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WATER-LEVEL DATA FOR THE ALBUQUERQUE BASIN AND ADJACENT AREAS, NEW MEXICO, PERIOD OF RECORD THROUGH 1998

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Open-File Report 99-269

Prepared in cooperation with the

CITY OF ALBUQUERQUE



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By Dale R. Rankin

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Albuquerque, New Mexico
1999

U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY
Charles G. Groat, Director

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CONVERSION FACTORS

	Multiply	By	To obtain
	foot	0.3048	meter
	mile	1.609	kilometer
	acre	0.4047	hectare

WATER-LEVEL DATA FOR THE ALBUQUERQUE BASIN AND ADJACENT AREAS, NEW MEXICO, PERIOD OF RECORD THROUGH 1998

By Dale R. Rankin

Abstract

The Albuquerque Basin, located in central New Mexico, is about 100 miles long and 25 to 40 miles wide. The basin is defined as the extent of Cenozoic deposits that encompass the structural Rio Grande Rift within the basin. Drinking-water supplies throughout the Albuquerque Basin are obtained solely from ground-water resources. The population of the basin grew from 419,000 in 1980 to 563,600 in 1990, a 34-percent increase, and resulted in increases in water demand and ground-water pumpage. From April 1982 through September 1983, a network of wells was established to monitor changes in ground-water levels throughout the Albuquerque Basin. Water-level data are currently (1998) collected at 88 wells and piezometers. This report includes water-level data from most of these sites for the period of record through 1998. Data collection at sites 6, 21, 27-29, 31, 35, 56-60, 77, 87, and 88 was interrupted due to construction or limited access, and does not extend through the reporting period. Data are currently collected annually at sites 11 and 56-60; semiannually at sites 1-10, 78, and 85; quarterly at sites 12-55, 67-77, 79, 80, 82-84, 87, and 88; and monthly at sites 61-63, 81, and 86. Water levels are recorded hourly at sites 64-66.

INTRODUCTION

The Albuquerque Basin is located in central New Mexico and is about 100 miles long and 25 to 40 miles wide (fig. 1). The basin is defined as the extent of Cenozoic deposits that encompass the structural Rio Grande Rift within the basin (Thorn and others, 1993). The study area extends from Bernalillo south to San Acacia and from Tijeras Canyon west to near the intersection of Interstate 40 and the Bernalillo/Cibola

County line. The only perennial stream is the southward-flowing Rio Grande, which approximately bisects the basin.

The Albuquerque metropolitan area includes a population of 502,100 (U.S. Department of Commerce, 1991) (fig. 2). Although the majority of people are concentrated within the Albuquerque city limits, the basinwide population grew from 419,000 in 1980 to 563,600 in 1990 (U.S. Bureau of the Census, 1980, 1991), an increase of 34 percent. The demand for ground water has also increased because drinking-water supplies throughout the Albuquerque Basin are obtained solely from ground-water resources.

This report, prepared in cooperation with the City of Albuquerque (City), presents information about a water-level monitoring network, operated by the City and the U.S. Geological Survey (USGS), in the Albuquerque Basin, central New Mexico. Most of these data are from the period of record through 1998.

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 to the nearest 10-acre tract in the land network. This number is divided into four segments. The first segment denotes the township north of the New Mexico base line, the second denotes the range east of the New Mexico principal meridian, and the third denotes the section. The fourth segment of the number, which consists of three 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. The first digit of the fourth segment gives the

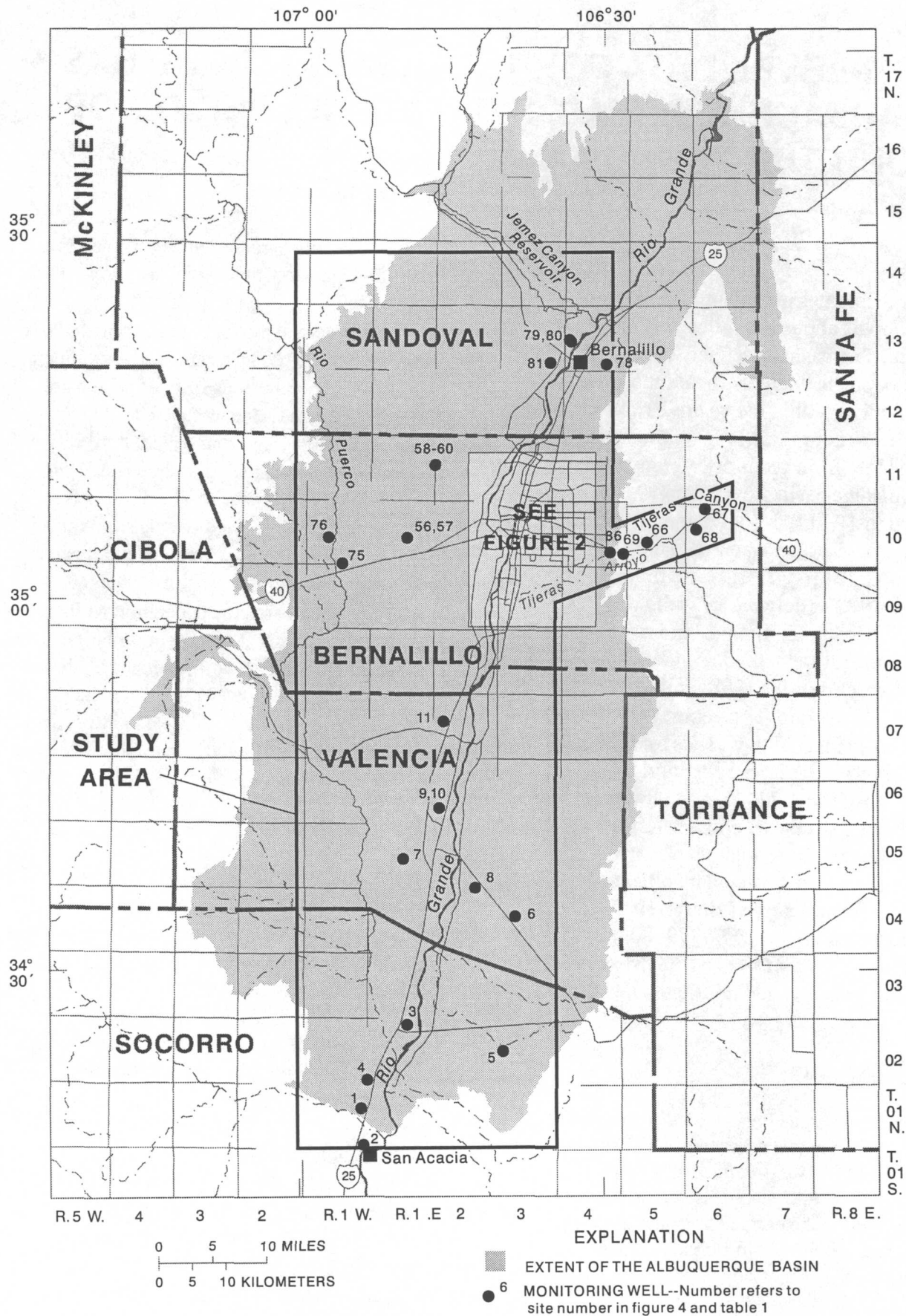


Figure 1. -- Location of study area, monitoring wells, and the Albuquerque Basin.

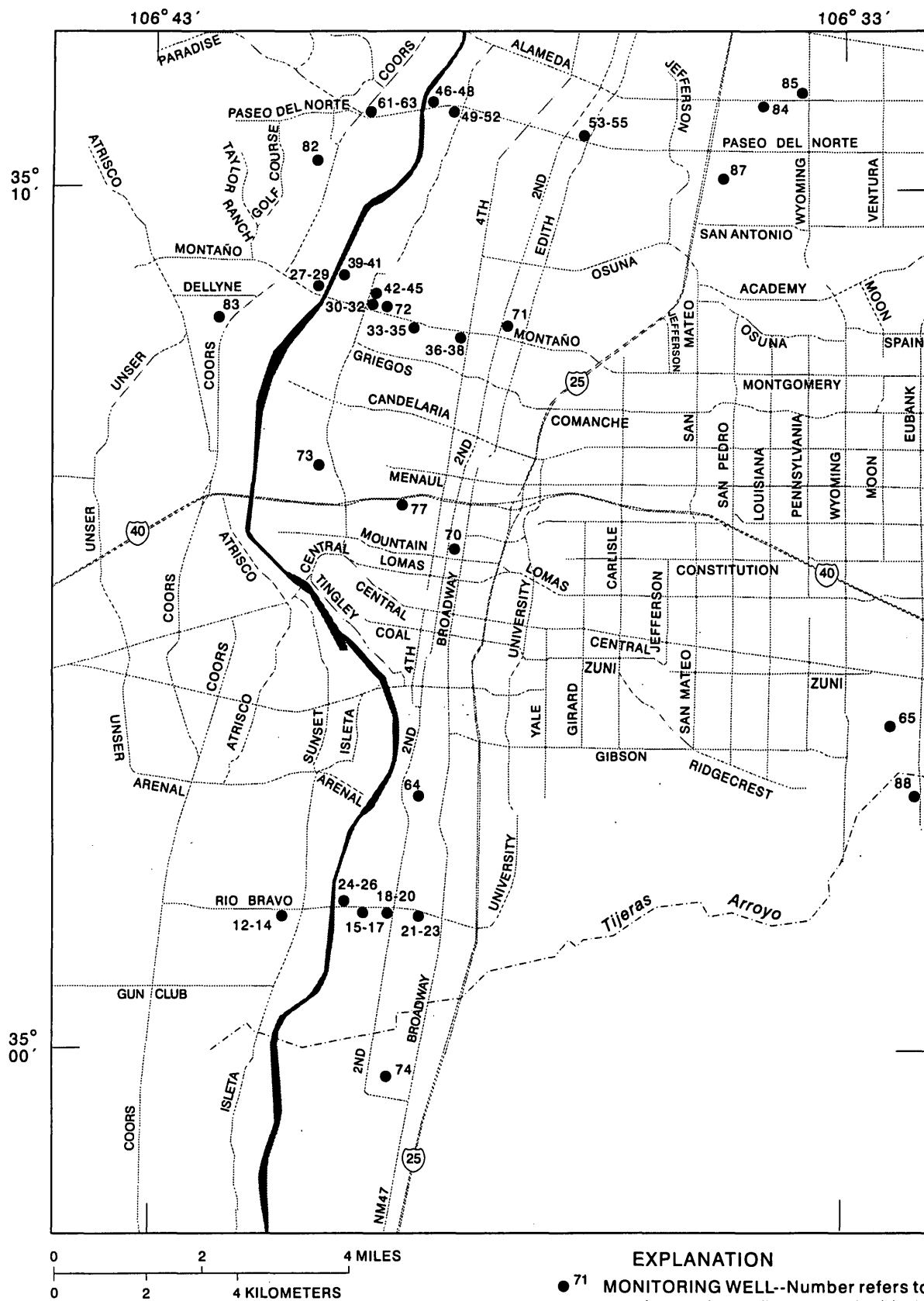


Figure 2.--Location of monitoring wells within the Albuquerque metropolitan area.

