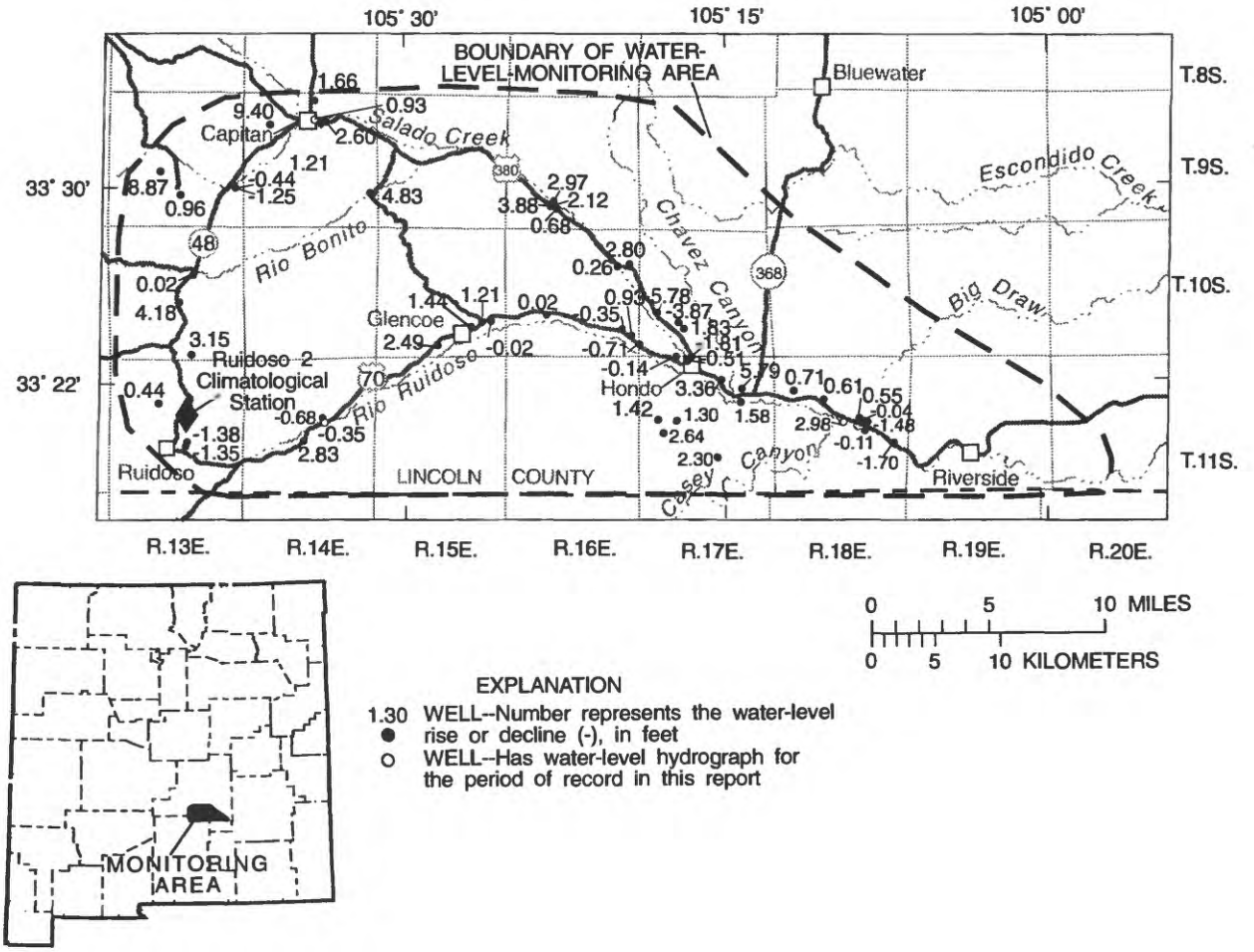


Figure 65.--Water-level changes for wells in the Rio Hondo monitoring area, 1984-89.

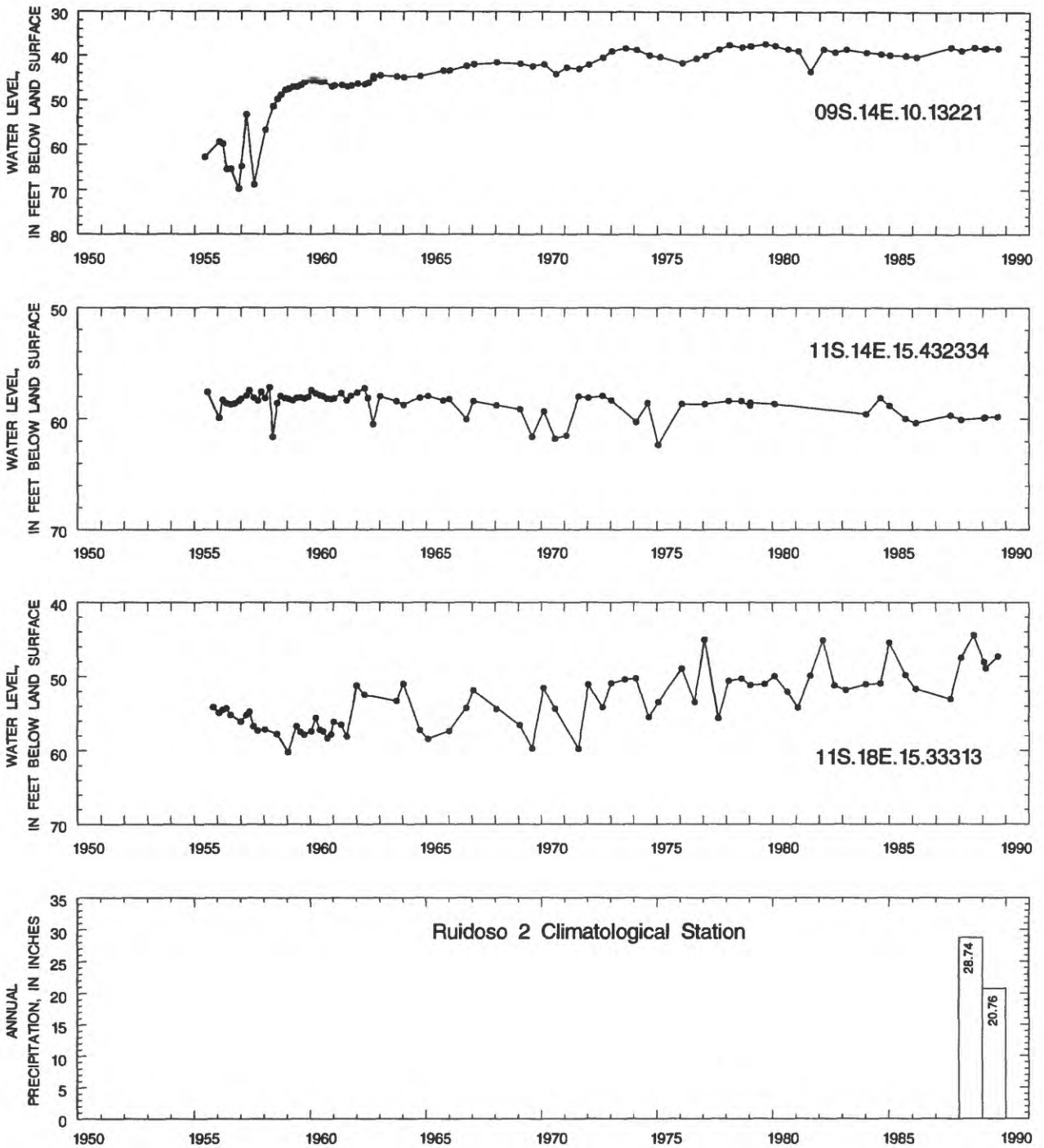


Figure 66.--Water-level data for selected wells in the Rio Hondo monitoring area and annual precipitation at the Ruidoso 2 Climatological Station. See figure 65 for location of wells and station.

Table 32.--Well location and water-level data for selected wells in the Rio Hondo monitoring area, Lincoln County, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; CHNL, Chinle Formation; IRSV, intrusive rocks; MNCS, Mancos Shale; MVRD, Mesaverde Group; SADR, San Andres Limestone; YESO, Yeso Formation. Winter water level, site status; S, nearby pumping. Use of water: H, domestic; I, irrigation; P, public supply; R, recreation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
09S.13E.21.31214	MNCS	-44.94	2-14-89	+8.87	-44.94	1989	-54.82	1979	H	1956,1979,1984,1989
09S.13E.25.23111	AVMB	-9.45	2-21-89	-1.25	-8.20	1984	-9.66	1956	U	1956,1979,1984,1989
09S.13E.25.23111A	AVMB	-9.56	2-21-89	-0.44	-9.12	1984	-9.56	1989	I	1979,1984,1989
09S.13E.27.311434	IRSV	-37.46	2-22-89	+0.96	-37.46	1989	-42.63	1956	H	1956,1979,1984,1989
09S.14E.03.13123	MNCS	-8.85	2-14-89	+1.66	-8.85	1989	-13.54	1956	S	1956,1979,1984,1989
09S.14E.08.133212	MNCS	-11.10	2-14-89	+9.40	-11.10	1989	-29.48	1979	P	1979,1984,1989
09S.14E.10.13221	MNCS	-38.32	1-20-89	+0.93	-37.34	1979	-69.77	1956	P	1955-89
09S.14E.10.14142	MNCS	-31.99	2-14-89	+1.21	-31.81	1979	-33.20	1984	U	1979,1984,1989
09S.14E.10.23122	MNCS	-17.18	2-14-89	+2.60	-17.18	1989	-19.78	1984	U	1984,1989
09S.14E.25.23342	SADR	-198.47	2-21-89	+4.83	-198.47	1989	-203.30	1984	I	1984,1989
09S.16E.28.313311	AVMB	-8.08	2-15-89	+2.97	-8.08	1989	-11.05	1984	I	1956,1979,1984,1989
09S.16E.28.33134	AVMB	-29.99	2-15-89	+2.12	-27.90	1961	-32.63	1959	I	1957-67,1979,1984,1989
09S.16E.28.33313	YESO	-33.82	2-15-89	+3.88	-33.82	1989	-37.97	1979	P	1955,1979,1984,1989
09S.16E.33.112311	YESO	-30.92	2-15-89	+0.68	-30.84	1972	-31.60	1984	I	1972,1979,1984,1989
10S.13E.15.213424	MVRD	-36.97	2-21-89	+0.02	-36.54	1979	-37.71	1957	U	1955-57,1979,1984,1989
10S.13E.22.13331	MVRD	-46.40	2-21-89	+4.18	-46.40	1989	-54.90	1979	U	1979,1984,1989
10S.13E.34.43123	MVRD	-42.80	2-21-89	+3.15	-40.62	1979	-45.95	1984	P	1979,1984,1989
10S.15E.25.13412A	AVMB	-3.27	2-01-89	-0.02	-2.17	1979	-6.20	1966	I	1966,1979,1984,1989
10S.15E.26.24331	AVMB	-18.51	2-02-89	+1.21	-18.51	1989	-19.72	1984	I	1979,1984,1989
10S.15E.26.323113	AVMB	-10.47	2-01-89	+1.44	-10.17	1979	-11.91	1984	I	1955,1979,1984,1989
10S.15E.33.412242	AVMB	-78.61	2-01-89	+2.49	-78.61	1989	-81.91	1955	H	1955,1979,1984,1989
10S.16E.11.442112	YESO	-72.10	2-15-89	+0.26	-71.05	1956	-72.36	1984	S	1956,1979,1984,1989
10S.16E.12.32421	AVMB	-12.33	2-17-89	+2.80	-12.33	1989	-15.64	1957	I	1957,1979,1984,1989
10S.16E.25.313113	--	-64.00	1-10-89	--	-64.00	1989	-64.00	1989	I	1989
10S.16E.25.313423	AVMB	-58.51	2-01-89	-0.35	-58.16	1984	-58.51	1989	H	1979,1984,1989
10S.16E.25.433343	AVMB	-63.63	2-01-89	+0.93	-49.00	1955	-65.60	1979	U	1955,1979,1984,1989
10S.16E.29.21243	AVMB	-21.70	2-01-89	+0.02	-21.70	1989	-25.78	1955	I	1955,1979,1984,1989
10S.16E.36.244312	AVMB	-33.54	2-02-89	-0.71	-32.83	1984	-36.99	1955	H	1955,1979,1984,1989
10S.17E.19.433124	AVMB	-27.66	2-15-89	-5.78	-20.33	1979	-30.34	1957	U	1955-62,1979,1984,1989
10S.17E.29.233143	YESO	-121.72	2-15-89	-3.87	-117.85	1984	-140.82	1956	U	1955-62,1979,1984,1989
10S.17E.29.423312	YESO	-63.97	2-17-89	+1.83	-63.04	1955	-65.80	1984	U	1955,1979,1984,1989
10S.17E.32.34430	AVMB	-9.76	2-02-89	-0.14	-9.62	1984	-9.85	1979	U	1955,1979,1984,1989
10S.17E.33.33300	AVMB	-44.99	2-14-89	-1.81	-43.18	1984	-46.74	1979	I	1979,1984,1989
11S.13E.09.33343	CHNL	-20.93	2-21-89	+0.44	-19.58	1947	-27.59	1979	P	1947,1979,1984,1989
11S.13E.22.324313	MNCS	-26.80	2-02-89	-1.38	-22.32	1979	-48.45	1955	R	1955,1979,1984,1989
11S.13E.22.341322	MNCS	-23.50	2-02-89	--	-23.50	1989	-30.02	1955	U	1955,1979,1989
11S.13E.22.34213	MNCS	-11.02	2-02-89	-1.35	-6.52	1979	-11.02	1989	R	1955,1979,1984,1989
11S.14E.15.413132	AVMB	-26.28	2-02-89	-0.68	-23.96	1954	-26.28	1989	I	1954,1956,1979,1984,1989
11S.14E.15.432334	AVMB	-59.89	1-20-89	-0.35	-57.16	1958	-62.30	1975	P	1955-80,1984-89
11S.14E.21.414231	AVMB	-16.59	2-02-89	+2.83	-16.59	1989	-19.42	1984	H	1955,1984,1989

Table 32.--Well location and water-level data for selected wells in the Rio Hondo monitoring area, Lincoln County, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
11S.17E.05.22341	YESO	-26.65	2-02-89	-0.51	-26.14	1984	-26.65	1989	U	1979,1984,1989
11S.17E.10.12211	AVMB	-21.70	2-17-89	+3.36	-21.70	1989	-25.86	1979	U	1955,1979,1984,1989
11S.17E.11.143142	AVMB	-97.60	2-17-89	+5.79	-97.60	1989	-103.39	1984	H	1955,1979,1984,1989
11S.17E.11.312233	AVMB	-69.43	2-15-89	--	-69.43	1989	-69.43	1989	H	1989
11S.17E.14.121112	AVMB	-76.92	2-15-89	+1.58	-76.92	1989	-81.71	1955	I	1955,1979,1984,1989
11S.17E.17.44322	AVMB	-14.70	2-15-89	+1.30	-14.70	1989	-17.29	1955	S	1955,1979,1984,1989
11S.17E.18.42441	AVMB	-80.29	2-15-89	+1.42	-80.29	1989	-84.78	1955	S	1955,1979,1984,1989
11S.17E.20.131312	AVMB	-28.10	2-15-89	+2.64	-27.67	1954	-32.40	1979	I	1954,1979,1984,1989
11S.17E.27.134424	YESO	-464.66	2-16-89	+2.30	-464.66	1989	-476.72	1961	U	1955-62,1979,1984,1989
11S.18E.07.24242	YESO	-79.55	2-16-89	+0.71	-79.55	1989	-82.81	1955	S	1955,1979,1984,1989
11S.18E.09.33323	YESO	-22.29	2-17-89	+0.61	-22.29	1989	-22.90	1984	S	1984,1989
11S.18E.14.33431	AVMB	-56.10	2-17-89	-1.48	-54.62	1984	-56.10	1989	H	1984,1989
11S.18E.15.33313	YESO	-48.04	1-20-89	+2.98	-44.43	1988	-60.18	1959	H	1955-89
11S.18E.15.414443	AVMB	-50.13	2-16-89	+0.55	-46.89	1962	-54.00	1960	H	1955-62,1979,1984,1989
11S.18E.15.44234	AVMB	-32.49	2-16-89	-0.04	-32.45	1984	-35.01	1954	I	1954,1979,1984,1989
11S.18E.23.13113	AVMB	-10.28	2-17-89	-0.11	-6.84	1955	-10.29	1979	I	1955,1979,1984,1989
11S.18E.24.34142	AVMB	-49.04	2-17-89	-1.70	-40.90	1962	-61.95	1960	H	1955-64,1966-75,1979,1984,1989
11S.19E.31.212313A	YESO	-62.58S	2-21-89	--	-45.46	1984	-62.58	1989	I	1979,1984,1989

Rio Peñasco Monitoring Area

The Rio Peñasco monitoring area is in Chaves and Otero Counties, southeast New Mexico. All but two water-level changes are rises ranging from less than 1 foot to more than 81 feet. The wells with declining water levels are in the northwest part of the area and show declines ranging from less than 7 to more than 16 feet.

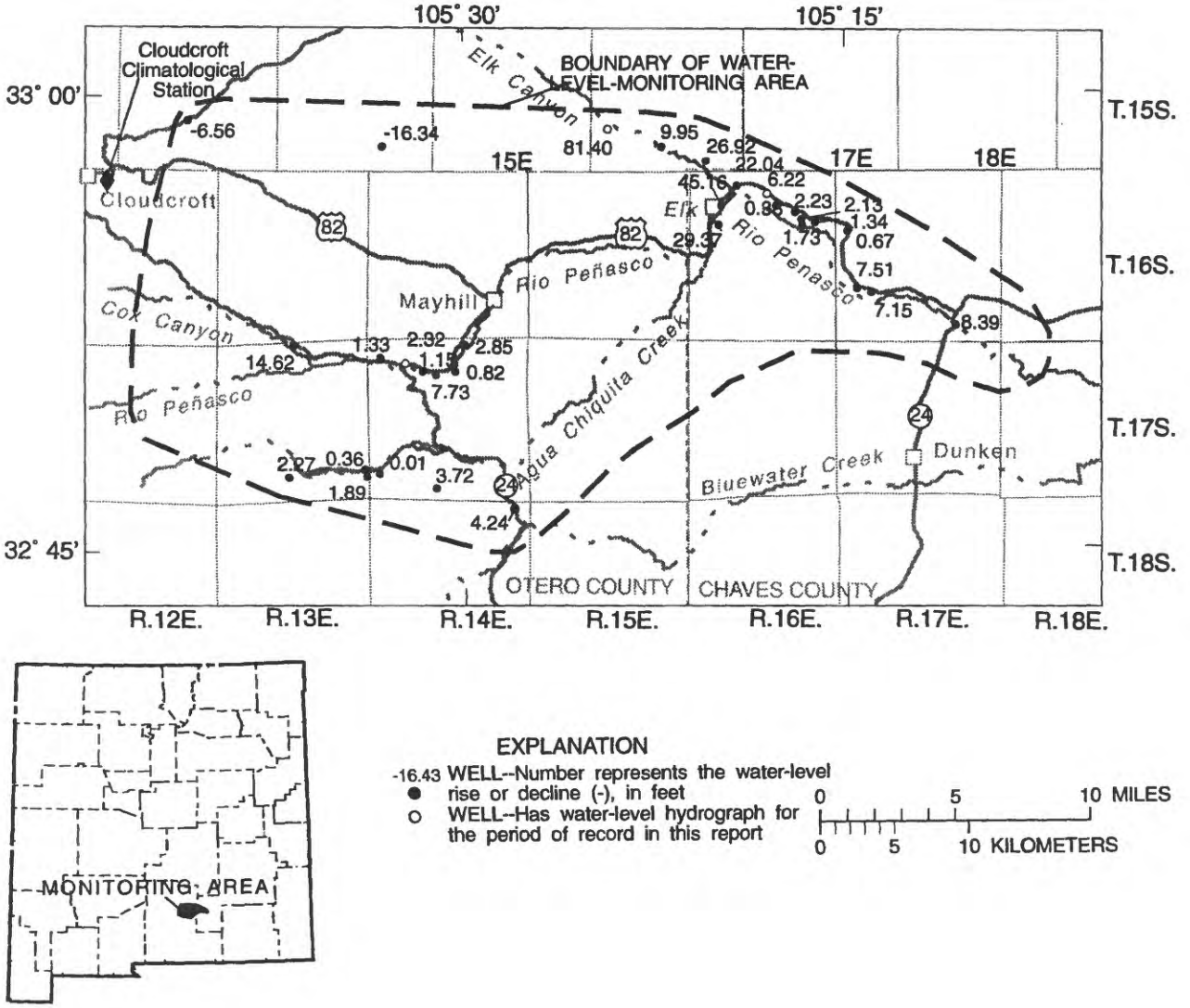


Figure 67.--Water-level changes for wells in the Rio Peñasco monitoring area, 1984-89.

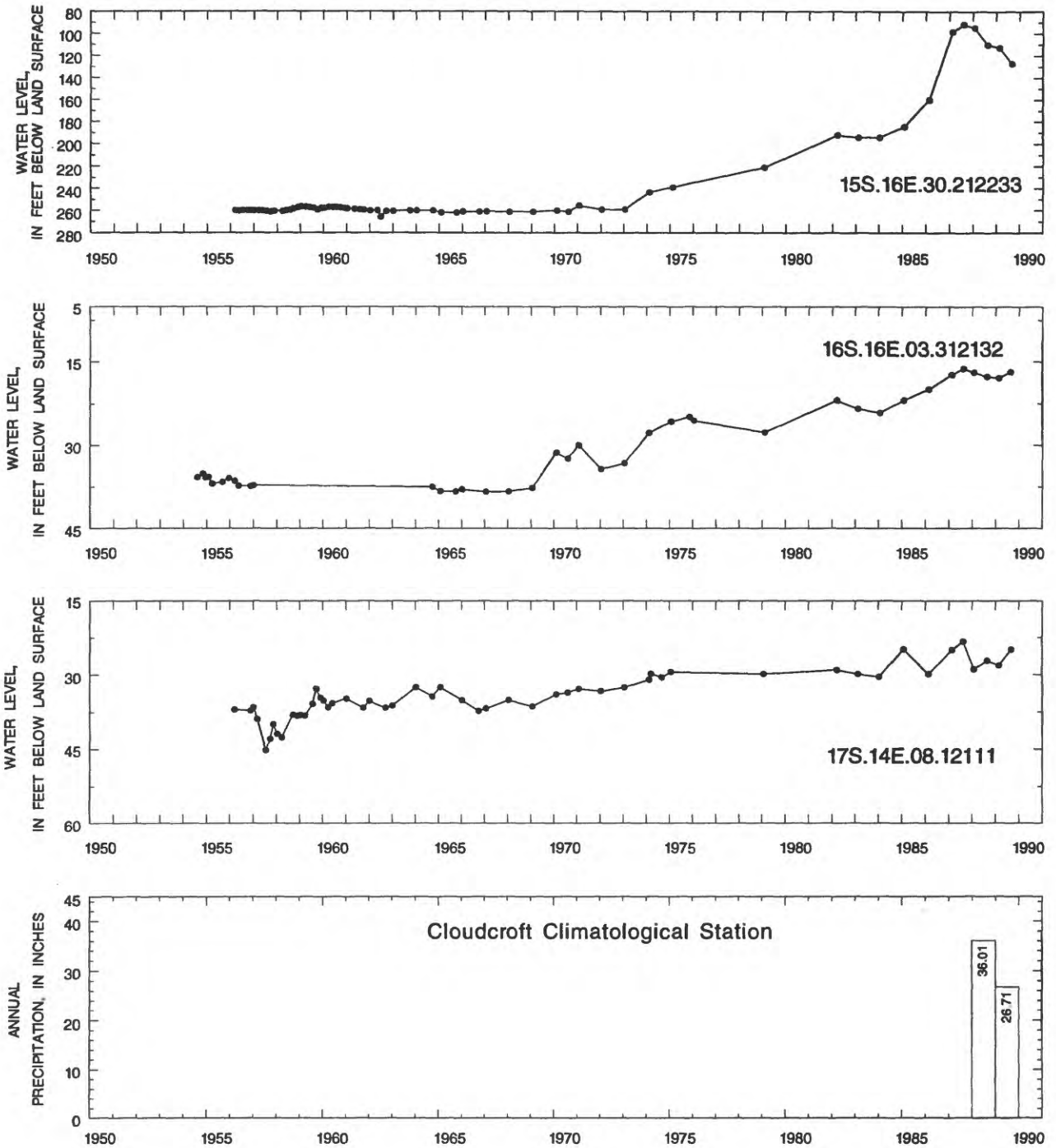


Figure 68.--Water-level data for selected wells in the Rio Peñasco monitoring area and annual precipitation at the Cloudcroft Climatological Station. See figure 67 for location of wells and station.

Table 33.--Well location and water-level data for selected wells in the Rio Peñasco monitoring area, Chaves and Otero Counties, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; YESO, Yeso Formation. Use of water: H, domestic; I, irrigation; S, stock. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
15S.13E.28.12421	YESO	-69.74	2-02-89	-6.56	-58.12	1979	-69.74	1989	I	1975,1979,1984,1989
15S.14E.34.222432	AVMB	-17.98	2-02-89	-16.34	-1.64	1984	-19.93	1989	I	1979,1984,1989
15S.16E.30.212233	YESO	-112.51	2-17-89	+81.40	-91.46	1987	-265.80	1962	S	1956-75,1979,1982-89
15S.16E.33.22133	YESO	-269.99	2-14-89	+9.95	-269.99	1989	-317.62	1954	S	1954,1975,1979,1984,1989
15S.16E.35.32421	YESO	-147.94	2-14-89	+26.92	-147.94	1989	-182.54	1979	S	1975,1979,1984,1989
16S.16E.03.312132	AVMB	-17.89	2-17-89	+6.22	-16.19	1987	-38.32	1965	I	1954-57,1964-76,1979,1982-89
16S.16E.05.224344	AVMB	-32.25	2-14-89	+22.04	-32.25	1989	-63.22	1979	H	1975,1979,1984,1989
16S.16E.08.121212	YESO	-42.39	2-14-89	+45.16	-42.39	1989	-118.13	1954	H	1954,1975,1979,1984,1989
16S.16E.08.3144	AVMB	-19.11	2-14-89	+29.37	-19.11	1989	-56.36	1979	I	1975,1979,1984,1989
16S.16E.10.2111	AVMB	-8.88	2-15-89	+0.38	-8.88	1989	-16.70	1957	I	1955,1957,1975,1979,1984,1989
16S.16E.10.24131	YESO	-10.44	2-15-89	--	-9.31	1979	-10.70	1975	I	1975,1979,1989
16S.16E.11.123334	YESO	-84.69	2-15-89	+2.23	-84.69	1989	-86.92	1984	H	1975,1984,1989
16S.16E.11.41111	AVMB	-7.21	2-15-89	+2.13	-7.21	1989	-9.34	1984	I	1975,1979,1984,1989
16S.16E.11.41334	YESO	-8.56	2-15-89	+1.73	-8.56	1989	-12.31	1979	I	1975,1979-80,1984,1989
16S.16E.12.31143	YESO	-4.90	2-15-89	+1.34	-4.90	1989	-7.59	1979	I	1979,1984,1989
16S.17E.07.34332	YESO	-58.38	2-21-89	+0.67	-58.38	1989	-61.64	1979	H	1975,1979,1984,1989
16S.17E.29.13222	AVMB	-31.94	2-21-89	+7.15	-31.94	1989	-50.57	1979	I	1975,1979,1984,1989
16S.17E.30.21243	AVMB	-57.40	2-21-89	+7.51	-57.40	1989	-67.54	1979	I	1975,1979,1984,1989
16S.17E.35.23333	YESO	-101.71	2-21-89	+8.39	-101.71	1989	-171.99	1979	H	1979,1984,1989
17S.13E.03.1110	YESO	-113.17	2-01-89	+14.62	-113.17	1989	-133.32	1974	I	1974,1979,1984,1989
17S.13E.25.43424	YESO	-1.02	2-01-89	+0.36	-0.98	1979	-2.69	1975	H	1975,1979,1984,1989
17S.13E.33.24111	YESO	-51.86	2-01-89	+2.27	-18.05	1979	-54.13	1984	I	1975,1979,1984,1989
17S.13E.36.22442	YESO	-84.98	2-02-89	+1.89	-78.62	1979	-86.87	1984	H	1975,1979,1984,1989
17S.14E.03.12144	AVMB	-50.60	2-02-89	+2.85	-50.60	1989	-54.90	1974	H	1974,1979,1984,1989
17S.14E.06.43331	AVMB	-9.69	2-01-89	+1.33	-7.41	1974	-11.02	1984	I	1974,1979,1984,1989
17S.14E.08.12111	AVMB	-28.08	2-17-89	+2.32	-23.30	1987	-45.13	1957	I	1956-75,1979,1982-89
17S.14E.08.22133	AVMB	-0.25	2-02-89	+1.15	-0.25	1989	-1.48	1974	I	1974,1979,1984,1989
17S.14E.09.12333	YESO	-18.66	2-02-89	+7.73	-18.66	1989	-27.80	1979	H	1979,1984,1989
17S.14E.10.11133	AVMB	-16.10	2-02-89	+0.82	-16.10	1989	-19.73	1974	H	1974,1979,1984,1989
17S.14E.30.33344	YESO	0.49	2-01-89	+0.01	0.49	1989	0.40	1975	I	1975,1984,1989
17S.14E.33.32123	YESO	-245.86	2-02-89	+3.72	-241.87	1979	-249.58	1984	H	1979,1984,1989
18S.14E.01.132241	AVMB	-101.68	2-02-89	+4.24	-96.44	1975	-105.92	1984	S	1975,1979,1984,1989

Causey-Lingo Monitoring Area

The Causey-Lingo monitoring area is in southern Roosevelt and Chaves Counties, east-central New Mexico, and Bailey and Cochran Counties, Texas. Not all water-level changes are shown on the map; however, all well locations and water-level data are listed in the table. Well locations marked with an asterisk (*) in the table are plotted on the map.

The monitoring area was extended in 1989 and 1990 to the west to include Rs. 30 and 31 E. The table includes data for wells in these areas, but well locations are not plotted on the map because 5-year change data are not available.

Water levels were measured in January, February, and March of 1985 and 1990; water levels in about 200 wells were measured in November and December of 1989. Because all data were winter water-level measurements, all wells with water-level data in 1985 and 1989 or 1990 were used in computing the 5-year water-level change.

Water-level declines range from less than 1 to more than 3 feet. Rises range from less than 1 foot to more than 16 feet. Water-level measurements show a rise in most of the Causey-Lingo monitoring area; however, a decline is shown in a small area west of Milnesand in parts of Tps. 7 and 8 S. and most of R. 34 E. In the northeast corner of the monitoring area measurements indicate declines and rises.

Grants-Bluewater Monitoring Area

The Grants-Bluewater monitoring area is in Cibola County, west-central New Mexico. Water-level rises range from 2.06 to more than 14 feet. One water level declined 6.05 feet.

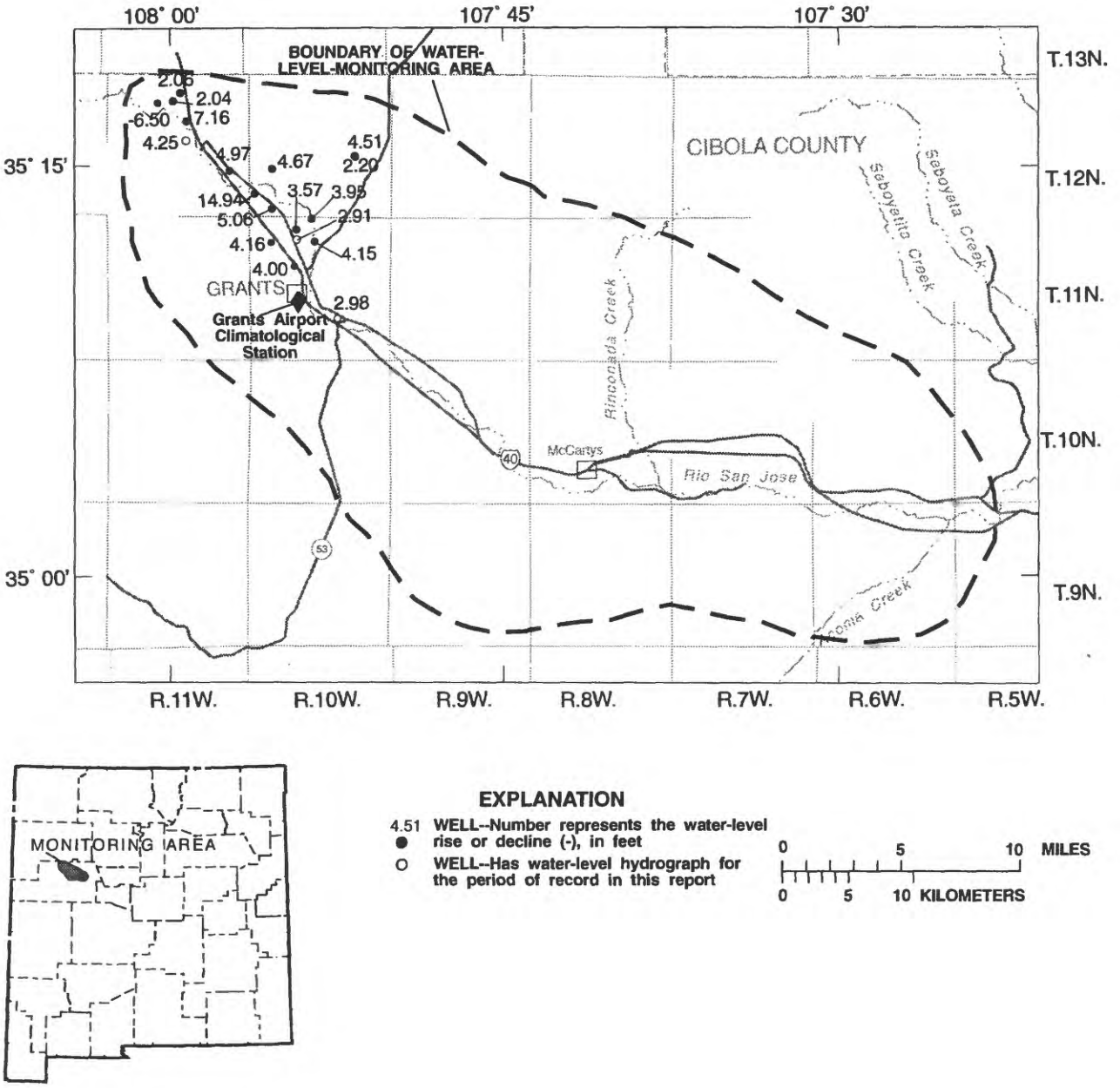


Figure 69.--Water-level changes for wells in the Grants-Bluewater monitoring area, 1984-89.

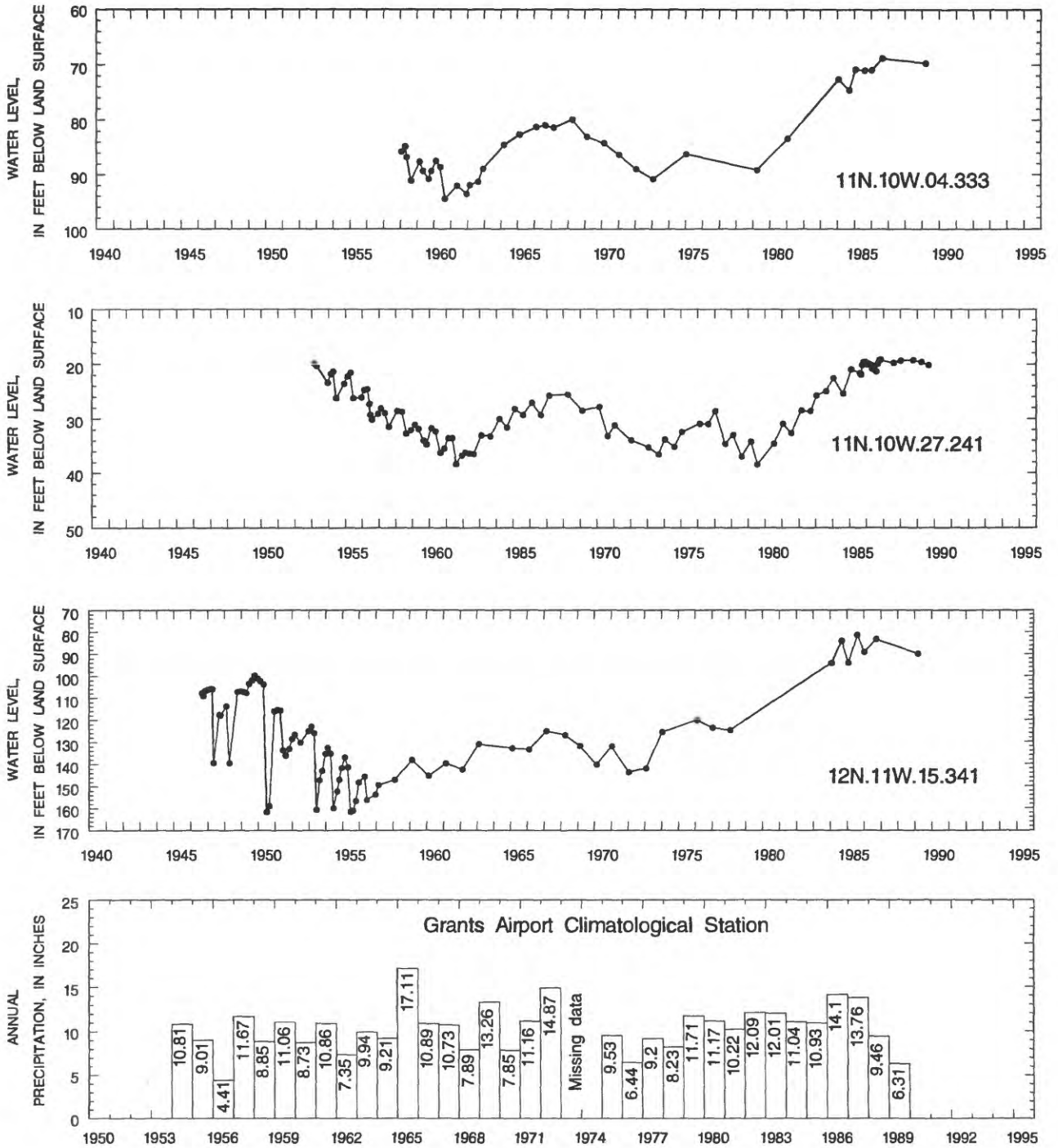


Figure 70.--Water-level data for selected wells in the Grants-Bluewater monitoring area and annual precipitation at the Grants Airport Climatological Station. See figure 69 for location of wells and station.

Table 34.--Well location and water-level data for selected wells in the Grants-Bluewater monitoring area, Cibola County, New Mexico

[Geologic unit, primary producing zone for the well: CHNL, Chinle Formation; GLRT, Glorieta Sandstone Member of San Andres Formation of Manzano Group; SADG, San Andres Limestone and Glorieta Sandstone; SADR, San Andres Limestone; SADY, San Andres Limestone and Yeso Formation, undivided. Use of water: C, commercial; H, domestic; I, irrigation; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
11N.10W.04.211	SADR	-70.55	3-18-89	+3.95	-57.97	1946	-92.91	1963	I	1946-79,1981,1984-86,1989
11N.10W.04.311	SADG	-71.24	3-18-89	+3.57	-65.94	1986	-96.32	1956	I	1956,1984-86,1989
11N.10W.04.333	SADR	-69.66	3-16-89	+2.91	-68.80	1986	-94.51	1960	C	1958-62,1964-73,1975,1979,1981, 1984-86,1989
11N.10W.08.111	SADR	-79.91	3-14-89	+4.16	-72.95	1946	-103.84	1973	I	1946-52,1954-65,1969-75,1978,1981, 1984-86,1989
11N.10W.09.221	SADR	-66.23	3-18-89	+4.15	-54.49	1946	-88.74	1961	I	1946-79,1981,1984-86,1989
11N.10W.17.222	SADR	-54.78	3-14-89	+4.00	-46.87	1946	-75.72	1959	I	1946-47,1949-62,1984-86,1989
11N.10W.27.241	SADR	-19.57	3-28-89	+2.98	-19.18	1986	-38.44	1979	I	1953-89
11N.10W.28.322	SADG	-88.95	3-28-89	--	-88.95	1989	-93.02	1984	U	1984-86,1989
12N.10W.20.333A	SADR	-98.37	3-18-89	+4.67	-97.45	1986	-124.42	1957	U	1957,1960-79,1984-86,1989
12N.10W.23.233	SADR	-128.63	3-18-89	+2.20	-115.59	1946	-153.17	1960	I	1940,1946-51,1954-66,1969,1984-86, 1989
12N.10W.23.233A	CHNL	-124.71	3-18-89	+4.51	-124.71	1989	-130.14	1984	H	1984-86,1989
12N.10W.31.121	SADR	-108.89	3-16-89	+14.94	-108.89	1989	-123.83	1984	U	1984-86,1989
12N.10W.32.313	SADG	-117.55	3-16-89	+5.06	-116.75	1986	-122.61	1984	H	1984-86,1989
12N.11W.03.332	SADG	-111.35	3-28-89	+2.06	-104.75	1986	-116.31	1985	U	1984-86,1989
12N.11W.09.114A	SADR	-120.64	3-28-89	-6.50	-105.76	1959	-179.83	1956	I	1948-63,1984-86,1989
12N.11W.09.221	SADR	-110.84	3-28-89	+2.04	-105.00	1988	-192.39	1957	U	1946-59,1965,1968-78,1984-86, 1988-89
12N.11W.09.424	SADY	-89.32	3-14-89	--	-86.69	1988	-139.05	1957	U	1946-83,1985-86,1988-89
12N.11W.10.344	SADR	-98.18	3-14-89	+7.16	-91.62	1986	-105.34	1984	U	1948,1984-86,1989
12N.11W.15.341	GLRT	-89.86	3-14-89	+4.25	-81.36	1985	-161.53	1955	I	1946-63,1965-74,1976-78,1984-86, 1989
12N.11W.25.1122	SADG	-118.56	3-28-89	+4.97	-117.26	1986	-123.53	1984	H	1984-86,1989

Lower Rio Grande Monitoring Area

The Lower Rio Grande monitoring area is in Sierra and Doña Ana Counties, south-central New Mexico. Water levels have risen and declined throughout the area. Two small areas in the southern part of the monitoring area have declines. One area is in Tps. 27 and 28 S., Rs. 1 and 2 W.; the other area is immediately adjacent to the Rio Grande in T. 28 S. and Rs. 2 and 3 E. Rises in the monitoring area range from less than 1 foot to more than 44 feet. Declines range from less than 1 foot to more than 44 feet.

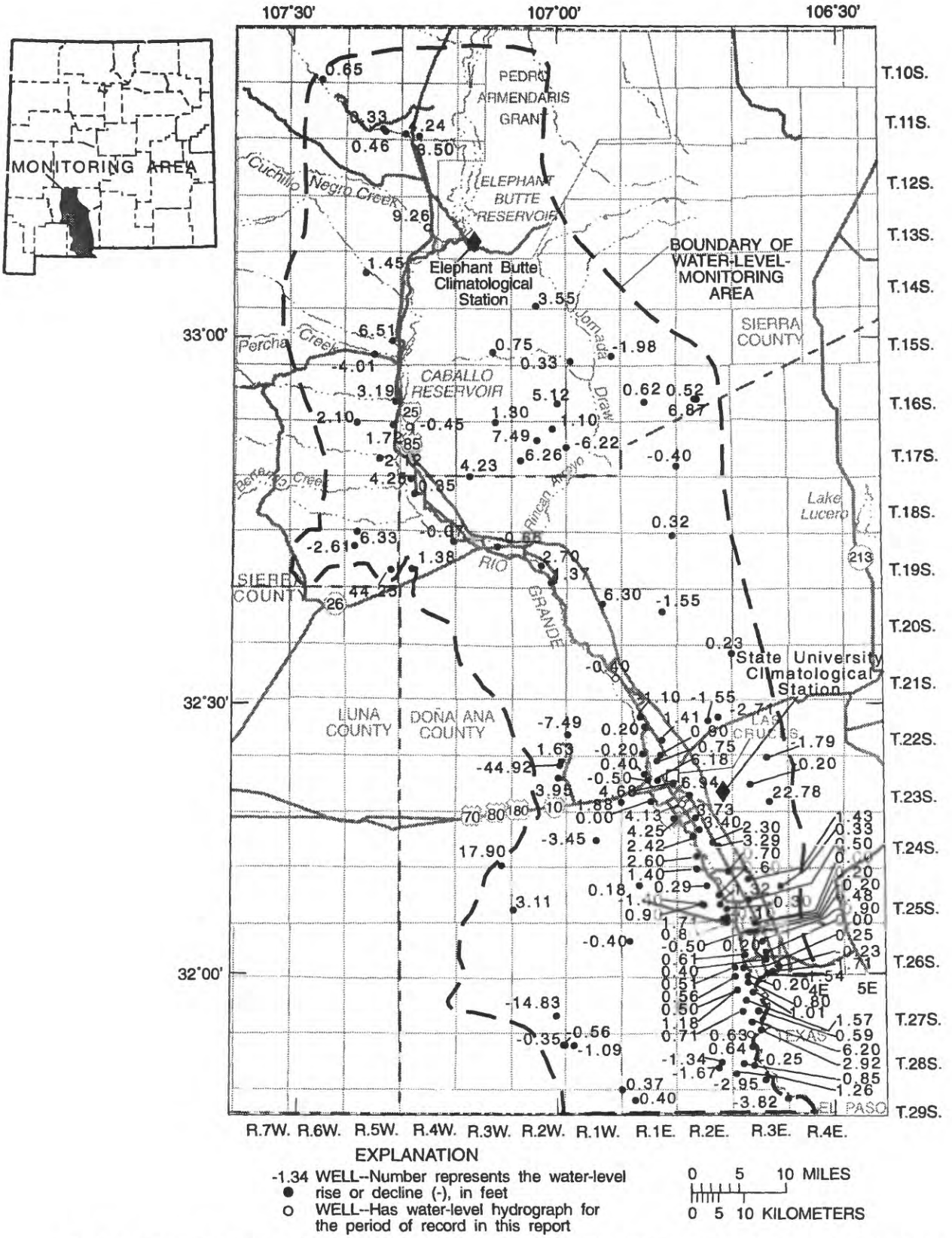


Figure 71.--Water-level changes for wells in the Lower Rio Grande monitoring area, 1984-89.

