



Prepared in cooperation with the State of New Mexico and other agencies

Water Resources Data New Mexico Water Year 2004



Water-Data Report NM-04-1

U.S. Department of the Interior
U.S. Geological Survey

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SAN MIGUEL COUNTY

Las Vegas Area

353346105145201. Local number, 15N.16E.04.242.

LOCATION.--Lat 35°33'46", long 105°14'52", Hydrologic Unit 13060001.

AQUIFER.--Santa Rosa Sandstone.

WELL CHARACTERISTICS.--Drilled water-table municipal well, diameter 10 in. 0-612 ft, 7 in. 612-772 ft, depth 815 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,462 ft above National Geodetic Vertical Datum of 1929. Measuring point: entry port, west side of pump base, 1.95 ft above land-surface datum.

PERIOD OF RECORD.--December 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.82 ft below land-surface datum, Dec. 15, 1999; lowest measured, 54.78 ft below land-surface datum, Mar. 26, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 26	54.78	AUG 24	37.65

Las Vegas Area

353418105145601. Local number, 16N.16E.33.143.

LOCATION.--Lat 35°34'18", long 105°14'56", Hydrologic Unit 13060001.

AQUIFER.--Santa Rosa Sandstone.

WELL CHARACTERISTICS.--Drilled water-table municipal well, diameter 10 in. 0-596 ft, 8 in. 596-824 ft, depth 829 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,477 ft above National Geodetic Vertical Datum of 1929. Measuring point: entry port, west side of pump base, 1.95 ft above land-surface datum.

PERIOD OF RECORD.--December 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.81 ft below land-surface datum, July 27, 2001; lowest measured, 116.26 ft below land-surface datum, Mar. 26, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 26	116.26	AUG 24	98.87

SANTA FE COUNTY

Estancia Valley

350534106024801 (formerly 350525106025001). Local number, 10N.08E.13.1332.

LOCATION.--Lat 35°05'34", long 106°02'53", Hydrologic Unit 13050001.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., reported depth 513 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,274 ft above National Geodetic Vertical Datum of 1929. Measuring point: lower inside edge of hole in south side of casing, 0.45 ft above land-surface datum.

REMARKS.--"P" indicates well pumping.

PERIOD OF RECORD.--February 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.75 ft below land-surface datum, Feb. 22, 1950; lowest measured, 181.55P ft below land-surface datum, Aug. 4, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	165.04	SEP 14	177.10

Estancia Valley

350344106004601 (formerly 350340106005001). Local number, 10N.09E.29.1334.

LOCATION.--Lat 35°03'45", long 106°00'46", Hydrologic Unit 13050001.

AQUIFER.--Glorieta Sandstone of Permian age.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 14 in., reported depth 200 ft, cased to 140 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,248 ft above National Geodetic Vertical Datum of 1929. Measuring point: top edge of 3-in. pipe on north side of pump, 1.30 ft above land-surface datum.

REMARKS.--"S" indicates nearby well pumping.

PERIOD OF RECORD.--February 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.00 ft below land-surface datum, May 4, 1949; lowest measured, 146.28S ft below land-surface datum, Sept. 2, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	132.50	SEP 14	144.92S

GROUND-WATER LEVELS
SANTA FE COUNTY—Continued

Estancia Valley

350859106002901. Local number, 11N.09E.29.143.

LOCATION.--Lat 35°08'59", long 106°00'29", Hydrologic Unit 13050001.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 15 in., depth unknown.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,274 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.93 ft below land-surface datum, Apr. 1, 1987; lowest measured, 151.72 ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	150.00	SEP 14	151.72

Santa Fe Area

353636106021001. Local number, 16N.08E.13.444.

LOCATION.--Lat 35°36'36", long 106°02'10", Hydrologic Unit 13020201.

AQUIFER.--Tesuque Formation of Santa Fe Group.

WELL CHARACTERISTICS.--Drilled domestic well, diameter 6 1/2 in., depth 337 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,400 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 0.70 ft above land-surface datum.

PERIOD OF RECORD.--February 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 256.04 ft below land-surface datum, Jan. 20, 1982; lowest measured, 266.67 ft below land-surface datum, Sept. 9, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 25	264.03	SEP 09	266.67

Santa Fe Area

353516106035801. Local number, 16N.08E.26.32112.

LOCATION.--Lat 35°35'16", long 106°03'58", Hydrologic Unit 13020201.

AQUIFER.--Tesuque Formation of Santa Fe Group.

WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 10 in., depth 160 ft, cased to 160 ft, perforated 125-160 ft.

INSTRUMENTATION.--Digital recorder, 1-hour measurement.

DATUM.--Elevation of land-surface datum is 6,285 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 1.25 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 125.62 ft below land-surface datum, June 11, 1973; lowest recorded, 132.54 ft below land-surface datum, July 18, 2003.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.33	131.33	131.35	131.42	131.44	131.45	131.38	131.36	131.34	131.42	131.45	131.51
10	131.31	131.30	131.29	131.36	131.35	131.33	131.41	131.34	131.37	131.41	131.42	131.47
15	131.32	131.31	131.27	131.34	131.40	131.35	131.40	131.33	131.38	131.42	131.46	131.51
20	131.33	131.28	131.31	131.40	131.42	131.39	131.36	131.36	131.32	131.43	131.50	131.52
25	131.39	131.30	131.35	131.38	131.41	131.38	131.42	131.38	131.36	131.45	131.46	131.52
EOM	131.34	131.37	131.35	131.36	131.37	131.32	131.44	131.36	131.39	131.47	131.49	131.51

WTR YR 2004 HIGHEST 131.20 NOV 22 LOWEST 131.54 SEP 22

Santa Fe Area

353735105581201 (formerly 353753105580501). Local number, 16N.09E.10.42114.

