

Water Resources Data New Mexico Water Year 2005

By Lynn Miller, and Jessica Stiles

Water-Data Report NM-05-1

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

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

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Gale A. Norton, Secretary

U.S. Geological Survey

P. Patrick Leahy, Acting Director

2006

USGS New Mexico Water Science Center

5338 Montgomery Blvd. NE, Suite 400

Albuquerque, New Mexico 87109-1311

505-830-7900

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PREFACE

This annual hydrologic data report of New Mexico is one of a series of annual reports that documents hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by Federal, State, and local agencies and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey of the New Mexico Water Science Center who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policies and guidelines.

The following personnel are recognized for their significant contributions to this report:

S.K. Anderholm	B.A. Hayhurst	L.A. Richardson
M.D. Carlson	M. Jimenez	S.F. Richey
B.J. Carr	T.M. Kelly	D.M. Roark
D. Crilley	J. Langman	O.C. Romero
A.R. Cox	S.H. Lewandowski	M.L. Shewmake
D.L. Curfew	D.W. Lutz	G.H. Sieber
R.K. Dewees	L.C. Madrid	M. Stewart
L.C. Donohoe	D.P. McAda	J.A. Stiles
W.T. Evans	R.M. McBreen	J.R. Summers
S.E. Falk	R.L. MoQuino	P.J. Swift
R.G. Garcia	E.L. Nickerson	J.E. Veenhuis
B.R. Goddard	R.Y. Ochoa	S.D. Waltemeyer
R.L. Gold	T.J. Quintana	R.W. Wilcox
A.E. Gregory	D.R. Rankin	

This report was prepared under the general supervision of Lynn K. Miller, Supervisory Hydrologic Technician, and Linda S. Weiss, Director of USGS New Mexico Water Science Center, and in cooperation with the State of New Mexico and with other agencies.

April 2006

Annual: Oct. 1, 2004, through Sept. 30, 2005

Water resources data, New Mexico, water year 2005

Lynn K. Miller, and Jessica A. Stiles

USGS New Mexico Water Science Center
5338 Montgomery Blvd. NE, Suite 400
Albuquerque, New Mexico 87109-1311

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Water-resources data for the 2005 water year for New Mexico consist of records of discharge and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality in wells and springs. This report contains discharge records for 182 gaging stations; stage and contents for 22 lakes and reservoirs; water quality for 45 gaging stations, 110 wells, and 3 partial-record stations and miscellaneous sites; and water levels at 109 observation wells. Also included are 85 crest-stage, partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements. Two seepage investigations were made during the year. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating Federal, State, and local agencies in New Mexico.