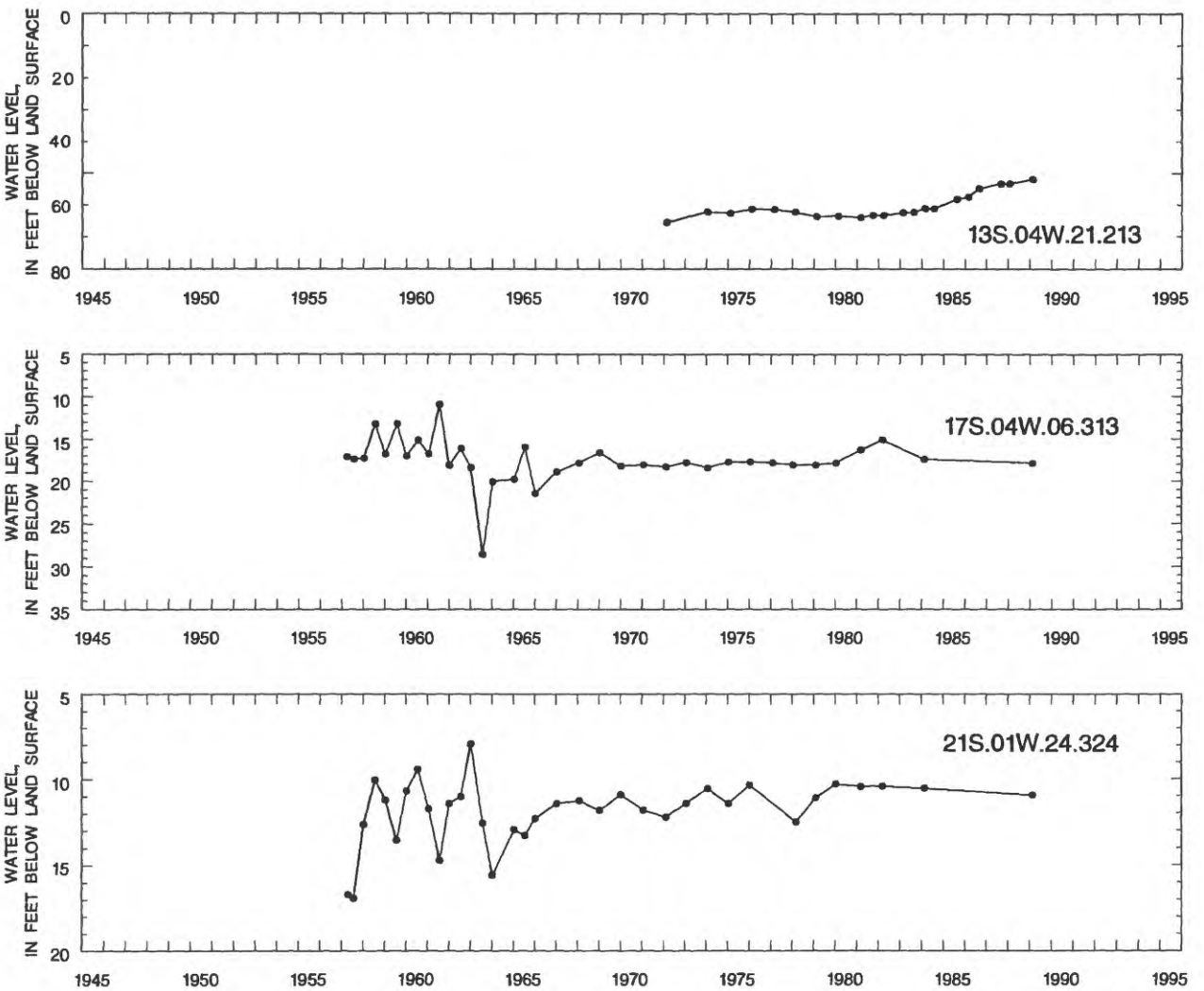


Figure 72.--Water-level data for selected wells in the Lower Rio Grande monitoring area and annual precipitation at the Elephant Butte and State University Climatological Stations. See figure 71 for location of wells and stations.

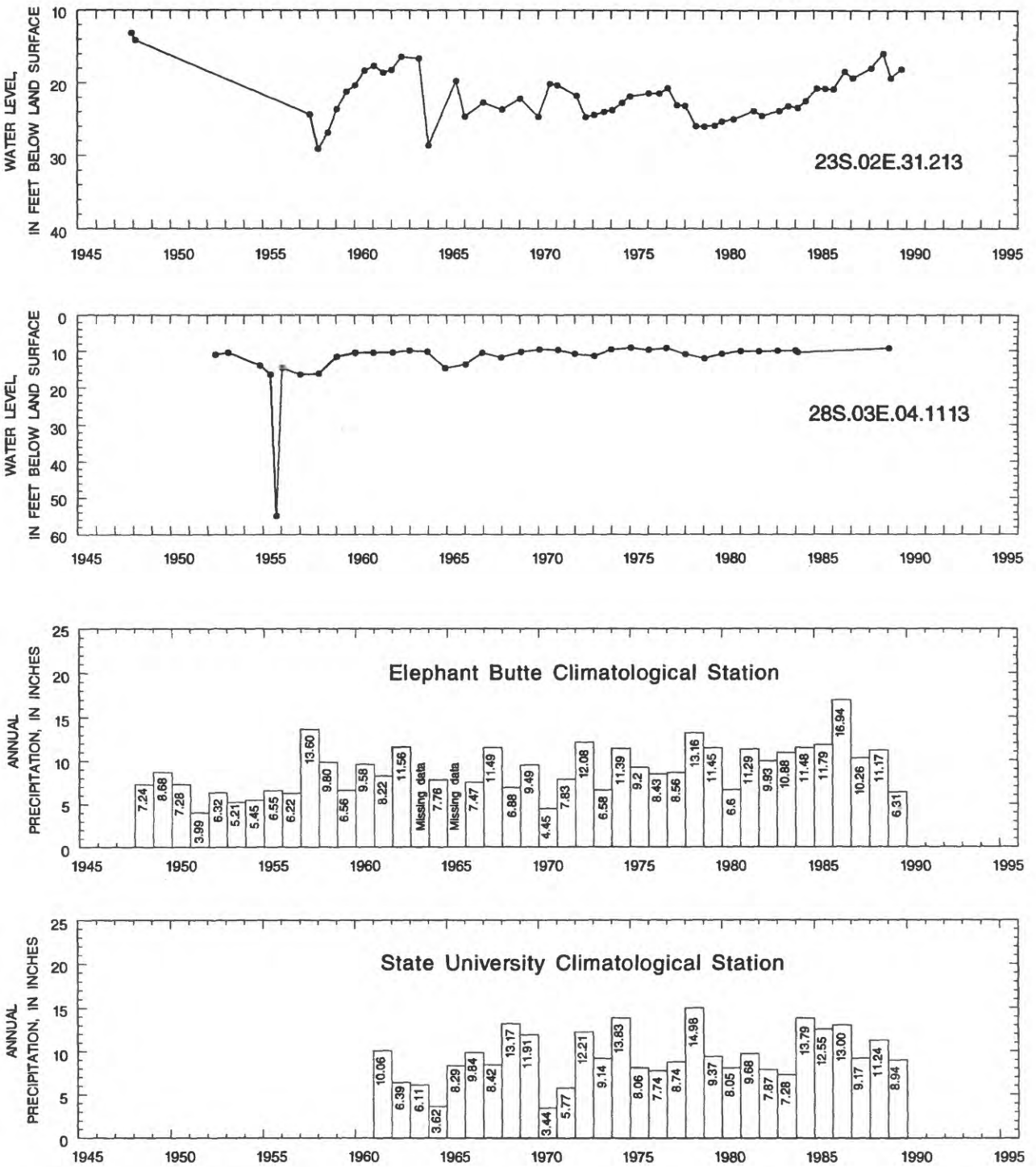


Figure 72.--Water-level data for selected wells in the Lower Rio Grande monitoring area and annual precipitation at the Elephant Butte and State University Climatological Stations. See figure 71 for location of wells and stations--Concluded.

Table 35.--Well location and water-level data for selected wells in the Lower Rio Grande monitoring area, Sierra and Doña Ana Counties, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; SNTF, Santa Fe Group. Winter water level, site status: P, pumping; R, recently pumped. Use of water: H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
10S.03W.18.241	SNTF	-174.23R	2-16-89	--	-202.53	1984	-202.53	1984	S	1984,1989
10S.06W.34.341	AVMB	-48.93	2-15-89	+0.65	-48.93	1989	-49.58	1984	H	1984,1989
11S.04W.31.312	AVMB	-12.58	2-15-89	+4.24	-12.58	1989	-16.82	1984	S	1984,1989
11S.04W.32.432	AVMB	-23.72	2-15-89	+3.50	-23.72	1989	-27.22	1984	U	1984,1989
11S.05W.26.333	AVMB	-33.82	2-15-89	+0.46	-33.82	1989	-34.28	1984	U	1984,1989
11S.05W.35.141	AVMB	-36.66	2-15-89	+0.33	-36.66	1989	-36.99	1984	U	1984,1989
13S.04W.21.213	AVMB	-51.80	2-15-89	+9.26	-51.18	1989	-65.56	1972	I	1972,1974-89
14S.02W.33.423	AVMB	-29.28	2-13-89	+3.55	-29.28	1989	-32.83	1984	I	1984,1989
14S.03W.29.231	AVMB	-38.23	2-13-89	--	-38.23	1989	-38.23	1989	H	1984,1989
14S.04W.05.310	AVMB	-14.90	2-15-89	--	-8.26	1947	-14.90	1989		1946-49,1989
14S.05W.16.123	AVMB	-50.59	2-14-89	+1.45	-50.59	1989	-52.04	1984	U	1984,1989
15S.01W.31.324	AVMB	-51.35	2-13-89	+0.33	-51.35	1989	-51.68	1984	S	1984,1989
15S.01W.36.1131	SNTF	-146.55	2-13-89	-1.98	-144.57	1984	-146.55	1989	S	1984,1989
15S.03W.02.344	SNTF	-134.30R	2-13-89	--	--	--	--	--	S	1984,1989
15S.03W.26.313	SNTF	-109.40	2-13-89	+0.75	-109.40	1989	-110.15	1984	S	1984,1989
15S.05W.24.312	AVMB	-35.46	2-15-89	+6.51	-25.46	1976	-41.97	1984	U	1974-89
15S.05W.27.334	AVMB	-13.20	2-15-89	-4.01	-9.19	1984	-13.20	1989	U	1984,1989
15S.06W.25.414	SNTF	-239.04R	2-14-89	--	-243.22	1988	-384.92	1976	U	1976-81,1984,1986-89
16S.01E.28.2113	SNTF	-268.40	2-22-89	+0.62	-268.40	1989	-269.02	1984	U	1984,1989
16S.02E.21.313	AVMB	-101.28	2-21-89	+0.52	-101.28	1989	-101.80	1984	S	1984,1989
16S.02E.21.332	AVMB	-107.90	2-21-89	+6.87	-107.90	1989	-114.77	1984	S	1984,1989
16S.02W.25.131	SNTF	-138.95	2-13-89	+5.12	-138.95	1989	-144.07	1984	I	1983-85,1989
16S.02W.29.142	SNTF	-102.43	2-13-89	--	-102.43	1989	-105.07	1985	H	1983,1985,1989
16S.02W.31.134	SNTF	-128.07	2-14-89	--	-127.80	1983	-128.10	1985	H	1983,1985,1989
16S.05W.25.211	AVMB	-18.65	2-13-89	+3.19	-11.29	1987	-25.95	1966	U	1961-89
17S.01E.36.222	SNTF	-409.20	2-21-89	-0.40	-408.80	1984	-409.20	1989	I	1984,1989
17S.02W.11.122	SNTF	-87.60	2-13-89	+1.10	-87.60	1989	-88.70	1984	U	1984,1989
17S.02W.16.232	SNTF	-58.00	2-14-89	+7.49	-58.00	1989	-65.49	1984	U	1984,1989
17S.02W.24.222	SNTF	-168.20	2-13-89	-6.22	-161.98	1984	-168.20	1989	U	1984,1989
17S.02W.29.311	SNTF	-115.30	2-14-89	+6.26	-115.30	1989	-121.56	1984	S	1984,1989
17S.03W.02.123	SNTF	-229.75	2-14-89	+1.30	-229.75	1989	-231.05	1984	U	1984,1989
17S.04W.06.313	AVMB	-17.84	2-13-89	-0.45	-10.90	1961	-21.47	1966	I	1957-82,1984,1989
17S.04W.30.344	AVMB	-29.50	2-13-89	--	-20.12	1975	-40.04	1957	I	1957-71,1973-82,1984,1989
17S.05W.01.321	AVMB	-10.71	2-13-89	+1.72	-3.78	1959	-18.29	1979	I	1957-69,1971-82,1984,1989
17S.05W.05.132	SNTF	-42.63	2-13-89	+2.10	-42.63	1989	-44.73	1984	S	1984,1989
17S.05W.27.223	SNTF	-70.44	2-13-89	+2.12	-70.44	1989	-72.56	1984	I	1984,1989
18S.03W.05.124	AVMB	-95.85	2-14-89	+4.23	-95.85	1989	-100.08	1984	S	1984,1989
18S.04W.05.133	AVMB	-11.36	2-13-89	+4.25	-11.36	1989	-15.61	1984	U	1972-80,1982,1984,1989
18S.04W.17.211	AVMB	-9.24	2-13-89	+0.35	-6.54	1959	-18.00	1957	I	1957-67,1969-82,1984,1989
18S.04W.36.322	AVMB	-16.02	2-13-89	--	-13.85	1960	-21.76	1957	I	1957-67,1970-82,1986-89

Table 35.--Well location and water-level data for selected wells in the Lower Rio Grande monitoring area, Sierra and Doña Ana Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
18S.05W.10.214	AVMB	-35.94P	2-14-89	--	-13.15	1984	-13.15	1984	I	1984,1989
19S.01E.01.222	SNTF	-236.53	2-21-89	+0.32	-2.36	1974	-236.85	1984	U	1972-74,1984,1989
19S.02W.22.323	AVMB	-9.10	2-14-89	+2.70	-7.77	1976	-11.80	1984	U	1972-82,1984,1989
19S.02W.35.322	AVMB	-10.73	2-14-89	+1.37	-4.95	1958	-18.99	1957	I	1957-81,1984,1989
19S.03W.11.413	AVMB	-8.56	2-14-89	-0.66	-4.05	1958	-8.56	1989	I	1957-82,1984,1989
19S.04W.12.241	AVMB	-11.52	2-14-89	-0.07	-10.31	1976	-12.93	1973	U	1972-82,1984,1989
19S.04W.29.133	SNTF	-153.35	2-13-89	+1.38	-152.92	1962	-154.73	1984	S	1961-62,1984,1989
19S.05W.05.123	SNTF	-216.46	2-14-89	+6.33	-216.46	1989	-222.79	1984	S	1984,1989
19S.05W.07.442	SNTF	-275.13	2-14-89	-2.61	-268.01	1974	-275.13	1989	S	1974-84,1987,1989
19S.05W.12.112	AVMB	-24.86R	2-13-89	--	-22.24	1984	-22.24	1984	S	1984,1989
19S.05W.26.224	SNTF	-110.87	2-14-89	+44.25	-110.87	1989	-155.12	1984	S	1984,1989
20S.01E.14.144	SNTF	-319.90	2-21-89	-1.55	-3.18	1967	-319.90	1989	I	1948,1967,1984,1989
20S.01W.11.313	SNTF	-305.80	2-22-89	+6.30	-305.80	1989	-312.10	1984	S	1973,1984,1986-89
21S.01W.24.324	AVMB	-10.95	2-14-89	-0.40	-7.94	1963	-16.90	1957	I	1957-76,1978-82,1984,1989
21S.02E.12.222	SNTF	-303.22	2-15-89	+0.23	-302.91	1987	-313.50	1986	U	1984,1986-89
22S.01E.09.333	AVMB	-8.00	2-02-89	-1.10	-6.90	1984	-8.00	1989	U	1984-89
22S.01E.16.433	AVMB	-9.20	2-02-89	+0.20	-8.20	1987	-9.40	1984	U	1984-89
22S.01E.26.411	AVMB	-11.95	2-22-89	+1.41	-9.29	1988	-25.57	1957	I	1957-89
22S.01E.33.341	AVMB	-8.10	2-21-89	-0.20	-6.50	1987	-8.70	1988	U	1984-89
22S.01E.35.334	AVMB	-13.00	2-02-89	+0.90	-12.90	1987	-14.00	1985	U	1984-89
22S.01E.35.434B	AVMB	-15.00	2-02-89	--	-13.90	1987	-15.90	1985	U	1984-89
22S.01W.19.332	SNTF	-163.57	2-13-89	-7.49	-156.08	1984	-163.57	1989	U	1984-89
22S.02E.11.344	SNTF	-321.06	2-15-89	-2.71	-318.35	1984	-321.06	1989	U	1984,1989
22S.02E.13.313	SNTF	-355.87	2-15-89	--	-349.65	1978	-355.87	1989	U	1976-81,1989
22S.02E.15.142	SNTF	-281.55	2-16-89	-1.55	-278.64	1973	-305.28	1982	U	1973,1976,1982,1984,1989
23S.01E.03.422	AVMB	-14.99	2-27-89	-0.75	-9.58	1967	-21.04	1957	I	1957-82,1984,1989
23S.01E.09.433	AVMB	-7.90	2-02-89	+0.40	-7.90	1989	-9.20	1985	U	1984-85,1988-89
23S.01E.13.434	AVMB	-23.20	2-27-89	+6.94	-20.24	1963	-30.22	1981	I	1957-82,1984,1986-89
23S.01E.14.313	AVMB	-15.39	2-27-89	+6.18	-12.99	1965	-24.38	1957	I	1957-82,1984,1989
23S.01E.16.424	AVMB	-13.90	2-01-89	-0.50	-13.40	1984	-14.40	1985	U	1984-89
23S.01E.27.334	AVMB	-6.30	2-06-89	0.00	-5.40	1986	-6.30	1984	U	1984-89
23S.01W.25.444	SNTF	-327.82	2-13-89	+1.88	-327.11	1985	-329.70	1984	U	1984-85,1987-89
23S.02E.28.314	SNTF	-109.82	1-03-89	--	-1.10	1967	-112.50	1976	I	1967,1976,1989
23S.02E.29.141	AVMB	-32.18	1-03-89	--	-32.18	1989	-32.18	1989	H	1989
23S.02E.29.143	AVMB	-22.74	2-22-89	+4.68	-18.48	1960	-28.67	1982	I	1957-65,1967-82,1984,1989
23S.02E.29.243A	SNTF	-61.64	1-03-89	--	-0.58	1976	-61.64	1989	U	1963,1973-74,1976,1989
23S.02E.31.213	AVMB	-19.33	2-27-89	+4.13	-13.16	1947	-29.12	1958	I	1947-48,1957-89
23S.02W.01.422	SNTF	-210.75	2-13-89	+1.63	-200.58	1983	-215.37	1985	U	1983-85,1989
23S.02W.12.122	SNTF	-220.02	2-13-89	-44.92	-175.10	1984	-220.02	1989	U	1982,1984-89
23S.02W.12.341	SNTF	-192.93	2-13-89	--	-192.93	1989	-202.08	1986	I	1984-89

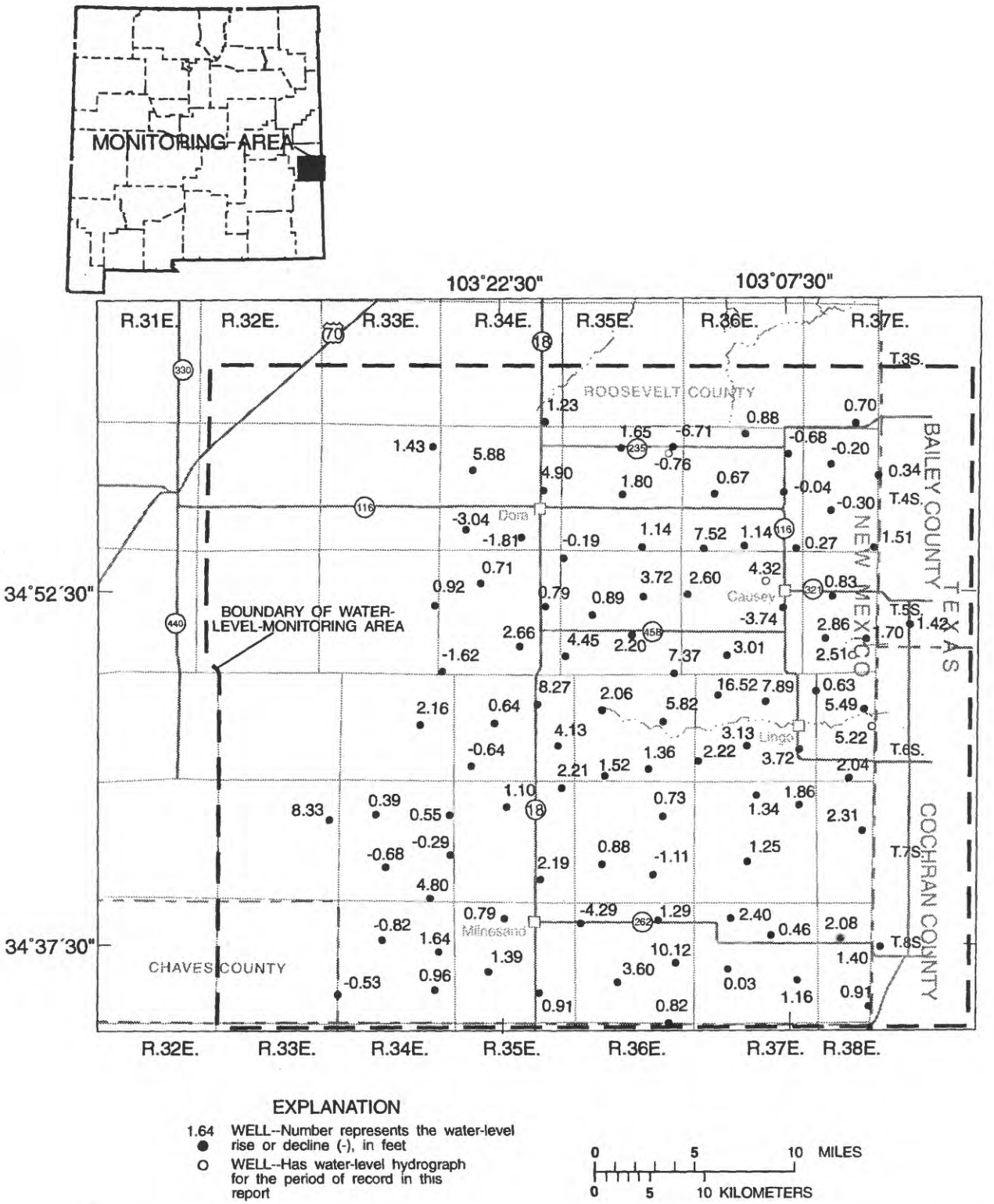


Figure 5.--Water-level changes for selected wells in the Causey-Lingo monitoring area, 1985-90.

Table 35.--Well location and water-level data for selected wells in the Lower Rio Grande monitoring area, Sierra and Doña Ana Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
23S.02W.13.134	SNTF	-178.90	2-13-89	+3.95	-178.90	1989	-188.04	1986	--	1984-89
23S.03E.03.232	SNTF	-55.80	2-15-89	-1.79	-54.01	1984	-55.80	1989	S	1982,1984,1989
23S.03E.20.222	SNTF	-184.89	2-15-89	-0.20	-181.23	1972	-184.89	1989	U	1972-73,1984,1989
23S.03E.27.400	SNTF	-132.25	2-15-89	+22.78	-132.25	1989	-155.03	1984	S	1984,1989
24S.01E.01.424	AVMB	-13.27	2-28-89	+4.25	-13.27	1989	-35.70	1957	I	1957-80,1982,1984,1989
24S.01E.13.221A	SNTF	-8.77	2-13-89	--	-8.44	1987	-15.00	1978	I	1975-78,1985-89
24S.01W.22.121	SNTF	-356.70	2-15-89	-3.45	-320.00	1968	-356.70	1989	S	1968,1972-73,1983-86,1988-89
24S.02E.04.313	AVMB	-13.19	2-28-89	+3.73	-12.15	1963	-27.53	1957	I	1957-82,1984,1989
24S.02E.09.433	AVMB	-9.60	2-21-89	+3.40	-9.60	1989	-13.00	1984	U	1984-89
24S.02E.17.322	SNTF	-12.96	2-13-89	--	-12.95	1988	-18.10	1978	I	1975-78,1985-89
24S.02E.17.414A	SNTF	-10.09	2-13-89	--	-9.91	1988	-11.19	1987	U	1985-89
24S.02E.17.414B	SNTF	-14.98	2-13-89	--	-14.98	1989	-16.50	1986	U	1985-89
24S.02E.17.423A	SNTF	-9.84	2-13-89	+2.42	-9.43	1988	-15.90	1975	I	1973-79,1984-89
24S.02E.17.423B	SNTF	-14.37	2-13-89	--	-14.37	1989	-15.87	1986	U	1985-89
24S.02E.17.423C	SNTF	-9.98	2-13-89	--	-9.72	1988	-11.10	1987	U	1985-89
24S.02E.17.423D	SNTF	-9.30	2-13-89	--	-9.24	1986	-10.28	1985	U	1985-89
24S.02E.17.423E	AVMB	-9.06	2-13-89	--	-8.42	1986	-9.95	1985	U	1985-89
24S.02E.21.123	SNTF	-10.66	2-13-89	--	-9.82	1986	-10.73	1985	I	1985-86,1989
24S.02E.22.242	AVMB	-7.80	2-09-89	+2.30	-7.80	1989	-10.10	1984	U	1984-89
24S.02E.23.413	AVMB	-11.94	2-28-89	+3.29	-11.94	1989	-15.23	1984	U	1984,1989
24S.02E.28.334	AVMB	-9.20	2-03-89	+2.60	-9.20	1989	-11.80	1984	U	1984-89
25S.01E.06.331	SNTF	-368.45	2-15-89	--	-367.60	1986	-368.50	1988	U	1983,1985-89
25S.01E.06.333	SNTF	-369.15	2-15-89	--	-366.08	1987	-371.20	1988	U	1986-89
25S.01E.16.111	SNTF	-352.64	2-17-89	+0.18	-352.00	1988	-352.96	1982	U	1982-85,1987-89
25S.02E.01.411	AVMB	-7.60	2-09-89	+0.70	-7.10	1988	-9.30	1985	U	1984-89
25S.02E.04.114	AVMB	-11.30	2-02-89	+1.40	-11.30	1989	-12.70	1984	U	1984-89
25S.02E.10.343	AVMB	-13.81	2-28-89	+0.29	-13.81	1989	-14.10	1984	I	1984,1989
25S.02E.23.212	AVMB	-8.50	2-02-89	+0.60	-8.50	1989	-9.10	1984	U	1984-89
25S.02E.25.322	AVMB	-9.60	2-02-89	-0.30	-9.20	1986	-10.40	1985	U	1984-89
25S.02E.26.221	AVMB	-7.84	2-28-89	+1.32	-7.84	1989	-13.26	1973	I	1973-82,1984,1989
25S.02E.28.221	SNTF	-103.70	2-14-89	-1.40	-102.30	1984	-103.70	1989	H	1984,1989
25S.02E.28.222B	SNTF	-103.70	2-14-89	+0.90	-103.70	1989	-104.60	1984	S	1984-85,1987-89
25S.02E.31.312A	SNTF	-354.85	2-14-89	--	-354.85	1989	-356.73	1986	U	1986-89
25S.02E.35.4224	AVMB	-11.24	2-28-89	+1.71	-11.24	1989	-12.95	1984	I	1984,1989
25S.02W.05.133	SNTF	-115.95	2-15-89	--	-113.27	1973	-124.00	1968	S	1968,1973,1985-89
25S.02W.30.324	SNTF	-216.87	2-27-89	+3.11	-215.44	1988	-219.98	1984	U	1982,1984-89
25S.03E.08.214	SNTF	-76.10	2-16-89	+1.43	-76.10	1989	-77.53	1984	U	1984-85,1989
25S.03E.13.112	SNTF	-388.06	2-16-89	+0.33	-387.45	1985	-388.51	1986	I	1984-86,1989
25S.03E.20.411	AVMB	-8.92	2-28-89	--	-7.98	1982	-10.04	1979	I	1972-82,1984,1989
25S.03E.20.421	AVMB	-7.10	2-09-89	+0.50	-6.60	1986	-7.90	1985	U	1984-89

Table 35.--Well location and water-level data for selected wells in the Lower Rio Grande monitoring area, Sierra and Doña Ana Counties, New Mexico--Continued

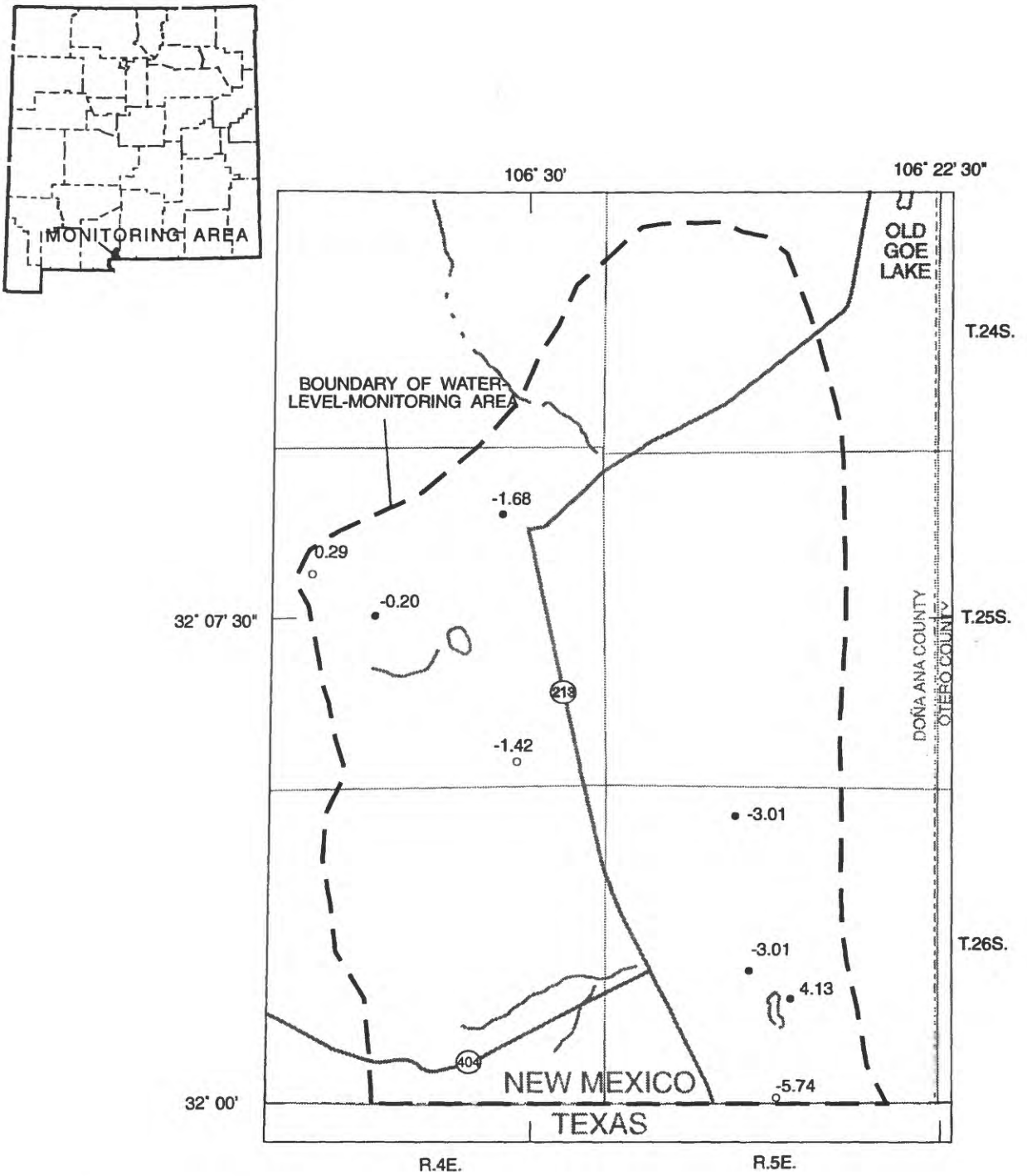
Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
25S.03E.28.343A	AVMB	-9.70	2-02-89	+0.20	-9.30	1986	-10.10	1985	U	1984-89
25S.03E.31.143	AVMB	-7.70	2-02-89	-0.10	-7.30	1986	-7.70	1989	U	1984-89
25S.03W.02.214	SNTF	-386.28	2-15-89	+17.90	-386.28	1989	-404.18	1984	S	1968,1973,1984-85,1987-89
26S.01E.18.222B	SNTF	-393.30	2-15-89	-0.40	-392.90	1984	-394.45	1982	U	1982,1984-89
26S.01E.35.332	SNTF	-358.56	2-15-89	--	-358.00	1968	-366.50	1976	U	1968,1976,1985-89
26S.01W.25.412B	SNTF	-375.62	2-15-89	--	-375.32	1987	-375.62	1989	U	1986-89
26S.02E.01.211	AVMB	-7.70	2-02-89	+0.80	-6.40	1987	-8.50	1984	U	1984-89
26S.02W.15.434	SNTF	-408.85	2-27-89	--	-408.41	1987	-416.30	1974	S	1974,1985-89
26S.03E.03.344A	AVMB	-9.88	2-14-89	--	-9.53	1987	-10.11	1985	U	1985-89
26S.03E.03.344D	SNTF	-9.86	2-14-89	--	-9.78	1988	-10.95	1985	U	1985-89
26S.03E.04.122	AVMB	-8.40	2-06-89	0.00	-7.80	1986	-9.20	1985	U	1984-89
26S.03E.04.433	AVMB	-8.30	2-28-89	+0.48	-7.50	1977	-10.69	1972	I	1972-82,1984,1989
26S.03E.08.221	AVMB	-9.80	2-09-89	-0.50	-9.30	1984	-10.00	1985	U	1984-89
26S.03E.09.221A	AVMB	-7.00	2-02-89	-0.20	-6.70	1987	-7.20	1985	U	1984-89
26S.03E.15.112	AVMB	-7.80	2-06-89	-0.90	-6.90	1984	-7.80	1985	U	1984-89
26S.03E.20.134	AVMB	-10.66	2-28-89	+0.61	-10.66	1989	-11.27	1984	I	1984,1989
26S.03E.22.211	AVMB	-4.60	2-21-89	0.00	-4.00	1985	-4.60	1984	U	1984-89
26S.03E.26.4244	AVMB	-42.75	1-09-89	-0.23	-34.30	1958	-44.38	1979	I	1957-58,1960-64,1966-67,1969-73, 1975-76,1978-84,1986-89
26S.03E.27.211	AVMB	-6.40	2-02-89	+0.40	-6.30	1986	-6.80	1984	U	1984-89
26S.03E.27.212	AVMB	-5.30	2-21-89	+0.20	-4.60	1988	-5.80	1985	U	1984-89
26S.03E.29.334	AVMB	-8.89	1-17-89	+0.25	-8.56	1959	-13.94	1957	I	1953-64,1966-67,1969-73,1975-76, 1978-84,1989
26S.03E.30.3431	AVMB	-26.55	1-17-89	+0.51	-25.92	1960	-30.75	1958	I	1952-64,1966-67,1969-73,1975-76, 1978-84,1989
26S.03E.31.341	AVMB	-17.56	1-17-89	+0.56	-16.65	1960	-20.70	1958	I	1953,1958-64,1966-67,1969-73, 1975-76,1978-84,1989
26S.03E.32.441	AVMB	-8.80	2-09-89	+0.20	-8.60	1985	-9.30	1986	U	1984-86,1988-89
26S.03E.34.243	AVMB	-26.68	2-28-89	+1.54	-26.68	1989	-28.22	1984	I	1984,1989
26S.03E.35.141	AVMB	-24.59	2-28-89	+1.71	-24.59	1989	-26.30	1984	I	1984,1989
27S.01E.04.121	SNTF	-383.00	2-15-89	--	-382.79	1988	-383.00	1989	U	1986-89
27S.01W.26.433	SNTF	-234.53	2-15-89	--	-234.53	1989	-284.48	1985	U	1973,1985,1988-89
27S.02E.13.331	SNTF	-317.69	2-15-89	--	-316.59	1986	-317.69	1989	U	1986-89
27S.02E.21.111	SNTF	-303.82	2-14-89	--	-303.72	1986	-304.20	1985	U	1985-89
27S.02W.25.111	AVMB	-376.27	2-17-89	-14.83	-360.75	1962	-376.27	1989	I	1962-66,1968-76,1979,1984,1989
27S.03E.05.4211	AVMB	-9.45	1-17-89	+0.80	-9.45	1989	-11.72	1979	I	1976,1979,1981-84,1989
27S.03E.07.2311	AVMB	-17.59	1-17-89	+0.50	-17.25	1975	-19.20	1979	I	1967,1969-73,1975-76,1978-84,1989
27S.03E.07.2313	AVMB	-16.69	1-17-89	+1.18	-16.69	1989	-22.20	1957	U	1953-57,1959-64,1966-67,1975-76, 1978-84,1989
27S.03E.09.1334	AVMB	-8.01	1-17-89	+1.01	-8.01	1989	-17.30	1957	I	1953,1957-64,1966-67,1969,1971-73, 1975-76,1978-84,1989

Table 35.--Well location and water-level data for selected wells in the Lower Rio Grande monitoring area, Sierra and Doña Ana Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1984 to winter 1989 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
27S.03E.09.444	AVMB	-3.70	2-09-89	+3.20	-3.50	1985	-6.90	1984	U	1984-89
27S.03E.17.1414	AVMB	-10.85	1-17-89	+1.57	-9.73	1976	-16.15	1958	I	1953,1957-64,1966-67,1969-73, 1975-76,1978-81,1984,1989
27S.03E.19.4222	SNTF	-73.88	1-17-89	+0.71	-73.62	1975	-77.37	1966	I	1960-64,1966-67,1969-70,1972-73, 1975-76,1978-84,1989
27S.03E.21.4221	AVMB	-11.30	1-17-89	+0.59	-9.68	1960	-20.55	1957	I	1953-62,1964,1966-67,1969-73, 1975-76,1978-84,1989
27S.03E.28.314	AVMB	-14.80	2-03-89	-6.20	-7.90	1986	-14.80	1989	U	1984-89
27S.03E.33.4222	AVMB	-14.03	1-17-89	-2.92	-7.70	1975	-16.18	1984	I	1953-64,1966-67,1969-73,1975-76, 1978-84,1989
28S.01E.34.414	SNTF	-327.68	2-16-89	--	-327.35	1986	-327.68	1989	U	1986-89
28S.01W.07.113	SNTF	-309.73	2-15-89	-1.09	-308.64	1984	-318.10	1970	I	1962-70,1982,1984,1989
28S.01W.07.113A	SNTF	-309.21	2-15-89	-0.35	-308.86	1984	-310.49	1986	U	1984,1986,1989
28S.01W.07.113B	SNTF	-309.90	2-17-89	-0.56	-309.34	1984	-310.95	1986	I	1984-89
28S.02E.23.222	SNTF	-335.12	2-14-89	-1.34	-333.78	1984	-335.18	1987	U	1984,1986-89
28S.02E.23.324	SNTF	-332.35	1-18-89	-1.67	-328.53	1974	-333.56	1983	U	1972,1974,1979-84,1989
28S.03E.04.1113	AVMB	-9.19	1-17-89	+0.63	-9.09	1975	-16.47	1957	I	1952-64,1966-67,1969-73,1975-76, 1978-84,1989
28S.03E.09.1324	AVMB	-8.73	1-17-89	+0.64	-7.35	1974	-16.15	1957	I	1952-64,1966-67,1969-76,1978-84, 1989
28S.03E.17.214	SNTF	-70.41	1-18-89	--	-69.36	1974	-75.00	1972	U	1972,1974,1983,1985-86,1988-89
28S.03E.20.123	SNTF	-129.03	1-18-89	-0.85	-125.66	1979	-129.03	1989	U	1974,1979-84,1986-89
28S.03E.21.144	SNTF	-55.06	1-18-89	--	-53.90	1974	-61.72	1974	U	1974,1983,1985-86,1988-89
28S.03E.22.2112	AVMB	-7.13	2-24-89	-0.25	-6.88	1984	-7.13	1989	U	1984,1989
28S.03E.27.434	SNTF	-71.34	1-18-89	+1.26	-71.11	1988	-77.00	1974	U	1974-86,1988-89
28S.03E.30.141	SNTF	-326.85	1-18-89	-2.95	-320.04	1974	-326.85	1989	U	1974,1983-84,1989
29S.01E.06.111	SNTF	-326.26	2-24-89	+0.37	-326.26	1989	-326.96	1988	U	1984-85,1988-89
29S.01E.08.124	SNTF	-324.12	2-16-89	+0.40	-321.53	1982	-333.72	1986	S	1955,1982,1984-86,1989
29S.02W.06.231	SNTF	-264.39	2-16-89	--	-263.73	1985	-264.60	1988	U	1985-89
29S.04E.07.1112	AVMB	-7.74	1-10-89	-3.82	-3.92	1984	-7.74	1989	I	1975-76,1978-82,1984,1989

Hueco Monitoring Area

The Hueco monitoring area is in Doña Ana County, southern New Mexico. Most changes are declines ranging from less than 1 to more than 5 feet. Two water-level changes were rises (0.29 and 4.13 feet).



EXPLANATION

-0.20 ● WELL--Number represents the water-level rise or decline (-), in feet

○ WELL--Has water-level hydrograph for the period of record in this report

0 5 10 MILES

0 5 10 KILOMETERS

Figure 73.--Water-level changes for wells in the Hueco monitoring area, 1984-89.

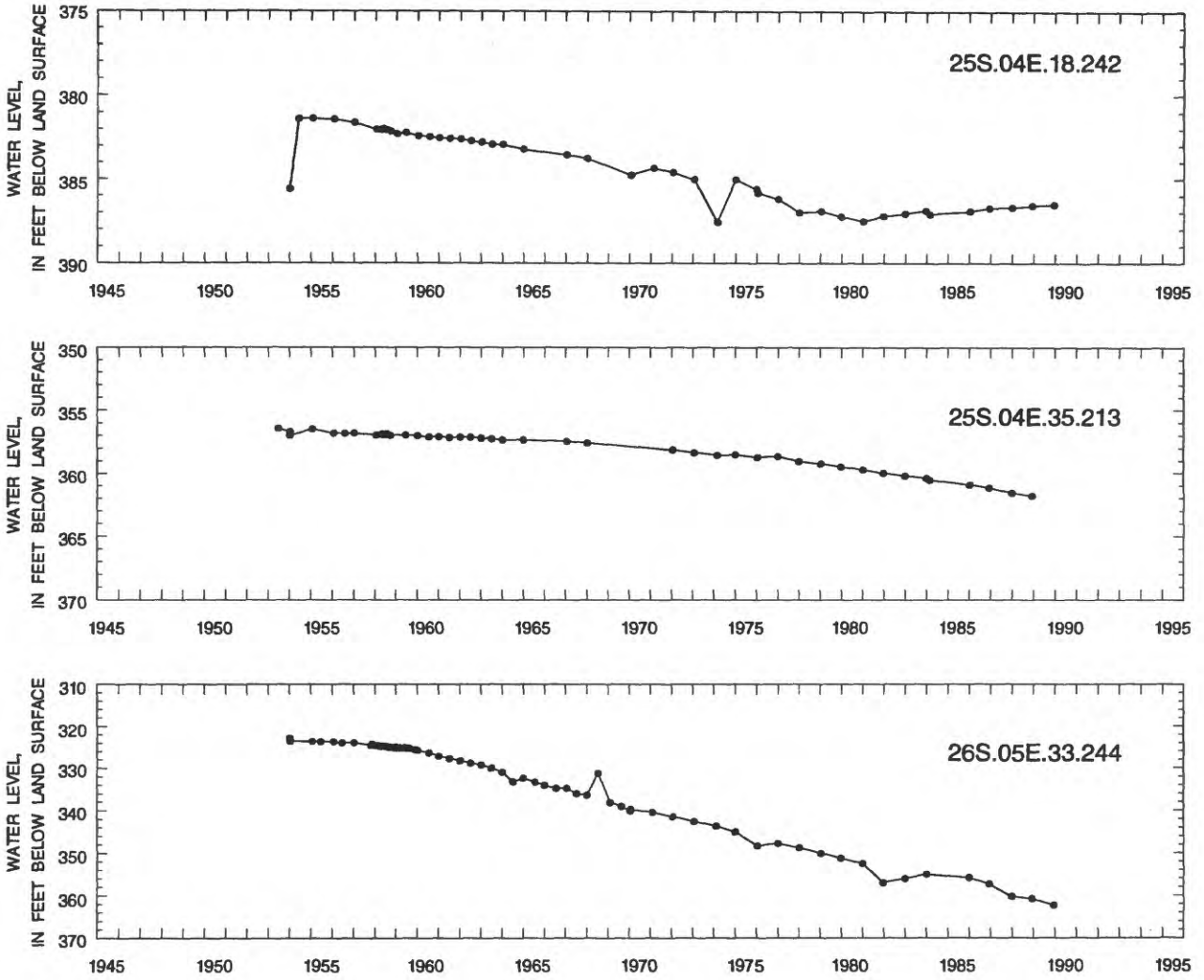


Figure 74.--Water-level data for selected wells in the Hueco monitoring area. See figure 73 for location of wells.

Table 36.--Well location and water-level data for selected wells in the Hueco monitoring area, Doña Ana County, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits. Use of water: H, domestic; I, irrigation; U, unused]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1983 to winter 1988 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
25S.04E.11.123	AVMB	-360.02	12-05-88	-1.68	-357.98	1979	-360.02	1988	H	1979-80,1982-83,1986,1988
25S.04E.16.333	AVMB	-353.95	12-05-88	-0.20	-349.34	1955	-354.15	1986	U	1954-64,1967-79,1981-84,1986,1988
25S.04E.18.242	AVMB	-386.58	12-05-88	+0.29	-381.37	1955	-387.56	1974	U	1953-64,1967-68,1970-79,1981-84
25S.04E.35.213	AVMB	-361.80	12-05-88	-1.42	-356.45	1953	-361.80	1988	U	1953-64,1967-68,1972-79,1981-84, 1986,1988
26S.05E.04.312	AVMB	-354.16	12-06-88	-3.01	-339.10	1964	-354.16	1988	I	1964,1975-79,1981-84,1986,1988
26S.05E.21.213	AVMB	-353.83	12-06-88	-3.01	-347.39	1979	-353.83	1988	I	1979,1981,1983-84,1986,1988
26S.05E.22.314	AVMB	-328.56	12-06-88	+4.13	-315.70	1976	-332.69	1983	U	1976-79,1981-84,1986,1988
26S.05E.33.244	AVMB	-360.79	12-06-88	-5.74	-322.85	1954	-360.79	1988	U	1954-79,1981-83,1985-86,1988

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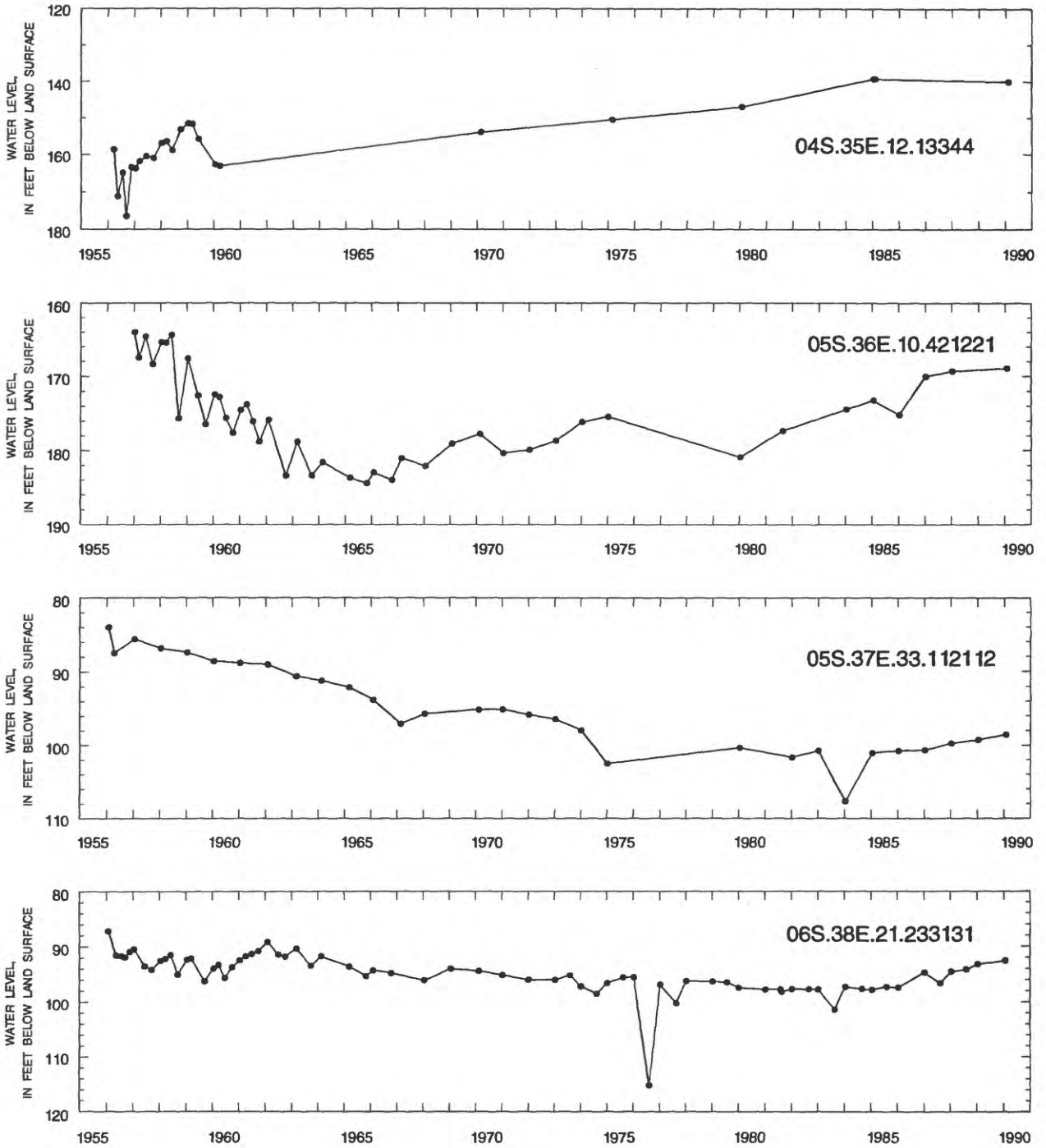

Figure 6.--Water-level data for selected wells in the Causey-Lingo monitoring area. See figure 5 for location of wells.