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. For example, well 09N.03E.07.131A is in the NW 1/4 of the SW 1/4 of the NW 1/4 of section 7, T. 09 N., R. 03 E. (fig. 3). Letters A, B, C, and so on are added to the last segment of the well number to designate the second, third, fourth, and succeeding wells in the same 10-acre tract.

Methods

Water-level data are collected by USGS personnel. Electric and steel tapes are used to collect water-level data at sites 1-63 and 67-88. Analog-to-digital recorders are used to collect water-level data at sites 64-66. Recorded data are incomplete because of recorder malfunction or temporary removal of the recorder for sampling or geophysical logging.

WATER-LEVEL AND OTHER DATA

Well and piezometer data are listed in table 1; these data include site number and identifier, local identifier, owner, other identifier, well depth, and screened interval. Hydrographs of water-level data for the period of record through 1998 are shown in figure 4. The data presented in the hydrographs include depth to water and hydraulic head.

Water-level data through September 30, 1995, are presented in four previous USGS open-file reports. The first such report (Kues, 1987) includes water-level data collected through September 30, 1985; the second report (Rankin, 1994) includes water-level data collected from October 1, 1986, through September 30, 1990; the third report (Rankin, 1996) includes water-level data collected from the period of record through September 30, 1995; and the fourth report (Rankin, 1998) includes water-level data collected from the period of record through 1997.

Beginning in 1998, the Albuquerque Basin monitoring network was expanded from 88 wells and piezometers to approximately 213 wells and piezometers. The objectives of the network expansion were to (1) measure hydraulic heads from specific depth intervals in the Santa Fe Group aquifer system and (2) provide adequate monitoring of water levels in

areas adjacent to and within City well fields, so that the distribution and magnitude of major pumping effects on the aquifer system can be better determined. The first objective, to measure hydraulic heads from specific depth intervals in the Santa Fe Group aquifer system, is being met with the installation of multiple-completed piezometers to allow hydraulic-head measurements at specific depth intervals. The second objective, to provide adequate monitoring of water levels in areas adjacent to and within City well fields, is being met with water-level data reported to the USGS from the Pueblo of Isleta, Kirtland Air Force Base, and Intel. These data were reported to the USGS beginning in 1999 and have not been entered into the USGS Ground-Water Site-Inventory (GWSI) data base prior to publication; therefore, they do not appear in this report. Because many of the multiple-completed piezometers do not yet have a 12-month period of record, water-level data from them do not appear in this report.

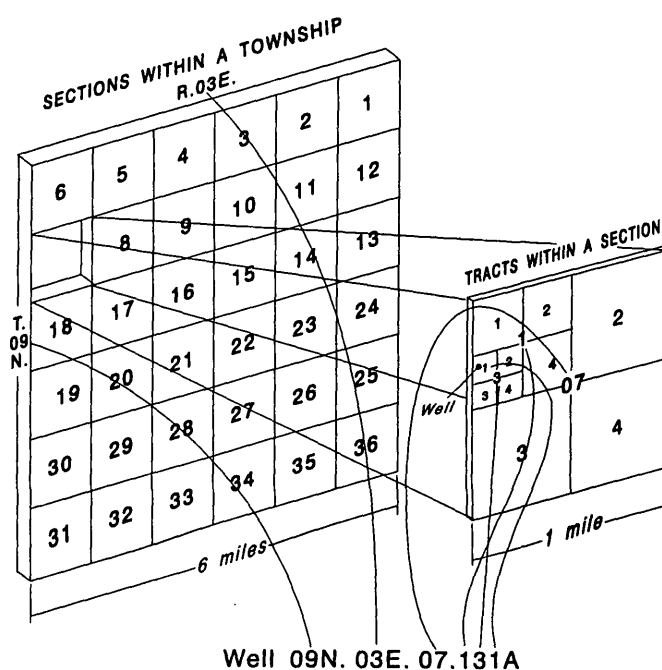


Figure 3.--Well-numbering system in New Mexico.

Table 1.--Well and piezometer data for the Albuquerque Basin, New Mexico
[--, no data]

Site number (figs. 1 and 2)	Site identifier	Local identifier	Owner	Other identifier	Well depth (feet below land surface)	Screened interval (feet)
1	341839106531601	01N.01W.13.244	NM Highway Dept.	Rest Area Windmill	212	173-212
2	341528106533301	01S.01W.01.213	Herkenhoff	--	38	--
3	342513106500301	02N.01E.04.444	Salas	--	107	99-106
4	342107106530401	02N.01E.31.313	Sevilleta National Wildlife Refuge	Sevilleta Refuge Headquarters	223	210-220
5	342406106394501	02N.03E.18.232	Sevilleta National Wildlife Refuge	Black Butte	346	--
6	343428106383301	04N.02E.17.244	Richardson	--	355	335-355
7	343853106494101	05N.01E.22.141	City of Belen	Belen Airport	620	453-483
8	343706106422301	05N.01E.35.143	Faust	--	375	353-373
9	344258106460901	06N.02E.30.412A	Estes	Estes 1	135	125-130
10	344258106460902	06N.02E.30.412B	Estes	Estes 5	300	265-270
11	345000106455501	07N.02E.18.422	Webb	Grasslands	407	150-230
12	350137106410501	--	City of Albuquerque	Rio Bravo Nest 1	148.5	138.5-143.5
13	350137106410502	--	City of Albuquerque	Rio Bravo Nest 1	103.8	93.8-98.8
14	350137106410503	--	City of Albuquerque	Rio Bravo Nest 1	38.4	28.4-33.4
15	350138106395501	09N.03E.07.131A	City of Albuquerque	Rio Bravo Nest 2	153.5	143.5-148.5
16	350138106395502	09N.03E.07.131B	City of Albuquerque	Rio Bravo Nest 2	91.1	81.1-86.1
17	350138106395503	09N.03E.07.131C	City of Albuquerque	Rio Bravo Nest 2	48.6	38.6-43.6
18	350138106393201	09N.03E.07.241A	City of Albuquerque	Rio Bravo Nest 3	148	138-143
19	350138106393202	09N.03E.07.241B	City of Albuquerque	Rio Bravo Nest 3	101	91-96
20	350138106393203	09N.03E.07.241C	City of Albuquerque	Rio Bravo Nest 3	49.3	39.3-44.3

Table 1.--Well and piezometer data for the Albuquerque Basin, New Mexico--Continued

Site number (figs. 1 and 2)	Site identifier	Local identifier	Owner	Other identifier	Well	
					depth (feet) below land surface)	Screened interval (feet)
21	350135106390601	09N.03E.08.144A	City of Albuquerque	Rio Bravo Nest 4	149.4	139.4-144.4
22	350135106390602	09N.03E.08.144B	City of Albuquerque	Rio Bravo Nest 4	124.2	114.2-119.2
23	350135106390603	09N.03E.08.144C	City of Albuquerque	Rio Bravo Nest 4	49.3	39.3-44.3
24	350138106401103	09N.03E.07.114B	City of Albuquerque	Rio Bravo Nest 5	515	500-510
25	350138106401101	09N.03E.07.114	City of Albuquerque	Rio Bravo Nest 5	150	135-145
26	350138106401102	09N.03E.07.114A	City of Albuquerque	Rio Bravo Nest 5	22	7-17
27	350854106403701	11N.02E.25.341A	City of Albuquerque	Montaño Nest 1	152	142-147
28	350854106403702	11N.02E.25.341B	City of Albuquerque	Montaño Nest 1	93.4	83.4-88.4
29	350854106403703	11N.02E.25.341C	City of Albuquerque	Montaño Nest 1	48.4	38.4-43.4
30	350836106395601	--	City of Albuquerque	Montaño Nest 2	147.4	137-142
31	350836106395602	--	City of Albuquerque	Montaño Nest 2	99	89-94
32	350836106395603	--	City of Albuquerque	Montaño Nest 2	39.7	29-34
33	350827106391301	--	City of Albuquerque	Montaño Nest 3	149	139-144
34	350827106391302	--	City of Albuquerque	Montaño Nest 3	99	89-94
35	350827106391303	--	City of Albuquerque	Montaño Nest 3	49	39-44
36	350821106383701	--	City of Albuquerque	Montaño Nest 4	131	121-126
37	350821106383702	--	City of Albuquerque	Montaño Nest 4	93	83-88
38	350821106383703	--	City of Albuquerque	Montaño Nest 4	50	40-45
39	350859106401603	11N.03E.30.313B	City of Albuquerque	Montaño Nest 5	150	135-145
40	350859106401602	11N.03E.30.313A	City of Albuquerque	Montaño Nest 5	75	60-70
41	350859106401601	11N.03E.30.313	City of Albuquerque	Montaño Nest 5	25	10-20
42	350836106395401	11N.03E.31.21311A	City of Albuquerque	Montaño Nest 6	983	972-978
43	350836106395402	11N.03E.31.21311B	City of Albuquerque	Montaño Nest 6	836	826-831

Table 1.--Well and piezometer data for the Albuquerque Basin, New Mexico--Continued