LOCATION.--Lat 35°37'53", long 105°58'05", Hydrologic Unit 13020201.

AQUIFER.--Ancha Formation of Santa Fe Group.

WELL CHARACTERISTICS.--Drilled domestic well, diameter 6 in., depth 243 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,820 ft above National Geodetic Vertical Datum of 1929. Measuring point: 1/2-in. plug in cover plate, 6.00 ft below land-surface datum.

REMARKS.--"V" indicates foreign substance was present on surface of water.

PERIOD OF RECORD.--August 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 149.52 ft below land-surface datum, Dec. 11, 1957; lowest measured, 235.50V ft below land-surface datum, July 11, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL
SEP 09	Dry

GROUND-WATER LEVELS

TORRANCE COUNTY

Estancia Valley

343443106024401. Local number, 04N.09E.07.334.

LOCATION.--Lat 34°34'43", long 106°02'44", Hydrologic Unit 13050001.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 16 in., reported depth 163 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,118 ft above National Geodetic Vertical Datum of 1929. Measuring point: hole in northwest side of pump base, 1.50 ft above land-surface datum.

REMARKS.--"P" indicates well pumping.

PERIOD OF RECORD.--February 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.70 ft below land-surface datum, Feb. 10, 1958; lowest measured, 139.43P ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	105.22	SEP 14	139.43P

Estancia Valley

344016106070901 (formerly 344016106064701). Local number, 05N.08E.08.424.

LOCATION.--Lat 34°40'16", long 106°07'09", Hydrologic Unit 13050001.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., reported depth 204 ft, cased to 98 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,218 ft above National Geodetic Vertical Datum of 1929. Measuring point: 3/4-in. plug in south side of discharge pipe, 1.80 ft above land-surface datum.

REMARKS.--"P" indicates well pumping.

PERIOD OF RECORD.--March 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.03 ft below land-surface datum, Mar. 23, 1948; lowest measured, 165.70P ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	133.05	SEP 14	165.70P

Estancia Valley

344234106070601 (formerly 344234106074901). Local number, 06N.08E.32.212.

LOCATION.--Lat 34°42'34", long 106°07'06", Hydrologic Unit 13050001.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., reported depth 209 ft, cased to 84 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,174 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of 1 1/2-in. hole in pump base, 0.04 ft above land-surface datum.

PERIOD OF RECORD.--February 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.22 ft below land-surface datum, Feb. 18, 1947; lowest measured, 99.17 ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	93.64	SEP 14	99.17

Estancia Valley

344604105574601 (formerly 344622105575501). Local number, 06N.09E.11.211.

LOCATION.--Lat 34°46'04", long 105°57'46", Hydrologic Unit 13050001.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., reported depth 148 ft, cased to 140 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,086 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 0.75 ft above land-surface datum.

PERIOD OF RECORD.--May 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.07 ft below land-surface datum, May 4, 1949; lowest measured, 43.26 ft below land-surface datum, Sept. 2, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	24.65	SEP 14	34.15

TORRANCE COUNTY—Continued

Estancia Valley

344842106032701. Local number, 07N.08E.25.121.

LOCATION.--Lat 34°48'43", long 106°03'22", Hydrologic Unit 13050001.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 16 in., depth 200 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,131 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 0.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.30 ft below land-surface datum, Feb. 7, 1962; lowest measured, 78.48 ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	70.07	SEP 14	78.48

UNION COUNTY

Clayton Area

355144103041201 (formerly 360940103083501). Local number, 19N.36E.23.2444.

LOCATION.--Lat 35°51'44", long 103°04'12", Hydrologic Unit 11090102.

AQUIFER.--Dakota and Purgatoire Formations.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 14 in., depth 206 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,326 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 1.00 ft above land-surface datum.

REMARKS.--"S" indicates nearby well pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 145.22 ft below land-surface datum, Mar. 17, 1971; lowest measured, 158.58 ft below land-surface datum, Aug. 19, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 08	152.08	AUG 23	151.44

Clayton Area

361847103064701 (formerly 361910103170501). Local number, 24N.36E.17.244.

LOCATION.--Lat 36°18'47", long 103°06'47", Hydrologic Unit 11090103.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 20 in., depth 231 ft.

INSTRUMENTATION.--Continuous strip-chart recorder removed. Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,707 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 1.95 ft above land-surface datum.

PERIOD OF RECORD.--May 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.38 ft below land-surface datum, May 8, 1968; lowest measured, 108.42 ft below land-surface datum, Aug. 24, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 09	107.79	AUG 24	108.42

Clayton Area

362540103095001. Local number, 25N.35E.02.441.

LOCATION.--Lat 36°25'40", long 103°09'50", Hydrologic Unit 11090103.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter unknown, depth 185 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,984 ft above National Geodetic Vertical Datum of 1929. Measuring point: plugged hole in pump base, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--December 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 91.14 ft below land-surface datum, Jan. 9, 1989; lowest measured, 106.85 ft below land-surface datum, Feb. 2, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	94.09	MAR 10	93.95