Table 2.--Well location and water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas

[*, well location and change data are plotted on the corresponding map. Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; CRCS, Cretaceous System; OGLL, Ogallala Formation. Use of water: H, domestic; I, irrigation; P, public supply; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*03S.34E.35.43433	AVMB	-40.76	2-07-90	+1.23	-40.76	1990	-43.05	1980	H	1975,1980,1985,1990
*03S.37E.33.32222	CRCS	-109.00	2-02-90	+0.70	-109.00	1990	-115.69	1970	S	1970,1975,1980,1985,1990
03S.37E.34.41124	CRCS	-81.02	2-02-90	-0.01	-78.06	1975	-81.02	1990	S	1975,1980,1985,1990
04S.30E.01.121143	--	-87.13	11-17-89	--	-87.13	1989	-87.13	1989	I	1989
04S.30E.01.31123	--	-95.11	11-15-89	--	-95.11	1989	-95.11	1989	I	1989
04S.30E.02.144424	--	-96.26	11-15-89	--	-96.26	1989	-96.26	1989	I	1989
04S.30E.11.344313	--	-196.76	11-16-89	--	-196.76	1989	-196.76	1989	I	1989
04S.30E.22.22422	--	-29.90	11-16-89	--	-29.90	1989	-29.90	1989	I	1989
04S.30E.22.34432	--	-35.95	11-16-89	--	-35.95	1989	-35.95	1989	I	1989
04S.30E.36.444342	--	-38.53	11-17-89	--	-38.53	1989	-38.53	1989	I	1989
04S.31E.06.222412	--	-41.79	11-17-89	--	-41.79	1989	-41.79	1989	I	1989
04S.31E.08.113321	--	-100.59	11-29-89	--	-100.59	1989	-100.59	1989	I	1989
04S.31E.10.213344	--	-24.71	11-29-89	--	-24.71	1989	-24.71	1989	I	1989
04S.31E.11.142112	--	-47.60	11-29-89	--	-47.60	1989	-47.60	1989	I	1989
04S.31E.12.133333	--	-48.86	11-29-89	--	-48.86	1989	-48.86	1989	I	1989
04S.31E.13.141342	--	-27.94	11-30-89	--	-27.94	1989	-27.94	1989	I	1989
04S.31E.14.232244	--	-22.26	11-30-89	--	-22.26	1989	-22.26	1989	I	1989
04S.31E.14.434324	--	-32.77	11-30-89	--	-32.77	1989	-32.77	1989	I	1989
04S.31E.15.121311	--	-23.01	11-29-89	--	-23.01	1989	-23.01	1989	I	1989
04S.31E.16.13233	--	-48.67	11-29-89	--	-48.67	1989	-48.67	1989	I	1989
04S.31E.17.324231	--	-90.72	11-29-89	--	-90.72	1989	-90.72	1989	I	1989
04S.31E.18.44432	--	-119.52	11-29-89	--	-119.52	1989	-119.52	1989	I	1989
04S.31E.21.344442	--	-67.64	11-30-89	--	-67.64	1989	-67.64	1989	I	1989
04S.31E.21.422234	--	-18.55	11-30-89	--	-18.55	1989	-18.55	1989	I	1989
04S.31E.24.24442	--	-37.59	12-14-89	--	-37.59	1989	-37.59	1989	I	1989
04S.31E.26.12220	--	-55.60	12-07-89	--	-55.60	1989	-55.60	1989	I	1989
04S.31E.26.134111	--	-40.26	12-07-89	--	-40.26	1989	-40.26	1989	I	1989
04S.31E.27.41131	--	-25.40	12-08-89	--	-25.40	1989	-25.40	1989	I	1989
04S.31E.34.134443	--	-57.44	12-08-89	--	-57.44	1989	-57.44	1989	I	1989
04S.31E.36.111113	--	-97.03	12-07-89	--	-97.03	1989	-97.03	1989	I	1989
04S.32E.04.412422	--	-34.10	2-15-90	--	-34.10	1990	-34.10	1990	S	1990
04S.32E.05.442421	--	-45.20	2-15-90	--	-45.20	1990	-45.20	1990	S	1990
04S.32E.09.44242	--	-54.99	2-15-90	--	-54.99	1990	-54.99	1990	S	1990
04S.32E.18.41423	--	-53.24	2-15-90	--	-53.24	1990	-53.24	1990	S	1990
04S.32E.21.32341	--	-39.68	12-14-89	--	-39.68	1989	-39.68	1989	I	1989
04S.32E.22.233143	--	-58.14	12-14-89	--	-58.14	1989	-58.14	1989	I	1989
04S.32E.24.434442	--	-72.37	12-14-89	--	-72.37	1989	-72.37	1989	I	1989
04S.32E.27.22113	--	-36.10	12-08-89	--	-36.10	1989	-36.10	1989	I	1989
04S.32E.29.23141	--	-26.65	12-14-89	--	-26.65	1989	-26.65	1989	I	1989
04S.32E.33.234442	--	-37.74	1-04-90	--	-37.74	1990	-37.74	1990	S	1990

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, *Secretary*

U.S. GEOLOGICAL SURVEY

Gordon P. Eaton, *Director*

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Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
04S.32E.34.313413	--	-125.63	1-04-90	--	-125.63	1990	-125.63	1990	S	1990
*04S.33E.01.43333	OGLL	-68.75	12-19-89	+1.43	-68.75	1989	-72.01	1980	H	1975,1980,1985,1989
04S.33E.08.333243	--	-272.13	2-15-90	--	-272.13	1990	-272.13	1990	S	1990
04S.33E.11.232222	--	-58.19	12-19-89	--	-58.19	1989	-58.19	1989	H	1989
04S.33E.28.233323	--	-30.29	1-11-90	--	-30.29	1990	-30.29	1990	S	1990
04S.34E.01.33330	OGLL	-46.84	12-19-89	+3.53	-46.84	1989	-51.40	1975	H	1956,1964,1975,1980,1985,1989
04S.34E.03.21131	OGLL	-34.25	12-15-89	+2.79	-34.25	1989	-45.40	1970	S	1964,1970,1975,1980,1985,1989
04S.34E.03.44441	OGLL	-69.41	12-15-89	+6.34	-69.41	1989	-83.43	1975	H	1975,1980,1985,1989
04S.34E.06.41343	OGLL	-71.89	12-15-89	-1.04	-70.32	1975	-72.71	1980	U	1975,1980,1985,1989
*04S.34E.08.433431	OGLL	-38.16	12-14-89	+5.88	-38.16	1989	-46.28	1970	S	1970,1975,1980,1985,1989
04S.34E.09.442124	OGLL	-29.92	2-14-90	+5.16	-29.92	1990	-42.52	1975	S	1970,1975,1980,1985,1990
04S.34E.12.34433	OGLL	-32.52	12-14-89	+5.93	-32.52	1989	-43.10	1964	U	1964,1970,1975,1980,1985,1989
*04S.34E.13.33341	OGLL	-49.83	2-09-90	+4.90	-49.83	1990	-61.64	1970	S	1964,1970,1975,1980,1985,1990
04S.34E.20.24421	OGLL	-34.36	12-14-89	-0.96	-29.09	1980	-34.36	1989	U	1975,1980,1985,1989
04S.34E.20.34440	--	-66.61	12-14-89	--	-66.61	1989	-66.61	1989	U	1989
04S.34E.21.344444	OGLL	-49.31	12-14-89	+0.91	-49.31	1989	-50.22	1985	U	1964,1970,1975,1980,1985,1989
04S.34E.22.242444	OGLL	-44.53	2-09-90	+2.41	-44.53	1990	-51.74	1964	H	1964,1970,1975,1980,1985,1990
04S.34E.23.44220	OGLL	-40.15	1-05-90	-0.63	-39.52	1985	-51.52	1956	U	1956,1964,1970,1985,1990
04S.34E.24.33433	OGLL	-39.71	1-03-90	+1.58	-39.71	1990	-64.35	1956	U	1956,1970,1975,1980,1985,1990
04S.34E.27.21124	--	-56.81	2-09-90	--	-56.81	1990	-56.81	1990	U	1990
*04S.34E.29.343111	OGLL	-27.13	2-14-90	-3.04	-24.09	1985	-27.13	1990	S	1964,1970,1975,1980,1985,1990
04S.34E.33.433343	OGLL	-67.38	1-17-90	--	-65.98	1964	-95.68	1980	P	1964,1970,1975,1980,1985,1990
*04S.34E.34.242222	OGLL	-56.25	2-14-90	-1.81	-54.44	1985	-56.25	1990	S	1970,1975,1980,1985,1990
04S.34E.36.22213	OGLL	-19.28	1-04-90	-1.36	-17.05	1975	-19.58	1980	U	1975,1980,1985,1990
*04S.35E.01.324423	CRCS	-129.40	2-08-90	-6.71	-122.69	1985	-129.40	1990	U	1975,1980,1985,1990
*04S.35E.04.44423	CRCS	-138.12	2-09-90	+1.65	-138.12	1990	-139.77	1985	H	1975,1980,1985,1990
04S.35E.05.111433	OGLL	-25.12	12-19-89	+6.65	-25.12	1989	-41.75	1964	U	1956,1964,1970,1975,1980,1985,1989
04S.35E.07.33333	OGLL	-44.59	2-09-90	+1.23	-44.59	1990	-48.00	1975	U	1975,1980,1985,1990
04S.35E.08.244221	--	-73.22	2-09-90	--	-73.22	1990	-73.22	1990	U	1990
04S.35E.11.12224	CRCS	-111.89	2-09-90	+1.12	-111.89	1990	-119.25	1970	H	1964-65,1970,1975,1980,1985,1990
*04S.35E.12.13344	CRCS	-139.94	2-08-90	-0.76	-139.18	1985	-163.69	1957	I	1956-60,1970,1975,1980,1985,1990
04S.35E.14.42220	CRCS	-110.96	2-07-90	+5.58	-110.96	1990	-118.10	1975	S	1975,1980,1985,1990
04S.35E.17.242232	CRCS	-80.36	2-09-90	--	-80.36	1990	-88.42	1964	H	1964-65,1990
04S.35E.18.333332	CRCS	-61.40	1-04-90	+3.28	-61.40	1990	-77.15	1970	S	1970,1975,1980,1985,1990
04S.35E.18.424313	CRCS	-71.66	2-09-90	+4.64	-70.15	1980	-84.52	1970	S	1964,1970,1975,1980,1985,1990
*04S.35E.21.22242	CRCS	-121.80	1-03-90	+1.80	-121.80	1990	-127.55	1964	S	1964,1970,1975,1980,1985,1990
04S.35E.21.31110	CRCS	-92.67	1-04-90	-0.32	-92.35	1985	-93.33	1980	S	1976,1980,1985,1990
04S.35E.22.422123A	CRCS	-118.30	2-09-90	--	-118.30	1990	-121.70	1970	U	1970,1990
04S.35E.24.222141	CRCS	-85.47	2-08-90	--	-76.41	1964	-86.80	1964	S	1964,1970,1975,1990
04S.35E.26.31331	CRCS	-178.23	1-03-90	+2.67	-178.23	1990	-187.80	1970	S	1964,1970,1975,1980,1985,1990

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
04S.35E.29.21122	CRCS	-80.56	1-03-90	+0.37	-80.56	1990	-81.39	1980	H	1970,1976,1980,1985,1990
04S.35E.30.211141	CRCS	-42.69	3-01-90	-1.17	-41.52	1985	-42.69	1990	S	1985,1990
*04S.35E.34.42422	CRCS	-75.06	1-03-90	+1.14	-75.06	1990	-77.21	1980	H	1970,1975,1980,1985,1990
04S.35E.36.41322	CRCS	-91.28	1-03-90	+1.88	-91.28	1990	-95.51	1964	S	1964,1970,1975,1980,1985,1990
*04S.36E.03.11114	CRCS	-132.93	2-07-90	+0.88	-132.93	1990	-138.74	1975	H	1964-65,1970,1975,1980,1985,1990
04S.36E.05.434424	OGLL	-132.99	2-07-90	+1.35	-132.99	1990	-142.67	1956	S	1956,1970,1975,1980,1985,1990
04S.36E.07.334342	CRCS	-137.51	2-07-90	+0.98	-137.51	1990	-140.94	1964	S	1964,1970,1975,1980,1985,1990
04S.36E.08.32334	OGLL	-82.28	2-07-90	+0.16	-82.28	1990	-89.74	1980	S	1975,1980,1985,1990
*04S.36E.12.11214	OGLL	-74.37	2-02-90	-0.68	-68.40	1964	-74.37	1990	S	1964-65,1970,1975,1980,1985,1990
04S.36E.14.133343	OGLL	-137.27	2-02-90	+0.08	-137.27	1990	-149.53	1980	S	1980,1985,1990
*04S.36E.14.44420	OGLL	-133.09	2-02-90	-0.04	-133.05	1985	-149.62	1970	U	1964-65,1970,1975,1980,1985,1990
*04S.36E.17.43334	CRCS	-145.05	2-08-90	+0.67	-145.05	1990	-147.20	1964	S	1964-65,1970,1975,1980,1985,1990
04S.36E.19.33334	--	-113.64	1-24-90	--	-113.64	1990	-113.64	1990	S	1990
04S.36E.22.44414	OGLL	-149.33	2-02-90	+0.50	-148.67	1956	-158.76	1964	S	1956,1964,1970,1975,1980,1985,1990
04S.36E.25.222223	OGLL	-104.57	2-01-90	-0.36	-104.21	1985	-106.90	1964	S	1964-65,1970,1975,1980,1985,1990
04S.36E.26.31340	OGLL	-105.80	2-08-90	-1.85	-103.95	1985	-126.96	1964	S	1964,1970,1975,1980,1985,1990
04S.36E.28.22222	OGLL	-176.07	2-08-90	+1.11	-176.07	1990	-183.54	1970	I	1964,1970,1975,1980,1985,1990
04S.36E.28.311313	CRCS	-146.03	2-08-90	+3.20	-144.10	1956	-160.44	1964	S	1956,1964,1970,1975,1980,1985,1990
04S.36E.29.11111	OGLL	-86.56	2-08-90	+0.70	-86.56	1990	-88.25	1975	S	1970,1975,1980,1985,1990
*04S.36E.32.31310	OGLL	-129.58	1-30-90	+7.52	-129.58	1990	-144.62	1964	H	1964,1970,1975,1980,1985,1990
*04S.36E.34.133334	OGLL	-143.47	2-08-90	+1.14	-141.82	1975	-148.14	1980	U	1975,1980,1985,1990
*04S.36E.36.33341	OGLL	-129.70	1-26-90	+0.27	-129.70	1990	-135.88	1964	S	1956,1964-65,1970,1975,1980,1985,1990
04S.37E.05.44442	OGLL	-83.17	2-02-90	--	-83.17	1990	-87.72	1964	S	1964,1990
04S.37E.07.31112	OGLL	-96.75	2-02-90	-0.82	-95.50	1980	-96.75	1990	H	1975,1980,1985,1990
*04S.37E.08.32114	OGLL	-79.53	2-01-90	-0.20	-64.79	1964	-85.17	1975	S	1964-65,1970,1975,1980,1985,1990
04S.37E.10.13131	OGLL	-108.34	2-01-90	+0.43	-108.34	1990	-115.72	1975	H	1975,1980,1985,1990
*04S.37E.15.211242	OGLL	-113.08	2-01-90	+0.34	-113.08	1990	-115.23	1964	H	1964-65,1970,1975,1980,1985,1990
04S.37E.17.11221	OGLL	-112.09	2-01-90	+1.37	-112.09	1990	-113.66	1980	S	1980,1985,1990
04S.37E.19.434441	--	-138.92	2-01-90	--	-138.92	1990	-138.92	1990	S	1990
*04S.37E.20.33221	OGLL	-133.60	2-01-90	-0.30	-99.99	1975	-134.64	1980	S	1975,1980,1985,1990
04S.37E.21.244411	OGLL	-73.10	2-01-90	-1.48	-71.62	1985	-79.60	1964	S	1964-65,1970,1975,1980,1985,1990
04S.37E.28.12110	--	-186.27	2-01-90	--	-186.27	1990	-186.27	1990	S	1990
04S.37E.29.442124	OGLL	-121.57	1-03-90	-0.81	-120.76	1985	-126.83	1970	S	1965,1970,1975,1980,1985,1990
04S.37E.30.444423	OGLL	-133.90	1-31-90	+0.80	-133.90	1990	-136.57	1973	I	1973,1975,1980,1985,1990
04S.37E.31.44342	OGLL	-112.43	1-31-90	+0.26	-112.43	1990	-114.63	1964	S	1964-65,1970,1975,1980,1985,1990
04S.37E.33.32124	OGLL	-122.17	1-31-90	-0.25	-121.92	1985	-123.07	1980	S	1975,1980,1985,1990
*04S.37E.34.321232	OGLL	-125.29	1-26-90	+1.51	-125.29	1990	-127.03	1970	U	1965,1970,1975,1980,1985,1990
05S.30E.03.44400	--	-72.37	3-01-90	--	-72.37	1990	-72.37	1990	U	1990
05S.30E.05.23113	--	-61.72	3-01-90	--	-61.72	1990	-61.72	1990	U	1990
05S.30E.14.13300	--	-80.20	3-01-90	--	-80.20	1990	-80.20	1990	U	1990

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
05S.30E.16.44141	--	-113.23	3-01-90	--	-113.23	1990	-113.23	1990	U	1990
05S.30E.25.342132	--	-226.03	12-01-89	--	-226.03	1989	-226.03	1989	U	1989
05S.30E.26.341321	--	-61.23	12-01-89	--	-61.23	1989	-61.23	1989	U	1989
05S.30E.28.11112	--	-62.36	2-28-90	--	-62.36	1990	-62.36	1990	U	1990
05S.30E.35.133121	--	-64.47	12-01-89	--	-64.47	1989	-64.47	1989	U	1989
05S.30E.36.321143	--	-194.45	12-01-89	--	-194.45	1989	-194.45	1989	U	1989
05S.31E.05.22220	--	-73.21	11-30-89	--	-73.21	1989	-73.21	1989	U	1989
05S.31E.09.21244	--	-60.54	11-30-89	--	-60.54	1989	-60.54	1989	U	1989
05S.31E.09.223112	--	-54.37	11-30-89	--	-54.37	1989	-54.37	1989	U	1989
05S.31E.09.433142	--	-47.80	11-30-89	--	-47.80	1989	-47.80	1989	U	1989
05S.31E.10.224421	--	-50.48	11-30-89	--	-50.48	1989	-50.48	1989	U	1989
05S.31E.12.11121	--	-76.86	12-07-89	--	-76.86	1989	-76.86	1989	U	1989
05S.31E.12.434314	--	-139.44	12-07-89	--	-139.44	1989	-139.44	1989	U	1989
05S.31E.15.22222	--	-70.35	12-07-89	--	-70.35	1989	-70.35	1989	U	1989
05S.31E.15.42243	--	-42.73	12-06-89	--	-42.73	1989	-42.73	1989	U	1989
05S.31E.21.333413	--	-124.75	12-06-89	--	-124.75	1989	-124.75	1989	U	1989
05S.31E.22.433122	--	-132.01	12-06-89	--	-132.01	1989	-132.01	1989	U	1989
05S.31E.24.44242	--	-81.95	12-07-89	--	-81.95	1989	-81.95	1989	U	1989
05S.31E.30.443342	--	-86.57	12-05-89	--	-86.57	1989	-86.57	1989	U	1989
05S.31E.34.22112	--	-49.36	12-06-89	--	-49.36	1989	-49.36	1989	U	1989
05S.31E.34.22422	--	-40.49	12-06-89	--	-40.49	1989	-40.49	1989	U	1989
05S.31E.35.421124	--	-114.33	12-05-89	--	-114.33	1989	-114.33	1989	U	1989
05S.32E.04.444121	--	-49.74	12-12-89	--	-49.74	1989	-49.74	1989	U	1989
05S.32E.06.21112	--	-53.09	12-12-89	--	-53.09	1989	-53.09	1989	U	1989
05S.32E.08.224434	--	-34.33	12-12-89	--	-34.33	1989	-34.33	1989	U	1989
05S.32E.09.422214	--	-52.76	12-12-89	--	-52.76	1989	-52.76	1989	U	1989
05S.32E.10.444342	--	-64.41	1-11-90	--	-64.41	1990	-64.41	1990	U	1990
05S.32E.13.211142	--	-76.95	1-10-90	--	-76.95	1990	-76.95	1990	U	1990
05S.32E.13.343224	--	-40.27	1-10-90	--	-40.27	1990	-40.27	1990	U	1990
05S.32E.17.12232	--	-66.71	12-13-89	--	-66.71	1989	-66.71	1989	U	1989
05S.32E.19.211214	--	-68.58	12-07-89	--	-68.58	1989	-68.58	1989	U	1989
05S.32E.21.244443	--	-41.31	12-13-89	--	-41.31	1989	-41.31	1989	U	1989
05S.32E.23.444214	--	-46.10	1-10-90	--	-46.10	1990	-46.10	1990	U	1990
05S.32E.27.112234	--	-38.34	12-13-89	--	-38.34	1989	-38.34	1989	U	1989
05S.32E.28.332244	--	-40.82	12-13-89	--	-40.82	1989	-40.82	1989	U	1989
05S.32E.32.24441	--	-33.95	12-13-89	--	-33.95	1989	-33.95	1989	U	1989
05S.32E.32.433244	--	-60.77	12-13-89	--	-60.77	1989	-60.77	1989	U	1989
05S.32E.33.242421	--	-44.86	12-13-89	--	-44.86	1989	-44.86	1989	U	1989
05S.33E.03.244312	--	-41.59	12-20-89	--	-41.59	1989	-41.59	1989	U	1989
05S.33E.04.434244	--	-63.56	1-17-90	--	-63.56	1990	-63.56	1990	U	1990

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes High (feet)	Year	Low (feet)	Year	Use of water	Years of record
05S.33E.06.112122	--	-92.24	1-04-90	--	-92.24	1990	-92.24	1990	U	1990
05S.33E.07.44222	--	-102.55	1-10-90	--	-102.55	1990	-102.55	1990	U	1990
05S.33E.12.422222	OGLL	-89.93	12-20-89	-1.31	-88.62	1985	-89.93	1989	S	1975,1980,1985,1989
*05S.33E.13.422422	OGLL	-128.36	2-15-90	+0.92	-128.36	1990	-130.21	1975	I	1975,1980,1985,1990
05S.33E.14.112411	--	-72.61	12-20-89	--	-72.61	1989	-72.61	1989	S	1989
05S.33E.14.422214	--	-78.02	12-20-89	--	-78.02	1989	-78.02	1989	S	1989
05S.33E.15.112314	--	-82.54	12-20-89	--	-82.54	1989	-82.54	1989	S	1989
05S.33E.18.331231	--	-61.15	1-10-90	--	-61.15	1990	-61.15	1990	I	1990
05S.33E.20.11311	--	-66.09	1-10-90	--	-66.09	1990	-66.09	1990	I	1990
05S.33E.24.32230	OGLL	-100.66	12-20-89	+0.01	-100.66	1989	-100.93	1980	U	1975,1980,1985,1989
05S.33E.27.312444	--	-100.19	1-17-90	--	-100.19	1990	-100.19	1990	I	1990
05S.33E.31.442441	--	-149.53	1-10-90	--	-149.53	1990	-149.53	1990	I	1990
05S.33E.32.21113	--	-65.76	1-10-90	--	-65.76	1990	-65.76	1990	I	1990
05S.34E.02.212113	OGLL	-87.05	1-11-90	+3.64	-87.05	1990	-99.47	1964	H	1964,1970,1975,1980,1985,1990
05S.34E.05.32222	OGLL	-85.84	1-17-90	+0.92	-85.84	1990	-92.96	1975	S	1975,1980,1985,1990
05S.34E.06.33123	OGLL	-92.80	12-20-89	+0.63	-92.80	1989	-97.64	1975	U	1975,1980,1985,1989
*05S.34E.08.244444	OGLL	-124.05	1-17-90	+0.71	-123.25	1980	-124.76	1985	S	1975,1980,1985,1990
05S.34E.09.442220	OGLL	-130.28	1-17-90	+0.66	-130.28	1990	-133.84	1975	U	1975,1980,1985,1990
05S.34E.11.21211	OGLL	-67.81	2-16-90	+3.52	-67.81	1990	-74.89	1970	S	1970,1975,1980,1985,1990
*05S.34E.13.312342	OGLL	-114.53	1-05-90	+0.79	-114.53	1990	-118.91	1980	S	1964-65,1970,1975,1980,1985,1990
05S.34E.18.34444	--	-108.19	2-15-90	--	-108.19	1990	-108.19	1990	S	1990
05S.34E.23.111224	OGLL	-113.25	1-11-90	+0.33	-113.25	1990	-114.78	1980	S	1975,1980,1985,1990
05S.34E.24.333332	--	-105.36	1-11-90	--	-105.36	1990	-105.36	1990	S	1990
*05S.34E.27.42212	OGLL	-103.40	2-14-90	+2.66	-103.40	1990	-113.50	1964	S	1964,1970,1980,1985,1990
05S.34E.28.33111	OGLL	-43.49	2-13-90	-0.16	-43.25	1980	-43.49	1990	S	1975,1980,1985,1990
05S.34E.28.41212	--	-111.30	2-13-90	--	-111.30	1990	-111.30	1990	S	1990
*05S.34E.31.333321	OGLL	-32.22	2-14-90	-1.62	-30.60	1985	-32.22	1990	S	1975,1980,1985,1990
05S.34E.32.343424	OGLL	-48.63	2-13-90	+0.60	-47.01	1975	-49.23	1985	H	1975,1980,1985,1990
05S.34E.34.44132	OGLL	-41.15	2-18-90	+1.37	-40.61	1975	-42.52	1985	S	1975,1980,1985,1990
05S.34E.35.22222	--	-102.28	1-12-90	--	-102.28	1990	-102.28	1990	S	1990
05S.34E.36.33343	OGLL	-73.35	1-12-90	+2.17	-73.35	1990	-79.00	1964	U	1956,1964,1970,1975,1980,1985,1990
05S.35E.01.424422	CRCS	-106.84	1-19-90	+2.52	-106.84	1990	-144.55	1964	I	1956,1964,1970,1975,1980,1985,1990
05S.35E.02.22223	OGLL	-103.03	1-24-90	+0.39	-102.48	1964	-103.54	1980	H	1964,1970,1975,1980,1985,1990
05S.35E.02.44241	--	-85.86	1-24-90	--	-85.86	1990	-85.86	1990	H	1990
05S.35E.03.11244	OGLL	-64.95	1-04-90	+0.98	-64.95	1990	-67.08	1975	S	1970,1975,1980,1985,1990
*05S.35E.06.13111	OGLL	-78.26	1-05-90	-0.19	-77.67	1975	-78.26	1990	H	1975,1980,1985,1990
05S.35E.07.11114	OGLL	-106.64	1-05-90	+0.36	-106.64	1990	-108.70	1964	U	1964-65,1970,1975,1980,1985,1990
05S.35E.07.22222	OGLL	-102.44	1-05-90	-1.70	-99.69	1975	-102.44	1990	S	1970,1975,1980,1985,1990
05S.35E.10.13330	OGLL	-143.44	1-05-90	+1.37	-143.44	1990	-146.92	1964	S	1964-65,1970,1975,1980,1985,1990
05S.35E.13.22220	--	-54.58	1-09-90	--	-54.58	1990	-54.58	1990	S	1990

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*05S.35E.14.11113	OGLL	-78.43	1-09-90	+3.72	-78.43	1990	-84.22	1980	S	1975,1980,1985,1990
05S.35E.14.344333	OGLL	-56.12	1-09-90	+3.40	-56.12	1990	-62.74	1972	S	1972,1975,1980,1985,1990
05S.35E.15.331431	CRCS	-73.56	1-09-90	+3.72	-73.56	1990	-83.99	1964	S	1964,1970,1975,1980,1985,1990
05S.35E.16.122234	--	-96.52	1-09-90	--	-96.52	1990	-96.52	1990	S	1990
05S.35E.17.311324	CRCS	-106.30	1-05-90	+1.10	-106.30	1990	-112.49	1975	H	1964,1970,1975,1980,1985,1990
*05S.35E.20.21111	CRCS	-93.42	1-05-90	+0.89	-93.42	1990	-98.18	1964	S	1964,1970,1975,1980,1985,1990
05S.35E.21.43330	CRCS	-66.53	1-11-90	+2.23	-66.53	1990	-72.25	1975	S	1975,1980,1985,1990
*05S.35E.22.34441	OGLL	-66.40	1-11-90	+2.20	-66.40	1990	-72.59	1964	H	1956,1964-65,1970,1975,1980,1985,1990
05S.35E.23.23212	--	-53.41	1-09-90	--	-53.41	1990	-53.41	1990	H	1990
05S.35E.23.34320	OGLL	-29.51	1-18-90	+3.48	-29.51	1990	-34.98	1975	H	1975,1980,1985,1990
05S.35E.24.41413	CRCS	-70.03	1-11-90	+5.76	-67.74	1975	-78.83	1980	S	1975,1980,1985,1990
05S.35E.25.113312	OGLL	-37.12	1-11-90	+3.99	-37.12	1990	-46.96	1975	H	1975,1980,1985,1990
05S.35E.28.44424	CRCS	-79.87	1-12-90	+5.31	-79.87	1990	-87.63	1975	S	1964-65,1970,1975,1980,1985,1990
*05S.35E.30.33434	CRCS	-101.63	1-12-90	+4.45	-101.63	1990	-112.24	1964	S	1964-65,1970,1975,1980,1985,1990
05S.35E.31.422434	CRCS	-83.28	1-12-90	+5.31	-83.28	1990	-92.88	1975	S	1970,1975,1980,1985,1990
05S.35E.32.243431	CRCS	-74.92	1-12-90	+5.66	-74.92	1990	-85.95	1975	U	1956,1970,1975,1980,1985,1990
05S.35E.34.333213	CRCS	-78.22	1-12-90	+5.15	-74.56	1959	-88.73	1975	I	1956-62,1964-75,1980,1985,1990
05S.35E.35.12222	CRCS	-41.42	1-12-90	+6.68	-41.42	1990	-53.79	1976	S	1976,1980,1985,1990
*05S.35E.36.43114	CRCS	-65.07	1-12-90	+7.37	-65.07	1990	-75.40	1980	I	1964-65,1970,1980,1985,1990
05S.36E.02.33434	CRCS	-146.01	1-23-90	+1.98	-145.16	1975	-147.99	1985	U	1970,1975,1980,1985,1990
05S.36E.03.343313	CRCS	-110.33	1-31-90	-1.79	-107.88	1980	-110.33	1990	S	1975,1980,1985,1990
05S.36E.04.12321	CRCS	-116.00	1-30-90	--	-116.00	1990	-123.70	1970	S	1970,1990
05S.36E.05.22114	CRCS	-113.75	1-30-90	-0.35	-113.40	1985	-136.73	1964	S	1964,1970,1975,1980,1985,1990
05S.36E.06.21141	CRCS	-95.87	1-03-90	+3.15	-95.87	1990	-107.69	1964	U	1964,1970,1975,1980,1985,1990
*05S.36E.07.11342	CRCS	-100.38	1-09-90	+2.60	-100.38	1990	-144.14	1961	I	1956-75,1980,1985,1990
05S.36E.08.21141	CRCS	-79.79	1-30-90	+7.78	-79.79	1990	-88.53	1975	S	1964,1970,1975,1980,1985,1990
*05S.36E.10.421221	CRCS	-168.92	1-30-90	+4.32	-163.97	1957	-184.44	1965	I	1957-75,1980-81,1984-90
*05S.36E.14.42221	CRCS	-139.24	1-31-90	-3.74	-135.50	1985	-167.01	1970	I	1956,1964-65,1970,1975,1980,1985,1990
05S.36E.15.421212	CRCS	-79.86	1-26-90	+1.52	-79.86	1990	-81.41	1980	S	1975,1980,1985,1990
05S.36E.17.12122	CRCS	-77.43	1-23-90	+1.31	-77.43	1990	-81.96	1970	S	1970,1975,1980,1985,1990
05S.36E.17.343133	CRCS	-45.43	1-23-90	+2.12	-45.43	1990	-50.16	1970	S	1970,1975,1980,1985,1990
05S.36E.22.333332	OGLL	-36.75	1-18-90	+5.55	-36.75	1990	-56.51	1964	U	1956,1964-65,1970,1975,1980,1985,1990
05S.36E.23.333343A	CRCS	-37.29	1-18-90	+5.11	-37.29	1990	-46.34	1975	I	1975,1980,1985,1990
05S.36E.24.21111	CRCS	-68.95	1-26-90	+1.80	-68.95	1990	-72.68	1975	S	1975,1980,1985,1990
*05S.36E.28.334121	OGLL	-17.11	1-18-90	+3.01	-17.11	1990	-24.87	1980	S	1975,1980,1985,1990
05S.36E.29.21310	OGLL	-22.97	1-18-90	+0.82	-22.97	1990	-27.97	1980	S	1975,1980,1985,1990
05S.36E.29.42420	OGLL	-22.79	1-18-90	+2.96	-22.79	1990	-39.74	1964	S	1964-65,1970,1975,1980,1985,1990
05S.36E.30.112113	OGLL	-39.85	1-18-90	+4.31	-39.85	1990	-47.82	1976	H	1976,1980,1985,1990
05S.36E.31.222214	OGLL	-27.26	1-12-90	+0.29	-27.26	1990	-30.53	1980	U	1975,1980,1985,1990
05S.36E.31.42241	OGLL	-32.15	1-12-90	+0.76	-32.15	1990	-39.23	1964	S	1964-65,1970,1975,1980,1985,1990

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
05S.36E.35.423241	--	-80.21	2-01-90	--	-80.21	1990	-80.21	1990	I	1990
05S.37E.02.34342	CRCS	-120.51	1-31-90	+2.43	-120.51	1990	-122.96	1980	I	1980,1985,1990
05S.37E.03.12130	OGLL	-106.44	1-26-90	-0.26	-105.19	1980	-106.44	1990	S	1975,1980,1985,1990
05S.37E.03.33413	CRCS	-123.27	1-26-90	+4.62	-123.27	1990	-134.61	1964	S	1964-65,1970,1975,1980,1985,1990
05S.37E.05.31344	CRCS	-118.27	1-31-90	+0.67	-117.91	1975	-118.94	1985	S	1975,1980,1985,1990
05S.37E.07.34141	CRCS	-106.03	1-31-90	+0.46	-106.03	1990	-107.23	1980	H	1964-65,1970,1975,1980,1985,1990
*05S.37E.08.242412	CRCS	-110.57	1-26-90	+0.83	-110.57	1990	-115.12	1964	U	1956,1964-65,1970,1975,1980,1985,1990
05S.37E.08.34324	CRCS	-102.64	1-26-90	+0.83	-102.64	1990	-103.47	1985	S	1975,1980,1985,1990
05S.37E.15.111321	CRCS	-89.32	1-24-90	+1.64	-89.32	1990	-91.34	1975	S	1964-65,1970,1975,1980,1985,1990
05S.37E.15.13333	OGLL	-70.44	1-24-90	+0.19	-70.44	1990	-71.73	1980	U	1970,1975,1980,1985,1990
05S.37E.18.311113	CRCS	-140.29	1-26-90	+0.61	-123.27	1955	-142.62	1980	U	1955-56,1970,1975,1980,1985,1990
05S.37E.20.111114	CRCS	-80.62	1-25-90	+0.99	-80.62	1990	-83.49	1970	S	1964-65,1970,1975,1980,1985,1990
05S.37E.21.113124	OGLL	-72.91	1-25-90	+1.91	-72.91	1990	-74.82	1985	H	1975,1980,1985,1990
05S.37E.21.33333	CRCS	-88.71	1-24-90	+5.17	-88.09	1965	-94.17	1966	I	1965-75,1980,1985,1990
*05S.37E.23.42442	CRCS	-130.96	1-24-90	+1.42	-130.90	1980	-132.38	1985	I	1980,1985,1990
05S.37E.26.412244	CRCS	-119.09	1-24-90	+5.11	-119.09	1990	-124.20	1985	I	1980,1985,1990
*05S.37E.27.11111	OGLL	-52.83	1-24-90	+1.70	-52.83	1990	-55.12	1975	S	1975,1980,1985,1990
05S.37E.27.33333	CRCS	-83.99	1-24-90	+4.20	-78.63	1964	-88.19	1985	I	1956,1964-65,1970,1975,1980,1985,1990
*05S.37E.29.11111	CRCS	-100.45	1-25-90	+2.86	-100.05	1970	-103.57	1980	I	1956,1970,1975,1980,1985,1990
05S.37E.30.311333	CRCS	-100.36	1-18-90	+4.72	-100.36	1990	-107.84	1980	I	1975,1980,1985,1990
05S.37E.31.11122	CRCS	-87.09	1-19-90	+3.46	-82.07	1958	-94.00	1980	I	1956-75,1980,1985,1990
05S.37E.31.44433	CRCS	-101.45	1-24-90	+1.68	-98.03	1964	-103.13	1985	I	1964-65,1970,1975,1980,1985,1990
05S.37E.32.13333	CRCS	-104.15	1-24-90	+1.40	-95.38	1957	-105.55	1985	I	1956-58,1960-75,1980,1985,1990
*05S.37E.33.112112	CRCS	-98.57	1-24-90	+2.51	-84.01	1956	-107.68	1984	I	1956-68,1970-75,1980,1982-90
05S.37E.35.232222	OGLL	-88.84	1-24-90	+7.34	-88.84	1990	-96.18	1985	U	1980,1985,1990
06S.31E.10.11300	--	-146.67	11-16-89	--	-146.67	1989	-146.67	1989	I	1989
06S.31E.11.31300	--	-69.57	11-16-89	--	-69.57	1989	-69.57	1989	I	1989
06S.31E.12.33112	--	-73.51	11-16-89	--	-73.51	1989	-73.51	1989	I	1989
06S.31E.16.41230	--	-107.25	11-16-89	--	-107.25	1989	-107.25	1989	I	1989
06S.31E.22.112112	--	-120.37	11-16-89	--	-120.37	1989	-120.37	1989	I	1989
06S.32E.06.21243	--	-59.95	11-14-89	--	-59.95	1989	-59.95	1989	I	1989
06S.32E.07.414442A	--	-55.22	11-14-89	--	-55.22	1989	-55.22	1989	I	1989
06S.32E.08.441234	--	-31.94	11-15-89	--	-31.94	1989	-31.94	1989	I	1989
06S.32E.13.12342	--	-105.49	12-01-89	--	-105.49	1989	-105.49	1989	I	1989
06S.32E.16.311121	--	-37.55	11-15-89	--	-37.55	1989	-37.55	1989	I	1989
06S.32E.17.313433	--	-60.95	11-14-89	--	-60.95	1989	-60.95	1989	I	1989
06S.32E.25.211112	--	-185.40	12-06-89	--	-185.40	1989	-185.40	1989	I	1989
06S.32E.27.442443	--	-153.67	11-30-89	--	-153.67	1989	-153.67	1989	I	1989
06S.32E.28.233331	--	-85.76	11-15-89	--	-85.76	1989	-85.76	1989	I	1989
06S.32E.29.44332	--	-86.48	11-15-89	--	-86.48	1989	-86.48	1989	I	1989

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
06S.32E.33.111131	--	-82.88	11-15-89	--	-82.88	1989	-82.88	1989	I	1989
06S.32E.34.442443	--	-177.43	11-29-89	--	-177.43	1989	-177.43	1989	I	1989
06S.32E.35.32314	--	-168.77	11-30-89	--	-168.77	1989	-168.77	1989	I	1989
06S.33E.07.331234	--	-107.45	12-01-89	--	-107.45	1989	-107.45	1989	I	1989
06S.33E.11.113142	--	-154.00	12-07-89	--	-154.00	1989	-154.00	1989	I	1989
06S.33E.12.13341	--	-161.02	12-07-89	--	-161.02	1989	-161.02	1989	I	1989
06S.33E.13.111122	--	-153.89	12-07-89	--	-153.89	1989	-153.89	1989	I	1989
06S.33E.15.23112	--	-172.83	12-07-89	--	-172.83	1989	-172.83	1989	I	1989
06S.33E.17.224242	--	-145.12	12-01-89	--	-145.12	1989	-145.12	1989	I	1989
06S.33E.19.311321	--	-180.00	12-06-89	--	-180.00	1989	-180.00	1989	I	1989
06S.33E.21.233434	--	-165.08	12-01-89	--	-165.08	1989	-165.08	1989	I	1989
06S.33E.24.133333	--	-174.46	12-05-89	--	-174.46	1989	-174.46	1989	I	1989
06S.33E.32.344341	--	-165.27	11-17-89	--	-165.27	1989	-165.27	1989	I	1989
06S.33E.35.422332	--	-175.18	12-05-89	--	-175.18	1989	-175.18	1989	I	1989
06S.34E.12.124242	--	-52.33	1-17-90	--	-52.33	1990	-52.33	1990	U	1990
06S.34E.15.111222	--	-220.21	12-19-89	--	-220.21	1989	-220.21	1989	I	1989
*06S.34E.22.224233	OGLL	-151.47	12-19-89	+2.16	-151.47	1989	-155.14	1980	S	1980,1985,1989
06S.34E.24.22443	CRCS	-120.28	12-20-89	+8.83	-120.28	1989	-137.30	1975	S	1970,1975,1985,1989
06S.34E.26.22222	OGLL	-134.63	12-20-89	+0.53	-134.63	1989	-136.69	1975	S	1975,1980,1985,1989
06S.34E.26.344124	OGLL	-151.88	12-20-89	+0.76	-151.88	1989	-157.00	1980	S	1980,1985,1989
06S.34E.30.44342	--	-172.57	2-02-90	--	-172.57	1990	-172.57	1990	U	1990
06S.34E.32.13233	--	-174.97	2-02-90	--	-174.97	1990	-174.97	1990	U	1990
06S.34E.36.144224	--	-189.75	12-20-89	--	-189.75	1989	-189.75	1989	S	1989
06S.35E.02.112424	--	-73.89	12-12-89	--	-73.89	1989	-73.89	1989	S	1989
06S.35E.07.142431	OGLL	-64.98	12-20-89	+0.76	-64.98	1989	-66.71	1980	S	1970,1980,1984-85,1989
06S.35E.10.343422	OGLL	-60.95	12-13-89	--	-60.95	1989	-60.95	1989	S	1970,1989
*06S.35E.10.444414	CRCS	-82.18	12-12-89	+8.27	-82.18	1989	-97.25	1964	H	1956,1964,1970,1975,1980,1985,1989
06S.35E.11.43424	CRCS	-85.15	12-12-89	+4.89	-85.15	1989	-95.56	1970	H	1964,1970,1975,1980,1985,1989
06S.35E.12.413441	CRCS	-79.89	12-13-89	+6.22	-79.89	1989	-93.66	1970	I	1956,1970,1975,1980,1985,1989
06S.35E.13.144123	CRCS	-61.46	12-13-89	+6.06	-61.46	1989	-74.93	1964	H	1964,1970,1975,1980,1985,1989
06S.35E.13.21231	--	-70.39	12-13-89	--	-70.39	1989	-70.39	1989	H	1989
06S.35E.14.433124	CRCS	-83.19	12-13-89	+3.30	-83.19	1989	-89.95	1975	S	1975,1980,1985,1989
*06S.35E.17.44343	CRCS	-93.18	12-19-89	+0.64	-93.18	1989	-95.43	1964	S	1964,1970,1975,1980,1985,1989
06S.35E.19.24244	CRCS	-100.70	12-19-89	--	-97.20	1975	-100.70	1989	S	1975,1980,1985,1989
06S.35E.21.331123	CRCS	-104.96	12-13-89	+1.77	-104.96	1989	-106.73	1985	H	1970,1975,1980,1985,1989
06S.35E.22.34213	CRCS	-106.57	12-13-89	+0.73	-106.57	1989	-110.65	1975	S	1975,1980,1985,1989
06S.35E.23.42230	--	-84.51	12-13-89	--	-84.51	1989	-84.51	1989	S	1989
06S.35E.25.22214	CRCS	-147.62	12-13-89	+1.15	-147.62	1989	-150.80	1975	H	1970,1975,1980,1985,1989
*06S.35E.26.22222	CRCS	-83.94	12-13-89	+4.13	-83.94	1989	-97.02	1970	S	1970,1975,1980,1985,1989
06S.35E.26.33321	--	-186.59	12-13-89	--	-186.59	1989	-186.59	1989	S	1989

