

# **Water Resources Data New Mexico Water Year 2003**

By Dave Byrd, Harriet R. Allen, and Mary Montañó

Water-Data Report NM-03-1

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

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

**MCKINLEY COUNTY**

|  |     |
|--|-----|
| WELL 352023107473201. Local number, 13N.09W.21.4123 .....  | 369 |
| WELL 353645108011501. Local number, 16N.11W.17.4322 .....  | 369 |
| WELL 353521108284901. Local number, 16N.16W.25.142 .....   | 369 |
| WELL 354235108170702. Local number, 17N.14W.13.1144B ..... | 370 |
| WELL 354235108170703. Local number, 17N.14W.13.1144C ..... | 370 |

**OTERO COUNTY**

|   |     |
|---|-----|
| WELL 330321106011101. (formerly 330324106011201) Local number, 14S.10E.31.144 ..... | 370 |
| WELL 325115105321401. Local number, 17S.14E.08.12111 .....                          | 370 |
| WELL 320657105061501. Local number, 25S.18E.21.233 .....                            | 371 |
| WELL 320138105063101. (formerly 320650105034801) Local number, 26S.18E.21.331 ..... | 371 |
| WELL 320008105064501. Local number, 26S.18E.33.133 .....                            | 371 |

**QUAY COUNTY**

|  |     |
|--|-----|
| WELL 343848103555801. Local number, 05N.28E.23.222232 .....                            | 371 |
| WELL 343855103482901. (formerly 343810103463001) Local number, 05N.30E.18.331311 ..... | 372 |
| WELL 344406103555501. Local number, 06N.28E.13.33333 .....                             | 372 |
| WELL 351040103433602. Local number, 11N.30E.14.144D .....                              | 372 |
| WELL 353239103111301. Local number, 15N.35E.11.21222 .....                             | 372 |
| WELL 354238103132301. Local number, 17N.35E.16.221 .....                               | 373 |

**ROOSEVELT COUNTY**

|  |     |
|--|-----|
| WELL 341014103264401. Local number, 01S.33E.35.434344 .....                            | 373 |
| WELL 341037103254501. Local number, 01S.33E.36.23111 .....                             | 373 |
| WELL 340753103083101. Local number, 02S.36E.14.311111 .....                            | 373 |
| WELL 340844103055001. Local number, 02S.37E.07.432222 .....                            | 374 |
| WELL 334700103030601. (formerly 335655103032001) Local number, 06S.38E.21.233131 ..... | 374 |

**SANDOVAL COUNTY**

|   |     |
|---|-----|
| WELL 352121106285501. (formerly 352235106282401) Local number, 13N.04E.12.112 ..... | 374 |
| WELL 351319106373501. Local number, 12N.03E.33.414A .....                           | 374 |
| WELL 351319106373502. Local number, 12N.03E.33.414B .....                           | 375 |
| WELL 351319106373503. Local number, 12N.03E.33.414C .....                           | 375 |
| WELL 351319106373504. Local number, 12N.03E.33.414D .....                           | 375 |
| WELL 351319106373505. Local number, 12N.03E.33.414E .....                           | 375 |
| WELL 351319106373506. Local number, 12N.03E.33.414F .....                           | 376 |

**SAN JUAN COUNTY**

|   |     |
|---|-----|
| WELL 364744108225001. Local number, 30N.15W.23.4411 ..... | 376 |
|---|-----|

**SAN MIGUEL COUNTY**

|  |     |
|--|-----|
| WELL 353346105145201. Local number, 15N.16E.04.242 ..... | 376 |
| WELL 353418105145601. Local number, 16N.16E.33.143 ..... | 376 |

**SANTA FE COUNTY**

|   |     |
|---|-----|
| WELL 350534106024801. (formerly 350525106025001) Local number, 10N.08E.13.1332 .....  | 377 |
| WELL 350344106004601. (formerly 350340106005001) Local number, 10N.09E.29.1334 .....  | 377 |
| WELL 350859106002901. Local number, 11N.09E.29.143 .....                              | 377 |
| WELL 353636106021001. Local number, 16N.08E.13.444 .....                              | 377 |
| WELL 353516106035801. Local number, 16N.08E.26.32112 .....                            | 378 |
| WELL 353735105581201. (formerly 353753105580501) Local number, 16N.09E.10.42114 ..... | 378 |
| WELL 354013105580601. (formerly 354005105574501) Local number, 17N.09E.27.441 .....   | 378 |

SANTA FE COUNTY--Continued

|  |     |
|--|-----|
| WELL 353945105574501. Local number, 17N.09E.35.1314A ..... | 379 |
| WELL 353945105574502. Local number, 17N.09E.35.1314B ..... | 379 |
| WELL 353945105574503. Local number, 17N.09E.35.1314C ..... | 379 |
| WELL 355000106092802. Local number, 19N.07E.36.3113B ..... | 380 |
| WELL 355000106092803. Local number, 19N.07E.36.3113C ..... | 380 |
| WELL 355002106093701. Local number, 19N.07E.35.4222A ..... | 380 |
| WELL 355002106093702. Local number, 19N.07E.35.4222B ..... | 381 |
| WELL 355002106093703. Local number, 19N.07E.35.4222C ..... | 381 |
| WELL 355003106094301. Local number, 19N.07E.35.4212A ..... | 381 |
| WELL 355003106094302. Local number, 19N.07E.35.4212B ..... | 381 |
| WELL 355003106094303. Local number, 19N.07E.35.4212C ..... | 382 |
| WELL 355006106094803. Local number, 19N.07E.35.4122C ..... | 382 |