*New Mexico, *Hydrologic data, *Surface water, *Water quality, Lakes, Reservoirs, Sediments, Water levels, Flow rates, Gaging stations, Chemical analyses, Water analyses, Water temperature, Sampling sites
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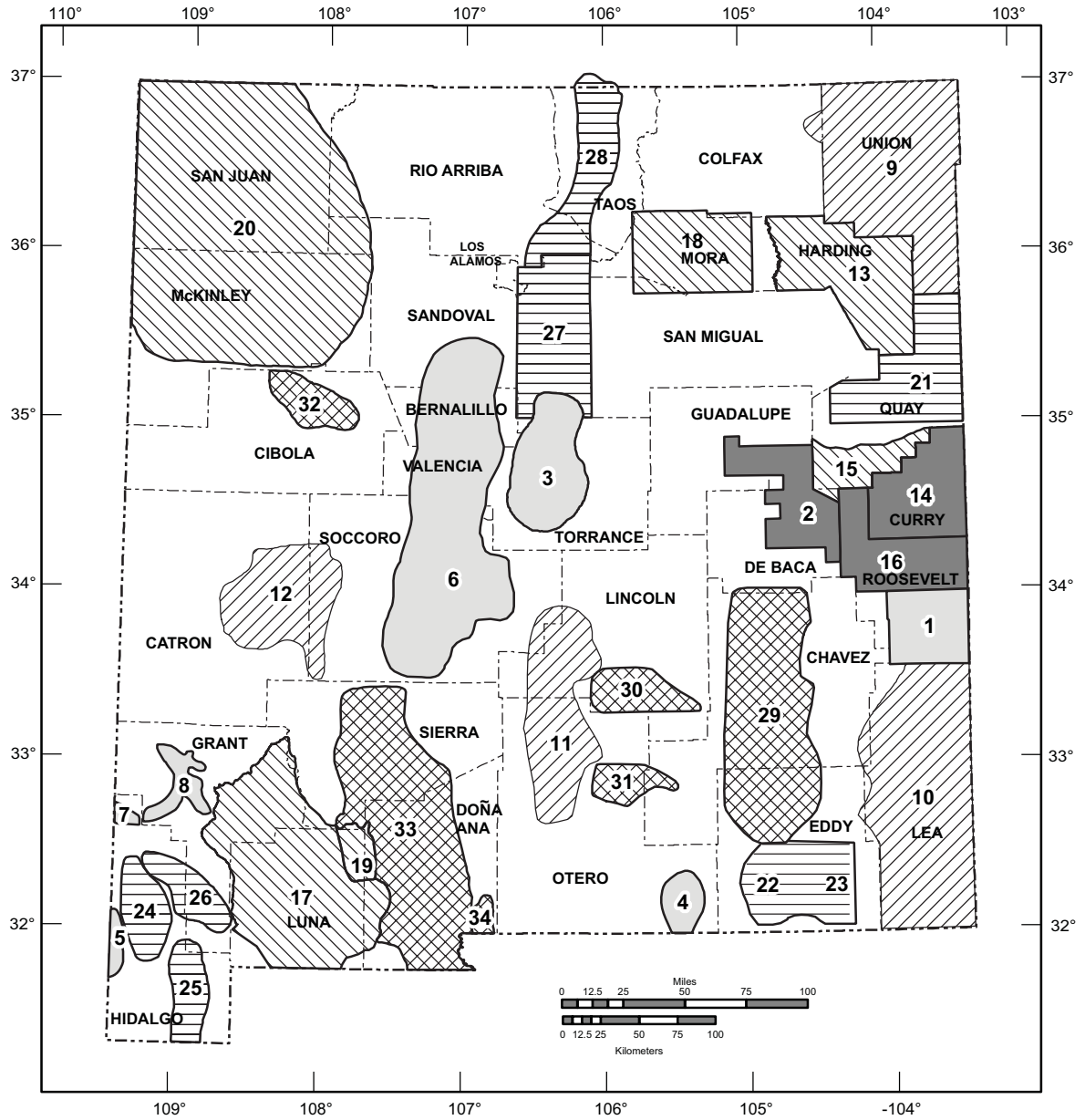
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GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