Site number (figs. 1 and 2)	Site identifier	Local identifier	Owner	Other identifier	Well depth (feet below land surface)	Screened interval (feet)
44	350836106395403	11N.03E.31.21311C	City of Albuquerque	Montaño Nest 6	568	558-563
45	350836106395404	11N.03E.31.21311D	City of Albuquerque	Montaño Nest 6	182	172-177
46	351059106385903	11N.03E.17.141B	City of Albuquerque	Paseo del Norte Nest 1	600	545-555
47	351059106385901	11N.03E.17.141	City of Albuquerque	Paseo del Norte Nest 1	150	135-145
48	351059106385902	11N.03E.17.141A	City of Albuquerque	Paseo del Norte Nest 1	25	10-20
49	351057106384201	11N.03E.17.233	City of Albuquerque	Paseo del Norte Nest 2	150	135-145
50	351057106384202	11N.03E.17.233A	City of Albuquerque	Paseo del Norte Nest 2	95	80-90
51	351057106384203	11N.03E.17.233B	City of Albuquerque	Paseo del Norte Nest 2	45	30-40
52	351057106384204	11N.03E.17.233D	City of Albuquerque	Paseo del Norte Nest 2	23	13-23
53	351035106364703	11N.03E.15.344C	City of Albuquerque	Paseo del Norte Nest 3	544	539-544
54	351035106364702	11N.03E.15.344B	City of Albuquerque	Paseo del Norte Nest 3	144	139-144
55	351035106364701	11N.03E.15.344A	City of Albuquerque	Paseo del Norte Nest 3	69	64-69

Table 1.--Well and piezometer data for the Albuquerque Basin, New Mexico--Continued

Site number (figs. 1 and 2)	Site identifier	Local identifier	Owner	Other identifier	Well	
					depth (feet below land surface)	Screened interval (feet)
56	350449106493103	10N.01E.22.322C	City of Albuquerque	West Mesa Nest 1A	1,175	--
57	350449106493102	10N.01E.22.322B	City of Albuquerque	West Mesa Nest 1A	1,049	--
58	351046106464704	11N.02E.18.313D	City of Albuquerque	West Mesa Nest 2	1,500	1,525-1,545 1,630-1,695 1,735-1,795
59	351046106464703	11N.02E.18.313C	City of Albuquerque	West Mesa Nest 2	1,330	1,275-1,345 1,390-1,410
60	351046106464702	11N.02E.18.313B	City of Albuquerque	West Mesa Nest 2	1,250	800-830 925-955
61	351051106395304	11N.03E.18.411D	City of Albuquerque	West Mesa Nest 3	980	870-980
62	351051106395303	11N.03E.18.411C	City of Albuquerque	West Mesa Nest 3	760	710-760
63	351051106395302	11N.03E.18.411B	City of Albuquerque	West Mesa Nest 3	660	350-390 490-590
64	350256106390801	10N.03E.32.314	City of Albuquerque	San Jose 9	765	188-764
65	350346106322301	10N.04E.29.413	KAFB 5	KAFB 5	1,004	504-1,004
66	350359106254701	10N.05E.29.114	NM Highway Dept.	Dead Man's Curve	--	--
67	350655106194501	10N.06E.05.332	NM Highway Dept.	Junction	--	--
68	350602106210401	10N.05E.12.434	NM Highway Dept.	Home Oil	54	--
69	350343106280901	10N.04E.25.324	NM Highway Dept.	Granite Hill	--	--
70	350548106383901	10N.03E.17.232	City of Albuquerque	City 1	149	138-148
71	350824106375301	11N.03E.33.143	City of Albuquerque	City 2	150	140-150
72	350837106393801	11N.03E.31.214	City of Albuquerque	City 3	152	142-152
73	350646106403601	10N.02E.12.241	City of Albuquerque	City 4	150	140-150
74	345940106393401	09N.03E.19.243	Guzman, Sal	Chava	125	113-123
75	350204106562301	09N.01W.04.424	Collier	Rio Puerco Trading Post	150	--

Table 1.--Well and piezometer data for the Albuquerque Basin, New Mexico--Concluded

Site number (figs. 1 and 2)	Site identifier	Local identifier	Owner	Other identifier	Well depth (feet below land surface)	Screened interval (feet)
76	350454106570401	10N.01W.21.134	Cañoncito Pueblo	C1	117	--
77	350620106392401	10N.03E.07.434	BIA	--	--	--
78	351843106294501	13N.04E.34.422	Deaver	Tierra Mirage	703	693-703
79	352029106330601	13N.04E.19.421	Santa Ana Pueblo	Santa Ana 1	108	--
80	352032106330601	13N.04E.19.243	Santa Ana Pueblo	Santa Ana 2	200	180-200
81	351852106344901	13N.03E.36.132A	San Miguel	--	206	--
82	351019106404001	11N.02E.24.223	Nelson	--	274	258-273
83	350829106420401	11N.02E.35.142	Ovenwest Corp.	La Luz del Sol	250	230-245
84	351100106341201	11N.03E.13.242	Shoemaker	--	460	380-400
85	351108106333601	11N.04E.18.124	--	Spanish Assembly of God	575	--
86	350339106294001	10N.04E.26.331	City of Albuquerque	Four Hills	--	--
87	351009106344701	11N.03E.24.142	City of Albuquerque	Pino Yard	--	--
88	350259106315801	10N.04E.32.422	City of Albuquerque	Eubank	--	--

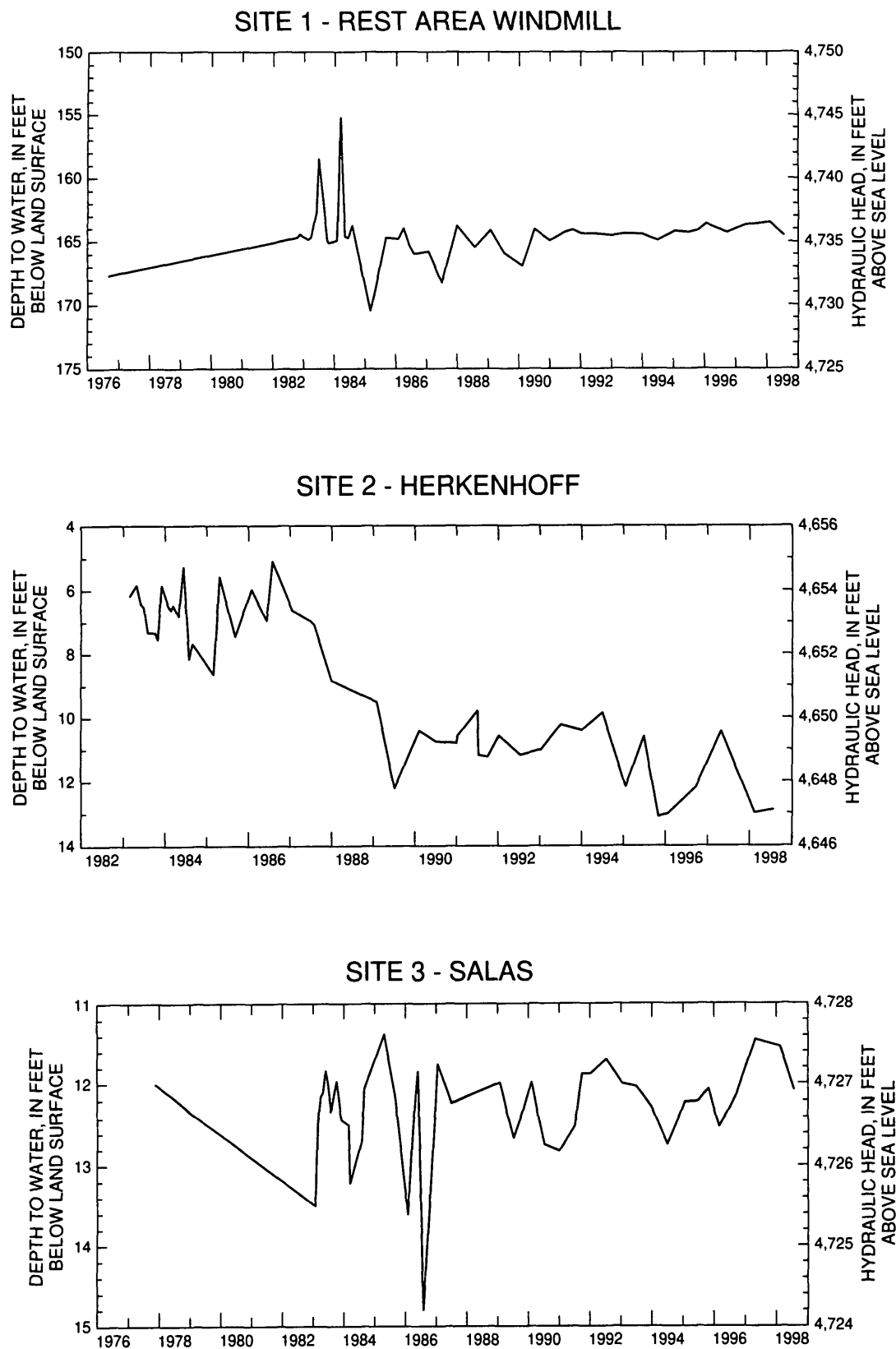


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin.