SIERRA COUNTY

|   |     |
|---|-----|
| WELL 331002107150001. Local number, 13S.04W.21.213 .....                            | 382 |
| WELL 325921107185101. (formerly 325550107184001) Local number, 15S.05W.24.312 ..... | 382 |
| WELL 325340107183001. (formerly 325350107175501) Local number, 16S.05W.25.211 ..... | 383 |

TAOS COUNTY

|  |     |
|--|-----|
| WELL 365035105360501. (formerly 365036105355301) Local number, 30N.13E.18.1121 ..... | 383 |
| WELL 365644105363501. (formerly 365650105370001) Local number, 01S.74W.24.244 .....  | 383 |

TORRANCE COUNTY

|   |     |
|---|-----|
| WELL 343443106024401. Local number, 04N.09E.07.334 .....                            | 383 |
| WELL 344016106070901. (formerly 344016106064701) Local number, 05N.08E.08.424 ..... | 384 |
| WELL 344234106070601. (formerly 344234106074901) Local number, 06N.08E.32.212 ..... | 384 |
| WELL 344604105574601. (formerly 344622105575501) Local number, 06N.09E.11.211 ..... | 384 |
| WELL 344842106032701. Local number, 07N.08E.25.121 .....                            | 384 |

UNION COUNTY

|  |     |
|--|-----|
| WELL 355144103041201. (formerly 360940103083501) Local number, 19N.36E.23.2444 ..... | 385 |
| WELL 361847103064701. (formerly 361910103170501) Local number, 24N.36E.17.244 .....  | 385 |
| WELL 362540103095001. Local number, 25N.35E.02.441 .....                             | 385 |
| WELL 363410103064801. Local number, 27N.36E.17.434 .....                             | 385 |
| WELL 364444104000201. (formerly 364430103595501) Local number, 29N.28E.18.341 .....  | 386 |

## 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 2002 TO SEPTEMBER 2003

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| JAN 10 | 163.19      | SEP 02 | 176.46      |

## 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 2002 TO SEPTEMBER 2003

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| JAN 10 | 132.04      | SEP 02 | 146.28S     |

## 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, 149.00 ft below land-surface datum, Sept. 2, 2003.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| MAR 24 | 148.60      | SEP 02 | 149.00      |

## 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, 264.79 ft below land-surface datum, Aug. 15, 1997.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| JAN 28 | 264.04      | JUL 11 | 264.30      |

## SIERRA COUNTY—Continued

## Rincon Valley

325340107183001 (formerly 325350107175501). Local number, 16S.05W.25.211.

LOCATION.--Lat 32°53'40", long 107°18'30", Hydrologic Unit 13030102.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 10 in., depth 32 ft, cased to 32 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,198 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.29 ft below land-surface datum, Feb. 12, 1987; lowest measured, 25.95 ft below land-surface datum, Jan. 6, 1966.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| FEB 04 | 24.10       | JUL 24 | 24.86       |

## TAOS COUNTY

## Sunshine Valley

365035105360501 (formerly 365036105355301). Local number, 30N.13E.18.1121.

LOCATION.--Lat 36°50'35", long 105°36'05", Hydrologic Unit 13020101.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 10 in., depth 500 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 7,597 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.50 ft below land-surface datum, Jan. 16, 1994; lowest measured, 77.33 ft below land-surface datum, Aug. 9, 1978.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 30 | 70.39       | DEC 02 | 70.46       | FEB 20 | 70.53       | JUL 11 | 71.00       |

## Sunshine Valley

365644105363501 (formerly 365650105370001). Local number, 01S.74W.24.244.

LOCATION.--Lat 36°56'44", long 105°36'35", Hydrologic Unit 13020101.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 270 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 7,628 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 182.78 ft below land-surface datum, Jan. 17, 1996; lowest measured, 213.53 ft below land-surface datum, Aug. 10, 1965.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| FEB 20 | 184.20      | JUL 11 | 185.24      |

## 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.

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, 110.90 ft below land-surface datum, Aug. 3, 2001.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| JAN 10 | 102.48      | SEP 02 | PUMPING     |

GROUND-WATER LEVELS  
TORRANCE COUNTY—Continued

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.

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, 140.89 ft below land-surface datum, Sept. 2, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| JAN 10 | 133.08         | SEP 02 | 140.89         |

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, 97.74 ft below land-surface datum, Sept. 2, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| JAN 10 | 92.44          | SEP 02 | 97.74          |

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 2002 TO SEPTEMBER 2003

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| JAN 23 | 32.90          | SEP 02 | 43.26          |

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, 75.71 ft below land-surface datum, Sept. 2, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| JAN 23 | 67.45          | SEP 02 | 75.71          |