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WELL 322927107220101. (formerly 322930107221001) Local number, 21S.05W.08.444	438
WELL 321352107493901. Local number, 24S.10W.12.431	438
WELL 321328107565301. (formerly 321415107565501) Local number, 24S.11W.14.122	439
WELL 321010107260201. (formerly 321015107260501) Local number, 25S.06W.02.111	439
WELL 320918107293301. (formerly 320915104294501) Local number, 25S.06W.07.211	439
WELL 315517107375001. (formerly 315525107374501) Local number, 27S.08W.35.122	440
WELL 315903107424501. (formerly 315905107425001) Local number, 27S.09W.01.431	440
MCKINLEY COUNTY	
WELL 352023107473201. Local number, 13N.09W.21.4123	440
WELL 353645108011501. Local number, 16N.11W.17.4322	441
WELL 353521108284901. Local number, 16N.16W.25.142	441
WELL 354235108170702. Local number, 17N.14W.13.1144B	441
WELL 354235108170703. Local number, 17N.14W.13.1144C	442
QUAY COUNTY	
WELL 343848103555801. Local number, 05N.28E.23.222232	442
WELL 343855103482901. (formerly 343810103463001) Local number, 05N.30E.18.331311	442
WELL 344406103555501. Local number, 06N.28E.13.33333	443
WELL 351040103433602. Local number, 11N.30E.14.144D	443
WELL 354238103132301. Local number, 17N.35E.16.221	443
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WELL 341037103254501. Local number, 01S.33E.36.23111	444
WELL 334700103030601. (formerly 335655103032001) Local number, 06S.38E.21.233131	444
SANDOVAL COUNTY	
WELL 352121106285501. (formerly 352235106282401) Local number, 13N.04E.12.112	445
SAN JUAN COUNTY	
WELL 364744108225001. Local number, 30N.15W.23.4411	445
SAN MIGUEL COUNTY	
WELL 353346105145201. Local number, 15N.16E.04.242	446
WELL 353418105145601. Local number, 16N.16E.33.143	446
SANTA FE COUNTY	
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WELL 350344106004601. (formerly 350340106005001) Local number, 10N.09E.29.1334	447
WELL 350859106002901. Local number, 11N.09E.29.143	448
WELL 353516106035801. Local number, 16N.08E.26.32112	448
WELL 353945105574501. Local number, 17N.09E.35.1314A	449
WELL 353945105574502. Local number, 17N.09E.35.1314B	449
WELL 353945105574503. Local number, 17N.09E.35.1314C	450
WELL 355000106092802. Local number, 19N.07E.36.3113B	450
WELL 355000106092803. Local number, 19N.07E.36.3113C	451
WELL 355002106093701. Local number, 19N.07E.35.4222A	451
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WELL 355002106093703. Local number, 19N.07E.35.4222C	452
WELL 355003106094301. Local number, 19N.07E.35.4212A	453
WELL 355003106094302. Local number, 19N.07E.35.4212B	453
WELL 355003106094303. Local number, 19N.07E.35.4212C	454
WELL 355006106094803. Local number, 19N.07E.35.4122C	454
SIERRA COUNTY	
WELL 331002107150001. Local number, 13S.04W.21.213	455
WELL 325921107185101. (formerly 325550107184001) Local number, 15S.05W.24.312	455
WELL 325340107183001. (formerly 325350107175501) Local number, 16S.05W.25.211	455
TAOS COUNTY	
WELL 365035105360501. (formerly 365036105355301) Local number, 30N.13E.18.1121	456
WELL 365644105363501. (formerly 365650105370001) Local number, 01S.74W.24.244	456
TORRANCE COUNTY	
WELL 343443106024401. Local number, 04N.09E.07.334	456
WELL 344016106070901. (formerly 344016106064701) Local number, 05N.08E.08.424	457
WELL 344234106070601. (formerly 344234106074901) Local number, 06N.08E.32.212	457
WELL 344604105574601. (formerly 344622105575501) Local number, 06N.09E.11.211	458
TORRANCE COUNTY	
WELL 344842106032701. Local number, 07N.08E.25.121	458
UNION COUNTY	
WELL 355144103041201. (formerly 360940103083501) Local number, 19N.36E.23.2444	459
WELL 361847103064701. (formerly 361910103170501) Local number, 24N.36E.17.244	459
WELL 362540103095001. Local number, 25N.35E.02.441	459
WELL 363410103064801. Local number, 27N.36E.17.434	460
WELL 364444104000201. (formerly 364430103595501) Local number, 29N.28E.18.341	460



EXPLANATION

2000/2005	2001/2006	2002/2007	2003/2008	2004/2009	ANNUAL
1.CAUSEY-LINGO	9.NORTHERN HIGH PLAINS	13.HARDING COUNTY	21.LOWER CANADIAN	29.ROSWELL BASIN	2.FORT SUMNER
3.ESTANCIA	10.LEA COUNTY	15.HOUSE	22.CARLSBAD	30.RIO HONDO	14.CURRY COUNTY
4.SALT BASIN	11.TULAROSA BASIN	17.MIMBRES BASIN	23.CAPITAN REEF	31.RIO PEÑASCO	16.PORTALES
5.SAN SIMON	12.SAN AGUSTIN PLAINS	18.MORA	24.ANIMAS	32.GRANTS-BLUEWATER	
6.MIDDLE RIO GRANDE	19.NUTT-HOCKETT	20.SAN JUAN BASIN	25.PLAYAS	33.LOWER RIO GRANDE	
7.VIRDEN			26.LORDSBURG	34.HUECO	
8.GILA RIVER			27.SANTA FE COUNTY		
			28.UPPER RIO GRANDE		

Figure 1.--Areas of annual and 5-year ground-water-level monitoring and years measured or scheduled for measurement.