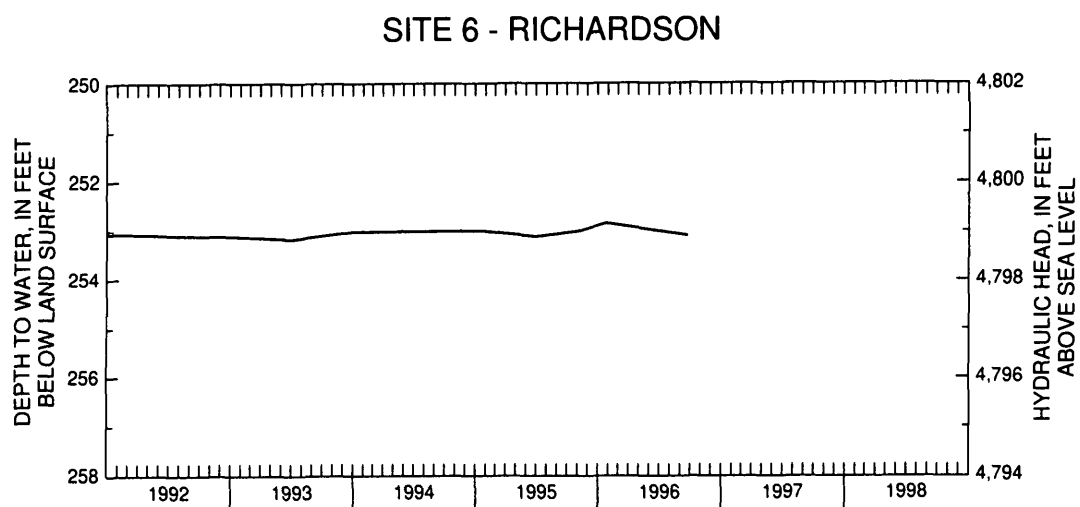
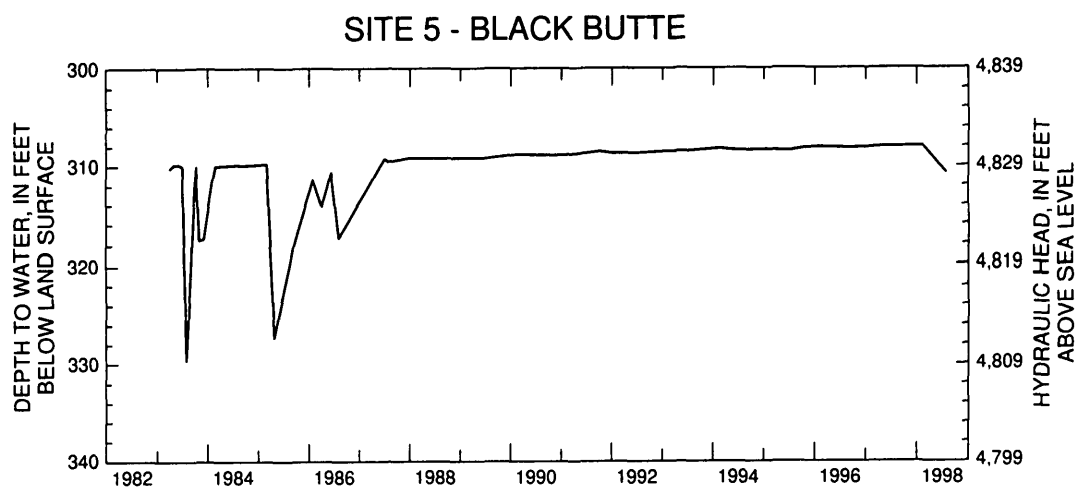
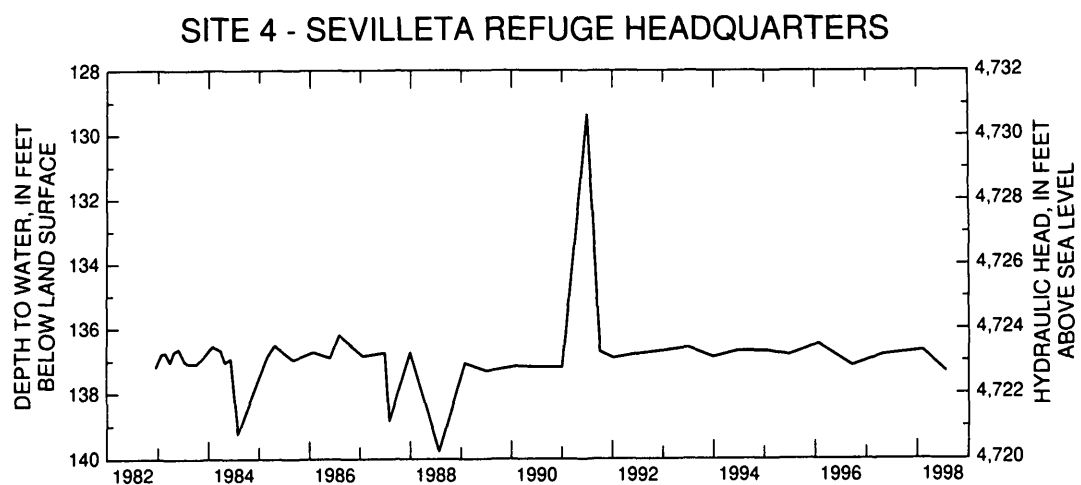


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

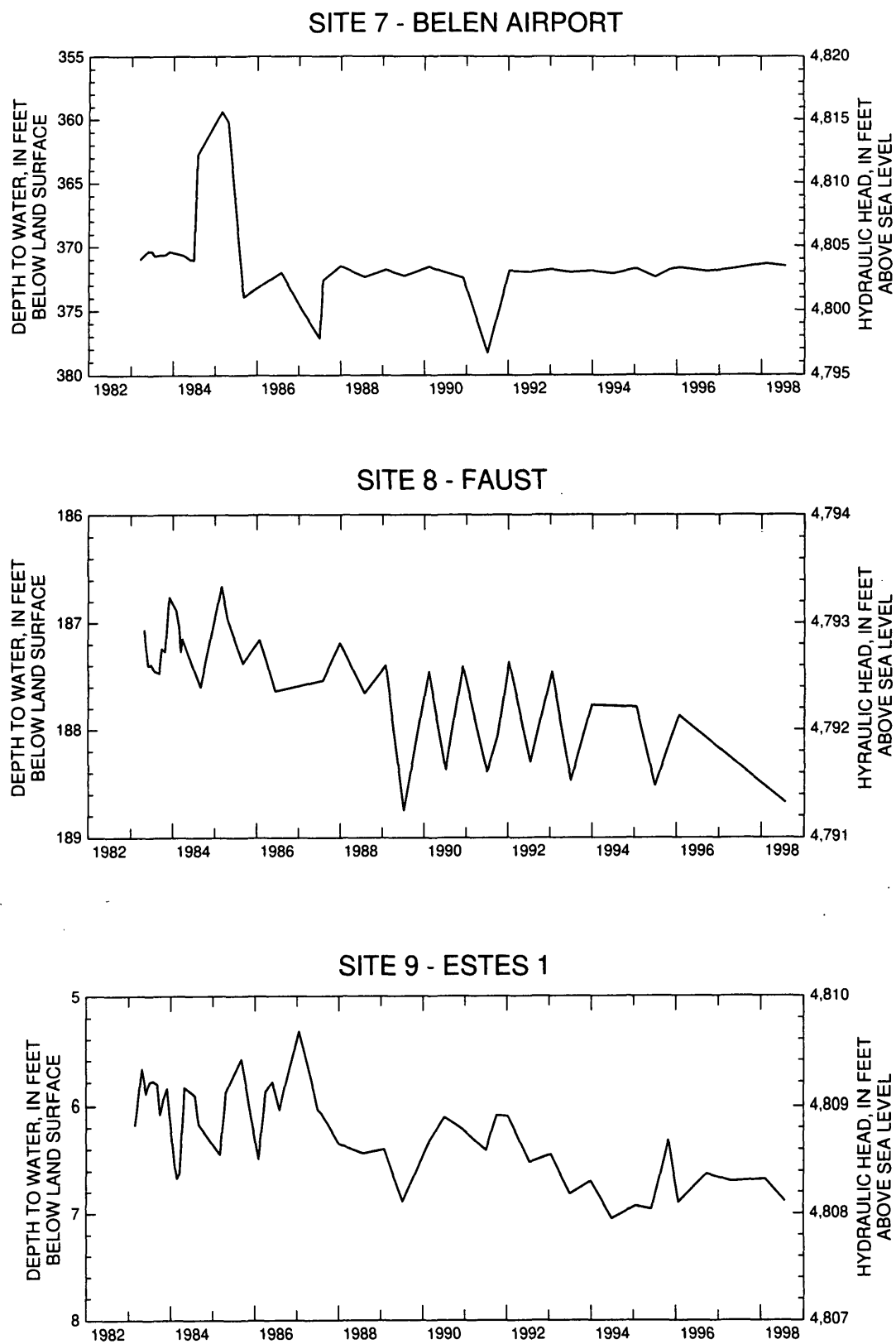


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin-Continued.