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
06S.35E.30.312441	CRCS	-131.59	12-20-89	+0.18	-131.59	1989	-132.34	1965	U	1964-65,1970,1975,1980,1985,1989
*06S.35E.31.212344	CRCS	-185.81	12-20-89	-0.64	-185.17	1985	-186.09	1980	S	1975,1980,1985,1989
06S.35E.33.23410	CRCS	-202.29	12-13-89	+1.74	-202.29	1989	-206.40	1975	S	1975,1980,1985,1989
06S.35E.34.22220	CRCS	-177.05	12-13-89	+1.93	-177.05	1989	-180.38	1980	U	1980,1985,1989
06S.36E.02.112142	--	-41.96	1-03-90	--	-41.96	1990	-41.96	1990	U	1990
06S.36E.09.242214	--	-82.56	1-04-90	--	-82.56	1990	-82.56	1990	I	1990
06S.36E.10.31222	OGLL	-88.57	1-04-90	+3.07	-81.30	1970	-91.64	1985	S	1956,1970,1975,1980,1985,1990
06S.36E.11.214122	--	-54.84	1-03-90	--	-54.84	1990	-54.84	1990	S	1990
06S.36E.14.12434	CRCS	-69.72	1-03-90	+5.31	-69.72	1990	-76.99	1980	I	1980,1985,1990
06S.36E.14.211412	CRCS	-76.91	1-03-90	+5.87	-74.52	1970	-85.16	1980	I	1970,1980,1985,1990
*06S.36E.14.341133	CRCS	-72.06	1-04-90	+5.82	-59.89	1964	-78.90	1980	I	1956,1964,1970,1975,1980,1985,1990
06S.36E.15.332244	CRCS	-100.04	1-04-90	+9.53	-69.49	1959	-109.57	1985	I	1956-62,1964-66,1968-75,1980,1985,1990
06S.36E.16.22433	CRCS	-102.16	1-04-90	+10.49	-101.94	1975	-112.65	1985	I	1975,1980,1985,1990
06S.36E.16.412242	--	-100.22	1-04-90	--	-100.22	1990	-100.22	1990	I	1990
*06S.36E.17.11443	CRCS	-97.32	1-04-90	+2.06	-97.32	1990	-104.24	1970	S	1970,1975,1980,1985,1990
06S.36E.17.44131	CRCS	-98.05	1-30-90	+0.94	-98.05	1990	-102.10	1964	S	1964,1970,1976,1980,1985,1990
06S.36E.19.233132	CRCS	-64.18	12-13-89	+0.31	-64.18	1989	-70.13	1964	H	1964,1970,1975,1980,1985,1989
06S.36E.22.11110	--	-92.30	1-30-90	--	-92.30	1990	-92.30	1990	S	1990
06S.36E.22.224222	--	-58.48	1-30-90	--	-58.48	1990	-58.48	1990	S	1990
06S.36E.22.343434	CRCS	-112.80	1-05-90	+2.28	-112.80	1990	-115.95	1980	I	1980,1985,1990
06S.36E.24.143424	OGLL	-85.63	2-01-90	+4.57	-85.63	1990	-94.28	1964	S	1964,1970,1975,1980,1985,1990
06S.36E.28.411133	CRCS	-143.55	1-05-90	+1.53	-143.55	1990	-150.30	1964	I	1956,1964,1970,1975,1980,1985,1990
*06S.36E.32.344113	CRCS	-181.53	1-26-90	+1.52	-181.53	1990	-184.79	1975	S	1970,1975,1980,1985,1990
*06S.36E.34.213112	CRCS	-139.02	2-01-90	+1.36	-139.02	1990	-142.45	1975	S	1975,1980,1985,1990
06S.37E.07.323433	CRCS	-65.83	1-18-90	+14.95	-65.83	1990	-85.76	1970	I	1970,1975,1980,1985,1990
*06S.37E.07.422222	CRCS	-51.89	1-18-90	+16.52	-51.89	1990	-77.08	1980	I	1970,1980,1985,1990
06S.37E.08.124231	CRCS	-45.03	1-18-90	+21.09	-45.03	1990	-92.96	1970	I	1970,1975,1980,1985,1990
06S.37E.09.11133	CRCS	-47.48	1-25-90	+19.27	-47.48	1990	-94.38	1970	I	1964,1970,1985,1990
06S.37E.09.22222	CRCS	-63.92	1-25-90	+13.83	-63.92	1990	-94.39	1975	S	1970,1975,1980,1985,1990
*06S.37E.10.34124	CRCS	-94.44	1-25-90	+7.89	-94.44	1990	-105.03	1975	S	1975,1980,1985,1990
*06S.37E.12.24120	CRCS	-92.30	1-24-90	+0.63	-87.25	1964	-93.26	1980	H	1964-65,1970,1975,1980,1985,1990
06S.37E.14.13214	CRCS	-92.13	1-17-90	+4.45	-92.13	1990	-97.24	1980	U	1975,1980,1985,1990
06S.37E.14.23442	--	-87.86	1-17-90	--	-87.86	1990	-87.86	1990	U	1990
06S.37E.19.22222	OGLL	-101.60	2-01-90	+7.46	-101.60	1990	-111.86	1975	S	1975,1980,1985,1990
06S.37E.21.111311	OGLL	-83.43	2-01-90	+6.15	-83.43	1990	-92.02	1975	U	1975,1980,1985,1990
*06S.37E.21.344342	CRCS	-106.13	1-22-90	+3.13	-106.13	1990	-110.63	1980	I	1964,1970,1975,1980,1985,1990
06S.37E.22.233443	CRCS	-100.20	1-23-90	+4.13	-100.20	1990	-108.39	1970	I	1956,1970,1975,1980,1985,1990
06S.37E.22.443433	CRCS	-101.31	1-23-90	+4.64	-101.31	1990	-114.07	1965	I	1956-75,1980,1985,1990
06S.37E.23.233333	CRCS	-93.77	1-23-90	+4.44	-93.77	1990	-109.35	1970	I	1956,1970,1975,1980,1985,1990
*06S.37E.25.113114	CRCS	-105.26	1-25-90	+3.72	-105.26	1990	-111.10	1970	I	1970,1975,1980,1985,1990

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
06S.37E.27.441313	CRCS	-109.72	1-23-90	+3.70	-109.72	1990	-114.59	1975	I	1970,1975,1980,1985,1990
06S.37E.28.422222	CRCS	-109.02	1-23-90	+3.38	-109.02	1990	-113.65	1980	I	1975,1980,1985,1990
06S.37E.29.13324	CRCS	-117.78	1-23-90	+3.01	-117.78	1990	-121.56	1980	I	1975,1980,1985,1990
*06S.37E.31.31213	CRCS	-128.96	2-08-90	+2.22	-128.96	1990	-131.70	1964	S	1964-65,1970,1975,1980,1985,1990
06S.37E.35.431311	--	-122.57	1-25-90	--	-122.57	1990	-122.57	1990	S	1990
06S.37E.36.11211	CRCS	-99.55	1-25-90	+2.88	-99.55	1990	-102.43	1985	S	1970,1975,1980,1985,1990
06S.38E.05.12211	CRCS	-98.48	1-24-90	+0.65	-82.69	1956	-99.13	1985	I	1956-59,1961-75,1980,1985,1990
06S.38E.08.13313	CRCS	-97.15	1-24-90	+3.87	-87.60	1957	-101.02	1985	I	1956-65,1967-75,1980,1985,1990
*06S.38E.09.133333	CRCS	-92.29	1-25-90	+5.49	-79.37	1956	-97.98	1980	I	1956-75,1980,1985,1990
06S.38E.09.33343	CRCS	-86.20	1-25-90	+6.18	-78.07	1964	-92.38	1985	I	1956,1964-65,1970,1975,1980,1985,1990
06S.38E.10.132232	CRCS	-82.73	1-24-90	+8.02	-81.77	1970	-90.75	1985	I	1970,1975,1980,1985,1990
06S.38E.10.33221	CRCS	-83.02	2-06-90	+8.72	-82.27	1970	-91.74	1985	I	1970,1975,1980,1985,1990
06S.38E.16.433441	--	-79.14	1-24-90	--	-79.14	1990	-79.14	1990	I	1990
06S.38E.17.132333	CRCS	-88.05	1-25-90	+4.55	-87.57	1970	-92.60	1985	I	1956,1970,1975,1980,1985,1990
06S.38E.17.43332	CRCS	-81.46	1-24-90	+4.45	-76.52	1964	-85.91	1985	I	1956,1964-65,1970,1975,1980,1985,1990
06S.38E.18.11222	CRCS	-97.66	1-24-90	+4.16	-88.60	1957	-101.82	1985	I	1956-75,1980,1985,1990
06S.38E.19.112442	CRCS	-82.77	1-24-90	+2.80	-81.57	1964	-85.62	1980	I	1964-65,1970,1975,1980,1985,1990
06S.38E.20.332211	CRCS	-66.53	1-24-90	+3.46	-66.53	1990	-69.99	1985	I	1975,1980,1985,1990
*06S.38E.21.233131	CRCS	-92.58	1-24-90	+5.22	-87.18	1956	-101.38	1983	I	1956-66,1968-90
06S.38E.22.341222	CRCS	-93.31	1-24-90	+5.29	-93.31	1990	-98.71	1975	I	1970,1975,1980,1985,1990
06S.38E.31.12121	CRCS	-108.57	1-25-90	+3.67	-108.57	1990	-113.13	1970	U	1970,1975,1980,1985,1990
*06S.38E.32.344414	CRCS	-128.98	1-25-90	+2.04	-128.98	1990	-134.58	1975	S	1975,1980,1985,1990
07S.32E.05.22220	--	-173.59	11-30-89	--	-173.59	1989	-173.59	1989	I	1989
07S.32E.07.11130	--	-160.21	11-29-89	--	-160.21	1989	-160.21	1989	I	1989
07S.32E.12.222444	--	-143.23	12-06-89	--	-143.23	1989	-143.23	1989	I	1989
07S.32E.14.122113	--	-160.95	12-08-89	--	-160.95	1989	-160.95	1989	I	1989
07S.32E.22.14212	--	-188.86	12-12-89	--	-188.86	1989	-188.86	1989	I	1989
07S.32E.24.43312	--	-98.56	12-06-89	--	-98.56	1989	-98.56	1989	I	1989
07S.32E.29.221234	--	-269.50	12-08-89	--	-269.50	1989	-269.50	1989	I	1989
07S.32E.33.344332	--	-204.45	12-08-89	--	-204.45	1989	-204.45	1989	I	1989
07S.33E.05.422324	--	-172.25	12-06-89	--	-172.25	1989	-172.25	1989	I	1989
07S.33E.07.331424	--	-118.66	12-06-89	--	-118.66	1989	-118.66	1989	I	1989
*07S.33E.12.344334	OGLL	-209.20	1-10-90	+8.33	-209.20	1990	-227.05	1980	S	1980,1985,1990
07S.33E.16.443224	--	-231.88	1-10-90	--	-231.88	1990	-231.88	1990	S	1990
07S.33E.18.33222	--	-93.04	12-06-89	--	-93.04	1989	-93.04	1989	I	1989
07S.33E.35.424143	--	-220.59	1-11-90	--	-220.59	1990	-220.59	1990	S	1990
07S.33E.36.143433	--	-212.88	1-10-90	--	-212.88	1990	-212.88	1990	S	1990
*07S.34E.08.243321	CRCS	-186.55	2-02-90	+0.39	-186.55	1990	-193.24	1973	I	1973,1975,1980,1985,1990
07S.34E.10.111132	CRCS	-192.60	2-02-90	+1.26	-192.60	1990	-194.66	1980	S	1975,1980,1985,1990
*07S.34E.12.42214	CRCS	-189.15	2-02-90	+0.55	-189.15	1990	-190.30	1975	S	1975,1980,1985,1990

Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
07S.34E.17.212312	CRCS	-189.73	2-02-90	+1.25	-189.73	1990	-191.88	1975	S	1975,1980,1985,1990
07S.34E.22.342414	--	-173.98	1-11-90	--	-173.98	1990	-173.98	1990	S	1990
*07S.34E.24.431142	OGLL	-180.32	1-11-90	-0.29	-180.03	1985	-180.88	1980	S	1980,1985,1990
07S.34E.26.231134	OGLL	-178.20	1-11-90	-0.18	-178.02	1985	-185.78	1980	S	1980,1985,1990
*07S.34E.28.143113	OGLL	-83.31	1-11-90	-0.68	-82.35	1980	-83.31	1990	S	1980,1985,1990
07S.34E.28.233134	--	-82.73	1-11-90	--	-82.73	1990	-82.73	1990	S	1990
07S.34E.32.121212	CRCS	-96.05	2-02-90	-0.25	-95.80	1985	-96.85	1980	S	1980,1985,1990
*07S.34E.35.433313	CRCS	-71.26	1-11-90	+4.80	-71.07	1980	-76.06	1985	H	1980,1985,1990
07S.34E.36.323242	CRCS	-70.40	1-11-90	-0.47	-69.93	1985	-70.40	1990	S	1980,1985,1990
*07S.35E.01.11241	CRCS	-200.81	1-26-90	+2.21	-165.20	1970	-205.08	1975	H	1970,1975,1980,1985,1990
07S.35E.07.32113	--	-191.43	2-02-90	--	-191.43	1990	-191.43	1990	H	1990
*07S.35E.09.12241	CRCS	-200.10	2-07-90	+1.10	-200.10	1990	-201.76	1980	S	1975,1980,1985,1990
07S.35E.10.22222	--	-198.54	2-07-90	--	-198.54	1990	-198.54	1990	S	1990
07S.35E.11.111212	CRCS	-198.63	2-07-90	+1.62	-198.63	1990	-201.36	1980	H	1975,1980,1985,1990
07S.35E.12.111111	CRCS	-194.74	1-26-90	+1.73	-194.74	1990	-198.83	1975	S	1975,1980,1985,1990
07S.35E.17.142113	CRCS	-192.19	2-07-90	+0.66	-192.19	1990	-193.89	1980	S	1975,1980,1985,1990
07S.35E.23.221422	OGLL	-198.66	2-07-90	--	-198.66	1990	-198.66	1990	S	1980,1985,1990
*07S.35E.26.333323	OGLL	-48.16	2-07-90	+2.19	-48.16	1990	-52.46	1980	I	1980,1985,1990
07S.35E.29.122222	OGLL	-157.67	2-07-90	+2.79	-157.67	1990	-163.13	1980	S	1980,1985,1990
07S.35E.31.333333	OGLL	-53.39	2-07-90	+1.81	-53.39	1990	-55.20	1985	S	1980,1985,1990
07S.35E.34.444441	OGLL	-123.70	2-07-90	--	-123.70	1990	-126.43	1980	S	1980,1989-90
07S.36E.01.41143	OGLL	-168.46	2-01-90	+0.76	-155.77	1980	-169.43	1985	S	1980,1985,1990
07S.36E.03.11111	OGLL	-166.58	2-01-90	+1.27	-166.58	1990	-170.39	1970	S	1970,1975,1980,1985,1990
07S.36E.05.33242	CRCS	-168.97	2-07-90	+1.63	-168.97	1990	-172.83	1980	I	1975,1980,1985,1990
07S.36E.10.112124	OGLL	-180.59	2-01-90	+1.50	-180.59	1990	-182.18	1980	H	1980,1985,1990
*07S.36E.11.41113	OGLL	-185.71	2-01-90	+0.73	-185.71	1990	-186.99	1970	S	1970,1975,1980,1985,1990
07S.36E.23.323221	OGLL	-185.16	2-14-90	+0.26	-184.58	1980	-185.42	1985	S	1980,1985,1990
07S.36E.24.43331	OGLL	-179.20	2-14-90	--	-179.20	1990	-182.19	1980	S	1980,1985,1990
*07S.36E.27.424231	OGLL	-186.99	2-08-90	-1.11	-185.88	1985	-186.99	1990	U	1980,1985,1990
07S.36E.28.143433A	--	-184.81	2-08-90	--	-184.81	1990	-184.81	1990	U	1990
*07S.36E.29.11413	OGLL	-184.92	2-15-90	+0.88	-184.92	1990	-187.03	1980	S	1980,1985,1990
07S.36E.36.33113	OGLL	-153.82	2-08-90	+1.14	-153.82	1990	-175.02	1980	S	1980,1985,1990
*07S.37E.01.331333	CRCS	-145.10	1-30-90	+1.86	-145.10	1990	-146.96	1985	S	1975,1980,1985,1990
*07S.37E.04.244132	CRCS	-128.98	2-09-90	+1.34	-128.98	1990	-130.32	1985	S	1975,1980,1985,1990
07S.37E.08.312243	OGLL	-172.08	2-15-90	+0.56	-172.08	1990	-173.00	1980	S	1980,1985,1990
07S.37E.09.242323	CRCS	-148.80	2-09-90	+0.34	-148.80	1990	-149.14	1980	S	1975,1980,1985,1990
07S.37E.13.131214	CRCS	-159.80	1-31-90	+0.96	-159.80	1990	-161.30	1975	I	1975,1980,1985,1990
07S.37E.15.214422	CRCS	-172.57	2-15-90	+0.30	-172.57	1990	-173.60	1975	S	1975,1980,1985,1990
07S.37E.18.14414	CRCS	-178.09	2-15-90	+4.53	-178.09	1990	-182.62	1985	S	1975,1980,1985,1990
07S.37E.19.133434	OGLL	-188.20	2-14-90	-0.03	-188.17	1985	-188.42	1980	S	1980,1985,1990

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Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Continued

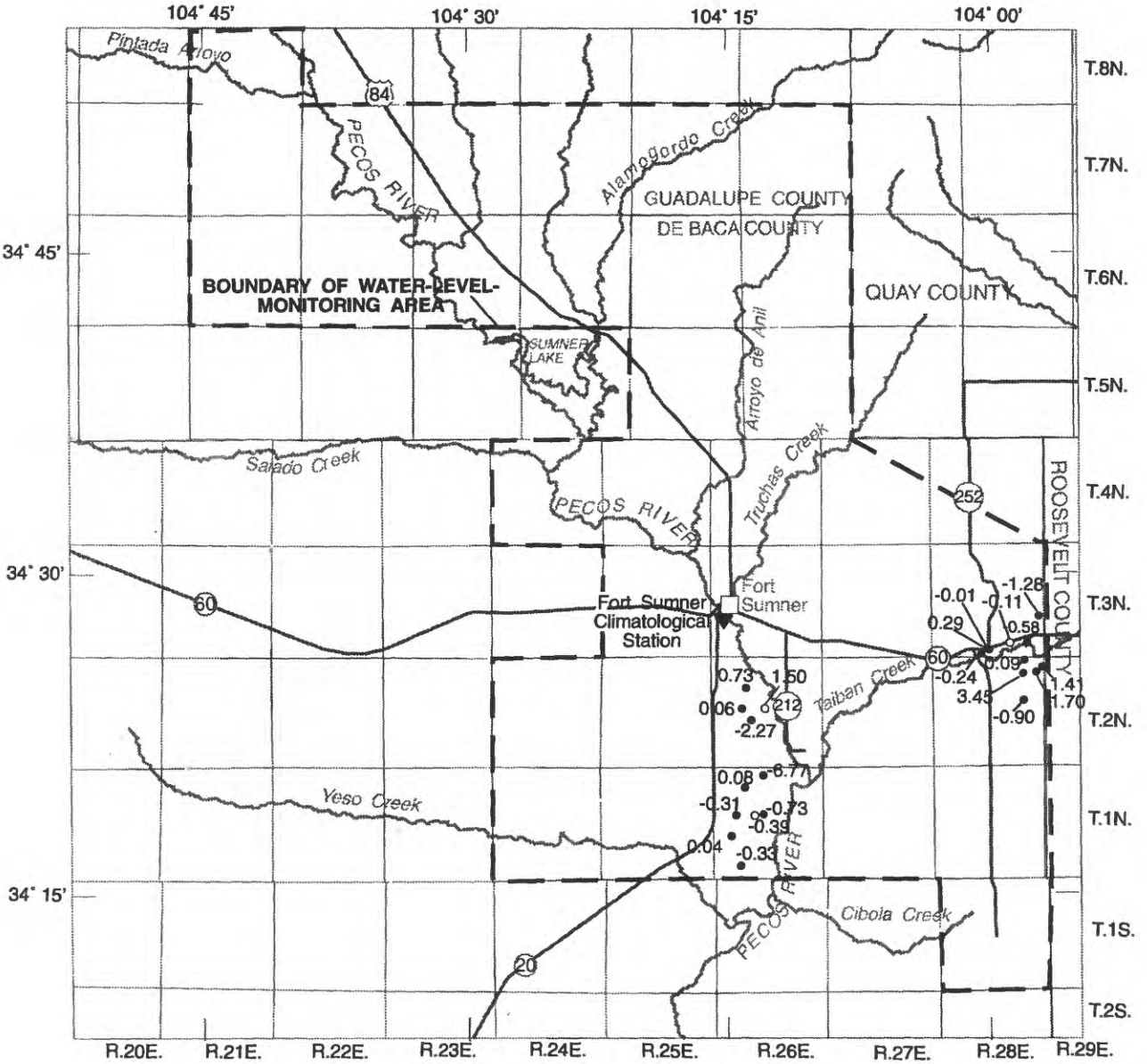
Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*07S.37E.28.122113	CRCS	-175.73	2-14-90	+1.25	-175.73	1990	-178.58	1980	S	1980,1985,1990
07S.37E.29.11110	CRCS	-181.10	2-14-90	+0.05	-181.10	1990	-186.95	1980	S	1980,1985,1990
07S.37E.32.134131	CRCS	-169.31	2-14-90	+7.70	-169.31	1990	-184.03	1980	S	1980,1985,1990
07S.38E.04.443321	CRCS	-143.68	2-01-90	+2.98	-143.68	1990	-148.92	1980	I	1980,1985,1990
07S.38E.07.234211	CRCS	-151.71	1-31-90	+2.03	-151.71	1990	-155.85	1975	S	1975,1980,1985,1990
07S.38E.09.31224	CRCS	-137.62	1-31-90	+2.33	-137.62	1990	-143.34	1975	S	1975,1980,1985,1990
*07S.38E.16.11144	CRCS	-143.17	1-31-90	+2.31	-143.17	1990	-149.58	1975	S	1975,1980,1985,1990
07S.38E.17.142332	CRCS	-144.81	1-31-90	+2.49	-144.81	1990	-148.83	1980	I	1975,1980,1985,1990
07S.38E.18.23141	CRCS	-154.51	1-31-90	+1.24	-154.51	1990	-159.02	1975	S	1975,1980,1985,1990
*08S.33E.25.42422	OGLL	-147.93	11-29-89	-0.53	-147.40	1985	-147.93	1989	S	1980,1985,1989
08S.34E.02.42224	OGLL	-64.55	11-29-89	+0.72	-64.55	1989	-65.34	1980	H	1980,1985,1989
08S.34E.04.11233	OGLL	-66.22	11-29-89	-1.42	-63.90	1980	-66.22	1989	I	1980,1985,1989
*08S.34E.09.334332	OGLL	-94.12	11-29-89	-0.82	-92.85	1980	-94.12	1989	H	1980,1985,1989
08S.34E.10.11323	OGLL	-67.82	11-29-89	-1.07	-66.75	1985	-67.82	1989	S	1980,1985,1989
*08S.34E.13.311114	CRCS	-84.09	11-29-89	+1.64	-84.09	1989	-86.57	1980	U	1980,1985,1989
08S.34E.22.412144	CRCS	-108.12	11-29-89	-0.02	-108.10	1985	-108.76	1980	S	1980,1985,1989
08S.34E.24.133242	CRCS	-160.14	11-30-89	-1.39	-141.77	1980	-160.14	1989	U	1980,1985,1989
*08S.34E.26.24321	CRCS	-110.85	11-29-89	+0.96	-110.85	1989	-113.54	1980	U	1980,1985,1989
*08S.35E.04.34312	CRCS	-83.81	11-30-89	+0.79	-83.81	1989	-84.60	1985	S	1980,1985,1989
08S.35E.07.11344	--	-46.04	11-30-89	--	-46.04	1989	-46.04	1989	S	1989
08S.35E.10.411333	CRCS	-87.78	12-01-89	+1.17	-80.56	1980	-88.95	1985	H	1980,1985,1989
08S.35E.11.112214	CRCS	-68.98	11-30-89	+1.57	-68.98	1989	-71.13	1980	U	1980,1985,1989
08S.35E.17.13142	--	-60.30	11-30-89	--	-60.30	1989	-60.30	1989	U	1989
*08S.35E.20.23333	CRCS	-93.17	11-30-89	+1.39	-93.17	1989	-95.40	1980	S	1980,1985,1989
08S.35E.21.343322	CRCS	-101.79	11-30-89	+0.61	-101.79	1989	-103.64	1980	S	1980,1985,1989
*08S.35E.26.311112	CRCS	-116.59	12-01-89	+0.91	-116.59	1989	-117.89	1980	S	1980,1985,1989
08S.35E.27.111313	CRCS	-101.89	11-30-89	+1.41	-101.89	1989	-104.19	1980	S	1980,1985,1989
*08S.36E.03.444421	CRCS	-117.79	12-01-89	+1.29	-117.79	1989	-123.95	1980	U	1980,1985,1989
*08S.36E.07.111433	CRCS	-136.58	12-01-89	-4.29	-132.29	1985	-136.58	1989	S	1980,1985,1989
08S.36E.09.111412	CRCS	-159.46	12-01-89	+1.91	-159.46	1989	-163.08	1980	S	1980,1985,1989
08S.36E.12.121241	CRCS	-81.82	12-01-89	+6.07	-81.82	1989	-94.64	1980	U	1980,1985,1989
08S.36E.15.324433	CRCS	-82.05	12-01-89	+1.45	-82.05	1989	-84.66	1980	U	1980,1985,1989
*08S.36E.20.444434	CRCS	-105.40	12-14-89	+3.60	-105.40	1989	-120.16	1980	U	1980,1985,1989
*08S.36E.23.222114	CRCS	-104.55	12-14-89	+10.12	-104.55	1989	-114.67	1985	S	1980,1985,1989
08S.36E.33.113223	CRCS	-173.70	12-07-89	-0.55	-172.86	1980	-173.70	1989	U	1980,1985,1989
*08S.36E.35.433341	CRCS	-97.00	12-07-89	+0.82	-97.00	1989	-97.82	1985	U	1980,1985,1989
08S.36E.36.443444	CRCS	-109.13	12-07-89	+0.44	-109.13	1989	-109.57	1985	U	1980,1985,1989
*08S.37E.05.43131	CRCS	-188.94	12-13-89	+2.40	-188.94	1989	-191.34	1985	S	1980,1985,1989
08S.37E.06.11231	CRCS	-91.10	12-07-89	-0.35	-90.70	1980	-91.10	1989	S	1980,1985,1989
08S.37E.06.31131	CRCS	-89.91	12-07-89	+0.72	-89.91	1989	-90.92	1980	S	1980,1985,1989

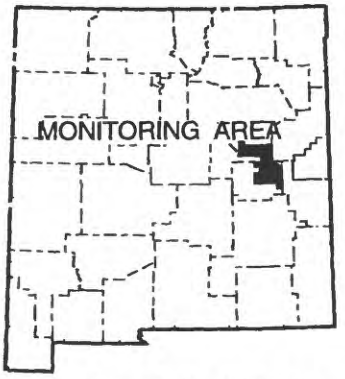
Table 2.--Well location and Water-level data for selected wells in the Causey-Lingo monitoring area, Roosevelt and Chaves Counties, New Mexico, and Bailey and Cochran Counties, Texas--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1989-90 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
08S.37E.08.344341	CRCS	-89.02	12-08-89	+2.08	-89.02	1989	-92.35	1980	S	1980,1985,1989
*08S.37E.10.41313	CRCS	-112.72	12-19-89	+0.46	-112.72	1989	-115.46	1980	H	1980,1985,1989
08S.37E.13.444441	CRCS	-141.02	12-20-89	+1.66	-141.02	1989	-142.95	1980	S	1980,1985,1989
08S.37E.15.42200	CRCS	-129.75	12-09-89	+0.31	-129.75	1989	-132.71	1980	U	1980,1985,1989
08S.37E.16.221413	CRCS	-98.32	12-08-89	+1.11	-98.32	1989	-99.79	1980	U	1980,1985,1989
08S.37E.18.113424	CRCS	-91.32	12-13-89	+1.43	-91.32	1989	-94.20	1980	S	1980,1985,1989
08S.37E.19.11200	CRCS	-94.51	12-06-89	+1.39	-94.51	1989	-96.92	1980	U	1980,1985,1989
*08S.37E.20.14100	CRCS	-154.06	12-07-89	+0.03	-154.06	1989	-154.10	1980	U	1980,1985,1989
08S.37E.22.344313	CRCS	-124.14	12-20-89	+0.33	-124.14	1989	-125.32	1980	S	1980,1985,1989
*08S.37E.23.443211	CRCS	-133.20	2-14-90	+1.16	-133.20	1990	-136.80	1980	S	1980,1985,1990
08S.37E.26.343141	CRCS	-150.72	12-20-89	--	-149.94	1980	-150.72	1989	S	1980,1989
08S.37E.28.21311	CRCS	-121.43	12-13-89	+5.83	-121.43	1989	-127.26	1985	S	1980,1985,1989
08S.37E.30.422223	CRCS	-113.13	12-07-89	-0.59	-112.54	1985	-113.13	1989	H	1980,1985,1989
08S.37E.35.412412	CRCS	-132.63	2-13-90	--	-132.63	1990	-151.89	1980	S	1980,1990
*08S.38E.07.442243	CRCS	-150.97	12-14-89	+2.08	-150.97	1989	-159.73	1980	U	1980,1985,1989
*08S.38E.16.22430	CRCS	-153.50	12-15-89	+1.40	-153.50	1989	-173.73	1980	S	1980,1985,1989
08S.38E.30.131332	CRCS	-133.50	12-20-89	--	-133.50	1989	-133.50	1989	S	1980,1985,1989
08S.38E.32.121443	CRCS	-143.38	12-15-89	+3.07	-143.38	1989	-146.45	1985	U	1980,1985,1989
*08S.38E.33.12344	CRCS	-165.76	2-13-90	+0.91	-165.76	1990	-166.67	1985	S	1980,1985,1990

Fort Sumner Monitoring Area

The Fort Sumner monitoring area is in DeBaca and Guadalupe Counties, east-central New Mexico. Rises in water levels range from 0.04 to 3.45 feet; declines range from 0.01 to 6.77 feet. South of Fort Sumner water-level changes include rises and declines. East of Fort Sumner declines range from 0.01 to 1.28 feet and rises range from 0.09 to 3.45 feet.





EXPLANATION

-2.27 ● WELL--Number represents the water-level rise or decline (-), in feet

○ WELL--Has water-level hydrograph for the period of record in this report

0 5 10 MILES

0 5 10 KILOMETERS

Figure 7.--Water-level changes for wells in the Fort Sumner monitoring area, 1985-90.

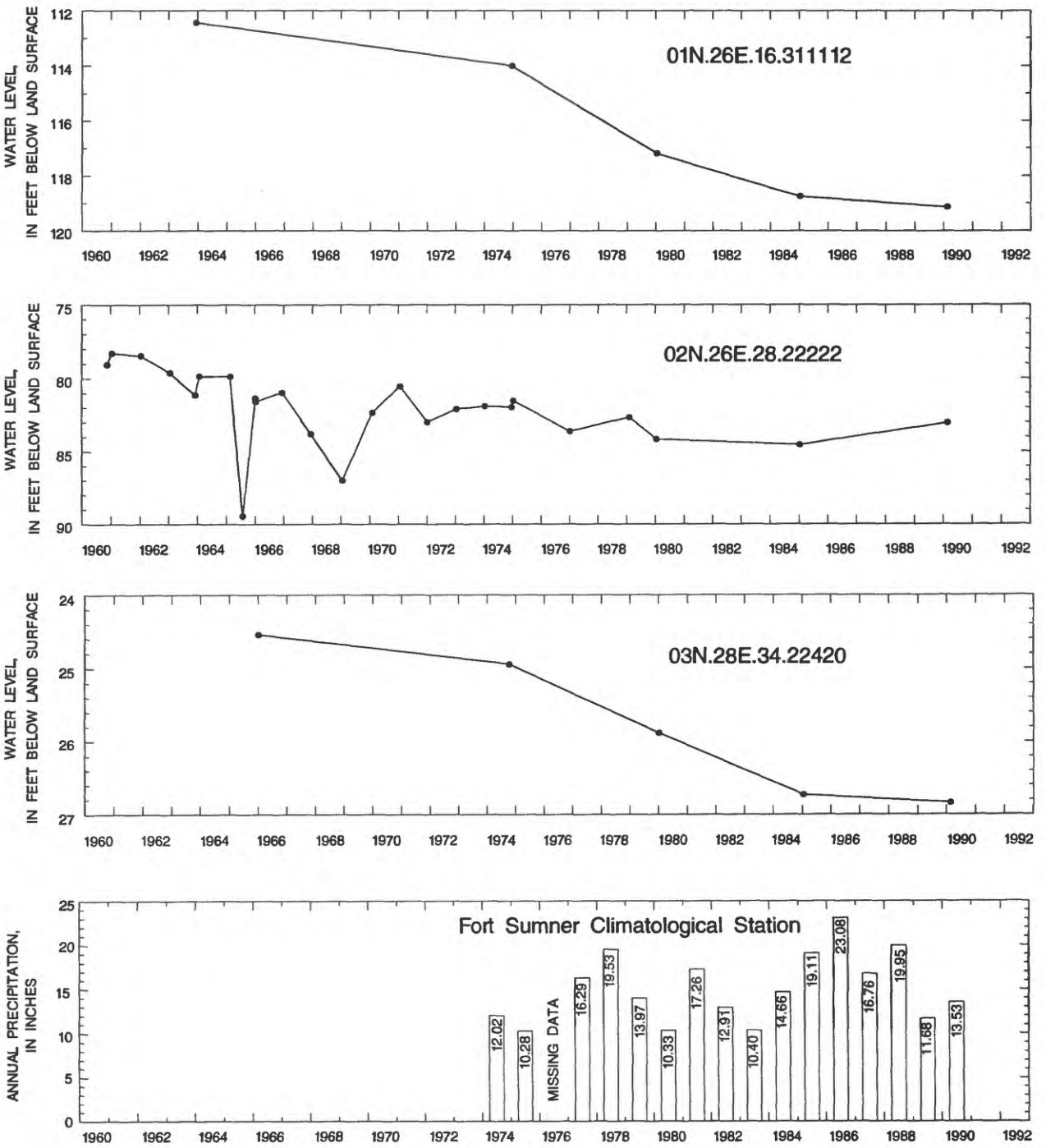


Figure 8.--Water-level data for selected wells in the Fort Sumner monitoring area and annual precipitation at the Fort Sumner Climatological Station. See figure 7 for location of wells and station.

Table 3.--Well location and water-level data for selected wells in the Fort Sumner monitoring area, DeBaca and Guadalupe Counties, New Mexico

[Geologic unit, primary producing zone for the well: ARTS, Artesia Group; AVMB, alluvium, bolson deposits, and other surface deposits; CHNL, Chinle Formation; SNRS, Santa Rosa Sandstone. Use of water: C, commercial; H, domestic; I, irrigation; P, public supply; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
01N.24E.03.342331	AVMB	-20.38	3-07-90	--	-20.38	1990	-21.96	1974	S	1974,1990
01N.24E.08.141330	ARTS	-151.37	3-02-90	--	-151.20	1974	-159.25	1965	S	1965,1974,1990
01N.24E.15.211433	ARTS	-128.89	3-08-90	--	-128.89	1990	-138.60	1965	S	1965,1974,1990
01N.24E.31.443442	ARTS	-94.25	3-09-90	--	-94.25	1990	-157.90	1974	S	1974,1990
01N.24E.34.11100	ARTS	-131.18	3-09-90	--	-104.07	1966	-131.18	1990	S	1966,1974,1990
01N.24E.35.142224	ARTS	-123.03	3-08-90	--	-123.03	1990	-128.70	1966	S	1966,1974,1990
01N.25E.01.332330	AVMB	-116.21	3-01-90	--	-116.21	1990	-143.50	1950	H	1950,1974,1990
01N.25E.08.344140	SNRS	-96.21	3-02-90	--	-96.21	1990	-100.80	1965	S	1965,1974,1990
01N.25E.09.112423	ARTS	-185.97	3-02-90	--	-185.97	1990	-190.88	1965	S	1965,1974,1990
01N.25E.14.221431	ARTS	-146.74	3-01-90	--	-143.97	1974	-146.74	1990	S	1965,1974,1990
01N.25E.24.214324	AVMB	-136.38	3-01-90	--	-135.96	1974	-136.38	1990	S	1965,1974,1990
01N.26E.04.23311A	SNRS	-88.32	2-20-90	-6.77	-81.55	1985	-88.32	1990	S	1985,1990
01N.26E.08.21111	AVMB	-140.56	2-21-90	+0.08	-139.08	1964	-140.64	1985	S	1964-67,1974,1980,1985,1990
01N.26E.16.23331	AVMB	-92.79	2-21-90	-0.73	-88.17	1974	-92.79	1990	I	1974,1980,1985,1990
01N.26E.16.311112	AVMB	-119.13	2-20-90	-0.39	-112.44	1963	-119.13	1990	I	1963,1974,1980,1985,1990
01N.26E.17.13400	AVMB	-150.36	2-21-90	-0.31	-149.33	1980	-155.12	1974	S	1974,1980,1985,1990
01N.26E.19.412444A	AVMB	-104.90	2-21-90	+0.04	-103.76	1976	-104.94	1985	S	1976,1980,1985,1990
01N.26E.32.123331	AVMB	-79.37	2-21-90	-0.33	-77.47	1974	-79.37	1990	S	1974,1980,1985,1990
01N.27E.05.24440	CHNL	-152.47	2-22-90	--	-152.47	1990	-158.12	1974	S	1974,1990
01N.27E.06.13120	AVMB	-34.98	2-23-90	--	-34.72	1974	-36.24	1966	S	1964-66,1974,1990
01N.27E.07.333210	CHNL	-132.26	2-23-90	--	-132.26	1990	-137.77	1974	S	1964-66,1974,1990
01N.27E.15.212221	CHNL	-154.32	2-22-90	--	-152.47	1966	-154.32	1990	S	1966,1974,1990
01N.27E.17.23200	CHNL	-69.97	2-23-90	--	-67.41	1974	-69.97	1990	S	1974,1990
01N.27E.19.344431	CHNL	-67.42	2-23-90	--	-66.34	1974	-144.36	1966	S	1964-66,1974,1990
01N.27E.21.232133	CHNL	-94.36	2-23-90	--	-77.92	1974	-94.36	1990	S	1974,1990
01N.27E.32.14322	CHNL	-113.19	2-23-90	--	-106.99	1966	-113.19	1990	S	1966,1990
01N.28E.04.42400	CHNL	-57.98	3-09-90	--	-57.98	1990	-58.79	1966	S	1966,1974,1990
01N.28E.07.143213	AVMB	-34.14	2-22-90	--	-34.14	1990	-37.00	1977	S	1977,1990
01N.28E.23.122242	SNRS	-127.79	3-07-90	--	-113.00	1974	-127.79	1990	U	1972,1974,1990
02N.24E.01.144422	SNRS	-207.18	2-22-90	--	-205.40	1974	-207.18	1990	S	1966,1974,1990
02N.24E.03.24333	SNRS	-196.91	2-22-90	--	-194.56	1974	-196.91	1990	S	1974,1990
02N.24E.05.213242	SNRS	-151.94	2-22-90	--	-148.44	1974	-151.94	1990	S	1974,1990
02N.24E.07.121111	SNRS	-197.29	2-22-90	--	-194.53	1974	-197.29	1990	S	1974,1990
02N.24E.09.314412	SNRS	-188.46	2-22-90	--	-185.17	1974	-188.46	1990	S	1974,1990
02N.24E.14.322144	SNRS	-151.02	2-22-90	--	-149.44	1974	-151.02	1990	S	1966,1974,1990

Table 3.--Well location and water-level data for selected wells in the Fort Sumner monitoring area, DeBaca and Guadalupe Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
02N.24E.23.243221	SNRS	-167.13	3-07-90	--	-167.13	1990	-174.33	1965	S	1965,1974,1990
02N.24E.24.33111	SNRS	-65.68	3-07-90	--	-64.53	1974	-65.68	1990	U	1965-66,1974,1990
02N.24E.25.423412	SNRS	-201.86	2-23-90	--	-201.86	1990	-203.16	1976	S	1976,1990
02N.24E.26.13312	SNRS	-151.75	3-07-90	--	-151.75	1990	-151.95	1974	S	1974,1990
02N.24E.30.112411A	SNRS	-125.41	3-07-90	--	-121.57	1974	-125.41	1990	S	1974,1990
02N.24E.31.314244	SNRS	-148.11	3-07-90	--	-139.42	1966	-148.11	1990	S	1966,1974,1990
02N.24E.32.323434	SNRS	-116.59	3-07-90	--	-116.59	1990	-123.12	1965	S	1965,1974,1990
02N.24E.33.321244	SNRS	-39.25	3-07-90	--	-39.25	1990	-39.61	1974	S	1974,1990
02N.25E.01.12224	AVMB	-77.13	2-28-90	--	-74.00	1974	-77.13	1990	S	1974,1990
02N.25E.08.234340	SNRS	-210.39	2-22-90	--	-210.39	1990	-214.64	1974	S	1966,1974,1990
02N.25E.12.221131	AVMB	-71.12	2-28-90	--	-66.08	1963	-71.12	1990	S	1963,1965-67,1974,1990
02N.25E.18.343342A	--	-201.53	2-23-90	--	-201.53	1990	-201.53	1990	S	1990
02N.25E.20.122230	SNRS	-205.25	2-21-90	--	-205.25	1990	-219.83	1966	S	1965-66,1974,1990
02N.25E.24.342134	AVMB	-118.65	3-01-90	--	-117.96	1974	-118.65	1990	S	1974,1990
02N.25E.27.11441	SNRS	-85.08	3-01-90	--	-85.08	1990	-91.54	1974	S	1965,1974,1990
02N.25E.28.122333	SNRS	-58.78	2-23-90	--	-57.73	1974	-58.78	1990	S	1966,1974,1990
02N.25E.30.43444	SNRS	-199.11	2-23-90	--	-199.11	1990	-210.21	1974	U	1966,1974,1990
02N.25E.31.332413	SNRS	-199.36	3-07-90	--	-199.36	1990	-211.03	1965	S	1965,1974,1990
02N.25E.35.334343	SNRS	-224.26	3-01-90	--	-224.26	1990	-243.24	1965	S	1965,1974,1990
02N.26E.01.11210	AVMB	-84.07	2-28-90	--	-84.07	1990	-85.09	1974	S	1974,1990
02N.26E.03.342433	AVMB	-13.38	2-28-90	--	-5.79	1967	-13.38	1990	S	1964-65,1967,1974,1990
02N.26E.04.213342	AVMB	-6.79	2-28-90	--	-5.53	1969	-9.10	1964	I	1963-64,1969,1974,1990
02N.26E.05.222133	AVMB	-11.99	3-08-90	--	-11.99	1990	-13.06	1974	S	1974,1990
02N.26E.10.112224	AVMB	-10.54	3-08-90	--	-4.61	1969	-10.54	1990	U	1969,1990
02N.26E.10.431333	AVMB	-11.98	2-28-90	--	-9.17	1965	-11.98	1990	I	1964-67,1974,1990
02N.26E.11.122222	AVMB	-19.46	2-28-90	--	-15.74	1974	-19.46	1990	U	64,1974,1990
02N.26E.11.242423	AVMB	-48.06	2-28-90	--	-47.32	1979	-48.06	1990	S	1979,1990
02N.26E.12.22220	AVMB	-67.31	3-01-90	--	-67.31	1990	-68.92	1966	S	1966,1974,1990
02N.26E.14.34433	AVMB	-19.60	2-28-90	--	-11.94	1965	-19.60	1990	H	1964-65,1967,1974,1990
02N.26E.17.444221A	AVMB	-87.19	2-20-90	+0.73	-74.70	1969	-91.58	1974	S	1969,1974,1980,1985,1990
02N.26E.25.334331	CHNL	-47.10	2-28-90	--	-47.08	1981	-47.10	1990	S	1981,1990
02N.26E.26.113111	AVMB	-10.38	2-28-90	--	-6.44	1974	-10.38	1990	S	1964-67,1974,1990
02N.26E.28.22222	AVMB	-83.03	2-20-90	+1.50	-78.27	1961	-89.44	1965	I	1960-67,1969-75,1977,1979-80, 1985,1990
02N.26E.28.314224	AVMB	-89.84	2-20-90	-2.27	-86.88	1980	-89.84	1990	I	1980,1985,1990
02N.26E.29.221111	AVMB	-85.85	2-20-90	+0.06	-79.90	1958	-88.94	1974	I	1958,1963-67,1974,1980,1985,1990

Table 3.--Well location and water-level data for selected wells in the Fort Sumner monitoring area, DeBaca and Guadalupe Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
02N.26E.35.24222	AVMB	-16.59	2-28-90	--	-12.14	1974	-16.59	1990	H	1964-66,1974,1990
02N.27E.01.222121	AVMB	-49.91	2-21-90	--	-47.75	1981	-49.91	1990	U	1981,1990
02N.27E.04.131340	AVMB	-94.01	3-01-90	--	-92.67	1966	-94.01	1990	S	1966,1974,1990
02N.27E.09.42224	AVMB	-32.88	3-01-90	--	-31.64	1974	-32.88	1990	S	1966,1974,1990
02N.27E.11.111431	AVMB	-37.02	3-01-90	--	-37.02	1990	-49.30	1966	S	1966,1974,1990
02N.27E.12.422211A	AVMB	-72.02	2-22-90	--	-68.47	1974	-72.02	1990	S	1974,1990
02N.27E.17.242224	AVMB	-51.19	3-01-90	--	-49.78	1966	-51.19	1990	S	1966,1974,1990
02N.27E.27.11340	CHNL	-120.48	2-22-90	--	-119.63	1974	-120.48	1990	S	1974,1990
02N.27E.31.222133	AVMB	-68.64	2-22-90	--	-68.10	1974	-75.59	1966	S	1966,1974,1990
02N.27E.33.122223	CHNL	-157.01	2-22-90	--	-156.47	1974	-157.01	1990	S	1974,1990
02N.27E.34.44421	CHNL	-106.03	2-22-90	--	-106.03	1990	-121.78	1974	S	1974,1990
02N.27E.36.32334	CHNL	-112.63	2-22-90	--	-111.69	1974	-112.63	1990	S	1974,1990
02N.28E.01.243333	AVMB	-23.64	2-21-90	+1.41	-15.17	1943	-25.05	1985	I	1943,1963,1966-67,1972,1974,1977, 1980,1985,1990
02N.28E.01.342122	AVMB	-36.33	2-21-90	+1.70	-32.94	1958	-38.03	1985	I	1958,1963,1966-67,1972,1974,1977, 1980,1985,1990
02N.28E.02.221341	AVMB	-38.95	2-20-90	+0.09	-36.08	1966	-39.04	1985	H	1966,1974-75,1977,1980,1985,1990
02N.28E.02.432414	AVMB	-57.62	2-20-90	+3.45	-51.16	1966	-65.56	1974	H	1966,1974-75,1977,1980,1985,1990
02N.28E.14.23224	CHNL	-69.83	2-21-90	-0.90	-67.92	1979	-69.83	1990	S	1979-80,1985,1990
02N.28E.20.333431	AVMB	-42.43	2-21-90	--	-42.43	1990	-49.70	1966	H	1966,1974,1990
02N.28E.21.22440	AVMB	-75.04	2-21-90	--	-75.04	1990	-83.12	1966	S	1966,1974,1990
02N.28E.29.411242	AVMB	-33.60	2-21-90	--	-32.97	1974	-33.60	1990	S	1974,1990
02N.28E.33.333433	AVMB	-29.24	2-21-90	--	-29.24	1990	-29.50	1974	S	1974,1990
02N.28E.34.111243	AVMB	-44.33	3-09-90	--	-44.33	1990	-44.99	1966	S	1966,1974,1990
03N.25E.24.232234	AVMB	-65.66	2-28-90	--	-65.40	1974	-65.66	1990	H	1974,1990
03N.25E.24.411231	AVMB	-71.28	2-28-90	--	-71.14	1974	-71.28	1990	S	1974,1990
03N.25E.36.141343	AVMB	-41.58	2-28-90	--	-41.17	1967	-41.58	1990	S	1967,1976,1990
03N.26E.09.332121	SNRS	-61.81	3-06-90	--	-56.33	1970	-61.81	1990	P	1964,1967,1970,1975,1990
03N.26E.13.313124	SNRS	-86.80	3-08-90	--	-86.37	1974	-88.83	1966	S	1966,1974,1990
03N.26E.14.331434	SNRS	-107.52	2-28-90	--	-105.24	1974	-109.25	1967	S	1967,1974,1990
03N.26E.17.34442	SNRS	-111.26	3-06-90	--	-110.04	1976	-111.26	1990	H	1976,1990
03N.26E.18.224233A	AVMB	-29.94	2-28-90	--	-29.94	1990	-30.49	1977	S	1974,1977,1990
03N.26E.18.423313	AVMB	-27.27	3-06-90	--	-27.27	1990	-27.27	1990	S	1990
03N.26E.19.314410	SNRS	-45.28	3-01-90	--	-45.28	1990	-45.66	1974	H	1974,1990
03N.26E.25.22240	SNRS	-165.99	3-08-90	--	-165.85	1974	-167.72	1966	S	1966,1974,1990
03N.26E.26.333142	SNRS	-77.89	3-06-90	--	-77.74	1977	-77.89	1990	H	1977,1990
03N.26E.27.124312	SNRS	-76.63	3-06-90	--	-73.28	1974	-81.32	1966	C	1966,1974,1990