WATER RESOURCES DATA—NEW MEXICO, 2005

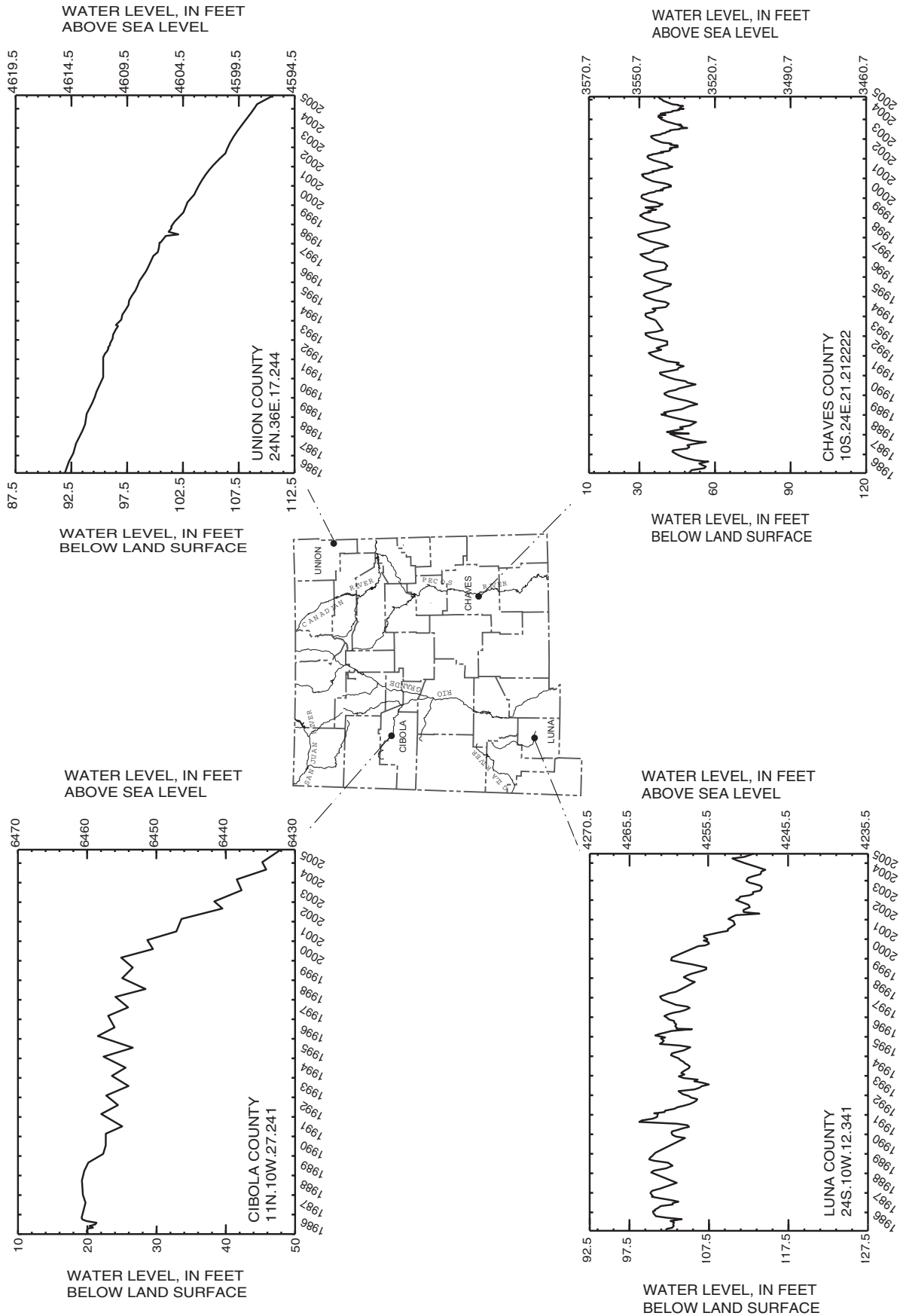


Figure 2. Ground-water level trends for the last 20 years.