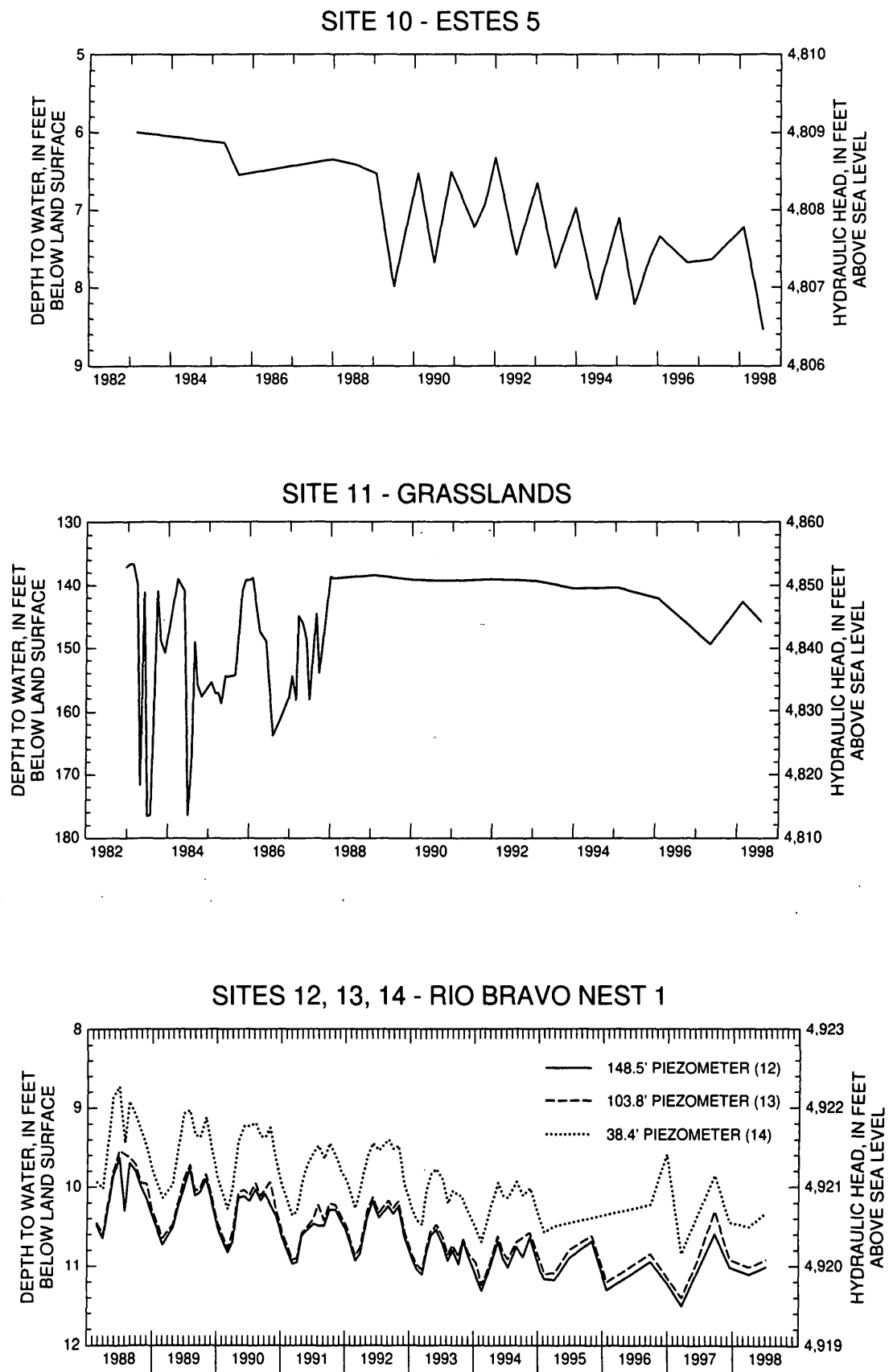
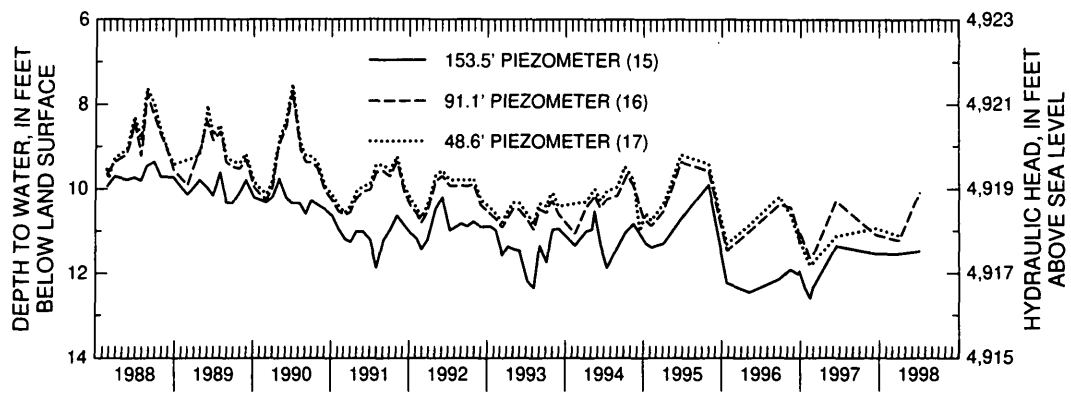
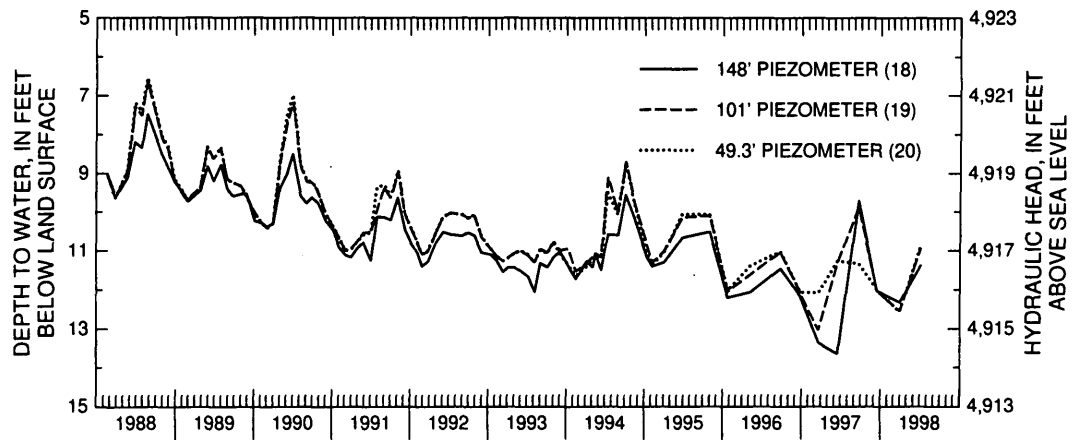


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITES 15, 16, 17 - RIO BRAVO NEST 2



SITES 18, 19, 20 - RIO BRAVO NEST 3



SITES 21, 22, 23 - RIO BRAVO NEST 4

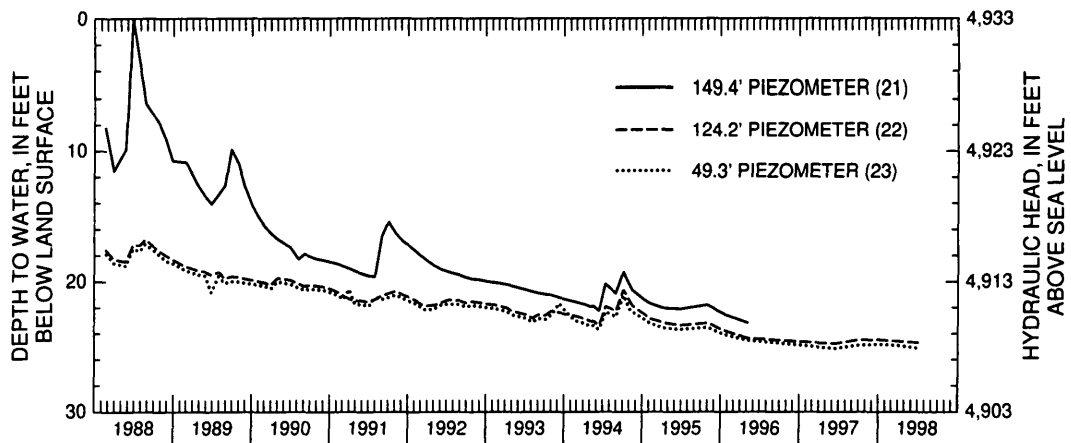
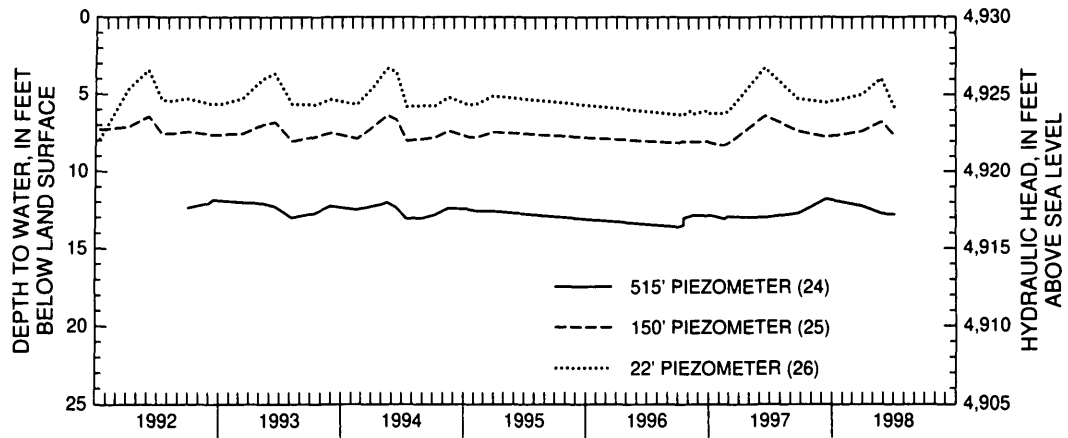
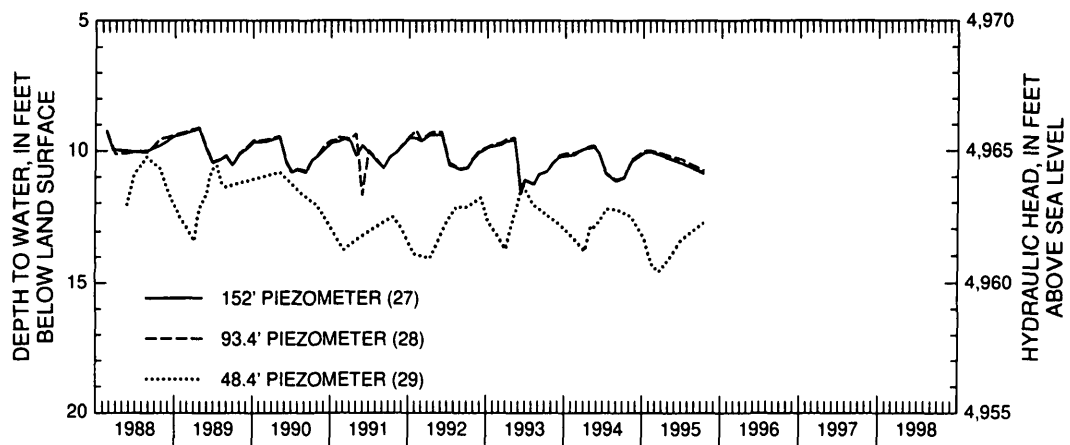


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITES 24, 25, 26 - RIO BRAVO NEST 5