Table 3.--Well location and water-level data for selected wells in the Fort Sumner monitoring area, DeBaca and Guadalupe Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
03N.26E.29.312443	AVMB	-12.67	3-01-90	--	-11.76	1974	-12.67	1990	S	1974,1990
03N.26E.31.24411	SNRS	-80.21	3-01-90	--	-79.40	1974	-80.21	1990	S	1974,1990
03N.26E.33.322243	AVMB	-10.71	2-28-90	--	-7.14	1965	-10.71	1990	I	1964-67,1974,1990
03N.26E.34.41110	SNRS	-21.92	2-28-90	--	-18.62	1964	-21.92	1990	H	1964-67,1974,1990
03N.26E.35.312134	AVMB	-23.60	3-06-90	--	-18.71	1974	-23.82	1967	S	1967,1974,1990
03N.27E.31.343410	AVMB	-99.22	3-01-90	--	-99.22	1990	-99.27	1966	S	1966,1974,1990
03N.27E.34.43230	AVMB	-66.99	3-02-90	--	-66.99	1990	-68.85	1966	S	1966,1974,1990
03N.27E.35.344411	AVMB	-80.31	3-01-90	--	-79.36	1973	-80.52	1974	U	1973-74,1990
03N.28E.24.41343	AVMB	-52.78	2-21-90	-1.28	-50.01	1976	-52.78	1990	S	1976,1980,1985,1990
03N.28E.25.44100	AVMB	-36.52	2-20-90	--	-34.18	1974	-36.52	1990	H	1974,1990
03N.28E.33.24334	AVMB	-44.61	2-20-90	-0.01	-44.16	1977	-44.61	1990	H	1977,1980,1985,1990
03N.28E.33.324433	AVMB	-34.60	2-20-90	-0.24	-32.51	1974	-34.60	1990	U	1974,1980,1985,1990
03N.28E.33.421242	AVMB	-38.16	2-20-90	+0.29	-36.15	1977	-38.45	1985	U	1977,1980,1985,1990
03N.28E.34.22420	AVMB	-26.84	2-20-90	-0.11	-24.54	1966	-26.84	1990	H	1966,1974,1980,1985,1990
03N.28E.35.224231	AVMB	-19.73	2-20-90	-0.58	-18.33	1977	-19.73	1990	H	1974,1977,1979-80,1985,1990
04N.24E.06.233313	--	-25.38	3-21-90	--	-25.38	1990	-25.38	1990	H	1990
04N.24E.32.422420	AVMB	-20.51	3-21-90	--	-18.38	1975	-20.51	1990	H	1975,1990
04N.25E.03.211311	SNRS	-177.23	3-16-90	--	-177.23	1990	-181.42	1965	S	1965,1970,1976,1979,1990
04N.25E.12.314444	SNRS	-210.23	3-16-90	--	-179.73	1970	-210.23	1990	I	1970,1990
04N.25E.13.14112	SNRS	-182.28	3-19-90	--	-155.01	1971	-182.28	1990	I	1971,1990
04N.26E.05.41230	SNRS	-32.04	3-22-90	--	-27.24	1979	-32.04	1990	S	1966,1976,1979,1990
04N.26E.08.414333	AVMB	-12.50	3-22-90	--	-12.50	1990	-30.20	1966	S	1966,1990
05N.24E.01.144121	AVMB	-28.18	3-16-90	--	-26.89	1966	-28.18	1990	S	1966,1976,1990
05N.24E.02.313113	AVMB	-13.59	3-16-90	--	-13.59	1990	-15.08	1965	S	1965,1990
05N.25E.12.41100	AVMB	-62.88	3-07-90	--	-62.19	1976	-62.88	1990	S	1965,1976,1979,1990
05N.25E.13.141111	SNRS	-367.40	3-08-90	--	-359.77	1973	-389.50	1976	I	1973,1976,1979,1990
05N.25E.14.344443	AVMB	-100.58	3-07-90	--	-100.58	1990	-136.48	1965	S	1965,1976,1979,1990
05N.25E.24.434432	AVMB	-76.68	3-02-90	--	-76.68	1990	-97.60	1965	S	1965,1970,1976,1979,1990
05N.25E.25.14111	SNRS	-304.63	3-02-90	--	-278.40	1970	-305.40	1976	I	1970,1976,1979,1990
05N.25E.26.122341	AVMB	-82.24	3-02-90	--	-82.24	1990	-88.74	1966	S	1966,1970,1976,1979,1990
05N.25E.27.121411	AVMB	-125.34	3-02-90	--	-125.34	1990	-133.81	1976	H	1976,1979,1990
05N.25E.28.11214	SNRS	-251.72	3-02-90	--	-132.32	1970	-251.72	1990	S	1970,1990
05N.25E.36.341111	SNRS	-266.02	3-07-90	--	-238.20	1970	-266.02	1990	I	1970,1976,1979,1990
05N.25E.36.42344	AVMB	-47.55	3-07-90	--	-45.66	1979	-47.55	1990	S	1976,1979,1990
05N.26E.06.314124	AVMB	-50.05	3-08-90	--	-46.22	1965	-50.05	1990	S	1965,1976,1979,1990

Table 3.--Well location and water-level data for selected wells in the Fort Sumner monitoring area, DeBaca and Guadalupe Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
05N.26E.13.11132	SNRS	-168.17	3-07-90	--	-165.85	1976	-185.91	1965	S	1965,1970,1976,1979,1990
05N.26E.14.112122	AVMB	-75.66	3-07-90	--	-75.66	1990	-77.87	1970	S	1970,1976,1979,1990
05N.26E.16.222433	AVMB	-53.90	3-07-90	--	-53.90	1990	-81.59	1965	S	1965,1976,1979,1990
05N.26E.22.11122	AVMB	-67.55	3-07-90	--	-67.55	1990	-71.39	1965	S	1965,1976,1979,1990
05N.26E.28.423343	AVMB	-88.38	3-06-90	--	-87.50	1976	-88.38	1990	U	1976,1979,1990
05N.26E.29.421220	AVMB	-86.96	3-06-90	--	-86.96	1990	-87.34	1979	S	1976,1979,1990
05N.26E.30.12220	AVMB	-76.74	3-06-90	--	-76.74	1990	-81.98	1965	S	1965,1970,1976,1979,1990
06N.21E.01.331433	SNRS	-35.02	3-28-90	--	-35.02	1990	-35.02	1990	S	1990
06N.22E.18.323333A	--	-56.33	3-13-90	--	-56.33	1990	-56.33	1990	S	1990
06N.22E.32.21113	SNRS	-209.18	3-28-90	--	-209.18	1990	-209.18	1990	S	1990
06N.23E.11.413432	--	-155.69	3-22-90	--	-155.69	1990	-155.69	1990	S	1990
06N.23E.12.121133	CHNL	-164.17	3-22-90	--	-164.17	1990	-164.17	1990	S	1990
06N.23E.13.232412	--	-203.14	3-22-90	--	-203.14	1990	-203.14	1990	S	1990
06N.24E.10.344434A	--	-8.45	3-14-90	--	-8.45	1990	-8.45	1990	S	1990
06N.24E.21.444413	--	-62.64	3-14-90	--	-62.64	1990	-62.64	1990	S	1990
06N.24E.22.321321	--	-71.16	3-14-90	--	-71.16	1990	-71.16	1990	S	1990
06N.24E.23.142424	--	-23.22	3-15-90	--	-23.22	1990	-23.22	1990	S	1990
06N.24E.24.233222	--	-72.78	3-15-90	--	-72.78	1990	-72.78	1990	S	1990
06N.24E.34.142132	--	-19.91	3-14-90	--	-19.91	1990	-19.91	1990	S	1990
06N.24E.34.441444	--	-46.17	3-15-90	--	-46.17	1990	-46.17	1990	S	1990
07N.21E.36.43331	--	-65.59	3-28-90	--	-65.59	1990	-65.59	1990	S	1990
07N.23E.22.141414	SNRS	-151.33	2-28-90	--	-151.33	1990	-151.33	1990	S	1990
07N.23E.34.43243	--	-68.99	3-22-90	--	-68.99	1990	-68.99	1990	S	1990
07N.23E.36.11332	CHNL	-131.09	3-22-90	--	-131.09	1990	-131.09	1990	S	1990
07N.24E.07.442421	CHNL	-124.80	2-27-90	--	-124.80	1990	-124.80	1990	S	1990
07N.24E.08.12334	--	-50.13	3-01-90	--	-50.13	1990	-50.13	1990	S	1990
07N.24E.09.333323	CHNL	-80.30	2-27-90	--	-80.30	1990	-80.30	1990	S	1990
07N.24E.11.244244	--	-22.09	2-28-90	--	-22.09	1990	-22.09	1990	S	1990
07N.24E.13.143224	CHNL	-67.39	2-28-90	--	-67.39	1990	-67.39	1990	S	1990
07N.24E.21.134144	--	-13.98	3-01-90	--	-13.98	1990	-13.98	1990	S	1990
07N.24E.30.243144	--	-98.50	2-28-90	--	-98.50	1990	-98.50	1990	S	1990
07N.24E.33.221131	--	-72.99	2-28-90	--	-72.99	1990	-72.99	1990	S	1990
07N.24E.35.244411	--	-55.39	2-28-90	--	-55.39	1990	-55.39	1990	S	1990
07N.25E.04.11313	AVMB	-44.63	3-01-90	--	-44.63	1990	-44.63	1990	S	1990
07N.25E.04.334342	AVMB	-28.58	3-01-90	--	-28.58	1990	-28.58	1990	S	1990

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Table 3.--Well location and water-level data for selected wells in the Fort Sumner monitoring area, DeBaca and Guadalupe Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
07N.25E.12.213144	--	-28.91	3-21-90	--	-28.91	1990	-28.91	1990	S	1990
07N.25E.16.12234	--	-18.20	3-20-90	--	-18.20	1990	-18.20	1990	S	1990
07N.25E.17.223422	--	-14.84	3-20-90	--	-14.84	1990	-14.84	1990	S	1990
07N.25E.20.121431	--	-22.90	3-20-90	--	-22.90	1990	-22.90	1990	S	1990
07N.25E.27.242222	--	-34.90	3-02-90	--	-34.90	1990	-34.90	1990	S	1990
08N.22E.30.44113	--	-51.04	3-13-90	--	-51.04	1990	-51.04	1990	S	1990
01S.24E.07.42412	ARTS	-39.09	3-09-90	--	-38.94	1974	-39.09	1990	S	1974,1990
01S.24E.08.313421	ARTS	-39.36	3-09-90	--	-39.36	1990	-45.68	1974	H	1974,1990
01S.24E.17.131233	ARTS	-114.17	3-09-90	--	-114.17	1990	-115.27	1974	S	1974,1990
01S.25E.05.42241	CHNL	-109.56	3-08-90	--	-109.56	1990	-117.58	1976	S	1976,1990
01S.28E.18.232121	AVMB	-7.73	3-08-90	--	-7.73	1990	-9.02	1974	U	1966,1974,1990
01S.28E.20.211144	AVMB	-50.88	3-09-90	--	-46.69	1966	-64.17	1974	S	1966,1974,1990
01S.28E.22.344441	AVMB	-34.73	3-07-90	--	-34.20	1974	-37.10	1966	S	1966,1974,1990
01S.28E.27.14334	AVMB	-31.26	3-07-90	--	-30.58	1966	-31.99	1974	S	1966,1974,1990
01S.28E.29.132140	AVMB	-92.67	3-09-90	--	-86.68	1966	-92.67	1990	S	1966,1974,1990
01S.28E.34.14211	AVMB	-24.78	3-07-90	--	-24.78	1990	-25.82	1974	S	1966,1974,1990
01S.28E.34.31241	AVMB	-21.24	3-08-90	--	-21.24	1990	-25.47	1966	S	1966,1974,1990
01S.28E.35.24000	AVMB	-48.25	3-07-90	--	-39.78	1974	-48.25	1990	H	1966,1974,1990
01S.28E.36.231342	AVMB	-4.92	3-07-90	--	-4.92	1990	-5.72	1977	S	1977,1990
02S.28E.09.24444	CHNL	-33.94	3-08-90	--	-33.79	1966	-33.94	1990	S	1966,1990
02S.28E.10.44314	CHNL	-34.31	3-08-90	--	-32.62	1966	-34.31	1990	S	1966,1990
02S.28E.12.213121A	CHNL	-34.54	3-07-90	--	-34.54	1990	-34.77	1978	S	1976,1978,1990
02S.28E.16.43400	CHNL	-45.38	3-09-90	--	-42.57	1966	-45.38	1990	S	1966,1990
02S.28E.17.334441	CHNL	-40.73	3-09-90	--	-40.73	1990	-45.28	1966	S	1966,1990
02S.28E.20.422244	CHNL	-37.11	3-09-90	--	-36.51	1966	-37.11	1990	S	1966,1990
02S.28E.29.124422	CHNL	-42.51	3-09-90	--	-40.20	1966	-42.51	1990	S	1966,1990
02S.28E.30.321440	CHNL	-42.80	3-09-90	--	-42.80	1990	-46.35	1966	S	1966,1990

Estancia Monitoring Area

The Estancia monitoring area is in northern Torrance County and part of Santa Fe and Bernalillo Counties. Water-level declines range from less than 1 to more than 5 feet. Water-level rises range from less than 1 to more than 56 feet. From Tps. 9 N. to 11 N. most water-level changes are declines. Two wells in the eastern part of this area show rises. Most water-level changes in the remainder of the area are rises. Three wells south of Willard have a water-level decline.

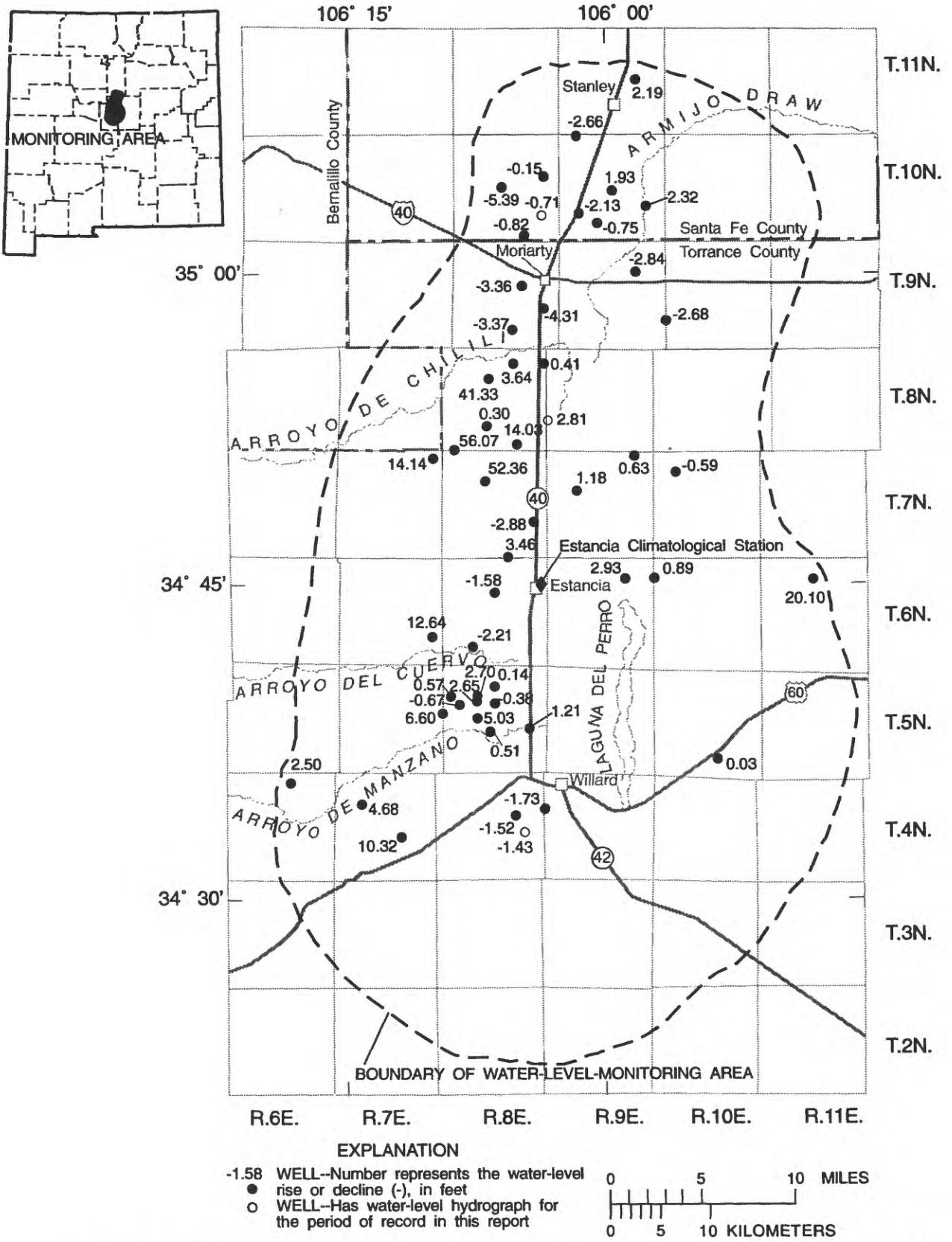


Figure 9.--Water-level changes for wells in the Estancia monitoring area, 1985-90.

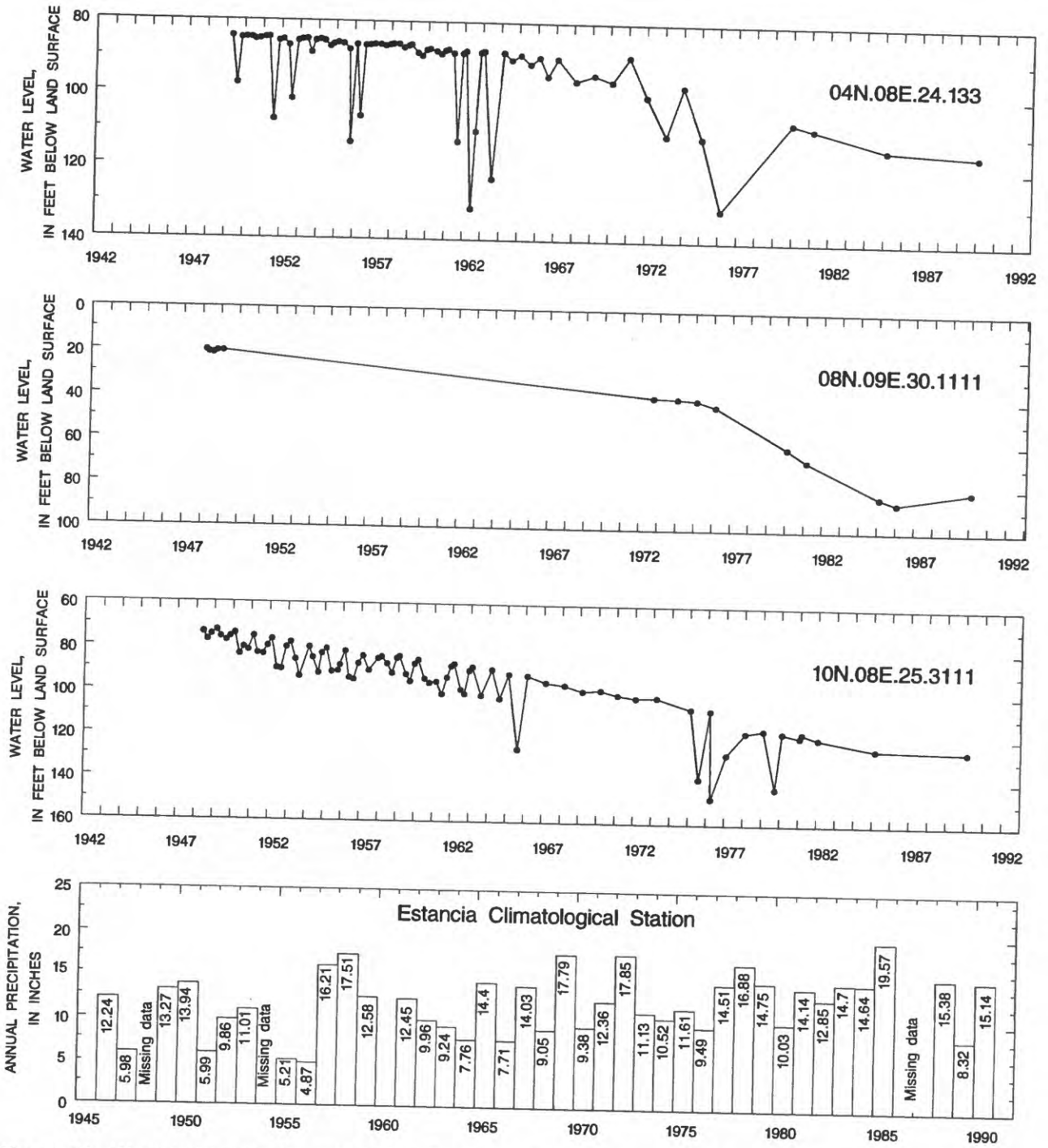


Figure 10.--Water-level data for selected wells in the Estancia monitoring area and annual precipitation at the Estancia Climatological Station. See figure 9 for location of wells and station.

Table 4.--Well location and water-level data for selected wells in the Estancia monitoring area, Torrance, Santa Fe, and Bernalillo Counties, New Mexico

[Geologic unit, primary producing zone for the well: ABO, Abo Sandstone (Lower Tongue); AVMB, alluvium, bolson deposits, and other surface deposits; BLSN, bolson fill; DCKM, Dockum Group; MDER, Madera Limestone; MGDL, Magdalena Group; PCMB, Precambrian Erathem; SADG, San Andres Limestone and Glorieta Sandstone. Winter water level, site status: R, recently pumped. Use of water: A, air conditioner; I, irrigation; P, public supply; S, stock; U, unused. --, no data]

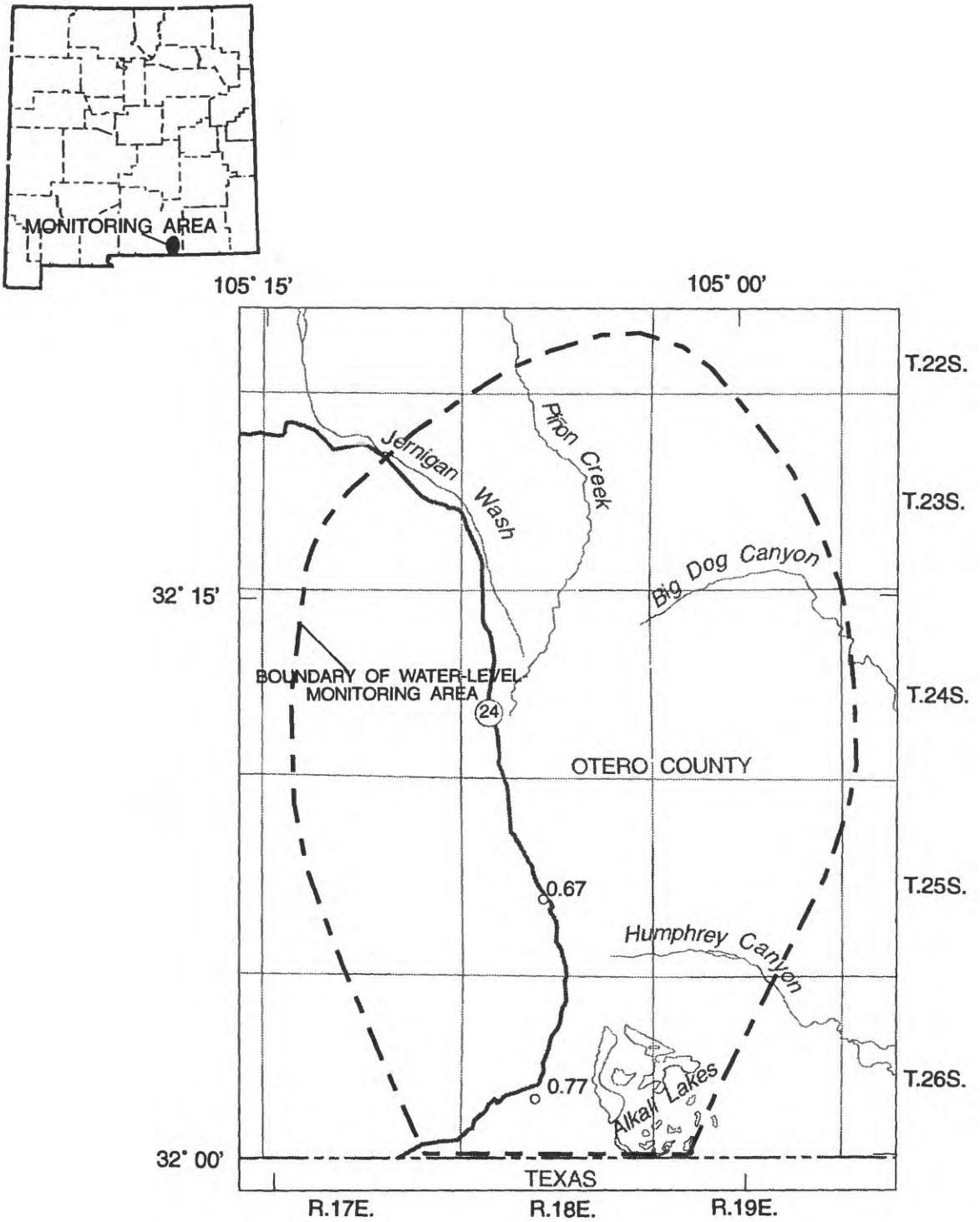
Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
04N.06E.03.4233	PCMB	-21.05	2-12-90	+2.50	-20.92	1973	-23.55	1985	P	1973,1976-77,1979-81,1985,1990
04N.07E.08.4441	ABO	-78.94	2-12-90	+4.68	-71.35	1981	-83.62	1985	I	1973-81,1985,1990
04N.07E.23.3132	ABO	-116.14	2-12-90	+10.32	-115.49	1973	-133.70	1978	A	1972-81,1985,1990
04N.08E.14.233	AVMB	-123.03	2-12-90	-1.52	-91.96	1951	-123.03	1990	U	1950-62,1980,1985,1990
04N.08E.24.133	AVMB	-115.50	2-12-90	-1.43	-84.46	1949	-115.50	1990	I	1949-76,1980-81,1985,1990
04N.09E.07.334	AVMB	-81.79	2-12-90	-1.73	-54.70	1958	-93.90	1988	I	1956-76,1980-81,1985-90
05N.08E.07.413	AVMB	-129.65	2-13-90	+0.57	-70.20	1946	-130.22	1985	I	1946-62,1980,1985-86,1990
05N.08E.08.424	AVMB	-123.51	2-13-90	+2.70	-62.03	1948	-129.74	1986	I	1948-90
05N.08E.10.113	AVMB	-82.25	2-13-90	+0.14	-36.31	1959	-82.39	1985	I	1956-76,1980-81,1985,1990
05N.08E.10.333	AVMB	-80.34	2-13-90	-0.38	-17.32	1947	-87.54	1986	U	1946-62,1980,1985-90
05N.08E.16.111	AVMB	-115.73	2-13-90	+2.65	-54.17	1948	-123.39	1986	U	1947-62,1980,1985-86,1990
05N.08E.17.113	AVMB	-106.94	2-13-90	-0.67	-43.29	1945	-106.94	1990	I	1945-68,1980,1985,1990
05N.08E.18.331	AVMB	-72.40	2-13-90	+6.60	-62.18	1971	-80.71	1980	I	1971-76,1980-81,1985,1990
05N.08E.21.111	AVMB	-83.49	2-13-90	+5.03	-27.23	1947	-88.52	1985	I	1946-62,1980,1985,1990
05N.08E.21.441	AVMB	-64.83	2-13-90	+0.51	-39.09	1956	-65.34	1985	I	1956-76,1980-81,1985-86,1990
05N.08E.24.311	AVMB	-40.48	2-13-90	+1.21	-21.93	1946	-42.12	1986	I	1946-70,1972-74,1980,1985-86,1990
05N.09E.06.311	AVMB	-29.16	2-13-90	--	-20.14	1975	-29.98	1970	U	1957,1959-71,1973-75,1980-81, 1985-86,1990
05N.10E.27.444	AVMB	-43.30	2-12-90	+0.03	-39.63	1945	-44.31	1968	I	1941-70,1972-76,1980,1985,1990
06N.07E.25.411	AVMB	-79.66	2-13-90	+12.64	-66.04	1959	-92.30	1985	I	1956-76,1980-81,1985,1990
06N.08E.03.221	AVMB	-87.48	2-13-90	+3.46	-16.06	1948	-90.94	1985	U	1948-70,1972-76,1980,1985-86,1990
06N.08E.10.333	AVMB	-106.56	2-13-90	-1.58	-67.83	1962	-108.27	1986	I	1962,1980,1985-86,1990
06N.08E.32.212	AVMB	-80.19	2-13-90	-2.21	-23.22	1947	-83.51	1986	I	1947-90
06N.09E.11.211	AVMB	-12.65	2-13-90	+2.93	-5.07	1949	-28.25	1979	I	1949-90
06N.10E.07.112	AVMB	-12.55	2-13-90	+0.89	-5.74	1949	-13.44	1985	S	1949-73,1980,1985,1990
06N.11E.10.211	AVMB	-58.88	2-12-90	+20.10	-58.88	1990	-116.14	1980	I	1980,1985,1990
07N.07E.01.233	--	-110.11	2-14-90	+14.14	-110.11	1990	-174.63	1963	I	1963,1972-73,1976-81,1985,1990
07N.07E.11.314	--	-84.03	2-14-90	--	-84.03	1990	-102.36	1972	I	1972,1990
07N.08E.06.212	AVMB	-95.50	2-14-90	+56.07	-95.50	1990	-163.37	1957	I	1957-73,1975,1980-81,1985,1990
07N.08E.09.431	MGDL	-24.58	2-14-90	+52.36	-24.58	1990	-99.12	1957	I	1948-52,1954-57,1959-63,1965, 1980,1985,1990
07N.08E.16.142	MDER	-7.98	2-14-90	--	-3.04	1988	-107.39	1968	I	1946-52,1954-58,1961-71,1973-81, 1986-90
07N.08E.16.231	MDER	-4.63	2-14-90	--	0.00	1987	-22.86	1986	I	1986-90
07N.08E.25.121	AVMB	-51.43	2-13-90	-2.88	-25.30	1962	-65.71	1986	U	1962-76,1981,1985-90
07N.09E.02.222	AVMB	-69.08	2-14-90	+0.63	-68.86	1980	-69.71	1985	U	1980,1985,1990
07N.09E.05.111	AVMB	-67.28	2-13-90	--	-19.50	1950	-67.28	1990	S	1950,1975-76,1980-81,1985,1990
07N.09E.17.221	AVMB	-43.24	2-14-90	+1.18	-16.23	1951	-44.42	1985	I	1950-76,1980-81,1985,1990
07N.10E.08.122	AVMB	-68.77	2-14-90	-0.59	-67.33	1980	-68.77	1990	I	1980,1985,1990
08N.08E.09.413	--	-95.67	2-13-90	--	-95.67	1990	-107.62	1988	I	1988,1990

Table 4.--Well location and water-level data for selected wells in the Estancia monitoring area, Torrance, Santa Fe, and Bernalillo Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
08N.08E.09.4323	AVMB	-86.36	2-13-90	+41.33	-80.17	1976	-127.69	1985	I	1973-81,1985-86,1990
08N.08E.11.111	AVMB	-136.13	2-13-90	+3.64	-108.67	1970	-140.44	1986	I	1970-76,1980-81,1985-86,1990
08N.08E.12.212	AVMB	-97.96	2-13-90	+0.41	-29.74	1948	-98.37	1985	I	1948-76,1980,1985,1990
08N.08E.28.4131	PCMB	-133.40	2-14-90	+0.30	-133.40	1990	-139.28	1981	I	1973,1975,1978-81,1985,1990
08N.08E.35.323	MGDL	-94.98	2-14-90	+14.03	-50.12	1947	-115.14	1985	I	1947-78,1980-81,1984-90
08N.09E.30.1111	AVMB	-81.28	2-13-90	+2.81	-20.13	1948	-86.65	1986	I	1948-49,1972,1974-76,1980-81, 1985-86,1990
09N.08E.14.311	AVMB	-99.83	2-13-90	-3.36	-64.95	1958	-99.83	1990	--	1957-72,1974-76,1980-81,1985,1990
09N.08E.24.332	AVMB	-82.57	2-13-90	-4.31	-72.08	1980	-85.80	1988	U	1980-81,1983-90
09N.08E.27.434	AVMB	-132.13	2-13-90	-3.37	-84.39	1957	-132.13	1990	I	1957-76,1980-81,1985-86,1990
09N.09E.11.341	SADG	-84.94	2-12-90	-2.84	-38.01	1953	-84.94	1990	I	1952-68,1973-75,1980-81,1985,1990
09N.09E.16.233	AVMB	-61.04R	2-13-90	--	-21.42	1950	-60.54	1987	S	1950,1952-59,1961-63,1980,1986-87, 1990
09N.09E.25.244	AVMB	-151.51	2-13-90	-2.68	-130.30	1973	-151.51	1990	I	1972-76,1980-81,1985-86,1990
10N.08E.13.1332	BLSN	-137.80	2-12-90	-0.15	-86.75	1950	-150.00	1981	I	1950-90
10N.08E.21.221	AVMB	-163.94	2-12-90	-5.39	-137.90	1975	-163.94	1990	U	1972-76,1978,1982,1985,1990
10N.08E.25.3111	AVMB	-125.55	2-12-90	-0.71	-72.85	1949	-143.16	1979	I	1948-73,1975-82,1985,1990
10N.08E.35.33112	AVMB	-116.06	2-12-90	-0.82	-65.12	1950	-131.75	1979	I	1948-70,1972-82,1985,1990
10N.09E.05.1113	BLSN	-126.01	2-12-90	-2.66	-72.89	1949	-126.02	1981	I	1948-82,1985,1990
10N.09E.22.1311	BLSN	-102.31	2-12-90	-1.93	-78.02	1973	-105.52	1980	I	1973-82,1985,1990
10N.09E.26.2223	BLSN	-95.05	2-12-90	+2.32	-71.51	1973	-97.37	1985	I	1972-82,1985,1987,1990
10N.09E.29.1334	BLSN	-107.45	2-12-90	-2.13	-55.00	1949	-124.46	1988	I	1949-90
10N.09E.33.11213	BLSN	-104.80	2-12-90	-0.75	-61.94	1956	-104.80	1990	I	1955-82,1985,1990
11N.09E.14.34434	DCKM	-167.37	2-12-90	+2.19	-164.44	1981	-170.19	1977	I	1973,1975-82,1985,1990
11N.09E.29.143	--	-128.83	2-12-90	--	-125.93	1987	-128.83	1990	U	1986-90

Salt Basin Monitoring Area

The Salt Basin is in Otero County, south-central New Mexico. Both water-level changes are rises of less than 1 foot.



EXPLANATION

0.77 ○ WELL--Has water-level hydrograph for the period of record in this report. Number represents the water-level rise or decline (-), in feet

0 5 10 MILES

0 5 10 KILOMETERS

Figure 11.--Water-level changes for wells in the Salt Basin monitoring area, 1985-90.

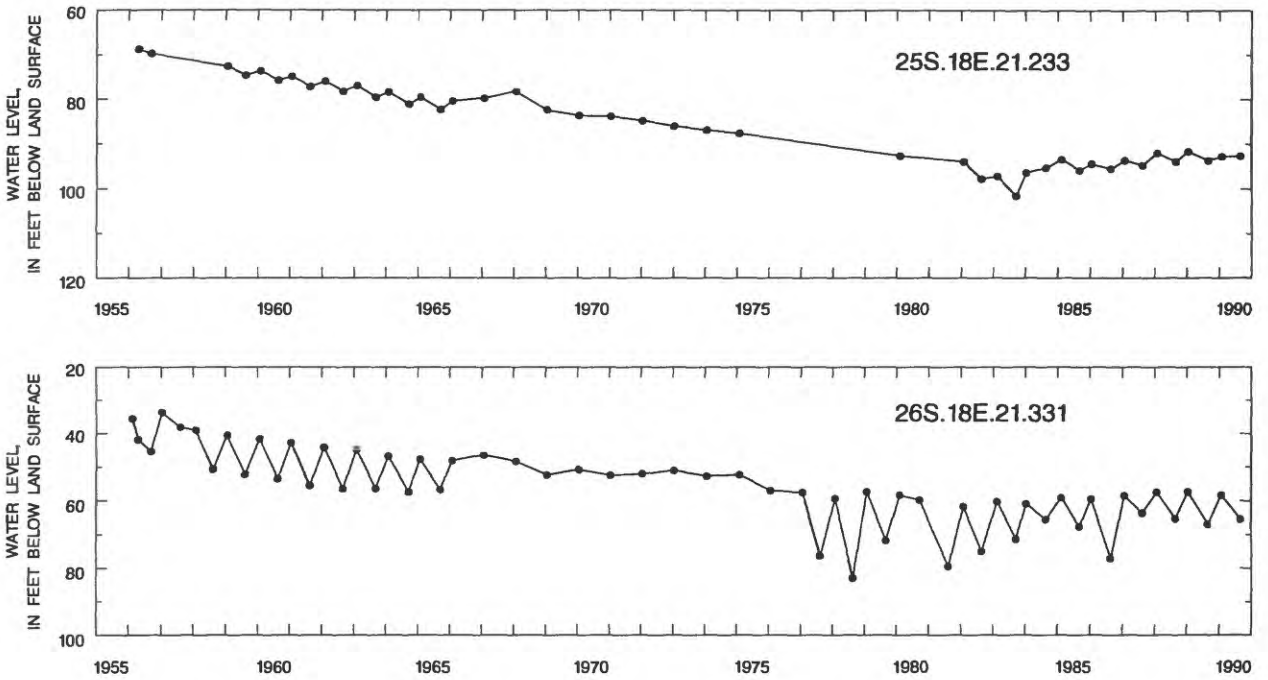


Figure 12.--Water-level data for selected wells in the Salt Basin monitoring area. See figure 11 for location of wells.

Table 5.-- Well location and water-level data for selected wells in the Salt Basin monitoring area, Otero County, New Mexico

[Geologic unit, primary producing zone for the well: BSPG, Bone Spring Limestone. Use of water: I, irrigation. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
25S.18E.21.233	BSPG	-92.83	1-26-90	+0.67	-68.80	1956	-101.55	1983	I	1956,1959-75,1980,1982-90
26S.18E.21.331	BSPG	-58.36	1-26-90	+0.77	-33.64	1957	-82.94	1978	I	1956-90
26S.18E.33.133	BSPG	-47.93	1-26-90	--	-27.50	1956	-62.84	1984	I	1956-75,1980-84,1986-90

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24. Plots showing water-level data for selected wells in the Lea County monitoring area and annual precipitation at the Tatum and Ochoa Climatological Stations 83

25. Map showing water-level changes for wells in the Tularosa Basin monitoring area, 1986-91 108

26. Plots showing water-level data for selected wells in the Tularosa Basin monitoring area and annual precipitation at the Carrizozo and Alamogordo Climatological Stations 109

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28. Plots showing water-level data for selected wells in the San Agustin Plains monitoring area and annual precipitation at the San Agustin 2 E Climatological Station 116

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34. Plots showing water-level data for selected wells in the House monitoring area and annual precipitation at the House Climatological Station 137

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San Simon Monitoring Area

The San Simon monitoring area is in Hidalgo County, southwestern New Mexico. Water-level declines range from less than 1 foot to more than 10 feet. Rises range from less than 1 foot to more than 31 feet. In the northwest corner of the monitoring area water-level changes are mainly declines; four measurements indicate rises of less than 1 foot. In Tps. 28 and 29 S. most changes are rises from about 1 foot to more than 31 feet. A well southeast of Rodeo has a water-level decline of more than 7 feet.

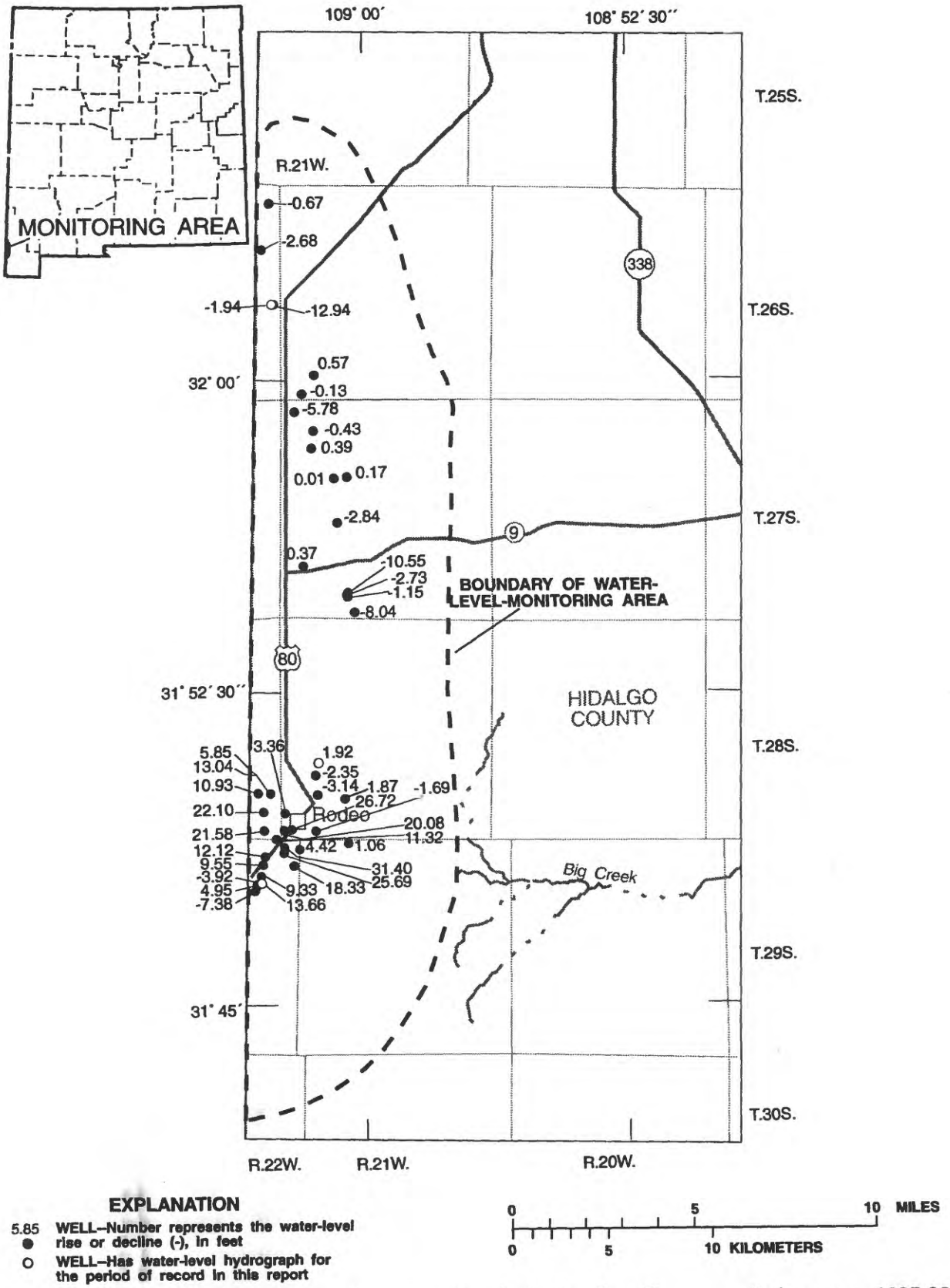

Figure 13.--Water-level changes for selected wells in the San Simon monitoring area, 1985-90.

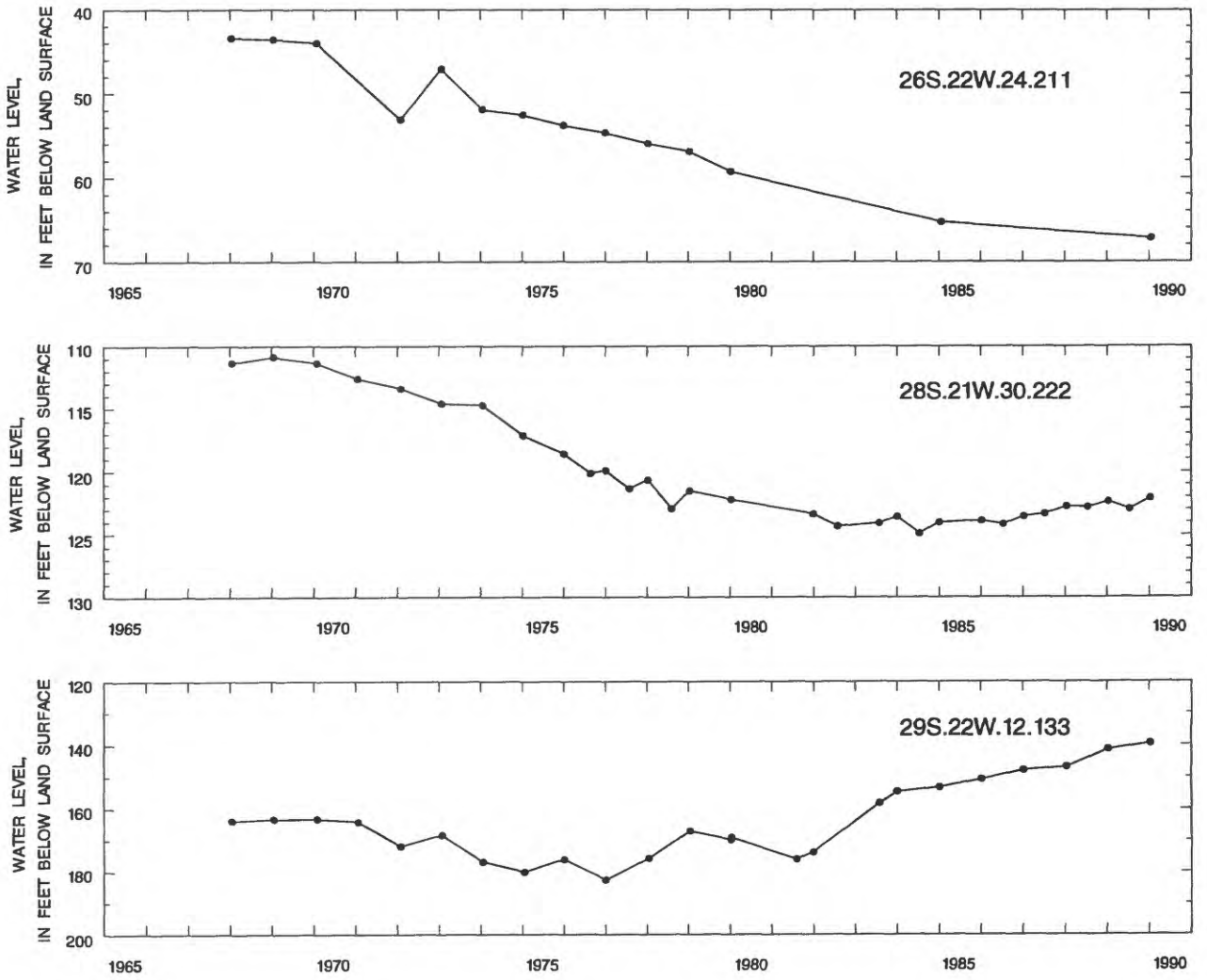

Figure 14.--Water-level data for selected wells in the San Simon monitoring area. See figure 13 for location of wells.