SANTA FE COUNTY

Estancia Valley

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

LOCATION.--Lat 35°05'35", long 106°02'55", 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 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 03	162.25	AUG 11	
WATER YEAR 2005	HIGHEST 162.25	FEB 03, 2005	LOWEST 162.25 FEB 03, 2005

Estancia Valley

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

LOCATION.--Lat 35°03'45", long 106°00'48", 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 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 08	135.14	AUG 11	148.46
WATER YEAR 2005	HIGHEST 135.14	FEB 08, 2005	LOWEST 148.46 AUG 11, 2005

GROUND-WATER LEVELS
SANTA FE COUNTY—Continued
Estancia Valley

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

LOCATION.--Lat 35°08'60", long 106°00'32", 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 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 03	152.2	AUG 11	152.58
WATER YEAR 2005	HIGHEST 152.2	FEB 03, 2005	LOWEST 152.58
		AUG 11, 2005	

Santa Fe Area

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

LOCATION.--Lat 35°35'16", long 106°04'00", 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.--June 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 2004 TO SEPTEMBER 2005
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.49	131.53	131.51	131.61	131.50	131.60	131.62	131.57	131.61	131.60	131.64	131.66
10	131.50	131.57	131.59	131.52	131.58	131.54	131.62	131.55	131.62	131.62	131.64	131.68
15	131.48	131.54	131.53	131.61	131.59	131.63	131.58	131.58	131.61	131.65	131.66	131.69
20	131.53	131.54	131.49	131.54	131.60	131.52	131.58	131.61	131.64	131.66	131.68	131.66
25	131.53	131.53	131.57	131.56	131.57	131.58	131.59	131.61	131.63	131.62	131.66	131.69
EOM	131.48	131.60	131.54	131.61	131.57	131.64	131.58	131.62	131.64	131.64	131.69	131.66

GROUND-WATER LEVELS

TAOS COUNTY

Sunshine Valley

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

LOCATION.--Lat 36°50'35", long 105°36'07", 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, 68.67 ft below land-surface datum, Aug. 5, 1996; lowest measured, 77.33 ft below land-surface datum, Aug. 9, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL
APR 11	72.32

Sunshine Valley

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

LOCATION.--Lat 36°56'44", long 105°36'37", 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, 183.40 ft below land-surface datum, Feb. 27, 1997; lowest measured, 213.53 ft below land-surface datum, Aug. 10, 1965.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL
APR 08	186.07

TORRANCE COUNTY

Estancia Valley

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

LOCATION.--Lat 34°34'53", long 106°02'38", 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 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 02	108.80	AUG 11	121.53
WATER YEAR 2005 HIGHEST 108.80 FEB 02, 2005 LOWEST 121.53 AUG 11, 2005			

TORRANCE COUNTY—Continued

Estancia Valley

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

LOCATION.--Lat 34°40'19", long 106°07'50", 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 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 05	136.73	AUG 11	146.25
WATER YEAR 2005	HIGHEST 136.73	FEB 05, 2005	LOWEST 146.25
		AUG 11, 2005	

Estancia Valley

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

LOCATION.--Lat 34°42'34", long 106°07'10", 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 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 04	95.57	AUG 11	
WATER YEAR 2005	HIGHEST 95.57	FEB 04, 2005	LOWEST 95.57
		FEB 04, 2005	

GROUND-WATER LEVELS
TORRANCE COUNTY—Continued

Estancia Valley

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

LOCATION.--Lat 34°46'06", long 105°57'49", 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 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 16	25.30	AUG 11	36.27
WATER YEAR 2005 HIGHEST 25.30		FEB 16, 2005 LOWEST 36.27 AUG 11, 2005	

Estancia Valley

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

LOCATION.--Lat 34°48'43", long 106°03'24", 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 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	70.4	AUG 11	77.97
WATER YEAR 2005 HIGHEST 70.4		MAR 01, 2005 LOWEST 77.97 AUG 11, 2005	