SITES 27, 28, 29 - MONTAÑO NEST 1



SITES 30, 31, 32 - MONTAÑO NEST 2

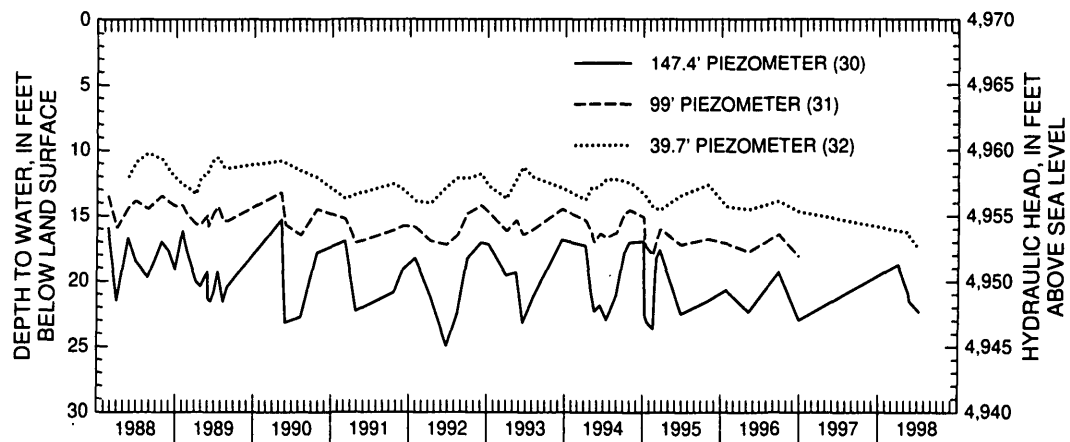
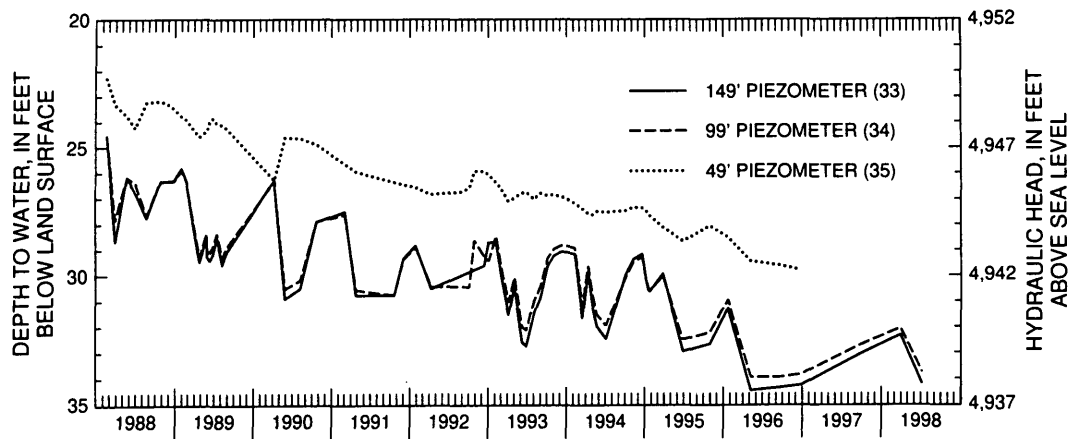
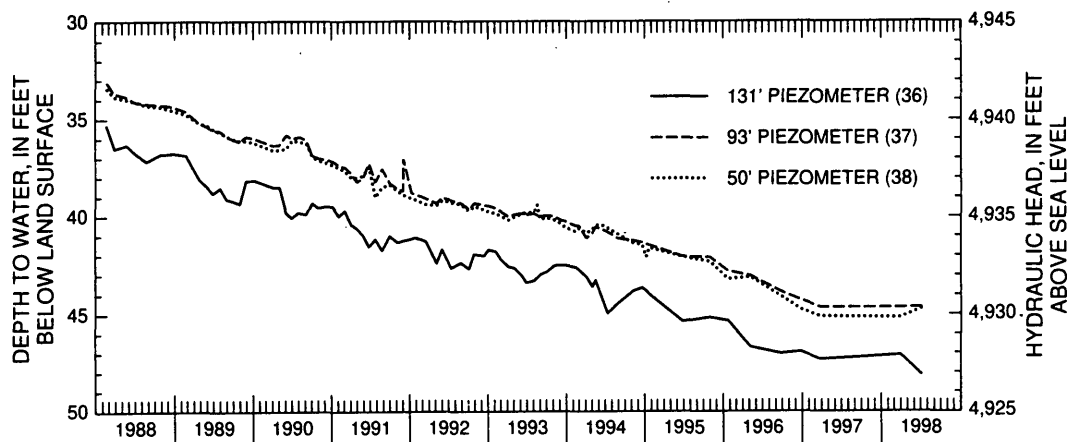


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITES 33, 34, 35 - MONTAÑO NEST 3



SITES 36, 37, 38 - MONTAÑO NEST 4



SITES 39, 40, 41 - MONTAÑO NEST 5

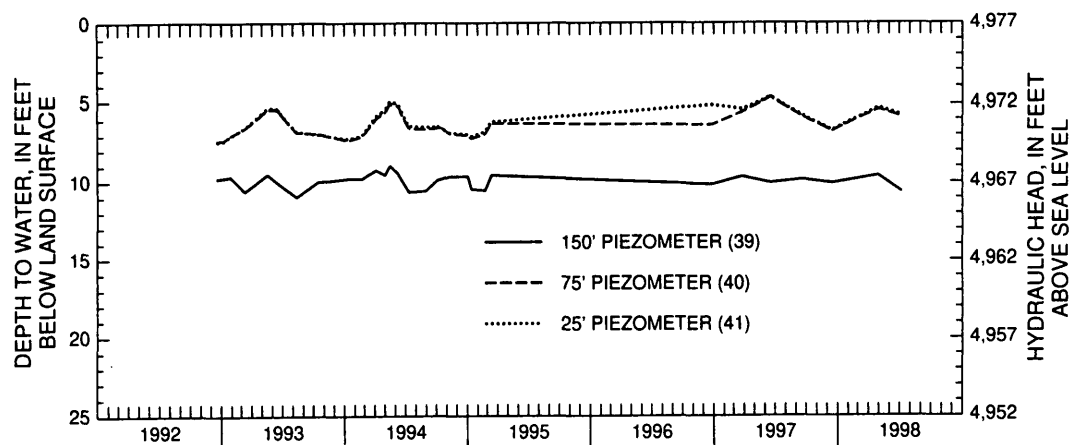
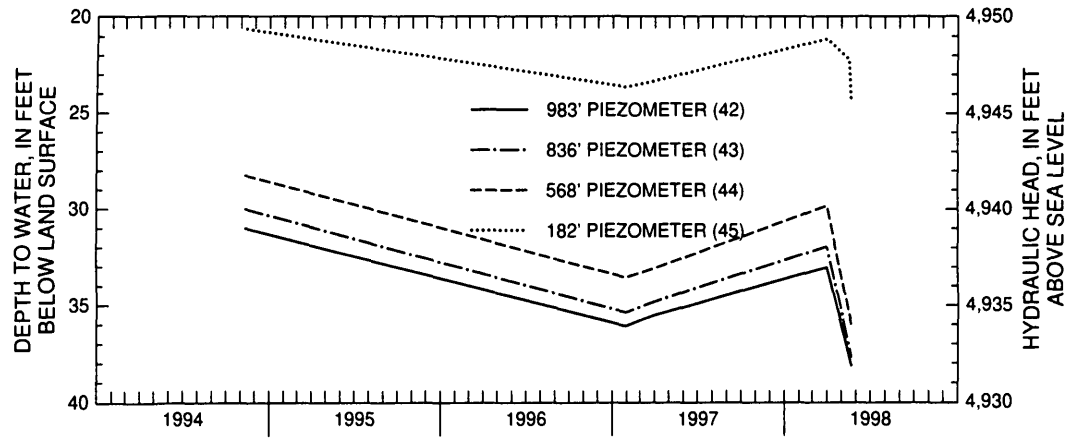
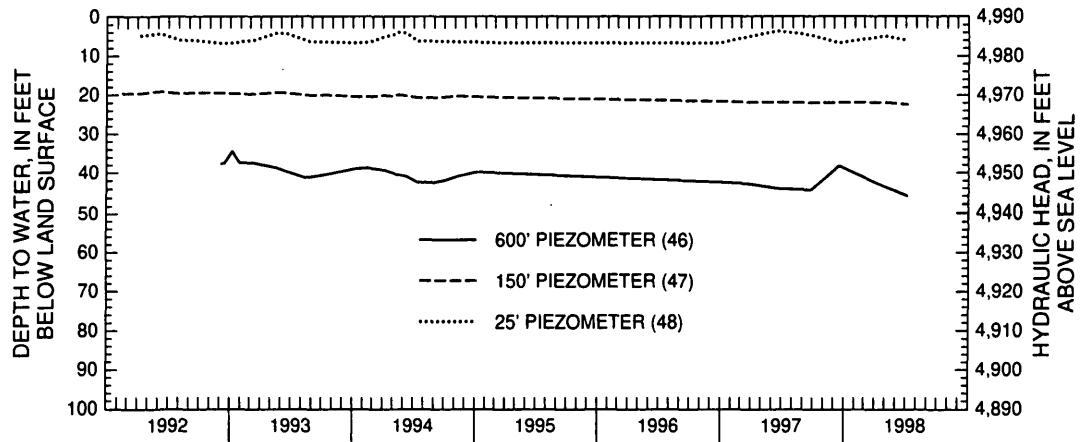


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITES 42, 43, 44, 45 - MONTAÑO NEST 6