Table 6.--Well location and water-level data for selected wells in the San Simon monitoring area, Hidalgo County, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; BLSN, bolson fill. Winter water level, site status: P, pumping; R, recently pumped. Use of water: H, domestic; I, rrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
26S.21W.21.313	AVMB	-187.61	1-17-90	--	-178.36	1980	-187.61	1990	S	1980,1985,1990
26S.21W.31.241	AVMB	-84.93	1-17-90	+0.57	-80.30	1978	-85.50	1985	H	1978,1980,1985,1990
26S.21W.31.344	AVMB	-82.42	1-17-90	-0.13	-76.78	1980	-82.42	1990	H	1980,1985,1990
26S.22W.01.413	AVMB	-28.07	1-17-90	-0.67	-25.42	1980	-28.07	1990	I	1980,1985,1990
26S.22W.12.233	AVMB	-22.28	1-17-90	--	-19.47	1980	-22.28	1990	U	1980,1990
26S.22W.12.343	AVMB	-46.84	1-17-90	-2.68	-44.00	1980	-46.84	1990	I	1980,1985,1990
26S.22W.24.211	AVMB	-67.23	1-17-90	-1.94	-43.43	1968	-67.23	1990	I	1968-70,1972-80,1985,1990
26S.22W.24.212A	--	-44.74	1-17-90	-12.94	-31.80	1985	-44.74	1990	H	1985,1990
27S.21W.06.143	AVMB	-106.28	1-17-90	-5.78	-93.29	1980	-106.28	1990	H	1980,1985,1990
27S.21W.06.340	AVMB	-110.44	1-17-90	--	-108.13	1980	-110.44	1990	H	1980,1990
27S.21W.06.434	AVMB	-98.13	1-17-90	-0.43	-95.05	1980	-98.13	1990	H	1980,1985,1990
27S.21W.07.232	AVMB	-107.65	1-17-90	--	-80.71	1961	-107.65	1990	H	1961,1990
27S.21W.07.243	AVMB	-98.55	1-17-90	+0.39	-72.42	1961	-98.94	1985	I	1961,1980,1985,1990
27S.21W.17.124	AVMB	-124.94	1-09-90	+0.01	-120.98	1980	-125.56	1984	I	1978,1980,1984-90
27S.21W.17.224	AVMB	-132.30	1-17-90	+0.17	-100.00	1978	-132.47	1985	I	1978,1980,1985,1990
27S.21W.17.434A	AVMB	-127.81P	1-17-90	--	-119.24	1980	-119.24	1980	S	1980,1985,1990
27S.21W.20.322	AVMB	-87.94	1-17-90	-2.84	-80.00	1980	-87.94	1990	H	1980,1985,1990
27S.21W.30.413	AVMB	-134.02	1-16-90	+0.37	-130.56	1980	-134.39	1985	S	1980,1985,1990
27S.21W.32.241	AVMB	-88.11	1-17-90	-10.55	-68.52	1973	-88.11	1990	I	1968-80,1985,1990
27S.21W.32.243	AVMB	-89.05	1-17-90	-1.15	-84.80	1980	-98.40	1978	I	1978,1980,1985,1990
27S.21W.32.243A	AVMB	-85.87	1-17-90	-2.73	-81.28	1980	-85.87	1990	U	1980,1985,1990
27S.21W.32.421	AVMB	-88.15	1-17-90	--	-71.75	1968	-88.15	1990	I	1968-80,1985,1990
27S.21W.33.333A	AVMB	-86.70	1-17-90	-8.04	-62.50	1961	-86.70	1990	U	1961,1985,1990
27S.22W.01.133	BLSN	-143.24	1-09-90	--	-130.54	1968	-149.84	1979	I	1968-80,1990
28S.21W.05.413	AVMB	-102.42R	1-17-90	--	-91.58	1985	-92.89	1980	S	1980,1985,1990
28S.21W.29.434	AVMB	-191.90	1-16-90	+1.87	-191.90	1990	-193.77	1985	H	1980,1985,1990
28S.21W.30.222	AVMB	-122.12	1-09-90	+1.92	-110.88	1969	-124.93	1984	I	1968-90
28S.21W.30.242	AVMB	-123.45	1-16-90	-2.35	-121.10	1985	-124.05	1980	I	1980,1985,1990
28S.21W.30.442	AVMB	-106.68	1-16-90	--	-98.90	1961	-106.68	1990	U	1961,1980,1990
28S.21W.30.444	AVMB	-108.29	1-16-90	-3.14	-105.15	1985	-123.02	1968	I	1968-80,1985,1990
28S.21W.31.133	AVMB	-128.34	1-16-90	+3.36	-128.34	1990	-159.28	1968	I	1968-80,1985-86,1990
28S.21W.31.333	AVMB	-121.16	1-09-90	+20.08	-121.16	1990	-168.84	1975	I	1968-85,1987-90
28S.21W.31.343	AVMB	-125.86	1-16-90	+26.72	-125.86	1990	-152.58	1985	I	1978,1980,1985,1990
28S.21W.31.444	AVMB	-118.44	1-16-90	-1.69	-109.35	1969	-124.72	1976	I	1968-70,1972-80,1985,1990
28S.22W.12.124	AVMB	-183.96	1-16-90	--	-183.96	1990	-183.96	1990	S	1980,1985,1990
28S.22W.25.222	AVMB	-82.74	1-16-90	--	-82.74	1990	-86.74	1980	S	1980,1990
28S.22W.25.343	AVMB	-105.17	1-16-90	+10.93	-105.17	1990	-120.97	1978	H	1978,1980,1985,1990
28S.22W.25.434	AVMB	-113.06	1-16-90	+13.04	-113.06	1990	-129.36	1980	I	1960-61,1980,1985,1990
28S.22W.25.434A	AVMB	-122.55	1-16-90	+5.85	-122.55	1990	-129.25	1980	U	1980,1985,1990
28S.22W.36.134	AVMB	-114.89	1-16-90	+22.10	-108.18	1957	-139.94	1980	I	1957,1961,1980,1985,1990

Table 6.--Well location and water-level data for selected wells in the San Simon monitoring area, Hidalgo County, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
28S.22W.36.334	AVMB	-133.15	1-16-90	+21.58	-133.15	1990	-154.73	1985	I	1978,1980,1985,1990
29S.21W.05.114	AVMB	-183.03	1-16-90	+1.06	-183.03	1990	-184.09	1985	S	1980,1985,1990
29S.21W.06.133	AVMB	-144.67	1-16-90	+4.42	-139.67	1969	-206.42	1977	H	1968-80,1985,1990
29S.22W.01.123	AVMB	-145.86	1-16-90	+11.32	-145.86	1990	-164.70	1978	I	1978,1980,1985,1990
29S.22W.01.234	AVMB	-135.51	1-16-90	+31.40	-135.51	1990	-178.30	1978	H	1961,1978,1980,1985,1990
29S.22W.01.314	AVMB	-149.78	1-16-90	+12.12	-149.78	1990	-169.66	1978	I	1978,1980,1985,1990
29S.22W.01.333	AVMB	-148.81	1-16-90	+9.55	-131.48	1958	-190.68	1965	I	1957-69,1971,1973-80,1985,1990
29S.22W.01.411	AVMB	-137.98	1-16-90	+25.69	-137.98	1990	-180.30	1978	I	1978,1980,1985,1990
29S.22W.01.444	AVMB	-148.44	1-16-90	+18.33	-148.44	1990	-196.06	1977	I	1968,1970,1972-80,1985,1990
29S.22W.11.241A	AVMB	-133.52	1-16-90	--	-133.52	1990	-159.24	1980	I	1960-61,1980,1990
29S.22W.11.243	AVMB	-156.53	1-16-90	-3.92	-143.33	1961	-169.15	1980	I	1960-61,1980,1985,1990
29S.22W.11.243A	AVMB	-149.50	1-16-90	+4.95	-149.50	1990	-169.80	1980	H	1980,1985,1990
29S.22W.11.423	AVMB	-178.50	1-16-90	-7.38	-137.71	1957	-178.50	1990	I	1957,1980,1985,1990
29S.22W.12.131	AVMB	-142.92	1-16-90	+9.33	-142.92	1990	-169.32	1980	I	1960,1980,1985,1990
29S.22W.12.133	AVMB	-139.61	1-09-90	+13.66	-139.61	1990	-182.58	1977	I	1968-81,1983-90

Middle Rio Grande Monitoring Area

The Middle Rio Grande monitoring area is adjacent to the Rio Grande and extends from near Jemez Canyon Reservoir to about 35 miles south of Socorro. The area is in parts of Sandoval, Bernalillo, Valencia, Torrance, and Socorro Counties, central New Mexico. Water-level declines range from less than 1 foot to more than 13 feet. Rises range from less than 1 to more than 21 feet. From Tps. 8 to 14 N. most water-level changes are declines, ranging from less than 1 foot to more than 7 feet. South of T. 8 N. to T. 1 S. water-level changes east of the Rio Grande are mostly declines of less than 1 to more than 2 feet; west of the river declines are mixed with rises. Water-level changes south and west of Socorro are mostly declines. East of the Rio Grande and south of Socorro rises predominantly range from less than 1 foot to more than 11 feet.

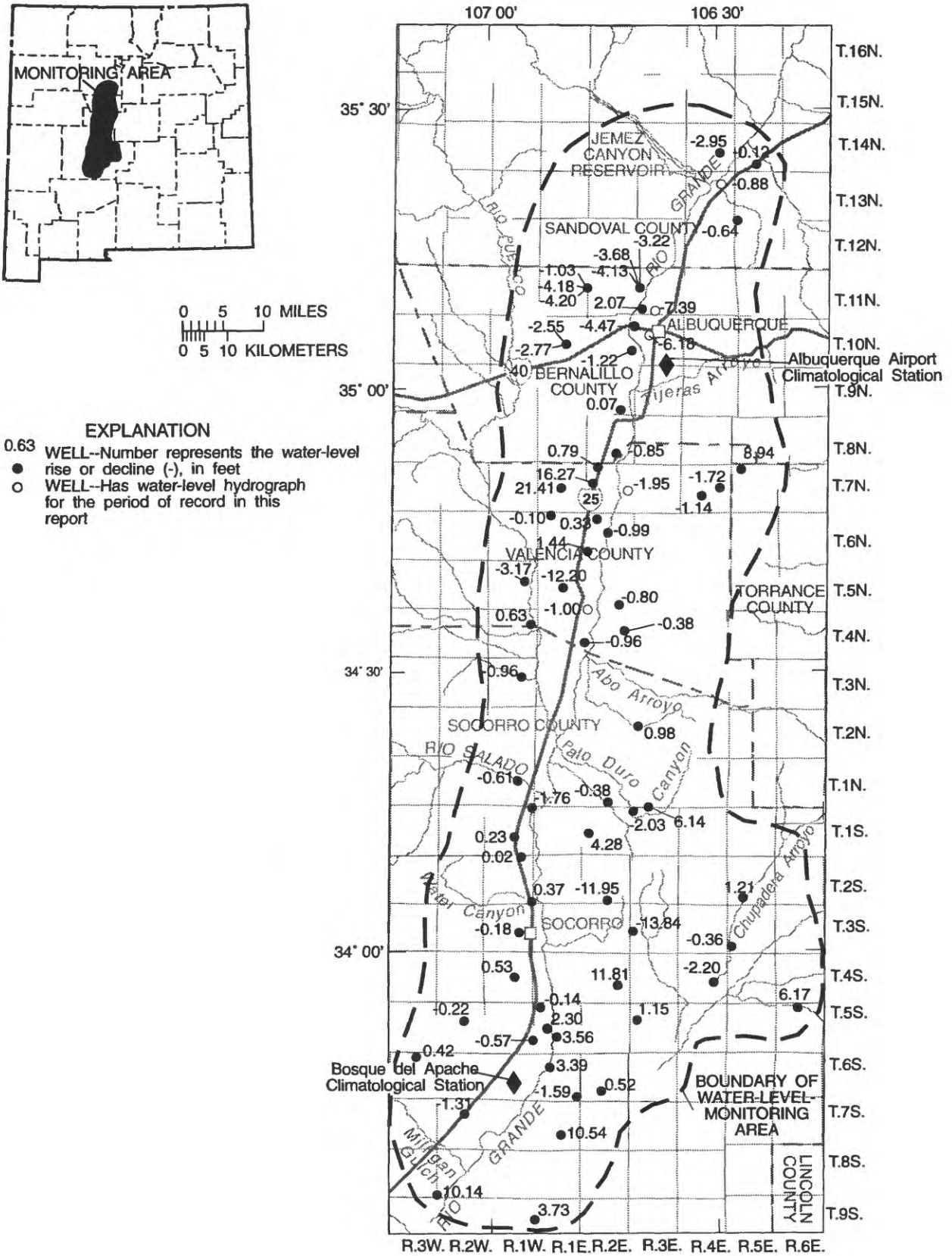

Figure 15.--Water-level changes for wells in the Middle Rio Grande monitoring area, 1985-90.

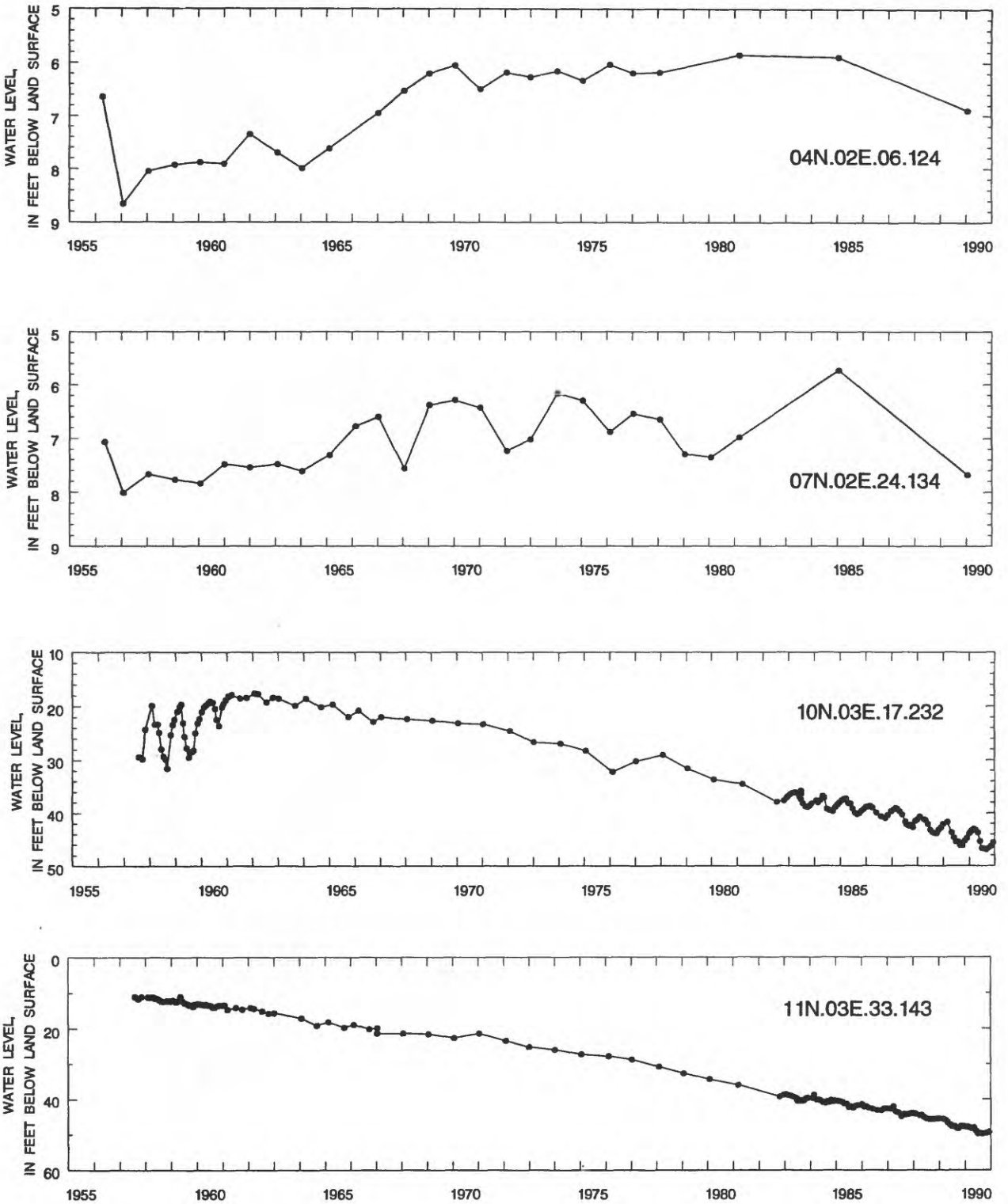

Figure 16.--Water-level data for selected wells in the Middle Rio Grande monitoring area and annual precipitation at the Albuquerque Airport and Bosque del Apache Climatological Stations. See figure 15 for locations of wells and stations.

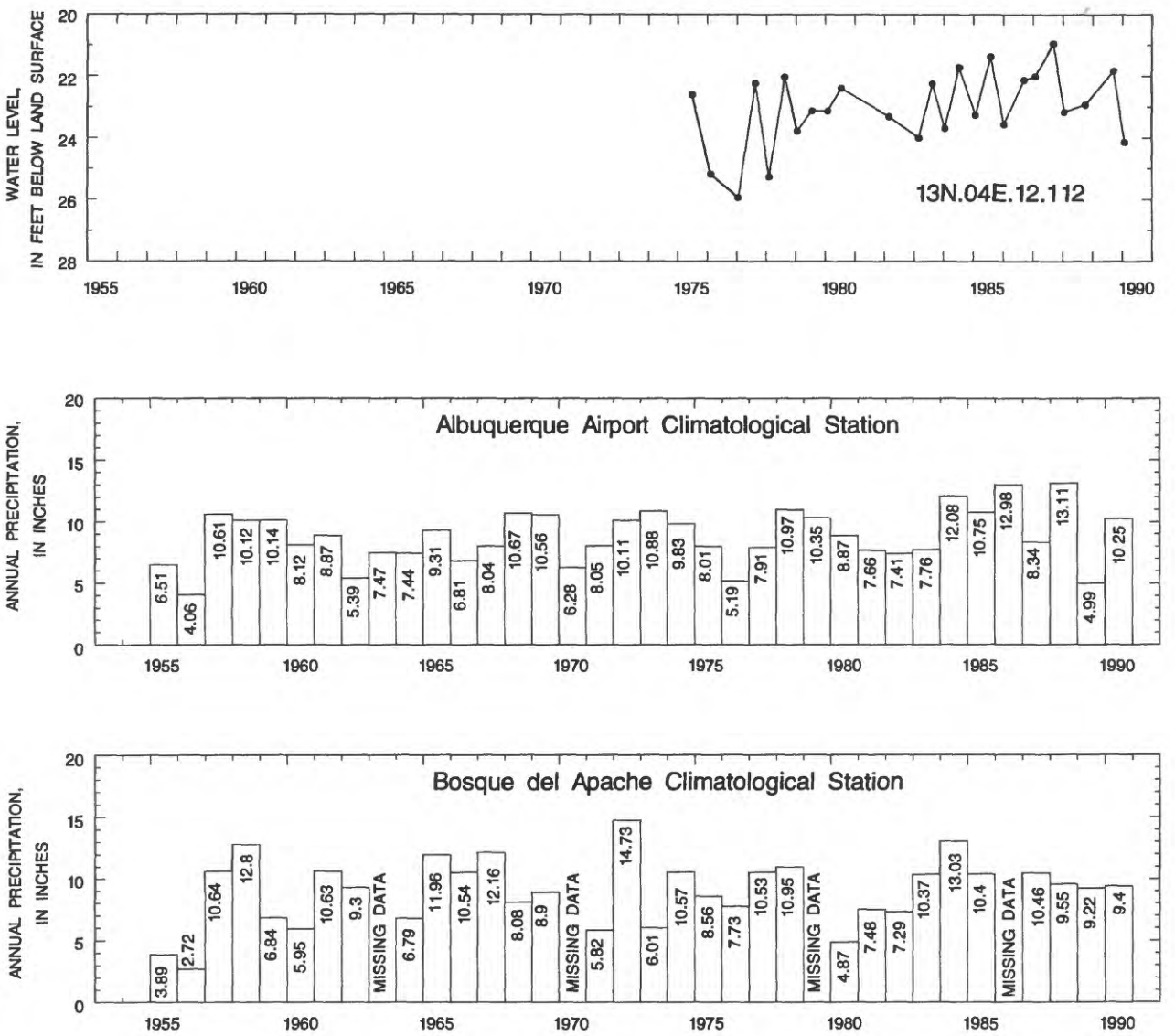

Figure 16.--Water-level data for selected wells in the Middle Rio Grande monitoring area and annual precipitation at the Albuquerque Airport and Bosque del Apache Climatological stations. See figure 15 for location of wells and stations--Concluded.

Table 7.--Well location and water-level data for selected wells in the Middle Rio Grande monitoring area, Sandoval, Bernalillo, Valencia, Torrance, and Socorro Counties, New Mexico

[Geologic unit, primary producing zone for the well: ABO, Abo Sandstone (Lower Tongue); AVMB, alluvium, bolson deposits, and other surface deposits; SNTF, Santa Fe Group; YESO, Yeso Formation. Winter water level, site status: S, nearby pumping. Use of water: C, commercial; H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
01N.01W.13.244	SNTF	-166.92	2-09-90	--	-162.74	1983	-167.70	1976	P	1976,1982-90
01N.01W.15.443	--	-10.24	1-24-90	-0.61	-9.63	1985	-12.52	1980	S	1980,1982,1985,1990
01N.02E.34.1331	--	-32.82	1-24-90	-0.38	-32.44	1985	-32.82	1990	U	1985,1990
01N.03E.32.444	--	-44.70	1-24-90	+6.14	-44.70	1990	-50.84	1985	S	1985,1990
02N.01E.04.444	AVMB	-11.99	2-09-90	--	-11.99	1989	-12.74	1990	H	1983-90
02N.01E.31.313	--	-137.17	2-09-90	--	-136.75	1987	-139.78	1988	H	1975,1982-90
02N.03E.18.232	--	-308.82	2-09-90	+0.98	-308.82	1990	-329.61	1983	S	1949,1983-90
03N.01W.14.114	--	-114.22	1-24-90	-0.96	-113.26	1985	-114.22	1990	S	1980,1985,1990
04N.01E.25.222	AVMB	-3.16	1-24-90	-0.96	-2.20	1985	-6.89	1956	I	1956-78,1981,1985,1990
04N.01W.12.341	SNTF	-57.80	1-25-90	+0.63	-57.76	1989	-58.43	1985	U	1985-86,1988-90
04N.02E.06.124	AVMB	-6.89	1-24-90	-1.00	-5.85	1981	-8.66	1957	I	1956-78,1981,1985,1990
04N.02E.14.244	--	-174.07	1-22-90	-0.38	-172.14	1988	-177.52	1986	S	1985-90
04N.02E.17.244	--	-253.01	2-09-90	--	-252.43	1987	-253.73	1988	H	1983-90
05N.01E.22.141	--	-371.59	2-09-90	-12.20	-359.39	1985	-372.45	1990	C	1983-90
05N.01E.35.143	SNTF	-187.46	2-09-90	-0.80	-186.66	1985	-200.00	1983	H	1983-90
05N.01W.14.233	--	-91.79	1-25-90	-3.17	-88.62	1985	-92.34	1986	S	1985-90
05N.03E.08.224	--	-239.91	2-07-90	--	-239.91	1990	-239.91	1990	S	1985,1990
06N.01E.05.412	--	-476.75	1-25-90	-0.10	-476.43	1987	-477.69	1956	U	1956-60,1985-90
06N.02E.05.333	--	-11.72	1-24-90	+0.33	-9.24	1989	-12.20	1987	I	1985-90
06N.02E.16.423	AVMB	-7.75	1-22-90	-0.99	-6.67	1974	-8.51	1957	I	1956-77,1979-81,1985,1990
06N.02E.30.313	AVMB	-16.82	1-24-90	+1.44	-16.82	1990	-21.34	1964	U	1956-81,1985,1990
06N.02E.30.412A	--	-6.36	2-09-90	--	-6.10	1990	-6.89	1989	U	1983-90
06N.02E.30.412B	SNTF	-6.53	2-09-90	--	-6.35	1987	-7.99	1989	H	1983,1985,1987-90
07N.01E.21.212	--	-448.63	2-01-90	+21.41	-448.63	1990	-470.04	1985	S	1985,1990
07N.02E.05.233	--	-131.61	2-07-90	+0.79	-131.61	1990	-132.40	1985	S	1985,1990
07N.02E.18.422	--	-139.18	1-25-90	+16.27	-136.61	1983	-176.58	1983	I	1982-90
07N.02E.24.134	AVMB	-7.68	1-22-90	-1.95	-5.73	1985	-8.01	1957	I	1956-81,1985,1990
07N.04E.23.122	--	-248.64	2-07-90	-1.72	-246.92	1985	-248.64	1990	S	1985,1990
07N.04E.28.121	--	-96.49	1-22-90	-1.14	-95.30	1986	-97.18	1989	P	1985-90
07N.05E.05.112	--	-257.10	1-25-90	+8.94	-257.10	1990	-266.04	1985	I	1985,1990
08N.02E.27.432	--	-12.79	2-01-90	-0.85	-11.94	1985	-12.79	1990	S	1985,1990
08N.03E.14.231	SNTF	-314.99	1-22-90	--	-285.04	1957	-318.75	1989	S	1957-75,1977-78,1980-81,1983-86, 1989-90
09N.01W.04.424	SNTF	-76.06	2-07-90	--	-74.68	1987	-76.87	1990	C	1983-90
09N.02E.12.214A	--	-10.51	1-05-90	--	-9.63	1988	-10.83	1990	U	1988-90
09N.02E.12.214B	SNTF	-10.45	1-05-90	--	-9.54	1988	-10.78	1990	U	1988-90

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Table 7.--Well location and water-level data for selected wells in the Middle Rio Grande monitoring area, Sandoval, Bernalillo, Valencia, Torrance, and Socorro Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
09N.02E.12.214C	SNTF	-9.88	1-05-90	--	-8.73	1988	-10.28	1990	U	1988-90
09N.02E.35.143	--	-8.63	1-22-90	+0.07	-5.40	1960	-12.55	1963	I	1956-81,1985,1990
09N.03E.07.131A	SNTF	-10.21	1-05-90	--	-9.37	1988	-10.60	1990	U	1988-90
09N.03E.07.131B	SNTF	-9.96	1-05-90	--	-7.67	1990	-10.26	1990	U	1988-90
09N.03E.07.131C	SNTF	-9.82	1-05-90	--	-7.52	1990	-10.13	1990	U	1988-90
09N.03E.07.241A	SNTF	-10.23	1-05-90	--	-7.48	1988	-10.39	1990	U	1988-90
09N.03E.07.241B	SNTF	-10.01	1-05-90	--	-6.62	1988	-10.42	1990	U	1988-90
09N.03E.07.241C	SNTF	-10.06	1-05-90	--	-6.53	1988	-10.42	1990	U	1988-90
09N.03E.08.144A	SNTF	-14.27	1-05-90	--	0.00	1988	-18.36	1990	U	1988-90
09N.03E.08.144B	SNTF	-19.90	1-05-90	--	-16.76	1988	-20.36	1990	U	1988-90
09N.03E.08.144C	SNTF	-20.18	1-05-90	--	-17.11	1988	-20.81	1989	U	1988-90
09N.03E.19.243	--	-70.25	1-05-90	--	-69.20	1987	-70.64	1990	U	1983,1985-90
10N.01E.22.322B	--	-885.40	1-12-90	-2.55	-881.40	1986	-891.19	1986	U	1983-90
10N.01E.22.322C	--	-883.52	1-12-90	-2.77	-880.00	1983	-889.66	1986	U	1983-90
10N.01W.21.134	--	-57.20	1-09-90	--	-56.53	1989	-58.99	1988	S	1985-90
10N.02E.12.241	--	-35.36	1-05-90	-4.47	-14.22	1958	-36.52	1990	U	1957-90
10N.02E.25.213	SNTF	-11.14	1-05-90	-1.22	-8.83	1984	-11.68	1990	U	1983-90
10N.03E.07.434	AVMB	-32.17	1-05-90	--	-22.32	1971	-33.27	1990	U	1971-90
10N.03E.17.232	--	-43.80	1-05-90	-6.18	-17.60	1962	-46.84	1990	U	1957-90
10N.04E.21.433	--	-651.00	3-02-90	--	-619.00	1986	-686.00	1989	P	1984-86,1988-90
10N.04E.22.342	SNTF	-735.00	3-21-90	--	-523.00	1964	-742.00	1989	P	1962,1964-69,1982,1984-90
10N.04E.25.32423	--	-34.76	1-09-90	--	-29.15	1988	-34.76	1990	U	1988-90
10N.04E.28.223	--	-698.00	3-20-90	--	-678.00	1989	-725.00	1989	P	1988-90
10N.05E.12.434	--	-27.47	1-09-90	--	-23.65	1988	-28.88	1990	U	1988-90
10N.05E.22.14323	--	-47.84	1-09-90	--	-43.92	1988	-48.72	1990	U	1988-90
10N.05E.25.4222	--	-41.87	1-09-90	--	-36.11	1988	-42.46	1990	U	1988-90
10N.06E.05.33231	--	-66.75	1-09-90	--	-56.71	1988	-68.29	1990	U	1988-90
11N.02E.18.313B	--	-768.60	1-12-90	-1.03	-766.63	1987	-774.62	1986	--	1982-90
11N.02E.18.313C	--	-788.83	1-12-90	-4.18	-781.00	1982	-794.20	1986	U	1982-90
11N.02E.18.313D	--	-790.22	1-12-90	-4.20	-769.00	1982	-795.33	1986	U	1982-90
11N.02E.21.244	SNTF	-446.00	2-13-90	--	-401.78	1983	-448.00	1989	U	1980,1982-90
11N.02E.24.223	SNTF	-100.37	1-08-90	--	-99.60	1988	-102.65	1990	H	1983-90
11N.02E.25.341A	SNTF	-9.67	1-05-90	--	-9.17	1989	-10.83	1990	U	1988-90
11N.02E.25.341B	SNTF	-9.60	1-05-90	--	-9.11	1989	-10.80	1990	U	1988-90
11N.02E.25.341C	SNTF	-7.77	1-05-90	--	-6.30	1990	-9.14	1990	U	1988-90

Table 7.--Well location and water-level data for selected wells in the Middle Rio Grande monitoring area, Sandoval, Bernalillo, Valencia, Torrance, and Socorro Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
11N.02E.28.222	AVMB	-450.00	3-24-90	--	-375.00	1968	-450.00	1990	P	1968,1978,1986-90
11N.02E.35.142	SNTF	-149.34	1-08-90	--	-148.03	1985	-210.00	1978	I	1978,1982-90
11N.03E.13.242	SNTF	-344.53S	1-09-90	--	-300.00	1976	-347.06	1990	H	1976,1985-86,1988-90
11N.03E.18.411B	--	-27.35	1-05-90	-3.22	-23.88	1985	-28.73	1990	U	1983-90
11N.03E.18.411C	--	-33.17	1-05-90	-3.68	-3.03	1988	-35.49	1989	U	1983-90
11N.03E.18.411D	--	-34.54	1-05-90	-4.13	-29.07	1987	-37.11	1989	U	1983-90
11N.03E.31.214	--	-20.80	1-08-90	+2.07	-8.40	1958	-30.66	1990	U	1957-90
11N.03E.32.234A	SNTF	-38.12	1-05-90	--	-35.27	1988	-40.06	1990	U	1988-90
11N.03E.32.234B	SNTF	-35.96	1-05-90	--	-33.10	1988	-36.34	1990	U	1988-90
11N.03E.32.234C	AVMB	-36.19	1-05-90	--	-33.37	1988	-36.58	1990	U	1988-90
11N.03E.33.143	--	-47.89	1-05-90	-7.39	-10.96	1959	-49.85	1990	U	1957-90
11N.04E.06.424	--	-497.41	1-12-90	--	-496.70	1989	-499.05	1990	U	1989-90
11N.04E.18.124	--	-461.70	1-08-90	--	-453.35	1988	-465.51	1990	T	1985-90
12N.03E.35.342	--	-7.36	1-12-90	--	-5.24	1990	-7.36	1990	--	1989-90
12N.03E.35.414	--	-6.73	1-12-90	--	-4.84	1990	-6.73	1990	--	1989-90
12N.04E.17.424	SNTF	-294.50	1-12-90	--	-291.96	1957	-301.13	1981	S	1957-75,1977-78,1980-81,1985-86, *1989-90
13N.03E.36.132A	--	-145.00	1-08-90	--	-142.91	1988	-146.78	1989	H	1985-90
13N.04E.12.112	AVMB	-24.14	1-23-90	-0.88	-20.94	1987	-25.94	1977	I	1975-80,1982-90
13N.04E.19.243	--	-31.57	1-08-90	--	-30.17	1988	-31.92	1989	U	1985-90
13N.04E.19.421	AVMB	-32.24	1-08-90	--	-31.04	1989	-38.01	1988	N	1983-90
13N.04E.34.422	SNTF	-430.44	1-08-90	--	-429.58	1987	-439.86	1988	H	1982-90
13N.05E.31.344	--	-126.78	1-24-90	-0.64	-126.14	1985	-126.78	1990	I	1985,1990
14N.04E.23.143	SNTF	-459.29	1-22-90	-2.95	-456.34	1985	-459.29	1990	S	1975-77,1980-81,1985,1990
14N.05E.28.224	AVMB	-99.55	1-22-90	-0.12	-99.43	1985	-101.90	1976	S	1975-81,1985,1990
01S.01W.01.213	AVMB	-10.40	2-09-90	-1.76	-5.09	1986	-12.21	1989	U	1983-90
01S.01W.22.431	--	-119.39	1-30-90	+0.23	-119.35	1988	-120.85	1989	U	1985-90
01S.02E.19.241	--	-37.64	1-24-90	+4.28	-37.64	1990	-41.92	1985	U	1985,1990
01S.03E.06.321	ABO	-13.20	1-24-90	-2.03	-11.00	1949	-13.20	1990	S	1949,1985,1990
02S.01W.02.124	--	-16.41	1-31-90	+0.02	-16.41	1990	-16.43	1985	U	1985,1990
02S.01W.36.433	AVMB	-15.12	1-26-90	+0.37	-14.99	1989	-15.49	1985	I	1985-90
02S.02E.34.134	--	-45.30	1-30-90	-11.95	-33.35	1985	-45.30	1990	S	1985,1990
02S.05E.32.222	--	-245.22	1-31-90	+1.21	-245.22	1990	-246.43	1985	S	1985,1990
03S.01W.23.312	--	-261.40	1-26-90	-0.18	-260.69	1988	-263.25	1989	U	1985-86,1988-90
03S.03E.19.141	--	-19.20	1-30-90	-13.84	-5.36	1985	-19.20	1990	S	1985,1990
03S.05E.31.213	--	-136.80	1-31-90	-0.36	-136.44	1985	-136.80	1990	S	1985,1990

Table 7.--Well location and water-level data for selected wells in the Middle Rio Grande monitoring area, Sandoval, Bernalillo, Valencia, Torrance, and Socorro Counties, New Mexico--Concluded

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
04S.01W.22.212	--	-480.87	1-26-90	+0.53	-480.00	1951	-484.72	1988	I	1951,1985-90
04S.02E.23.344	--	-7.42	1-30-90	+11.81	-7.42	1990	-19.23	1985	S	1985,1990
04S.04E.23.323	--	-48.90	1-25-90	-2.20	-46.70	1985	-48.90	1990	S	1985,1990
05S.01E.06.423	--	-11.24	1-25-90	-0.14	-10.10	1987	-11.24	1990	I	1985-90
05S.01E.20.241	--	-7.35	1-25-90	+2.30	-7.35	1990	-12.00	1958	U	1958,1985,1990
05S.01E.28.212	--	-10.85	1-25-90	+3.56	-10.85	1990	-14.41	1985	U	1985,1990
05S.01W.25.422	--	-12.32	1-25-90	-0.57	-11.75	1985	-12.32	1990	S	1985,1990
05S.02W.15.144	--	-251.54	1-29-90	-0.22	-251.32	1985	-251.54	1990	S	1985,1990
05S.03E.17.1113	--	-243.30	1-30-90	+1.15	-243.30	1990	-244.45	1985	S	1955,1985,1990
05S.06E.04.412	--	-236.30	1-31-90	+6.17	-236.30	1990	-242.47	1985	U	1985,1990
06S.01E.09.333	AVMB	-11.65	1-25-90	+3.39	-10.80	1966	-15.04	1985	U	1966,1985,1990
06S.01E.36.233	YESO	-260.69	1-25-90	-1.59	-256.42	1955	-260.69	1990	I	1955,1985,1990
06S.02E.28.413	--	-258.76	1-26-90	+0.52	-256.54	1988	-259.82	1989	S	1985-86,1988-90
06S.03W.10.111	--	-455.58	1-29-90	+0.42	-455.58	1990	-456.00	1985	I	1985,1990
07S.01E.27.214	SNTF	-246.72	1-25-90	+10.54	-226.00	1955	-257.26	1985	U	1955,1985,1989-90
07S.02W.10.341	AVMB	-187.51	1-29-90	-1.31	-168.08	1988	-188.36	1986	I	1985-90
08S.03W.36.444	--	-31.54	1-29-90	+10.14	-31.54	1990	-41.68	1985	S	1985,1990
09S.01E.18.324	--	-322.15	1-26-90	+3.73	-260.64	1987	-325.88	1985	U	1985,1987,1990

Virden Monitoring Area

The Virden monitoring area is in Hidalgo County in western New Mexico. All changes are declines ranging between 1.26 and 2.30 feet.

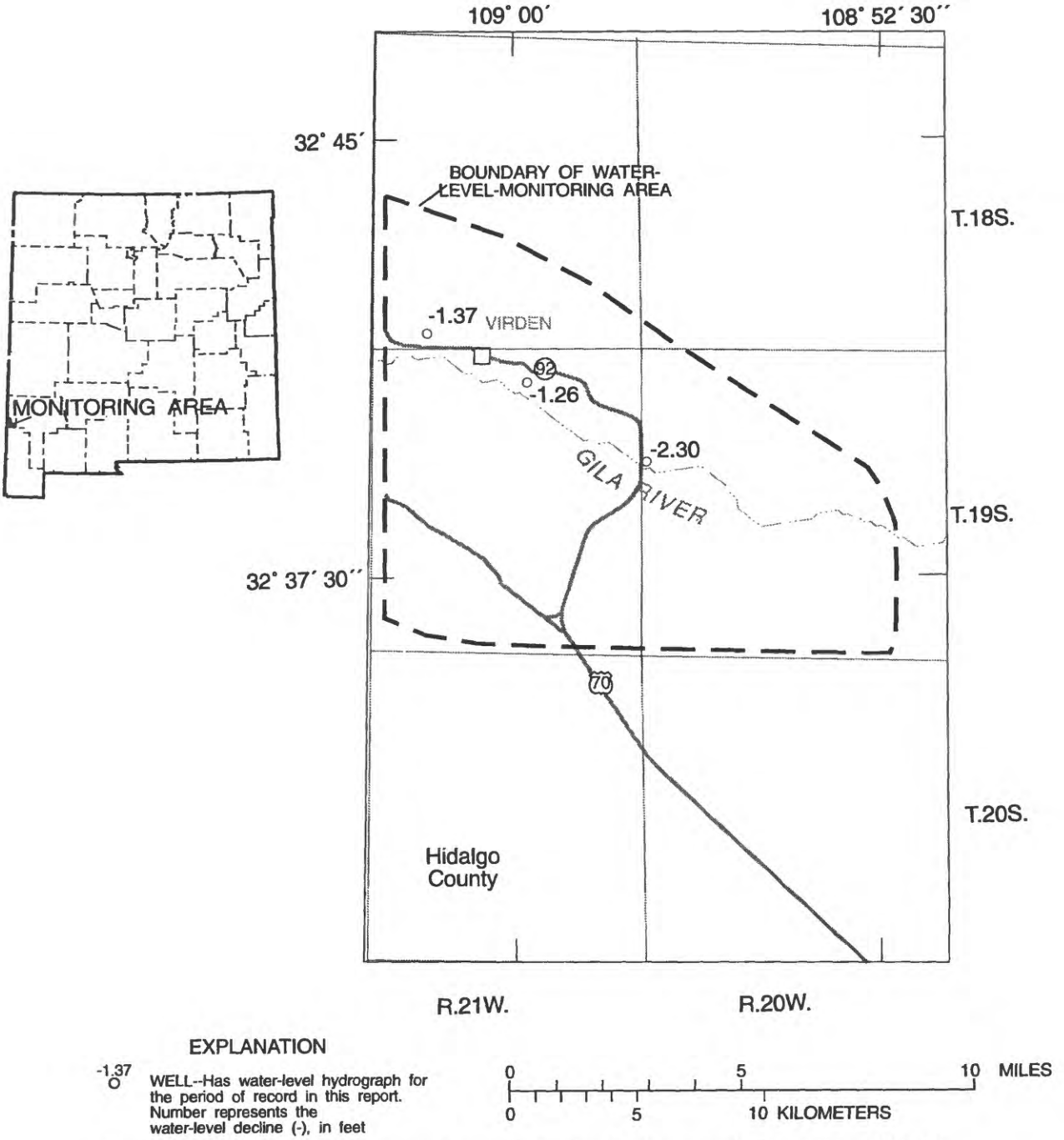

Figure 17.--Water-level changes for wells in the Virden monitoring area, 1985-90.

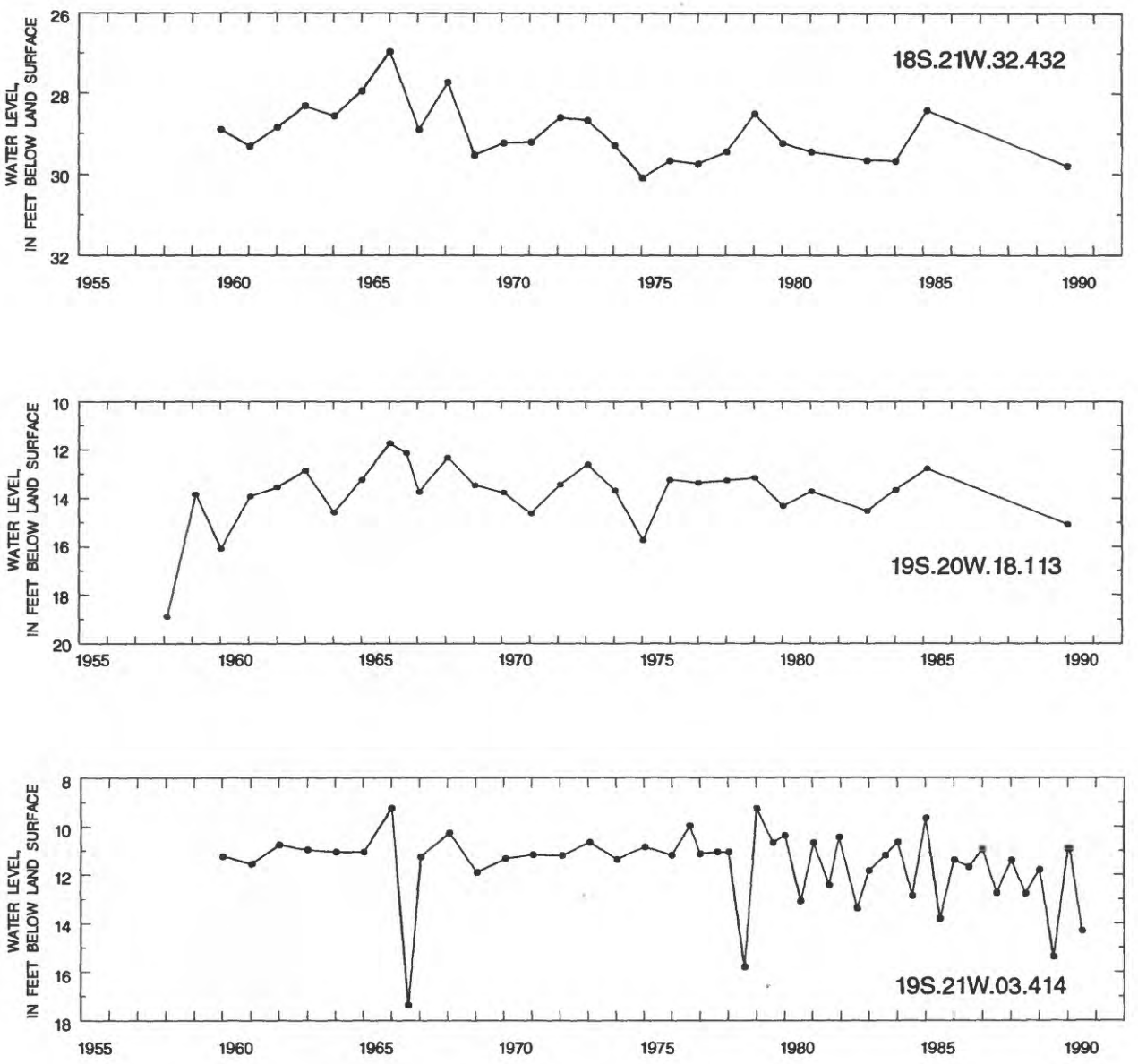

Figure 18.--Water-level data for selected wells in the Virden monitoring area. See figure 17 for location of wells.

Table 8.--Well location and water-level data for selected wells in the Virden monitoring area, Hidalgo County, New Mexico

[Geologic unit, primary producing zone for the well: AVBM, alluvium, bolson deposits, and other surface deposits. Use of water: I, irrigation]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
18S.21W.32.432	AVMB	-29.79	1-30-90	-1.37	-26.97	1966	-30.08	1975	I	1959-81,1983-85,1990
19S.20W.18.113	AVMB	-15.07	1-30-90	-2.30	-11.74	1966	-19.25	1958	I	1958-81,1983-85,1990
19S.21W.03.414	AVMB	-10.91	1-08-90	-1.26	-9.24	1966	-17.37	1966	I	1959-90

Gila River Monitoring Area

The Gila River monitoring area is in Grant County, southwestern New Mexico, along the Gila River and its tributaries. Water-level declines range from less than 1 to more than 8 feet. Rises range from less than 1 foot to more than 11 feet. Two wells just south of Gila have water-level rises. A rise of more than 11 feet has occurred in a well in T. 17 S., R. 16 W.