SITES 46, 47, 48 - PASEO DEL NORTE NEST 1



SITES 49, 50, 51, 52 - PASEO DEL NORTE NEST 2

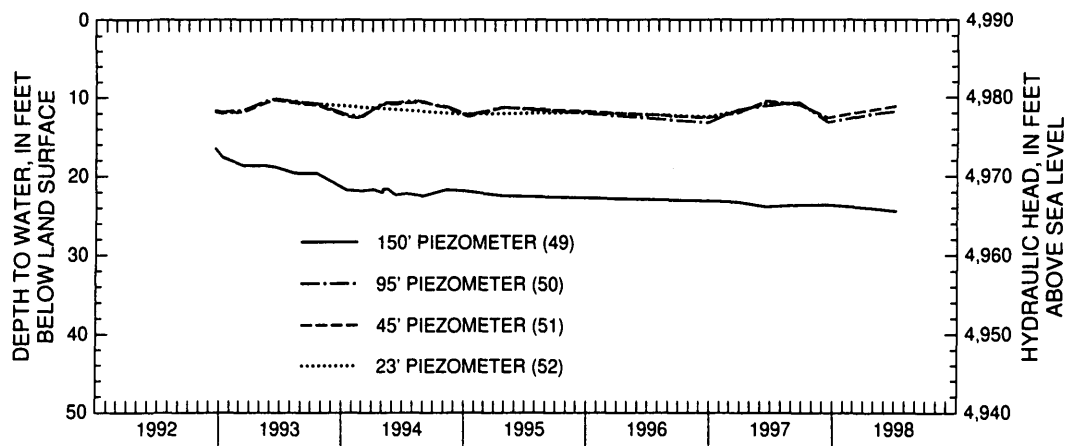
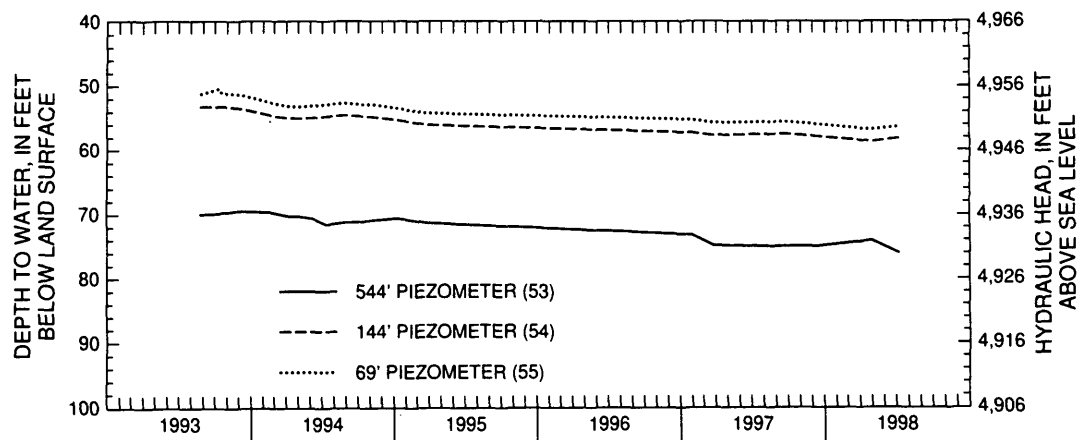
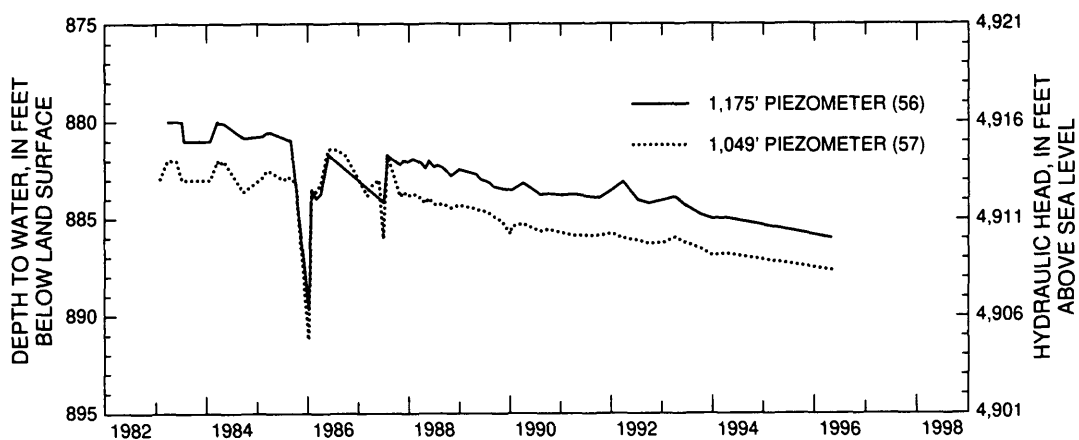


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITES 53, 54, 55 - PASEO DEL NORTE NEST 3



SITES 56, 57 - WEST MESA NEST 1A



SITES 58, 59, 60 - WEST MESA NEST 2

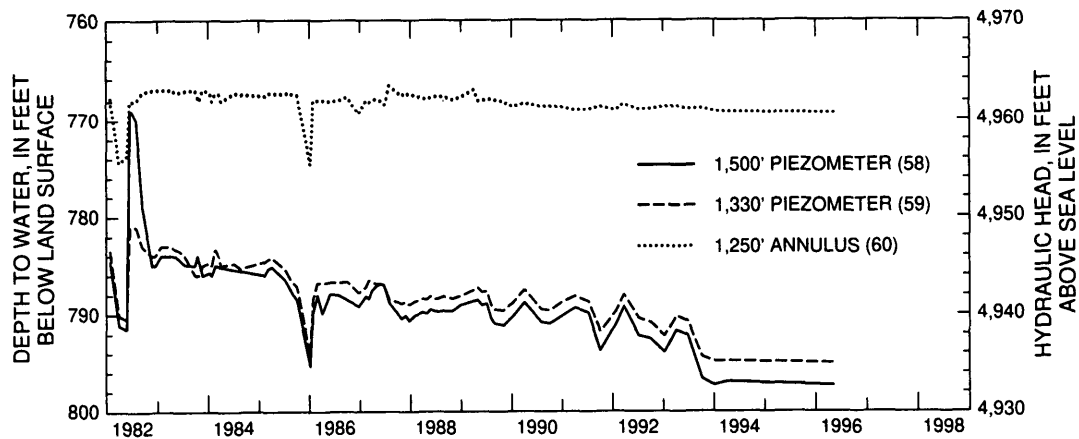
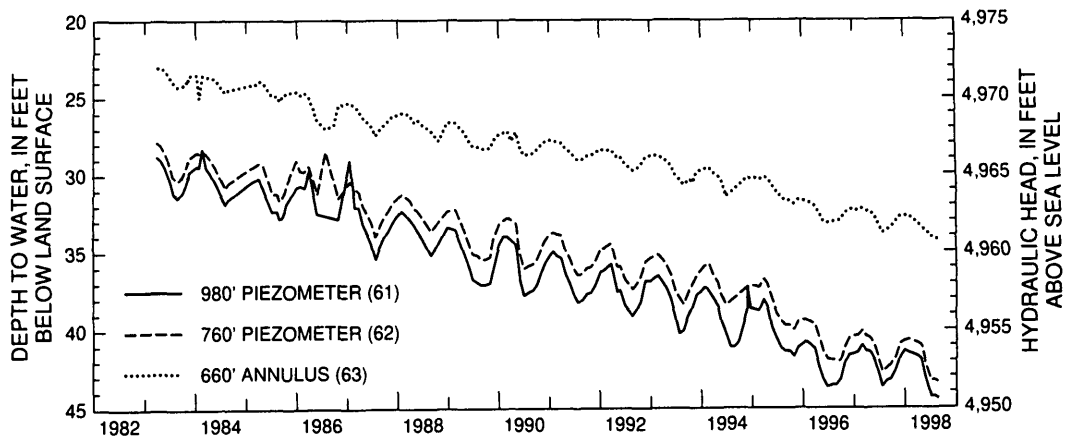
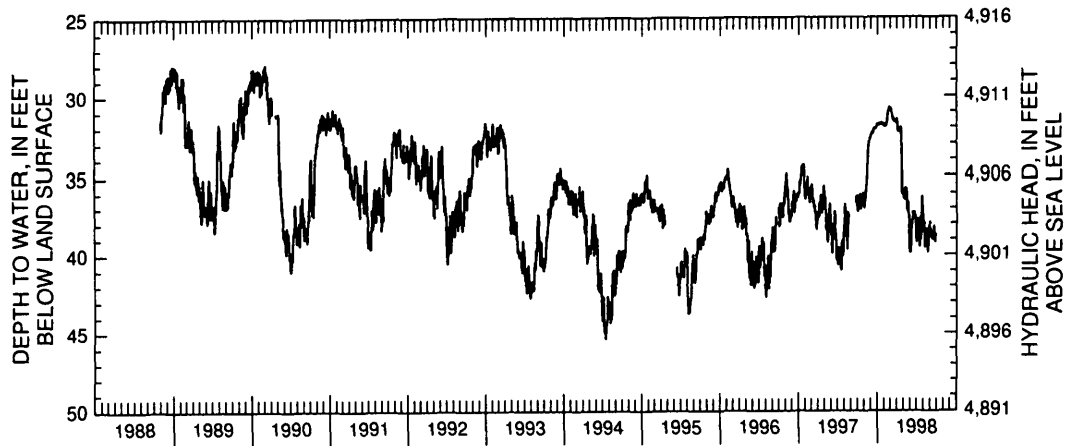


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITES 61, 62, 63 - WEST MESA NEST 3