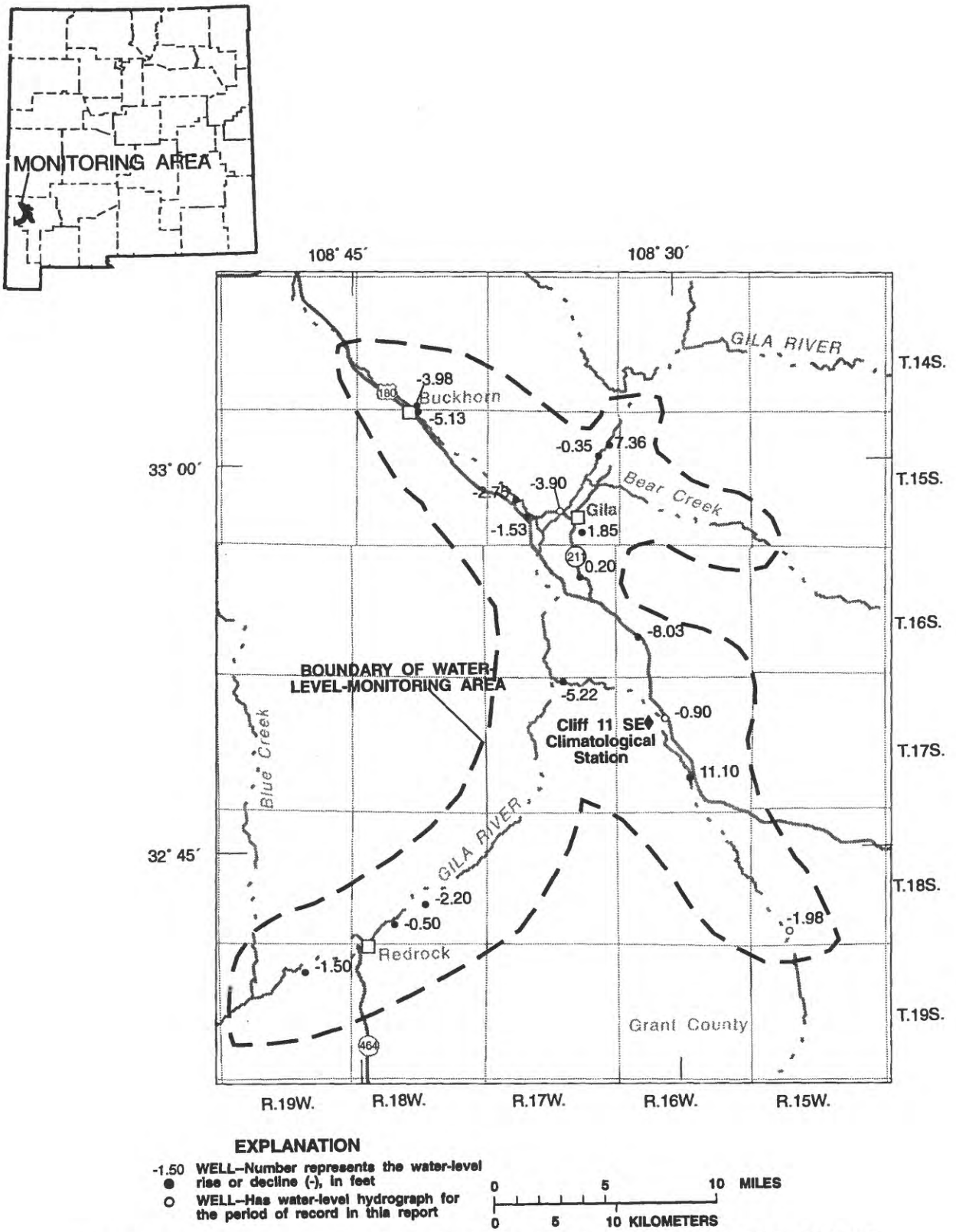

Figure 19.--Water-level changes for wells in the Gila River monitoring area, 1985-90.

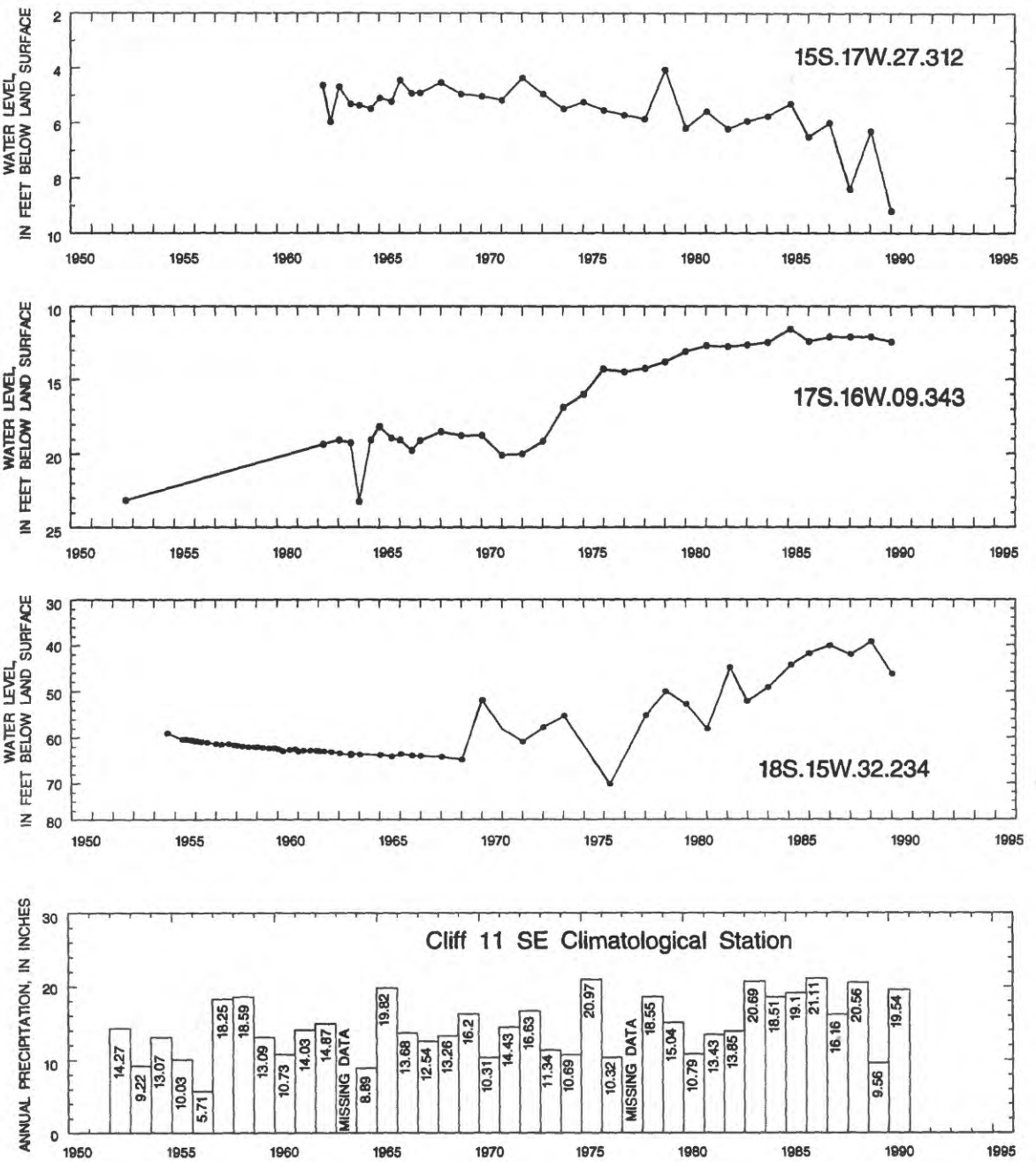

Figure 20.--Water-level data for selected wells in the Gila River monitoring area and annual precipitation at the Cliff 11 SE Climatological Station. See figure 19 for location of wells and station.

FIGURES--Continued

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Figure 55. Map showing water-level changes for wells in the Lordsburg monitoring area, 1988-93 206

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57. Map showing water-level changes for wells in the Santa Fe County monitoring area, 1988-93 211

58. Plots showing water-level data for selected wells in the Santa Fe County monitoring area and annual precipitation at the Santa Fe 2 Climatological Station 212

59. Map showing water-level changes for wells in the Upper Rio Grande monitoring area, 1988-93 217

60. Plots showing water-level data for selected wells in the Upper Rio Grande monitoring area and annual precipitation at the Cerro Climatological Station 218

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62. Plots showing water-level data for selected shallow wells in the Roswell Basin monitoring area and annual precipitation at the Hope Climatological Station 223

63. Map showing water-level changes for selected artesian wells in the Roswell Basin monitoring area, 1984-89 233

64. Plots showing water-level data for selected artesian wells in the Roswell Basin monitoring area and annual precipitation at the Bitter Lakes Climatological Station 234

65. Map showing water-level changes for wells in the Rio Hondo monitoring area, 1984-89 243

66. Plots showing water-level data for selected wells in the Rio Hondo monitoring area and annual precipitation at the Ruidoso 2 Climatological Station 244

67. Map showing water-level changes for wells in the Rio Peñasco monitoring area, 1984-89 248

68. Plots showing water-level data for selected wells in the Rio Peñasco monitoring area and annual precipitation at the Cloudcroft Climatological Station 249

69. Map showing water-level changes for wells in the Grants-Bluewater monitoring area, 1984-89 252

70. Plots showing water-level data for selected wells in the Grants-Bluewater monitoring area and annual precipitation at the Grants Airport Climatological Station 253

Table 9.--Well location and water-level data for selected wells in the Gila River monitoring area, Grant County, New Mexico

[Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; GILA, Gila Conglomerate (Group). Use of water: H, domestic; I, irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1985 to winter 1990 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
14S.18W.33.423	GILA	-25.40	1-10-90	-3.98	-19.71	1979	-39.76	1964	I	1962-90
15S.17W.11.440	--	-9.05	1-11-90	-0.35	-8.10	1986	-9.61	1982	I	1982-90
15S.17W.12.140	--	-11.10	1-11-90	+7.36	-10.00	1987	-22.47	1982	I	1982-90
15S.17W.13.134	--	-7.40	1-11-90	--	-6.80	1989	-11.20	1987	I	1982-83,1987-90
15S.17W.27.312	AVMB	-9.20	1-11-90	-3.90	-4.06	1979	-9.20	1990	I	1962-90
15S.17W.29.112	AVMB	-11.20	1-11-90	-2.75	-6.47	1973	-11.20	1990	I	1962-85,1987-90
15S.17W.29.441	--	-13.15	1-10-90	-1.53	-11.62	1985	-13.57	1983	I	1982-90
15S.17W.35.134	AVMB	-28.05	1-11-90	+1.85	-1.31	1984	-32.28	1983	I	1962-85,1990
15S.17W.35.342	GILA	-46.10	1-11-90	--	-27.45	1987	-47.80	1971	U	1962-84,1986-90
15S.18W.04.221	AVMB	-12.80	1-10-90	-5.13	-7.67	1985	-21.08	1963	I	1962-90
16S.16W.30.210	--	-22.95	1-11-90	-8.03	-13.70	1987	-23.12	1982	S	1982-88,1990
16S.17W.11.321	--	-29.70	1-11-90	+0.20	-25.60	1986	-31.25	1983	S	1982-88,1990
17S.16W.09.343	AVMB	-12.45	1-11-90	-0.90	-11.55	1985	-23.22	1964	I	1952,1962-90
17S.16W.27.143B	--	-38.30	1-11-90	+11.10	-38.30	1990	-56.02	1982	S	1982-90
17S.17W.03.120	--	-14.10	1-11-90	-5.22	-8.88	1985	-14.10	1990	U	1982-90
18S.15W.32.234	GILA	-46.30	1-11-90	-1.98	-39.30	1989	-71.97	1976	U	1954-90
18S.18W.27.110	--	-20.50	1-02-90	-2.20	-18.30	1985	-21.41	1982	I	1982-88,1990
18S.18W.32.223	AVMB	-8.70	1-02-90	-0.50	-8.20	1985	-10.00	1982	H	1955,1982,1984-88,1990
19S.19W.10.223	--	-14.40	1-02-90	-1.50	-12.90	1985	-14.40	1990	I	1982-88,1990

Northern High Plains Monitoring Area

The Northern High Plains monitoring area is located in Colfax and Union Counties, northeastern New Mexico. Not all water-level changes are shown on the map; however, all well locations and water-level data are listed in the table. Well locations marked with an asterisk (*) in the table are plotted on the map.

Most water-level changes in the area are declines. These declines range from less than 1 foot to more than 32 feet. Rises in water levels range from less than 1 foot to more than 28 feet. Mostly rising water levels are found in Rs. 28 to 33 E. within Tps. 24 and 25 N. South of Clayton most changes are declines.

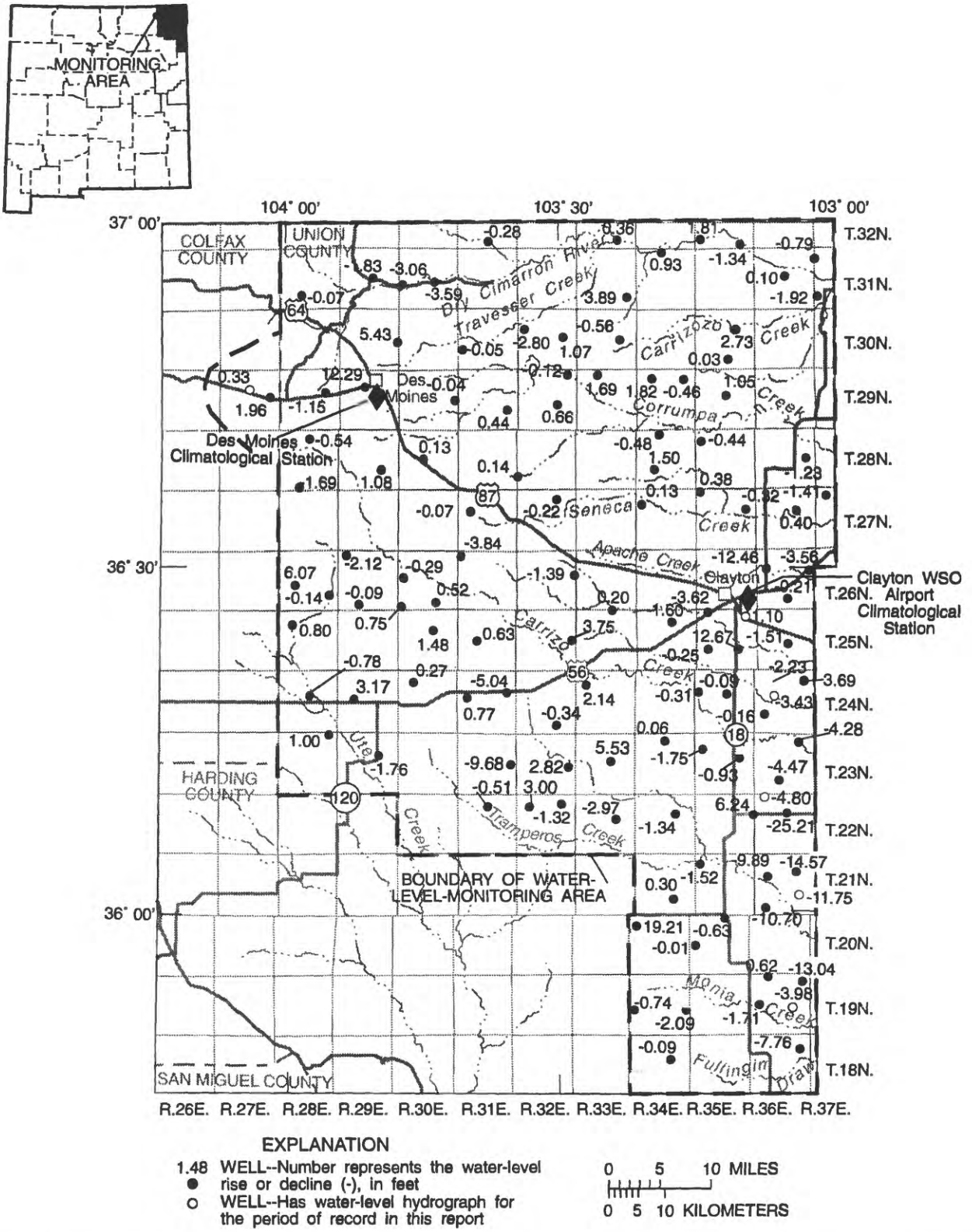

Figure 21.--Water-level changes for selected wells in the Northern High Plains monitoring area, 1986-91.

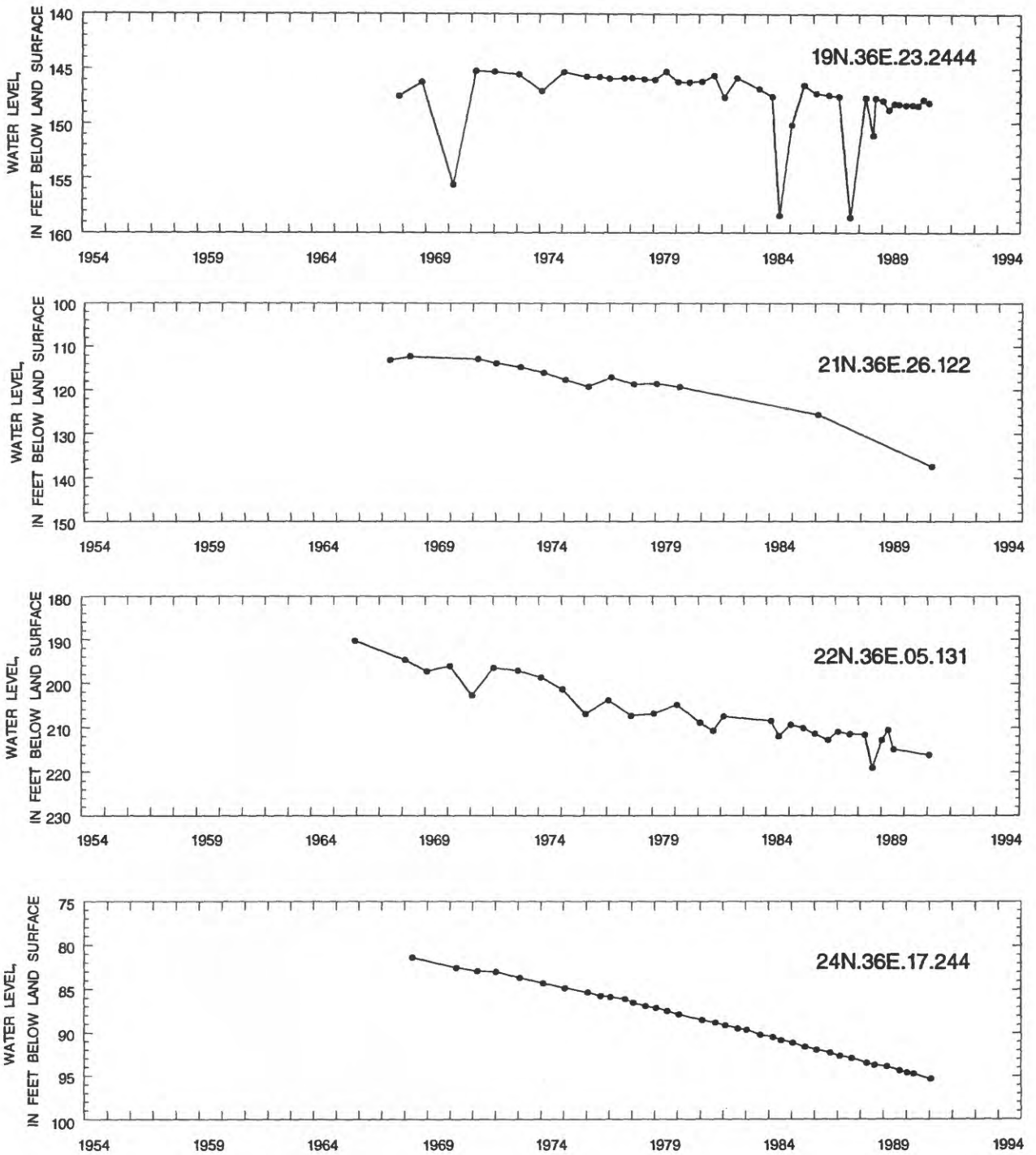

Figure 22.--Water-level data for selected wells in the Northern High Plains monitoring area and annual precipitation at the Clayton WSO Airport and Des Moines Climatological Stations. See figure 21 for location of wells and stations.

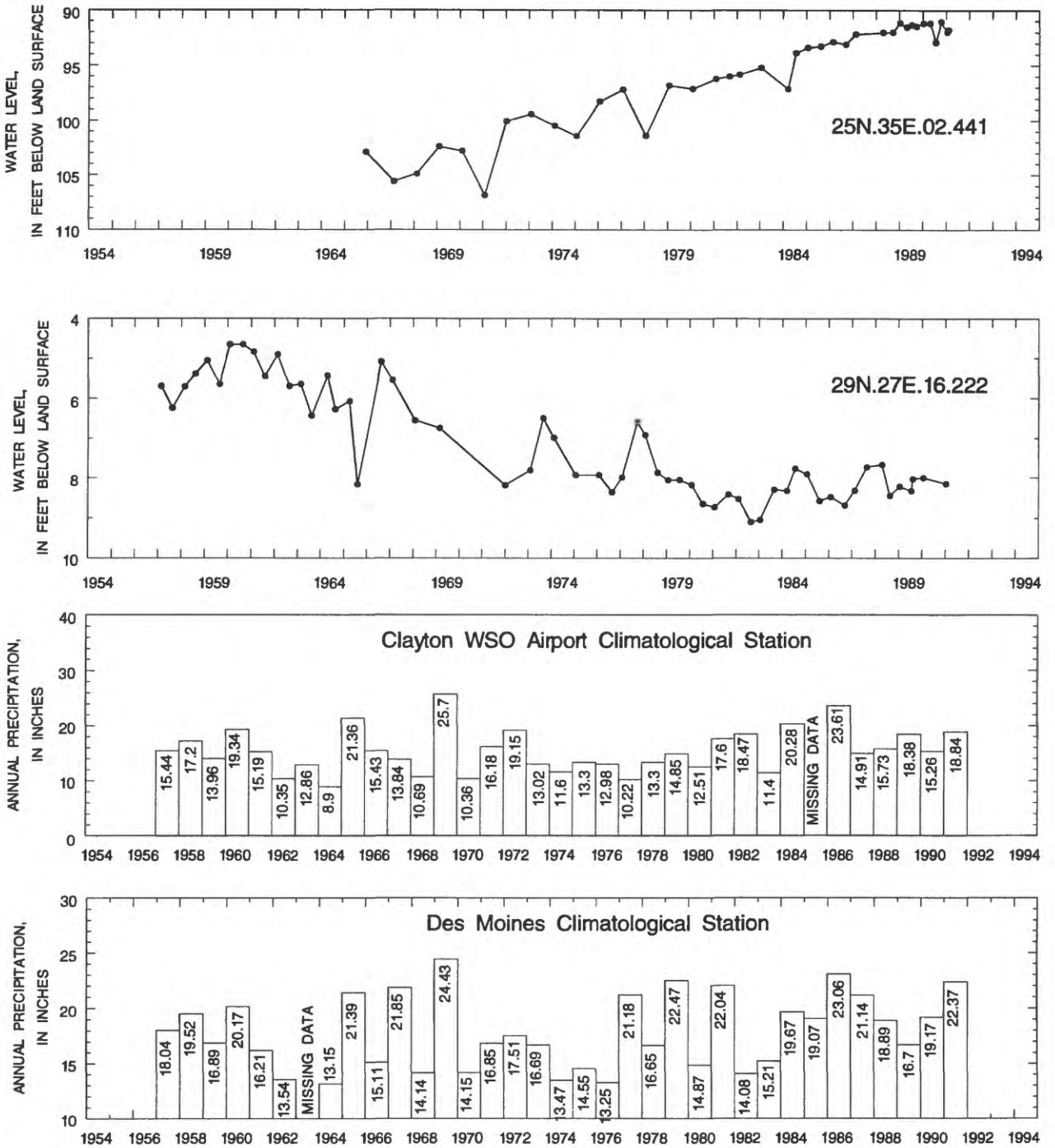

Figure 22.--Water-level data for selected wells in the Northern High Plains monitoring area and annual precipitation at the Clayton WSO Airport and Des Moines Climatological Stations. See figure 21 for location of wells and stations--Concluded.

Table 10.--Well location and water-level data for selected wells in the Northern High Plains monitoring area, Colfax and Union Counties, New Mexico

[*, well location and change data are plotted on the corresponding map. Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; DKOT, Dakota Sandstone or Formation; MRSN, Morrison Formation; OGLL, Ogallala Formation; PRGR, Purgatoire Formation. Winter water level, site status: P, pumping; R, recently pumped. Use of water: H, domestic; I , irrigation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*18N.34E.15.422	DKOT	-104.74	2-01-91	-0.09	-104.65	1986	-106.65	1976	I	1970,1975-79,1981,1986,1991
*18N.36E.12.311	--	-207.26	1-31-91	-7.76	-197.69	1981	-207.26	1991	U	1981,1986,1991
18N.36E.26.224	--	-222.13	2-01-91	-0.70	-221.43	1986	-222.13	1991	U	1986,1991
18N.37E.06.111	--	-172.60	1-31-91	-0.93	-171.65	1981	-172.60	1991	I	1981,1986,1991
18N.37E.18.122	OGLL	-177.20	1-31-91	-1.75	-175.45	1986	-177.20	1991	I	1981,1986,1991
18N.37E.30.213	--	-261.24	1-31-91	--	-258.52	1981	-261.24	1991	I	1981,1986,1991
18N.37E.31.132	--	-210.03	1-31-91	--	-205.57	1981	-210.03	1991	I	1981,1986,1991
*19N.34E.19.213	--	-70.00	2-01-91	-0.74	-69.03	1981	-70.00	1991	I	1981,1986,1991
*19N.34E.24.411	--	-67.89	2-01-91	-2.09	-65.80	1986	-67.89	1991	I	1981,1986,1991
19N.34E.32.133	--	-148.67	2-01-91	--	-147.73	1981	-148.67	1991	I	1981,1991
*19N.36E.01.332222	OGLL	-142.70	1-31-91	-13.04	-113.85	1972	-142.70	1991	I	1972-81,1986,1991
19N.36E.04.422	--	-135.70	1-31-91	-2.85	-131.46	1981	-135.70	1991	U	1981,1986,1991
*19N.36E.05.121	--	-135.27	2-01-91	+0.62	-135.27	1991	-136.20	1981	U	1981,1986,1991
19N.36E.13.211	--	-142.70	1-31-91	-5.67	-137.03	1986	-152.64	1983	I	1981,1983,1986,1991
19N.36E.16.113	--	-116.00	1-31-91	--	-116.00	1991	-116.00	1991	I	1981,1991
*19N.36E.19.111	--	-23.31	1-31-91	-1.71	-21.60	1986	-23.31	1991	I	1981,1986,1991
*19N.36E.23.2444	OGLL	-151.23	1-31-91	-3.98	-145.22	1971	-151.23	1991	U	1967-68,1970-91
19N.36E.25.244	OGLL	-151.60	1-31-91	-0.78	-145.68	1977	-151.68	1967	U	1967-68,1970-81,1986,1991
*20N.34E.07.122	--	-14.74	1-31-91	+19.21	-14.74	1991	-33.95	1986	U	1981,1986,1991
20N.34E.15.141	--	-39.80	1-31-91	+5.83	-39.80	1991	-49.30	1981	U	1981,1986,1991
20N.34E.21.432	--	-24.44	1-31-91	--	-22.72	1981	-24.44	1991	I	1981,1991
20N.34E.33.444	--	-101.29	1-31-91	--	-65.70	1981	-101.29	1991	I	1981,1991
20N.35E.01.211	--	-91.47	2-01-91	--	-91.47	1991	-95.24	1981	I	1981,1991
*20N.35E.03.211	--	-56.40	1-31-91	-0.63	-54.80	1981	-56.40	1991	I	1981,1986,1991
20N.35E.07.222	--	-70.48	1-31-91	+1.75	-70.48	1991	-72.48	1981	U	1981,1986,1991
20N.35E.11.333	--	-116.96	1-31-91	--	-82.25	1981	-116.96	1991	I	1981,1991
20N.35E.15.344	--	-83.23	1-31-91	-2.33	-80.90	1986	-84.59	1981	I	1981,1986,1991
*20N.35E.19.211	--	-99.36	1-31-91	-0.01	-99.35	1986	-170.62	1981	I	1981,1986,1991
20N.36E.20.313	--	-126.96	2-01-91	-0.86	-124.90	1981	-126.96	1991	U	1981,1986,1991
20N.36E.26.414	--	-182.55	2-06-91	-8.57	-154.94	1981	-182.55	1991	I	1981,1986,1991
20N.36E.28.412222	DKOT	-157.05	2-06-91	-3.33	-150.60	1978	-160.80	1970	I	1967,1970-81,1986,1991
*21N.34E.27.231	--	-75.95	1-31-91	+0.30	-75.40	1981	-76.25	1986	I	1981,1986,1991
21N.34E.35.344	MRSN	-60.18	1-31-91	+0.32	-60.05	1974	-60.54	1985	I	1970,1972-88,1991
*21N.35E.06.324	--	-21.81	1-30-91	-1.52	-19.99	1981	-21.81	1991	U	1981,1986,1991
21N.35E.18.444	--	-64.65	1-31-91	-1.96	-62.69	1986	-66.53	1981	U	1981,1986,1991
21N.35E.23.344	--	-119.40	2-01-91	--	-119.40	1991	-125.40	1981	I	1981,1991
*21N.35E.28.333	--	-103.55	1-31-91	-32.85	-67.16	1981	-103.55	1991	I	1981,1986,1991
21N.36E.05.222	--	-174.72	1-31-91	-15.12	-143.60	1981	-174.72	1991	I	1981,1986,1991
*21N.36E.10.4224	--	-155.68	1-30-91	-14.57	-141.11	1986	-155.68	1991	U	1981,1986,1991
21N.36E.12.233	OGLL	-119.69	1-31-91	--	-106.82	1968	-124.62	1979	I	1967-68,1971-80,1991

Table 10.--Well location and water-level data for selected wells in the Northern High Plains monitoring area, Colfax and Union Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
21N.36E.12.333	--	-125.66	1-30-91	-9.99	-110.74	1981	-125.66	1991	I	1981,1986,1991
21N.36E.13.222	--	-122.24	1-30-91	-12.43	-108.06	1981	-122.24	1991	I	1981,1986,1991
21N.36E.16.213	--	-136.70	1-30-91	-8.71	-118.27	1981	-136.70	1991	I	1981,1986,1991
*21N.36E.20.1113	OGLL	-80.79	1-31-91	-9.89	-63.93	1981	-80.79	1991	U	1981,1986,1991
21N.36E.21.3331	--	-36.25	1-31-91	-7.20	-23.78	1981	-36.25	1991	I	1981,1986,1991
*21N.36E.26.122	DKOT	-137.37	1-31-91	-11.75	-112.28	1968	-137.37	1991	U	1967-68,1971-80,1986,1991
21N.36E.28.332	--	-71.02	1-31-91	-3.56	-64.19	1981	-71.02	1991	I	1981,1986,1991
*21N.36E.31.2243	--	-155.55	1-31-91	-10.70	-144.15	1981	-155.55	1991	I	1981,1986,1991
21N.36E.35.122	--	-118.30	1-30-91	-2.92	-112.50	1981	-118.30	1991	I	1981,1986,1991
21N.36E.36.2223	--	-151.76	1-30-91	-12.62	-136.68	1981	-151.76	1991	U	1981,1986,1991
*22N.31E.09.224	--	-107.75	1-29-91	-0.51	-107.24	1986	-108.85	1981	I	1981,1986,1991
*22N.32E.02.434	--	-27.99	1-29-91	-1.32	-26.48	1981	-27.99	1991	I	1981,1986,1991
*22N.32E.08.112	--	-29.68	1-29-91	+3.00	-27.22	1981	-32.68	1986	I	1981,1986,1991
22N.33E.01.231	--	-47.10	1-30-91	--	-47.10	1991	-48.00	1981	I	1981,1991
*22N.33E.14.311	--	-184.10	1-29-91	-2.97	-181.13	1986	-184.10	1991	U	1981,1986,1991
*22N.34E.10.444	--	-109.07	1-30-91	-1.34	-98.70	1981	-109.07	1991	I	1981,1986,1991
22N.34E.23.342	--	-15.67	1-30-91	+5.73	-15.67	1991	-21.40	1986	I	1981,1986,1991
22N.34E.30.333	--	-104.60	1-29-91	-9.66	-89.25	1981	-104.60	1991	I	1981,1986,1991
*22N.35E.13.2111	DKOT	-189.58	1-26-91	+6.24	-157.76	1968	-195.82	1986	I	1968,1970-81,1986,1991
22N.35E.33.112	DKOT	-191.44	1-30-91	+0.96	-183.13	1970	-192.40	1986	I	1970,1973-81,1986,1991
22N.36E.04.121	DKOT	-213.61	1-28-91	-5.70	-179.91	1973	-213.61	1991	I	1970-81,1986,1991
*22N.36E.05.131	OGLL	-216.20	1-28-91	-4.80	-190.34	1965	-219.13	1988	I	1965,1968-82,1984-89,1991
22N.36E.06.211	DKOT	-190.77	1-28-91	--	-178.60	1968	-208.84	1975	I	1967-68,1970-81,1990-91
22N.36E.10.411	DKOT	-243.14	1-28-91	--	-168.37	1968	-243.14	1991	I	1967-68,1970,1972-77,1979-80 1986,1991
*22N.36E.15.1211	DKOT	-221.60	1-26-91	-25.21	-152.05	1970	-221.60	1991	I	1970-81,1986,1991
22N.36E.18.423331	DKOT	-211.15	1-26-91	--	-155.84	1973	-211.15	1991	I	1972-81,1991
22N.36E.19.323	--	-190.08	1-26-91	-11.95	-160.18	1981	-190.08	1991	I	1981,1986,1991
22N.36E.24.222	--	-179.10	1-26-91	-19.27	-142.95	1981	-179.10	1991	I	1981,1986,1991
22N.36E.25.414	--	-171.64	1-26-91	-10.03	-141.55	1981	-171.64	1991	I	1981,1986,1991
22N.36E.35.414	--	-171.66	1-26-91	-4.61	-140.92	1981	-171.66	1991	I	1981,1986,1991
*23N.28E.01.113	--	-62.73	1-28-91	+1.00	-62.73	1991	-64.83	1981	U	1981,1986,1991
23N.28E.14.223	--	-68.55	1-28-91	+0.23	-68.55	1991	-69.22	1981	I	1981,1986,1991
*23N.29E.14.111	--	-92.16	1-28-91	-1.76	-90.40	1986	-92.16	1991	I	1981,1986,1991
23N.29E.29.333	--	-79.14	1-28-91	+0.11	-78.55	1981	-79.25	1986	I	1981,1986,1991
*23N.31E.13.133	--	-133.60	1-29-91	-9.68	-123.92	1986	-133.60	1991	I	1981,1986,1991
23N.31E.21.223	--	-27.50	1-29-91	+0.42	-27.50	1991	-27.92	1986	I	1981,1986,1991
*23N.32E.24.411	--	-117.25	1-29-91	+2.82	-117.25	1991	-120.07	1986	I	1981,1986,1991
23N.33E.07.442	--	-146.78	1-29-91	+0.95	-146.78	1991	-147.73	1986	I	1981,1986,1991
*23N.33E.15.413	--	-18.62	1-30-91	+5.53	-18.62	1991	-24.15	1986	U	1981,1986,1991

Table 10.--Well location and water-level data for selected wells in the Northern High Plains monitoring area, Colfax and Union Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
23N.33E.28.432	--	-69.28	1-30-91	+3.59	-69.28	1991	-72.87	1986	U	1981,1986,1991
*23N.34E.04.44222	DKOT	-200.53	1-30-91	+0.06	-196.52	1976	-210.70	1972	I	1972-81,1986,1991
23N.34E.06.144	--	-26.85	1-30-91	+6.17	-26.85	1991	-33.02	1986	U	1981,1986,1991
23N.34E.16.442	DKOT	-166.20	1-30-91	+2.63	-160.24	1972	-168.83	1986	I	1954,1970,1972-81,1986,1991
*23N.35E.07.114	DKOT	-272.02	1-30-91	-1.75	-263.38	1977	-296.50	1967	I	1967,1972-81,1986,1991
*23N.35E.14.144	DKOT	-225.19	1-30-91	-0.93	-211.74	1979	-234.85	1971	I	1968,1971-81,1986,1991
23N.35E.15.211	DKOT	-259.34	1-30-91	+1.56	-231.69	1968	-260.90	1986	I	1968,1972-81,1986,1991
23N.35E.31.222	--	-246.75	1-30-91	--	-244.79	1981	-246.75	1991	I	1981,1991
*23N.36E.11.1214	--	-151.63	1-31-91	-4.28	-141.53	1981	-151.63	1991	I	1981,1986,1991
23N.36E.13.423	DKOT	-158.30	1-31-91	+4.99	-126.61	1967	-163.29	1986	I	1967,1970-81,1986,1991
23N.36E.15.122	--	-174.06	1-31-91	--	-164.50	1981	-174.06	1991	I	1981,1986,1991
23N.36E.17.3133	DKOT	-222.66	1-30-91	--	-197.21	1970	-266.83	1981	I	1970,1972-79,1981,1991
23N.36E.23.341	--	-174.30	1-31-91	--	-167.80	1981	-174.30	1991	I	1981,1991
*23N.36E.28.431	DKOT	-231.77	1-31-91	-4.47	-192.36	1968	-231.77	1991	I	1968,1970,1972-79,1981,1986,1991
23N.36E.32.111	DKOT	-211.15	1-28-91	+7.80	-183.71	1970	-218.95	1986	I	1967,1970,1972-73,1975-81,1986,1991
23N.36E.35.111	DKOT	-249.01	1-28-91	-9.21	-199.05	1975	-249.01	1991	I	1972,1975-81,1986,1991
23N.36E.36.331	DKOT	-212.92	1-28-91	-8.53	-153.42	1968	-212.92	1991	I	1967-68,1971-81,1986,1991
*24N.28E.15.133	--	-71.43	1-29-91	-0.78	-70.17	1981	-71.43	1991	U	1981,1986,1991
24N.28E.20.122	--	-38.71	1-28-91	+1.19	-38.63	1981	-39.90	1986	I	1981,1986,1991
24N.28E.28.131	--	-76.02	1-28-91	-0.39	-75.08	1981	-76.02	1991	I	1981,1986,1991
*24N.29E.17.414A	--	-67.76	1-29-91	+3.17	-67.76	1991	-70.93	1986	U	1981,1986,1991
24N.29E.26.131	--	-70.41	1-28-91	-2.21	-67.43	1981	-70.41	1991	U	1981,1986,1991
24N.29E.29.433	--	-71.97	1-28-91	-1.24	-69.63	1981	-71.97	1991	I	1981,1986,1991
*24N.30E.08.211	--	-87.10	1-29-91	+0.27	-87.10	1991	-87.37	1986	U	1981,1986,1991
*24N.31E.11.444	--	-139.04	1-29-91	-5.04	-134.00	1986	-141.08	1981	I	1981,1986,1991
*24N.31E.18.244	--	-107.20	1-29-91	+0.77	-105.33	1981	-107.97	1986	I	1981,1986,1991
24N.31E.21.222	--	-209.06	1-29-91	-0.33	-204.40	1981	-209.06	1991	U	1981,1986,1991
24N.32E.17.233	--	-40.50	1-29-91	+1.37	-38.95	1981	-41.87	1986	I	1981,1986,1991
*24N.32E.35.1133	--	-121.19	1-30-91	-0.34	-119.98	1981	-121.19	1991	U	1981,1986,1991
*24N.33E.07.224	--	-88.60	1-30-91	+2.14	-88.00	1981	-90.74	1986	I	1981,1986,1991
24N.33E.22.322	--	-86.74	1-30-91	+2.18	-86.74	1991	-88.92	1986	I	1981,1986,1991
*24N.35E.07.333	AVMB	-12.30	1-31-91	-0.31	-11.99	1986	-12.81	1981	I	1981,1986,1991
24N.35E.12.334	DKOT	-118.96	1-25-91	--	-100.52	1973	-118.96	1991	I	1954,1970,1972-75,1981,1991
*24N.35E.15.114	--	-69.38	1-25-91	-0.09	-69.06	1981	-69.38	1991	I	1981,1986,1991
24N.35E.23.411	--	-170.94	1-25-91	-0.94	-125.50	1981	-170.94	1991	I	1981,1986,1991
24N.35E.28.134	DKOT	-149.83	1-25-91	--	-113.42	1979	-149.83	1991	U	1967,1971-81,1991
24N.36E.05.121	--	-122.08P	1-26-91	--	-113.94	1981	-114.62	1986	I	1981,1986,1991
*24N.36E.08.2212	OGLL	-116.43	1-26-91	-2.23	-96.18	1970	-116.43	1991	I	1970-72,1974-80,1986,1991
24N.36E.09.114	--	-119.25	1-26-91	+3.10	-114.60	1981	-122.35	1986	I	1981,1986,1991
*24N.36E.12.111	--	-116.74	1-25-91	+3.69	-115.75	1981	-120.43	1986	I	1981,1986,1991

Table 10.--Well location and water-level data for selected wells in the Northern High Plains monitoring area, Colfax and Union Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
24N.36E.12.214	--	-120.72	1-25-91	+6.66	-120.72	1991	-127.38	1986	I	1986,1991
*24N.36E.17.244	OGLL	-95.35	1-26-91	-3.43	-81.38	1968	-95.35	1991	I	1968,1970-91
24N.36E.22.413	--	-124.27	1-25-91	-4.36	-115.89	1981	-124.27	1991	I	1981,1986,1991
24N.36E.24.114	--	-120.49P	1-25-91	--	-106.65	1981	-114.07	1986	I	1981,1986,1991
24N.36E.26.234	--	-118.02	1-25-91	-3.91	-107.78	1981	-118.02	1991	I	1981,1986,1991
*24N.36E.29.113	--	-178.94	1-25-91	-0.16	-173.23	1981	-178.94	1991	U	1981,1986,1991
24N.36E.36.422	--	-132.94	1-25-91	-3.12	-125.03	1981	-132.94	1991	I	1981,1986,1991
*25N.28E.08.341	--	-15.07	1-29-91	+0.80	-15.07	1991	-15.94	1981	U	1981,1986,1991
25N.28E.10.242	--	-105.28	1-29-91	-0.95	-104.33	1986	-105.85	1981	I	1981,1986,1991
25N.28E.32.332	--	-60.46	1-29-91	+1.04	-59.71	1981	-61.50	1986	I	1981,1986,1991
25N.28E.34.344	--	-104.21	1-29-91	-0.14	-104.07	1986	-104.84	1981	I	1981,1986,1991
*25N.30E.15.211	--	-231.59	1-29-91	+1.48	-231.59	1991	-234.25	1981	I	1981,1986,1991
*25N.31E.20.222	--	-198.62	1-29-91	+0.63	-198.62	1991	-199.25	1986	I	1981,1986,1991
25N.32E.12.222	OGLL	-100.11P	1-30-91	--	-89.80	1954	-95.13	1986	I	1954,1970,1974,1986,1991
*25N.32E.24.211	--	-224.29	1-30-91	+3.75	-220.65	1981	-228.04	1986	U	1981,1986,1991
*25N.33E.03.122	DKOT	-46.75	1-30-91	+0.20	-45.60	1954	-47.05	1970	I	1954,1970,1972-81,1986,1991
25N.33E.08.121	--	-38.36	1-30-91	+4.75	-38.36	1991	-43.11	1986	U	1981,1986,1991
*25N.34E.10.213	--	-92.12	1-30-91	-1.60	-90.52	1986	-92.12	1991	I	1981,1986,1991
25N.34E.14.321	--	-149.91	1-30-91	+0.48	-148.12	1981	-150.39	1986	I	1981,1986,1991
*25N.35E.02.441	OGLL	-91.76	2-01-91	+1.10	-91.14	1989	-106.85	1971	I	1965,1967-91
25N.35E.05.1114	--	-30.56	1-30-91	-3.62	-26.56	1981	-30.56	1991	I	1981,1986,1991
25N.35E.16.132	--	-95.17	1-26-91	--	-95.17	1991	-97.55	1981	U	1981,1991
*25N.35E.23.333	--	-182.81	1-26-91	+12.67	-182.81	1991	-195.48	1986	I	1981,1986,1991
25N.35E.25.4423	DKOT	-174.30	1-26-91	+2.45	-130.97	1968	-180.42	1979	I	1967-68,1971-81,1986,1991
*25N.35E.30.222	--	-94.36	1-30-91	-0.25	-90.70	1981	-94.36	1991	I	1981,1986,1991
25N.35E.34.422	--	-40.72	1-26-91	+5.27	-40.72	1991	-45.99	1986	U	1981,1986,1991
25N.36E.02.243	--	-221.73	2-01-91	--	-221.73	1991	-223.60	1981	I	1981,1991
25N.36E.05.311	DKOT	-293.56	2-01-91	+0.30	-71.00	1973	-300.48	1977	I	1970-81,1986,1991
25N.36E.07.111	OGLL	-36.68	2-01-91	+7.74	-36.68	1991	-46.89	1967	I	1954,1967,1971-81,1986,1991
25N.36E.09.411	--	-240.59	2-01-91	--	-240.59	1991	-298.84	1981	I	1981,1991
*25N.36E.22.321	DKOT	-183.89	1-26-91	-1.51	-144.20	1968	-183.89	1991	I	1967-68,1971-73,1975-81,1986,1991
25N.36E.22.3213	OGLL	-64.33	1-26-91	+1.40	-62.68	1975	-66.45	1981	I	1972-81,1986,1991
25N.36E.33.222	--	-141.48R	1-26-91	--	-136.19	1981	-138.80	1986	I	1981,1986,1991
25N.36E.35.311	--	-102.00R	1-26-91	--	-94.68	1981	-95.48	1986	I	1981,1986,1991
*26N.28E.20.411	--	-32.83	1-28-91	+6.07	-32.83	1991	-40.25	1981	I	1981,1986,1991
*26N.28E.25.313	--	-66.86	1-28-91	-0.14	-66.72	1986	-67.38	1981	I	1981,1986,1991
*26N.29E.06.413	--	-45.52	1-29-91	-2.12	-43.40	1986	-45.52	1991	I	1981,1986,1991
*26N.29E.33.133	--	-45.97	1-27-91	-0.09	-45.50	1981	-45.97	1991	U	1981,1986,1991
*26N.30E.18.413	--	-57.19	1-29-91	-0.29	-56.50	1981	-57.19	1991	I	1981,1986,1991
*26N.30E.31.314	--	-35.79	1-28-91	+0.75	-35.79	1991	-36.54	1986	I	1981,1986,1991

Table 10.--Well location and water-level data for selected wells in the Northern High Plains monitoring area, Colfax and Union Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*26N.30E.34.223	--	-24.56	1-28-91	+0.52	-24.56	1991	-25.56	1981	I	1981,1986,1991
*26N.31E.06.312	--	-175.64	1-29-91	-3.84	-171.80	1986	-175.64	1991	U	1981,1986,1991
26N.31E.21.124	--	-268.17	1-28-91	--	-267.50	1981	-268.17	1991	I	1981,1991
*26N.32E.13.243	--	-117.73	1-26-91	-1.39	-116.34	1986	-117.73	1991	U	1981,1986,1991
26N.33E.27.224	--	-170.76	1-27-91	-0.06	-170.70	1986	-170.90	1981	I	1981,1986,1991
26N.33E.27.224A	--	-162.86	1-27-91	-0.26	-162.60	1986	-163.25	1981	U	1981,1986,1991
26N.33E.30.444	--	-60.05	1-26-91	--	-56.90	1981	-60.05	1991	I	1981,1986,1991
26N.34E.09.443	--	-47.29	1-26-91	--	-47.29	1991	-47.29	1991	I	1981,1991
26N.35E.13.143	--	-170.54	1-24-91	--	-170.54	1991	-174.90	1981	U	1981,1991
26N.35E.30.444	OGLL	-32.97	1-26-91	+25.27	-32.97	1991	-58.35	1981	I	1955,1970,1972-78,1980-81,1986,1991
*26N.36E.08.3333	OGLL	-56.01	1-24-91	-12.46	-36.40	1981	-56.01	1991	U	1981,1986,1991
26N.36E.09.212	PRGR	-173.59	1-24-91	+23.40	-129.10	1970	-209.58	1974	I	1967-75,1977-81,1986,1991
*26N.36E.13.231	OGLL	-153.09	1-22-91	-3.56	-130.09	1967	-153.09	1991	I	1967-69,1971-81,1986,1991
26N.36E.23.423	--	-140.95	1-22-91	--	-140.95	1991	-183.74	1981	I	1981,1991
*26N.36E.27.343	--	-158.06	1-23-91	-0.21	-154.20	1981	-158.06	1991	I	1981,1986,1991
*27N.31E.08.334	--	-198.98	1-29-91	-0.07	-198.91	1986	-199.03	1981	U	1981,1986,1991
*27N.32E.03.444	--	-39.25	1-29-91	-0.22	-38.95	1981	-39.25	1991	I	1981,1986,1991
*27N.34E.07.411	--	-117.97	1-26-91	+0.13	-117.75	1981	-118.10	1986	U	1981,1986,1991
27N.34E.15.341	DKOT	-141.09	1-25-91	-2.30	-137.59	1965	-157.78	1955	S	1955,1965,1967-72,1974-78,1980-81, 1986,1991
*27N.35E.06.111	--	-66.95	1-25-91	+0.38	-66.95	1991	-70.35	1981	I	1981,1986,1991
*27N.35E.13.111	--	-83.51	1-25-91	-0.32	-83.19	1986	-87.90	1981	I	1981,1986,1991
*27N.36E.14.131	--	-49.37	1-23-91	+0.40	-49.37	1991	-51.30	1981	I	1981,1986,1991
27N.36E.17.434	OGLL	-89.80	1-23-91	-3.17	-75.00	1970	-93.92	1968	I	1967-81,1986,1988-91
27N.36E.21.333	OGLL	-104.48	1-24-91	-0.86	-92.62	1968	-104.48	1991	I	1968,1970-81,1986,1991
27N.36E.33.133	--	-189.19	1-24-91	--	-189.19	1991	-228.80	1981	I	1981,1991
*27N.37E.06.442	PRGR	-142.86	1-23-91	-1.41	-136.00	1970	-142.86	1991	I	1965,1967-81,1986,1991
27N.37E.17.411	--	-90.60	1-23-91	-4.35	-80.70	1981	-90.60	1991	I	1981,1986,1991
27N.37E.18.2222	OGLL	-99.07	1-23-91	-2.59	-77.73	1972	-99.07	1991	I	1971-81,1986,1991
*28N.28E.10.222	--	-104.74	1-23-91	-0.54	-103.85	1981	-104.74	1991	I	1981,1986,1991
28N.28E.14.422	--	-45.03	1-23-91	+28.71	-45.03	1991	-75.10	1981	U	1981,1986,1991
*28N.28E.33.313	--	-263.17	1-23-91	-1.69	-261.48	1986	-263.17	1991	U	1981,1986,1991
*28N.29E.26.112	--	-248.32	1-23-91	+1.08	-246.00	1981	-249.40	1986	I	1981,1986,1991
*28N.30E.16.344A	--	-250.54	1-23-91	+0.13	-250.54	1991	-250.67	1986	H	1986,1991
*28N.32E.30.331	PRGR	-36.80	1-25-91	+0.14	-34.50	1969	-39.67	1979	I	1955,1965,1967-81,1986,1991
28N.33E.22.133	--	-120.70	1-25-91	--	-120.70	1991	-121.66	1981	I	1981,1991
*28N.34E.04.144	--	-46.50	1-25-91	-0.48	-46.02	1986	-46.50	1991	I	1981,1986,1991
*28N.34E.20.443A	--	-136.48	1-25-91	+1.50	-136.48	1991	-137.98	1986	U	1986,1991
*28N.35E.07.233	--	-72.80	1-25-91	-0.44	-72.24	1981	-72.80	1991	I	1981,1986,1991
*28N.36E.23.222	--	-115.46	1-25-91	-1.23	-113.45	1981	-115.46	1991	I	1981,1986,1991

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Table 10.--Well location and water-level data for selected wells in the Northern High Plains monitoring area, Colfax and Union Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
28N.36E.28.131	--	-204.80	1-22-91	--	-201.29	1981	-204.80	1991	I	1981,1991
28N.36E.35.132	--	-199.91	1-22-91	+4.95	-199.31	1981	-204.86	1986	I	1981,1986,1991
*29N.27E.13.331	AVMB	-27.20	1-23-91	+1.96	-27.20	1991	-29.60	1978	I	1978,1981,1986,1991
29N.27E.14.313	--	-8.34	1-23-91	+1.40	-8.34	1991	-9.85	1981	I	1981,1986,1991
29N.27E.14.323	AVMB	-25.39	1-23-91	+0.74	-25.39	1991	-26.97	1981	I	1977,1981,1986,1991
*29N.27E.16.222	--	-8.15	1-08-91	+0.33	-4.65	1960	-9.10	1982	S	1957-69,1972-91
29N.27E.16.243	--	-11.30	1-23-91	+0.54	-11.30	1991	-11.90	1981	I	1981,1986,1991
*29N.28E.14.142	--	-49.61	1-23-91	-1.15	-48.46	1986	-49.61	1991	I	1981,1986,1991
29N.28E.17.331	--	-37.70	1-23-91	+1.00	-32.39	1964	-40.06	1975	I	1951,1957-72,1975,1978,1980-81 1986,1991
29N.28E.18.341	--	-34.10	1-23-91	+0.98	-28.01	1974	-37.59	1986	I	1958-88,1991
*29N.29E.09.413	--	-137.69	1-23-91	+12.29	-137.69	1991	-151.40	1981	I	1981,1986,1991
*29N.30E.24.222	--	-90.72	1-24-91	-0.04	-90.68	1986	-90.72	1991	U	1981,1986,1991
29N.31E.06.2243	--	-61.68	1-23-91	-2.04	-59.23	1981	-61.68	1991	U	1981,1986,1991
*29N.31E.24.343	--	-78.49	1-24-91	+0.44	-78.35	1981	-78.93	1986	U	1981,1986,1991
*29N.32E.02.422	--	-25.50	1-24-91	-0.12	-25.33	1981	-25.50	1991	U	1981,1986,1991
*29N.32E.22.141	--	-16.54	1-24-91	+0.66	-16.54	1991	-17.20	1986	I	1981,1986,1991
*29N.33E.04.1312	--	-38.42	1-24-91	+1.69	-38.42	1991	-42.38	1981	U	1981,1986,1991
29N.33E.09.344	--	-35.94	1-24-91	-0.36	-35.58	1986	-35.94	1991	I	1981,1986,1991
*29N.34E.02.434	--	-62.39	1-24-91	-0.46	-61.25	1981	-62.39	1991	U	1981,1986,1991
*29N.34E.05.4331	--	-70.94	1-24-91	+1.82	-70.94	1991	-73.79	1981	I	1981,1986,1991
29N.34E.22.3342	--	-44.43	1-24-91	+0.08	-43.86	1981	-44.51	1986	U	1981,1986,1991
29N.35E.08.4131	--	-38.11	1-24-91	+3.04	-38.11	1991	-41.15	1986	I	1981,1986,1991
*29N.35E.15.313	--	-110.92	1-24-91	+1.05	-110.48	1981	-111.97	1986	I	1981,1986,1991
29N.36E.14.342	--	-129.39	1-24-91	--	-129.39	1991	-130.63	1981	I	1981,1986,1991
*30N.29E.24.232	--	-147.37	1-24-91	+5.43	-143.10	1981	-152.80	1986	I	1981,1986,1991
30N.29E.34.133	--	-164.07	1-24-91	+0.83	-164.07	1991	-164.90	1986	U	1981,1986,1991
*30N.31E.19.343	--	-113.55	1-24-91	-0.05	-113.50	1986	-114.20	1981	U	1981,1986,1991
*30N.32E.07.433	--	-20.52	1-24-91	-2.80	-17.72	1986	-20.52	1991	I	1986,1991
*30N.32E.14.341	--	-57.22	1-24-91	+1.07	-57.22	1991	-58.74	1981	I	1981,1986,1991
*30N.33E.14.343	--	-66.98	1-24-91	-0.56	-66.42	1986	-66.98	1991	U	1981,1986,1991
30N.33E.22.121	--	-55.49	1-24-91	+0.04	-55.49	1991	-57.95	1981	I	1981,1986,1991
*30N.35E.14.111	--	-14.48	1-25-91	+2.73	-14.48	1991	-17.99	1981	U	1981,1986,1991
30N.35E.15.133	--	-35.35	1-25-91	+2.53	-35.35	1991	-38.30	1981	I	1981,1986,1991
*30N.35E.27.313	--	-203.87	1-24-91	+0.03	-203.87	1991	-204.01	1981	U	1981,1986,1991
30N.35E.34.143A	--	-213.44	1-24-91	--	-213.44	1991	-213.44	1991	U	1991
30N.36E.07.134	--	-31.86	1-25-91	+2.79	-31.86	1991	-34.65	1986	I	1981,1986,1991
30N.37E.20.321	--	-72.71	1-22-91	--	-72.71	1991	-72.95	1981	I	1981,1991
*31N.28E.28.133	--	-16.37	1-23-91	-0.07	-16.30	1986	-16.83	1981	I	1981,1986,1991
*31N.29E.15.341	--	-77.84	1-23-91	-1.83	-76.01	1986	-82.36	1981	U	1981,1986,1991

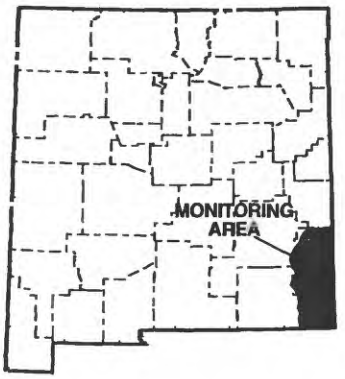
Table 10.--Well location and water-level data for selected wells in the Northern High Plains monitoring area, Colfax and Union Counties, New Mexico--Concluded

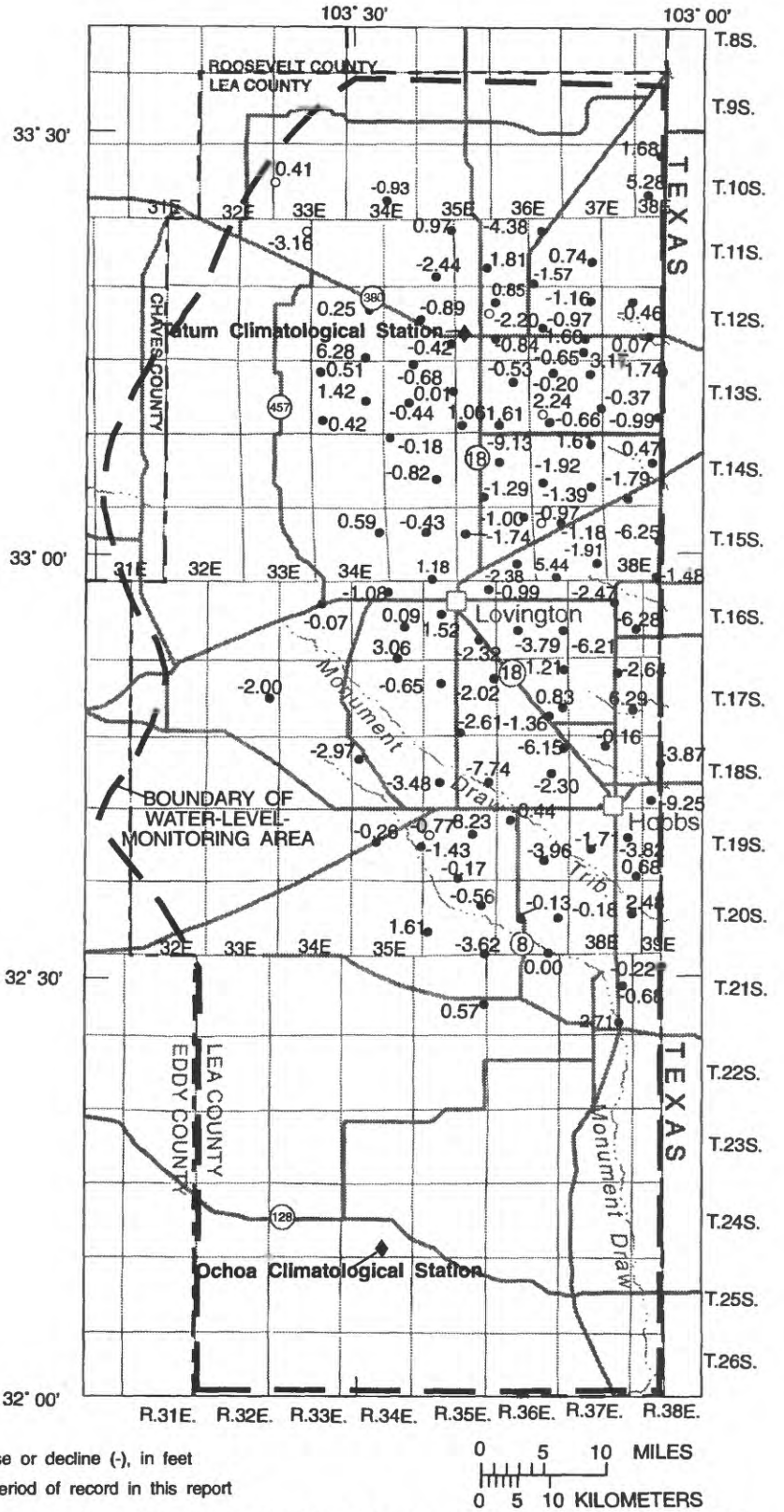
Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
*31N.30E.19.312	--	-29.29	1-23-91	-3.06	-26.23	1986	-29.43	1981	U	1981,1986,1991
*31N.30E.22.213	--	-36.25	1-23-91	-3.59	-32.66	1986	-40.25	1981	I	1981,1986,1991
31N.33E.06.334	--	-30.73P	1-23-91	--	-40.84	1986	-40.84	1986	I	1981,1986,1991
*31N.33E.25.331	--	-54.31	1-23-91	+3.89	-54.31	1991	-58.20	1986	U	1981,1986,1991
31N.33E.30.212	--	-44.54P	1-24-91	--	-34.18	1986	-34.18	1986	I	1981,1986,1991
*31N.34E.04.213	--	-16.03	1-23-91	+0.93	-16.03	1991	-17.11	1981	I	1981,1986,1991
31N.34E.05.314	--	-23.30	1-23-91	+6.39	-23.30	1991	-29.69	1986	I	1981,1986,1991
31N.34E.05.411	--	-19.34	1-23-91	--	-19.34	1991	-22.64	1981	I	1981,1991
*31N.36E.13.212	--	-32.43	1-22-91	-0.79	-31.64	1986	-32.82	1981	I	1981,1986,1991
31N.36E.13.223A	--	-23.05	1-22-91	-0.08	-22.97	1986	-23.48	1981	U	1981,1986,1991
*31N.36E.16.442	--	-49.42	1-23-91	+0.10	-48.96	1981	-49.52	1986	U	1981,1986,1991
31N.37E.17.334	--	-14.87	1-22-91	+0.41	-14.40	1981	-15.28	1986	I	1981,1986,1991
31N.37E.18.424	--	-24.65	1-22-91	+0.55	-24.32	1981	-25.20	1986	I	1981,1986,1991
*31N.37E.30.314	--	-60.52	1-22-91	-1.92	-58.60	1986	-63.60	1981	I	1981,1986,1991
*32N.31E.34.131	--	-24.28	1-23-91	-0.28	-24.00	1986	-31.48	1981	I	1981,1986,1991
32N.32E.35.422	--	-21.51P	1-23-91	--	-21.56	1986	-21.56	1986	I	1981,1986,1991
*32N.33E.26.334	--	-30.59	1-23-91	+0.36	-29.80	1981	-30.95	1986	I	1981,1986,1991
32N.34E.31.341	--	-36.48	1-23-91	+1.52	-36.48	1991	-40.22	1981	I	1981,1986,1991
32N.34E.33.244	--	-22.65	1-23-91	+0.55	-22.65	1991	-23.45	1981	I	1981,1986,1991
*32N.35E.31.122	--	-24.90	1-23-91	+1.81	-24.90	1991	-31.72	1981	U	1981,1986,1991
*32N.35E.35.344	--	-87.12	1-23-91	-1.34	-85.78	1986	-88.02	1981	I	1981,1986,1991

Lea County Monitoring Area

The Lea County monitoring area is in Lea, Chaves, and Eddy Counties, southeastern New Mexico. Not all water-level changes are shown on the map; however, all well locations and water-level data are listed in the table. Well locations marked with an asterisk (*) in the table are plotted on the map.

Most water-level changes are declines that range from less than 1 foot to more than 9 feet. Rises range from less than 1 to more than 8 feet. In the northwest part of the monitoring area water-level data indicate rises, in some cases more than 6 feet. A small area southeast of Lovington has rises from less than 1 to more than 6 feet.





EXPLANATION

-1.71 ● WELL--Number represents the water-level rise or decline (-), in feet

○ WELL--Has water-level hydrograph for the period of record in this report

Figure 23.--Water-level changes for selected wells in the Lea County monitoring area, 1986-91.

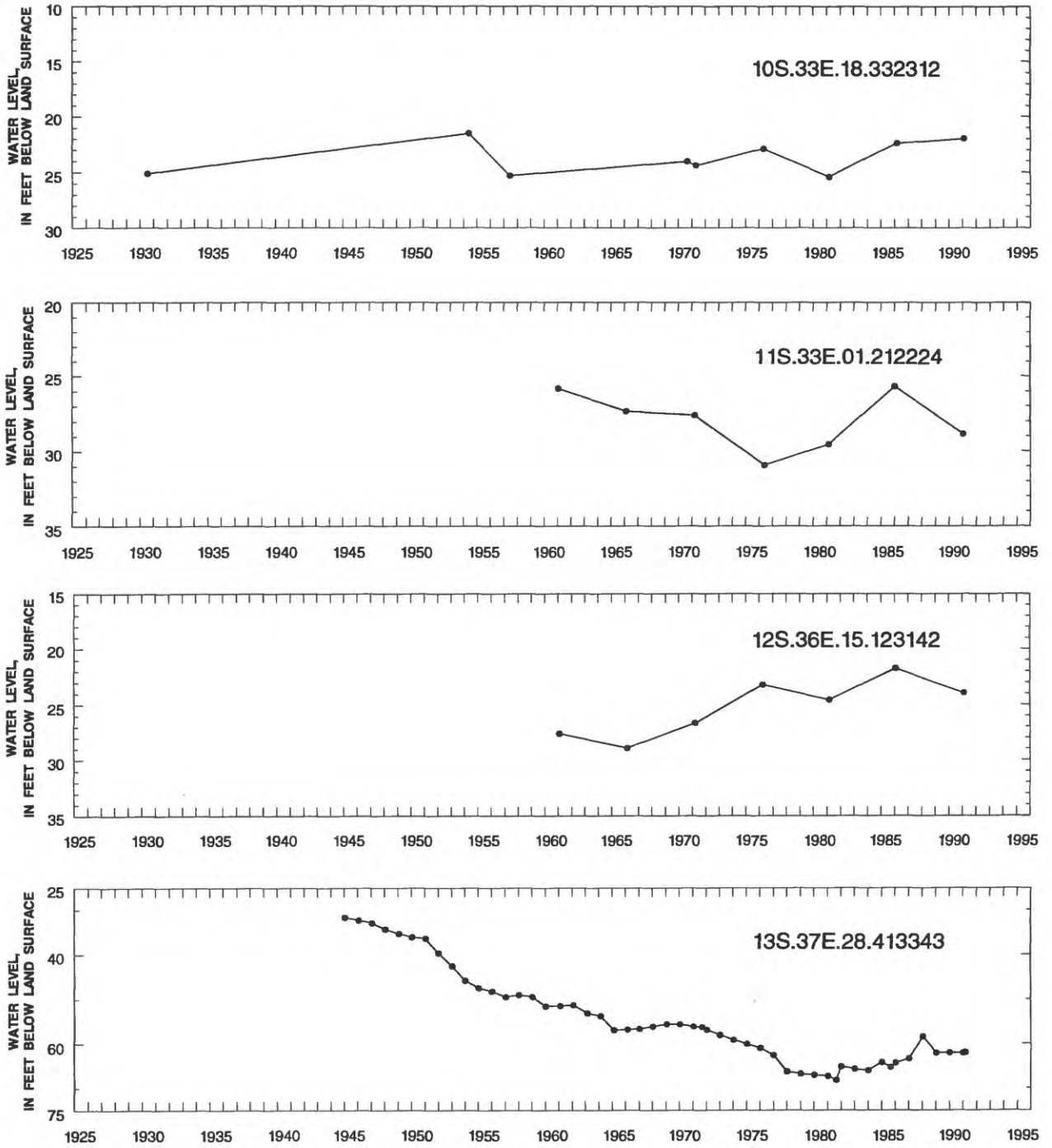


Figure 24.--Water-level data for selected wells in the Lea County monitoring area and annual precipitation at the Tatum and Ochoa Climatological Stations. See figure 23 for location of wells and stations.

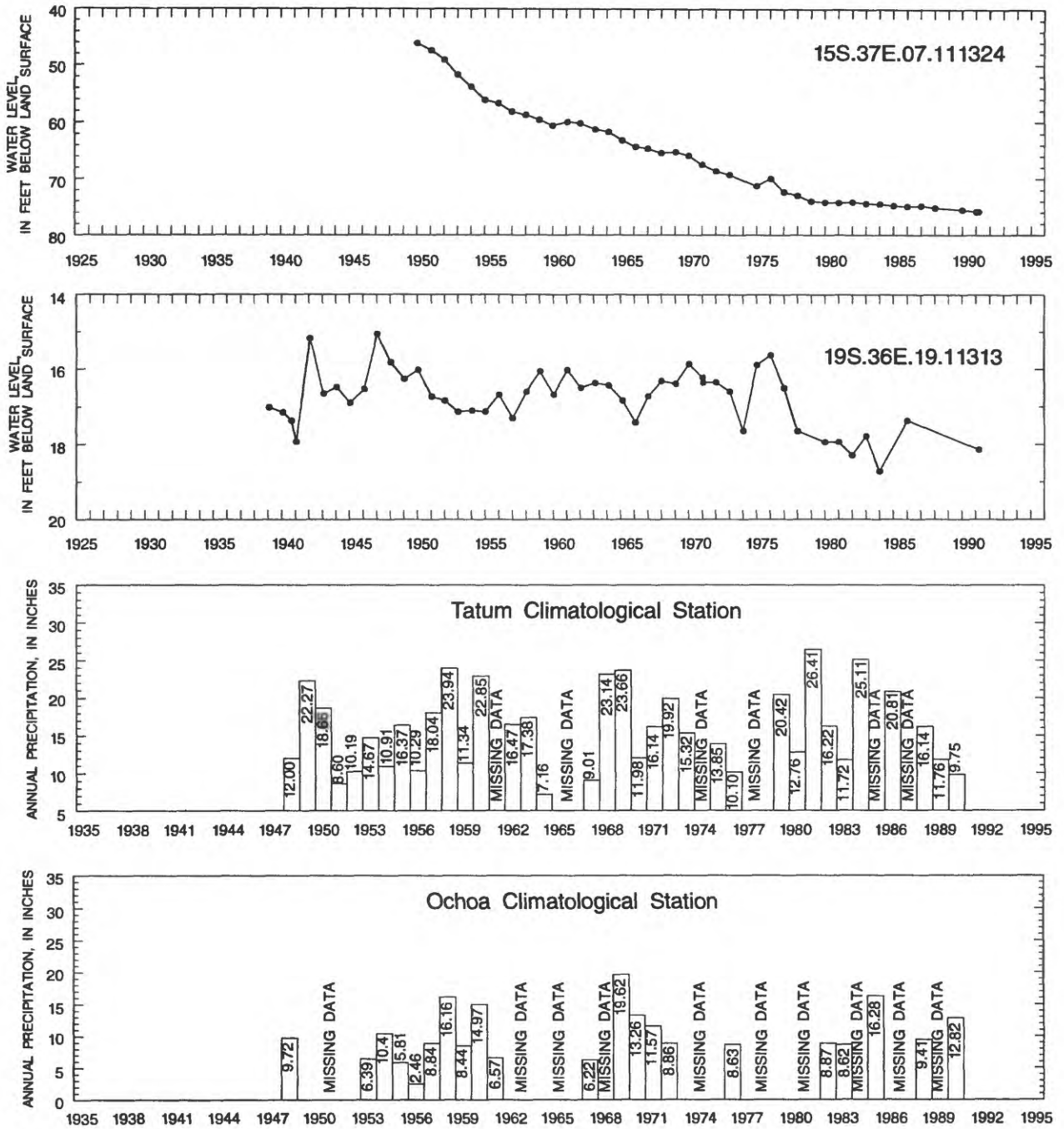


Figure 24.--Water-level data for selected wells in the Lea County monitoring area and annual precipitation at the Tatum and Ochoa Climatological Stations. See figure 23 for location of wells and stations--Concluded.

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico

[*, well location and change data are plotted on the corresponding map. Geologic unit, primary producing zone for the well: AVMB, alluvium, bolson deposits, and other surface deposits; CHNL, Chinle Formation; CRCS, Cretaceous System; OGLL, Ogallala Formation. Winter water level, site status: P, pumping; S, nearby pumping. Use of water: C, commercial; H, domestic; I, irrigation; K, mining; N, industrial; P, public supply; R, recreation; S, stock; U, unused. --, no data]

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
09S.33E.36.113443	CRCS	-42.05	3-20-91	--	-42.05	1991	-49.48	1977	S	1977,1981,1986,1991
09S.36E.27.43134	CRCS	-121.35	1-15-91	--	-121.35	1991	-124.89	1981	I	1971,1976,1981,1986,1991
09S.37E.26.14341	OGLL	-114.04	1-16-91	--	-111.99	1981	-114.04	1991	S	1976,1981,1986,1991
*10S.33E.18.332312	OGLL	-21.97	1-29-91	+0.41	-21.97	1991	-25.42	1981	S	1930,1954,1957,1970-71,1976, 1981,1986,1991
10S.33E.33.121223	OGLL	-28.01P	1-29-91	--	-26.78	1986	-28.20	1976	S	1930,1971,1976,1981,1986,1991
*10S.34E.27.14222	CRCS	-50.78	1-25-91	-0.93	-49.85	1986	-52.78	1976	S	1930,1932,1970-71,1976,1981, 1986,1991
10S.35E.06.211134	CRCS	-104.36	1-25-91	--	-104.36	1991	-105.95	1981	S	1981,1986,1991
10S.35E.20.34111	CRCS	-103.03	1-24-91	--	-103.03	1991	-105.53	1976	S	1970-71,1976,1981,1986,1991
10S.35E.25.43330	OGLL	-54.80	1-17-91	--	-54.80	1991	-55.71	1981	S	1958,1981,1986,1991
10S.36E.08.12121	CRCS	-95.39P	1-18-91	--	-93.49	1986	-93.49	1986	S	1981,1986,1991
10S.36E.17.344243	CRCS	-81.60	1-18-91	--	-80.65	1981	-84.04	1976	S	1976,1981,1986,1991
10S.36E.30.242331	OGLL	-86.13	1-24-91	--	-86.13	1991	-88.30	1986	S	1970-71,1976,1981,1986,1991
10S.36E.36.112232	OGLL	-86.68	1-22-91	--	-86.68	1991	-87.32	1986	S	1976,1981,1986,1991
10S.37E.08.41131	OGLL	-133.78	1-23-91	--	-133.54	1981	-133.91	1976	U	1976,1981,1986,1991
10S.37E.11.42121	OGLL	-132.10	1-23-91	--	-131.39	1970	-132.20	1986	S	1954,1970-71,1976,1981,1986,1991
10S.37E.22.12322	OGLL	-122.18	1-23-91	--	-121.37	1976	-122.18	1991	S	1954,1970-71,1976,1981,1986,1991
10S.37E.33.24222	OGLL	-99.88	1-22-91	--	-99.88	1991	-105.04	1986	H	1954,1976,1981,1986,1991
*10S.38E.04.343324	OGLL	-139.58	2-20-91	+1.68	-139.58	1991	-142.75	1970	S	1970-71,1976,1981,1986,1991
10S.38E.06.332141	OGLL	-127.09	2-20-91	+5.61	-127.09	1991	-134.40	1981	S	1976,1981,1986,1991
10S.38E.07.332222	OGLL	-129.90	2-20-91	+2.79	-129.90	1991	-132.69	1986	U	1981,1986,1991
10S.38E.08.343334	OGLL	-136.22	2-20-91	+4.35	-136.22	1991	-140.57	1986	U	1981,1986,1991
10S.38E.18.23111	OGLL	-134.09	2-20-91	+2.70	-134.09	1991	-136.79	1986	U	1981,1986,1991
*10S.38E.20.333333	OGLL	-124.13	2-20-91	+5.28	-124.13	1991	-129.41	1986	I	1976,1981,1986,1991
11S.32E.24.113222	OGLL	-62.00S	3-26-91	--	-59.90	1985	-62.10	1991	U	1977-91
*11S.33E.01.212224	OGLL	-28.85	1-15-91	-3.16	-25.69	1986	-30.92	1976	I	1961,1966,1971,1976,1981,1986,1991
*11S.35E.12.211123	OGLL	-38.30	2-22-91	+0.97	-38.30	1991	-41.31	1981	S	1981,1986,1991
11S.35E.24.322234	OGLL	-21.86	2-22-91	-0.95	-20.91	1986	-26.03	1981	S	1981,1986,1991
*11S.35E.26.31110	OGLL	-17.15	2-22-91	-2.44	-14.71	1986	-18.74	1981	S	1961,1966,1971,1976,1981,1986,1991
11S.35E.35.211313	OGLL	-21.13	2-22-91	-2.33	-18.80	1986	-25.02	1981	S	1961,1966,1971,1976,1981,1986,1991
11S.36E.17.22244	OGLL	-41.94	2-22-91	+0.42	-41.94	1991	-43.35	1958	S	1958,1981,1986,1991
11S.36E.18.122433	OGLL	-21.43	2-22-91	+11.91	-21.43	1991	-63.26	1981	S	1981,1986,1991
11S.36E.25.344344	OGLL	-18.37	2-15-91	--	-16.21	1986	-59.83	1976	S	1961,1966,1971,1976,1981,1986,1991
11S.36E.27.343221	OGLL	-18.84	2-15-91	--	-18.46	1986	-21.93	1981	S	1981,1986,1991
*11S.36E.28.12441	OGLL	-19.59	2-15-91	+1.81	-19.59	1991	-26.98	1958	S	1958,1981,1986,1991
11S.36E.28.33342	OGLL	-13.85	2-22-91	+0.13	-13.85	1991	-24.27	1966	H	1961,1966,1971,1976,1981,1986,1991
11S.36E.29.111111	OGLL	-17.65	2-22-91	--	-17.65	1991	-22.92	1981	S	1981,1986,1991
11S.36E.33.331432	OGLL	-11.52	2-22-91	-1.00	-10.52	1986	-15.45	1981	S	1961,1966,1971,1976,1981,1986,1991
11S.36E.35.34400	OGLL	-20.56	2-15-91	--	-19.76	1986	-23.92	1981	S	1966,1971,1976,1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes				Use of water	Years of record
					High (feet)	Year	Low (feet)	Year		
11S.37E.02.12322	OGLL	-67.08	2-20-91	--	-62.88	1986	-67.08	1991	S	1981,1986,1991
*11S.37E.07.22441	OGLL	-24.14	2-20-91	-4.38	-19.76	1986	-24.14	1991	S	1958,1981,1986,1991
11S.37E.22.32333	OGLL	-57.89	2-08-91	--	-57.89	1991	-59.83	1976	S	1966,1971,1976,1981,1986,1991
11S.37E.23.323221	OGLL	-55.76	2-08-91	--	-54.45	1986	-58.46	1976	I	1976,1986,1991
*11S.37E.24.31342	OGLL	-68.90	2-08-91	+0.74	-68.90	1991	-70.84	1971	S	1971,1976,1986,1991
11S.37E.24.441124	OGLL	-71.95	1-31-91	--	-71.95	1991	-73.63	1976	S	1966,1971,1976,1981,1986,1991
11S.37E.25.443122	OGLL	-54.67	1-31-91	--	-54.67	1991	-54.67	1991	S	1981,1986,1991
11S.37E.26.42221A	OGLL	-59.61	2-08-91	+0.83	-59.61	1991	-60.44	1986	S	1986,1991
11S.37E.28.434112	OGLL	-40.29	2-12-91	+0.72	-40.29	1991	-45.57	1966	S	1966,1971,1976,1981,1986,1991
*11S.37E.31.33434	OGLL	-18.08	2-12-91	-1.57	-16.51	1986	-22.52	1961	H	1961,1966,1971,1976,1981,1986,1991
11S.37E.32.24212	OGLL	-36.15	2-12-91	+1.27	-16.71	1961	-39.20	1981	S	1961,1971,1976,1981,1986,1991
11S.37E.35.232324	OGLL	-41.95	2-08-91	+1.70	-41.95	1991	-47.03	1961	S	1961,1980-81,1986,1991
11S.38E.03.33434	OGLL	-92.78	2-07-91	--	-92.78	1991	-92.78	1991	S	1981,1986,1991
11S.38E.16.143221	OGLL	-86.17	2-07-91	--	-85.06	1981	-86.17	1991	H	1981,1986,1991
11S.38E.18.314324	OGLL	-85.47	1-31-91	--	-85.47	1991	-86.10	1981	S	1981,1986,1991
11S.38E.20.444444	OGLL	-84.22	2-06-91	--	-84.22	1986	-85.87	1961	S	1961,1966,1971,1976,1981,1986,1991
11S.38E.21.214141	OGLL	-80.13	2-07-91	--	-80.13	1991	-80.60	1981	S	1981,1986,1991
11S.38E.30.23324	OGLL	-66.23	1-31-91	+0.71	-66.23	1991	-68.59	1961	S	1961,1966,1971,1976,1981,1986,1991
11S.38E.30.34114	OGLL	-62.64	1-31-91	+0.35	-62.64	1991	-66.50	1966	I	1961,1966,1971,1976,1981,1986,1991
11S.38E.31.433333	OGLL	-34.78	1-31-91	-2.43	-32.35	1986	-37.47	1981	N	1981,1986,1991
11S.38E.32.422122	OGLL	-56.74	2-06-91	-1.45	-55.29	1986	-59.26	1971	S	1971,1976,1981,1986,1991
11S.38E.34.331413	OGLL	-46.51	2-06-91	--	-46.51	1991	-47.04	1986	U	1966,1971,1976,1981,1986,1991
11S.38E.35.43331	OGLL	-51.19	2-06-91	--	-51.19	1991	-52.58	1961	S	1961,1966,1971,1976,1981,1986,1991
*12S.34E.11.42134	OGLL	-31.30	1-03-91	+0.25	-29.57	1949	-34.03	1978	U	1949-91
12S.34E.13.11222	OGLL	-39.88	1-15-91	-4.20	-21.50	1978	-46.35	1966	I	1947-53,1955,1957-58,1961-62,1966, 1971,1976-78,1981,1986,1991
12S.34E.14.242422	OGLL	-48.25	1-15-91	-7.52	-36.20	1961	-54.94	1981	I	1961,1966,1971,1976,1981,1986,1991
*12S.34E.35.32222	OGLL	-33.90	1-03-91	+6.28	-27.75	1977	-48.77	1955	I	1948-77,1979-80,1982-84,1986-91
12S.35E.01.414243	OGLL	-20.04	2-14-91	-1.65	-17.27	1976	-22.57	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.35E.03.24331	OGLL	-18.35	2-14-91	-2.13	-16.22	1986	-18.35	1991	S	1961,1966,1976,1986,1991
12S.35E.11.133144	OGLL	-37.49P	2-14-91	--	-25.82	1986	-27.42	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.35E.13.341241	OGLL	-22.63	2-14-91	-2.04	-20.59	1986	-23.50	1981	S	1961,1966,1971,1976,1981,1986,1991
*12S.35E.14.31321	OGLL	-9.69	2-14-91	-0.89	-8.80	1986	-12.56	1971	I	1971,1976,1981,1986,1991
12S.35E.24.33112	OGLL	-21.98	2-13-91	-0.82	-21.16	1986	-24.49	1966	I	1961,1966,1971,1976,1981,1986,1991
12S.35E.24.414333	OGLL	-24.80	2-13-91	-0.49	-24.31	1986	-26.87	1966	I	1961,1966,1971,1976,1981,1986,1991
*12S.35E.25.422221	OGLL	-29.55	2-14-91	-0.42	-27.88	1976	-33.15	1966	S	1961,1966,1971,1976,1981,1986,1991
12S.35E.35.132422A	OGLL	-23.80	2-13-91	-0.80	-23.00	1986	-23.80	1991	I	1966,1976,1981,1986,1991
12S.35E.36.24132	OGLL	-34.26	2-14-91	-1.29	-32.97	1986	-34.26	1991	I	1981,1986,1991
12S.35E.36.44444	OGLL	-36.60	2-13-91	-0.41	-36.19	1986	-39.59	1966	I	1961,1966,1971,1976,1981,1986,1991
12S.36E.01.23211	OGLL	-19.41	2-12-91	-0.95	-18.46	1986	-21.29	1981	S	1976,1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
*12S.36E.03.33434	OGLL	-19.91	2-15-91	+0.85	-19.91	1991	-24.38	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.36E.04.333213	OGLL	-13.21	2-20-91	--	-13.21	1991	-16.94	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.36E.07.43432	OGLL	-27.12	2-14-91	-0.41	-26.71	1986	-31.07	1981	H	1976,1981,1986,1991
12S.36E.08.24413	OGLL	-21.31	2-22-91	-5.76	-15.55	1986	-21.35	1976	S	1961,1966,1971,1976,1981,1986,1991
12S.36E.11.23113	OGLL	-23.13	2-15-91	-0.94	-22.19	1986	-25.54	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.36E.13.14231	OGLL	-22.71	1-15-91	-0.88	-21.83	1986	-26.00	1961	U	1961,1976,1981,1986,1991
12S.36E.14.433341	OGLL	-22.47	2-13-91	-1.25	-21.22	1986	-27.05	1971	S	1961,1966,1971,1976,1980-81, 1986,1991
*12S.36E.15.123142	OGLL	-23.95	2-13-91	-2.20	-21.75	1986	-24.57	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.36E.16.232414	OGLL	-27.12	2-13-91	-0.62	-25.67	1976	-30.95	1966	S	1961,1966,1971,1976,1981,1986,1991
12S.36E.16.43331	OGLL	-24.17	2-13-91	-0.34	-23.83	1986	-28.09	1966	I	1961,1966,1971,1976,1981,1986,1991
12S.36E.19.22320	OGLL	-27.99	2-14-91	-1.40	-23.40	1942	-34.31	1960	H	1939-58,1960-62,1966,1971,1981, 1986,1991
12S.36E.21.431112	OGLL	-23.16	2-13-91	-0.75	-22.17	1976	-23.30	1981	S	1976,1981,1986,1991
*12S.36E.22.334342	OGLL	-19.03	2-12-91	-0.84	-18.17	1976	-21.82	1966	H	1966,1971,1976,1981,1986,1991
12S.36E.24.23422	OGLL	-21.84	1-15-91	-1.97	-19.87	1986	-22.90	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.36E.27.133332	OGLL	-16.08	2-08-91	+1.85	-15.58	1981	-17.93	1986	H	1981,1986,1991
12S.36E.28.311323	OGLL	-22.87	2-08-91	-0.83	-21.71	1976	-26.47	1966	H	1961,1966,1971,1976,1981,1986,1991
12S.36E.29.111441	OGLL	-31.79	2-13-91	-1.05	-29.41	1976	-32.32	1952	I	1946-52,1961,1966,1971,1976,1981, 1986,1991
12S.36E.29.241124	OGLL	-25.64	2-12-91	-0.99	-23.94	1976	-29.52	1966	P	1961,1966,1971,1976,1981,1986,1991
12S.36E.30.12113	OGLL	-25.10	2-14-91	-1.34	-22.16	1976	-25.10	1991	U	1976,1981,1986,1991
12S.36E.31.221322	OGLL	-34.14	2-13-91	+0.60	-34.14	1991	-36.61	1981	I	1961,1976,1981,1986,1991
12S.36E.32.31344	OGLL	-37.55	2-13-91	+2.47	-37.55	1991	-51.79	1971	I	1966,1971,1976,1981,1986,1991
12S.36E.33.133314	OGLL	-28.19	2-13-91	--	-27.28	1961	-29.26	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.36E.34.332242	OGLL	-20.10	2-15-91	-0.46	-19.64	1986	-20.10	1991	S	1981,1986,1991
*12S.37E.01.333333	OGLL	-17.90	1-31-91	-1.16	-16.74	1986	-27.85	1966	I	1961,1966,1971,1976,1981,1986,1991
12S.37E.02.142132	OGLL	-30.24	2-08-91	-7.87	-22.37	1986	-30.24	1991	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.07.134211	OGLL	-21.84	1-15-91	-0.32	-21.52	1986	-23.82	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.08.111322	OGLL	-22.41	2-08-91	--	-22.07	1986	-24.82	1981	U	1981,1986,1991
12S.37E.08.333341	OGLL	-21.27	1-15-91	-0.90	-20.37	1986	-23.20	1981	S	1981,1986,1991
12S.37E.09.33344	OGLL	-20.82	2-22-91	-0.57	-20.25	1986	-23.77	1981	H	1981,1986,1991
12S.37E.11.32234	CRCS	-27.51	2-07-91	--	-27.11	1986	-30.67	1981	S	1976,1981,1986,1991
12S.37E.12.42331	OGLL	-21.30	1-31-91	-2.40	-18.90	1986	-25.05	1971	H	1961,1966,1971,1976,1981,1986,1991
12S.37E.13.34321	OGLL	-22.95	1-16-91	-1.38	-21.57	1986	-24.87	1981	U	1981,1986,1991
12S.37E.15.113343	OGLL	-23.22	1-15-91	+0.58	-23.22	1991	-28.48	1976	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.15.244342	OGLL	-25.34	2-07-91	-0.13	-25.21	1986	-33.18	1961	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.18.13130	OGLL	-20.60	1-15-91	-0.89	-19.71	1986	-20.60	1991	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.18.333234	OGLL	-20.80	1-15-91	-1.18	-19.62	1986	-24.50	1966	S	1961,1966,1971,1976,1981,1986,1991
*12S.37E.20.111322	OGLL	-17.54	1-15-91	-0.97	-16.57	1986	-20.50	1966	S	1966,1971,1976,1981,1986,1991

Table 11.--Well location and water-level data for selected wells in the Lea County monitoring area, Lea, Chaves, and Eddy Counties, New Mexico--Continued

Well location	Geologic unit	Winter water level (feet below(-) or above(+) land surface)	Date of measurement	Winter 1986 to winter 1991 water-level decline(-) or rise(+) (feet)	Water-level extremes: High (feet)	Year	Low (feet)	Year	Use of water	Years of record
12S.37E.20.232212	OGLL	-16.05	1-15-91	-0.99	-15.06	1986	-17.89	1961	S	1961,1971,1976,1981,1986,1991
12S.37E.22.22111	OGLL	-22.69	2-07-91	+0.19	-22.69	1991	-25.09	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.23.13132	CRCS	-24.61	2-07-91	-1.18	-23.43	1986	-30.06	1961	S	1961,1966,1971,1976,1981,1986,1991
*12S.37E.23.43333	OGLL	-21.90	1-16-91	-1.60	-20.30	1986	-24.55	1971	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.24.31221	OGLL	-40.54	1-31-91	--	-33.34	1981	-40.54	1991	S	1981,1986,1991
12S.37E.24.44330	CRCS	-42.37	2-07-91	+0.08	-42.37	1991	-44.09	1981	H	1981,1986,1991
12S.37E.26.433314	OGLL	-31.44	1-16-91	-1.14	-30.30	1986	-33.75	1966	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.27.21333	OGLL	-25.61	1-16-91	-0.52	-25.09	1986	-28.10	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.27.43343	OGLL	-30.21	1-16-91	-0.37	-29.84	1986	-33.10	1981	S	1976,1981,1986,1991
12S.37E.28.14410	OGLL	-25.59	1-16-91	-1.64	-23.95	1986	-28.09	1981	S	1981,1986,1991
12S.37E.29.43341	OGLL	-26.15	1-16-91	-0.43	-25.72	1986	-30.38	1976	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.30.444242	OGLL	-21.32	1-16-91	-2.22	-19.10	1986	-23.86	1981	S	1981,1986,1991
12S.37E.31.32423	OGLL	-25.24	1-16-91	-1.01	-24.23	1986	-27.76	1976	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.32.14342	OGLL	-26.31	1-16-91	-1.05	-25.26	1986	-29.13	1981	H	1981,1986,1991
12S.37E.33.41341	OGLL	-30.52	1-16-91	+0.22	-30.52	1991	-34.45	1976	S	1961,1966,1971,1976,1981,1986,1991
12S.37E.34.43410	OGLL	-33.59	1-16-91	-0.29	-33.30	1986	-35.34	1976	S	1961,1966,1971,1976,1981,1986,1991
*12S.37E.35.143212	OGLL	-31.61	1-16-91	-0.65	-30.96	1986	-32.78	1981	I	1961,1966,1971,1976,1981,1986,1991
12S.37E.35.224224	OGLL	-30.09	1-16-91	-1.58	-28.51	1986	-32.31	1966	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.03.312321	OGLL	-46.84	2-06-91	--	-46.84	1991	-48.23	1981	S	1981,1986,1991
*12S.38E.04.34430	OGLL	-27.81	2-06-91	-0.46	-27.35	1986	-29.87	1981	H	1961,1976,1981,1986,1991
12S.38E.05.41111	OGLL	-31.35	1-31-91	-1.92	-29.43	1986	-37.12	1966	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.07.243221	OGLL	-23.12	1-31-91	--	-20.00	1986	-25.62	1981	U	1981,1986,1991
12S.38E.08.31111	OGLL	-22.99	1-31-91	-2.92	-20.07	1986	-25.72	1981	U	1981,1986,1991
12S.38E.11.422223	OGLL	-34.83	2-07-91	--	-34.83	1991	-36.74	1971	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.13.14240	OGLL	-27.28	2-07-91	--	-27.28	1991	-29.98	1971	S	1961,1971,1981,1986,1991
12S.38E.14.41113	OGLL	-20.97	2-07-91	--	-20.97	1991	-23.90	1981	S	1981,1986,1991
12S.38E.16.12112	OGLL	-21.83	2-06-91	--	-20.44	1986	-23.68	1981	U	1981,1986,1991
12S.38E.16.41444	OGLL	-5.64	2-06-91	-0.64	-5.00	1986	-10.01	1966	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.18.234221	OGLL	-17.96	1-31-91	-2.65	-15.31	1986	-23.50	1966	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.19.233223	OGLL	-18.45	1-31-91	-2.40	-16.05	1986	-20.48	1981	U	1981,1986,1991
12S.38E.19.41322	OGLL	-17.64	1-31-91	-2.87	-14.77	1986	-21.18	1961	S	1961,1980-81,1986,1991
12S.38E.20.22110	OGLL	-20.39	2-06-91	-1.21	-19.18	1986	-22.72	1971	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.20.422142	OGLL	-33.06	2-06-91	+0.42	-33.06	1991	-36.05	1981	S	1981,1986,1991
*12S.38E.22.44114	OGLL	-22.43	2-07-91	+0.07	-21.58	1976	-24.27	1961	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.23.424424	OGLL	-24.00	2-07-91	+0.57	-23.78	1971	-25.94	1981	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.26.34340	OGLL	-27.57	2-07-91	--	-24.33	1976	-29.34	1986	S	1961,1971,1976,1981,1986,1991
12S.38E.29.21411A	OGLL	-28.08	2-06-91	--	-28.08	1991	-30.20	1986	S	1986,1991
12S.38E.30.14413A	OGLL	-21.26	2-06-91	+0.17	-21.26	1991	-21.43	1986	S	1986,1991
12S.38E.31.42224	OGLL	-31.70	2-06-91	+1.12	-31.70	1991	-32.95	1971	S	1961,1966,1971,1976,1981,1986,1991
12S.38E.32.233133	OGLL	-29.98	2-06-91	-0.31	-28.69	1981	-29.98	1991	I	1981,1986,1991