SITE 64 - SAN JOSE 9



SITE 65 - KAFB 5

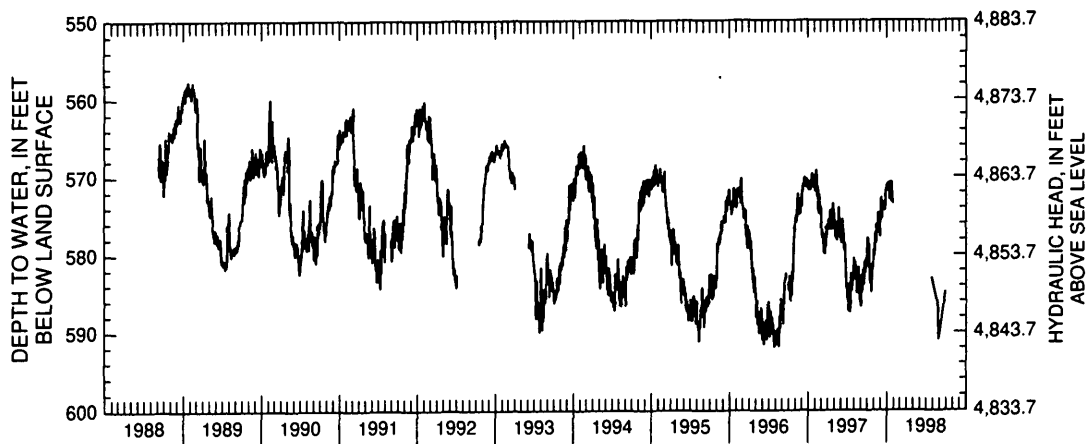
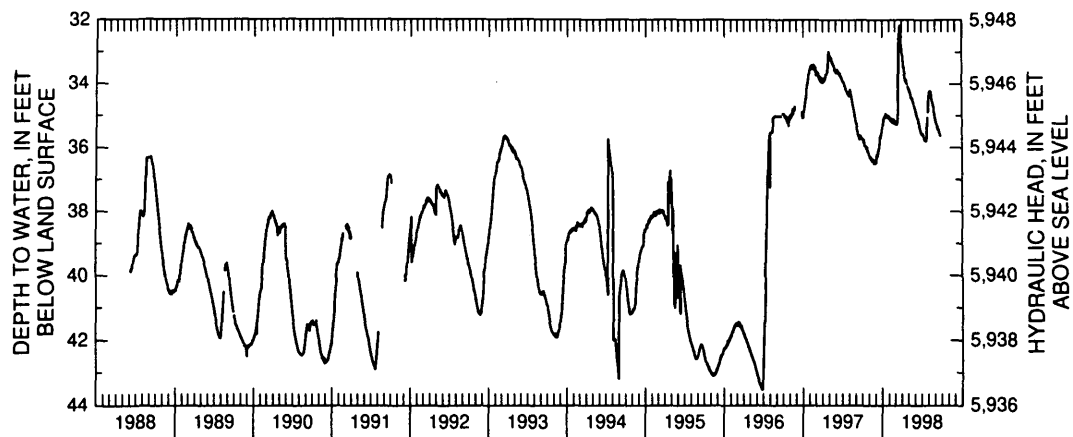
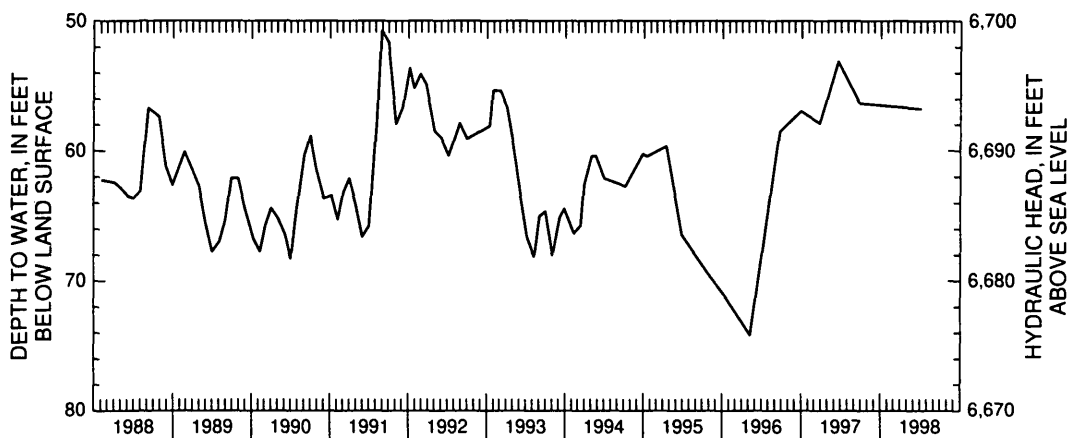


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITE 66 - DEAD MAN'S CURVE



SITE 67 - JUNCTION



SITE 68 - HOME OIL

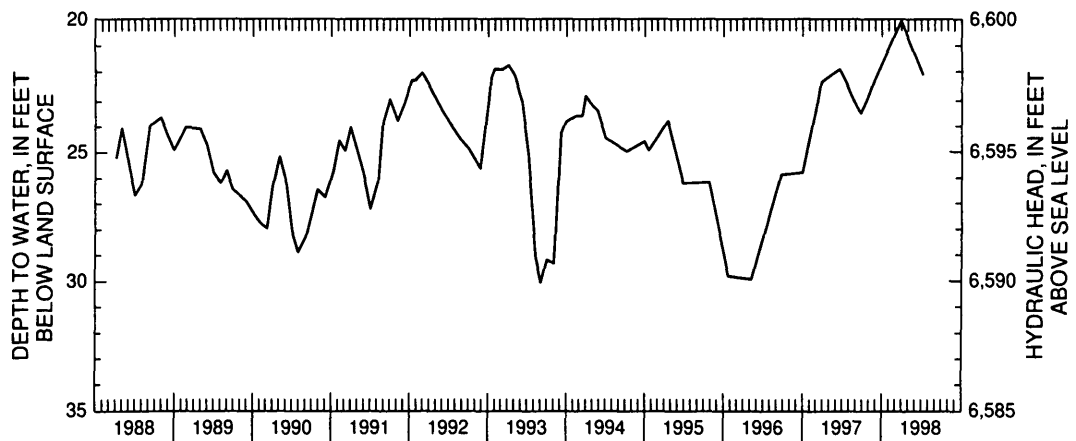
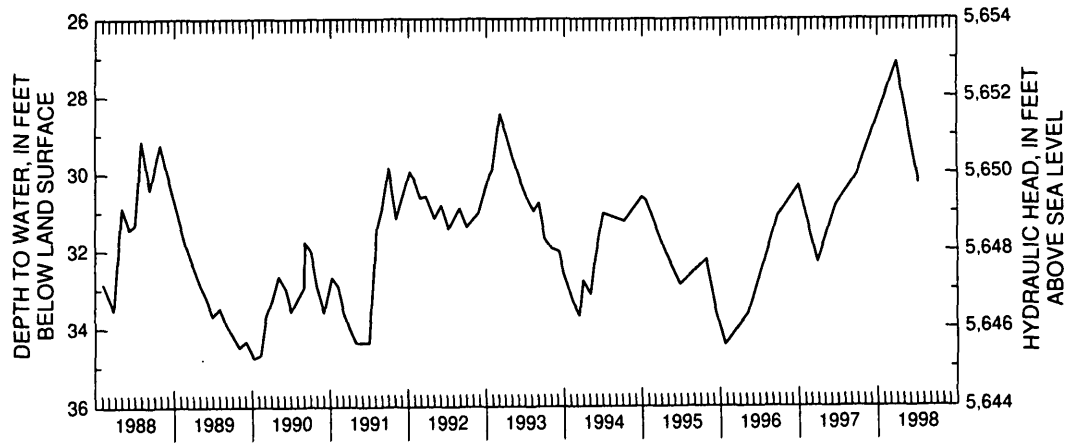
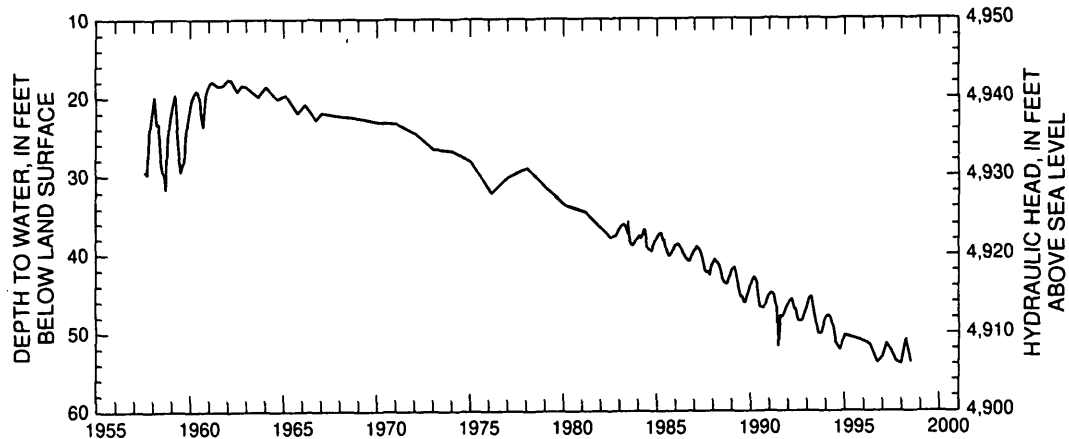


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITE 69 - GRANITE HILL



SITE 70 - CITY 1



SITE 71 - CITY 2

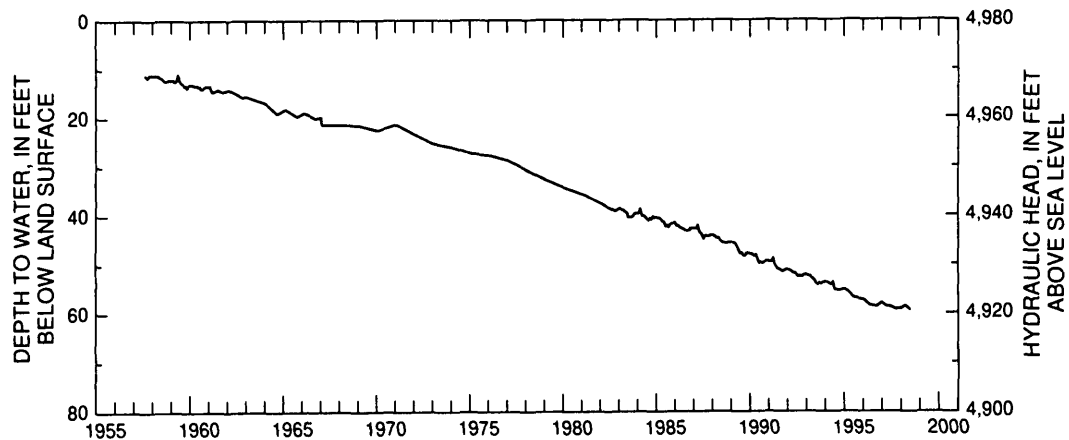
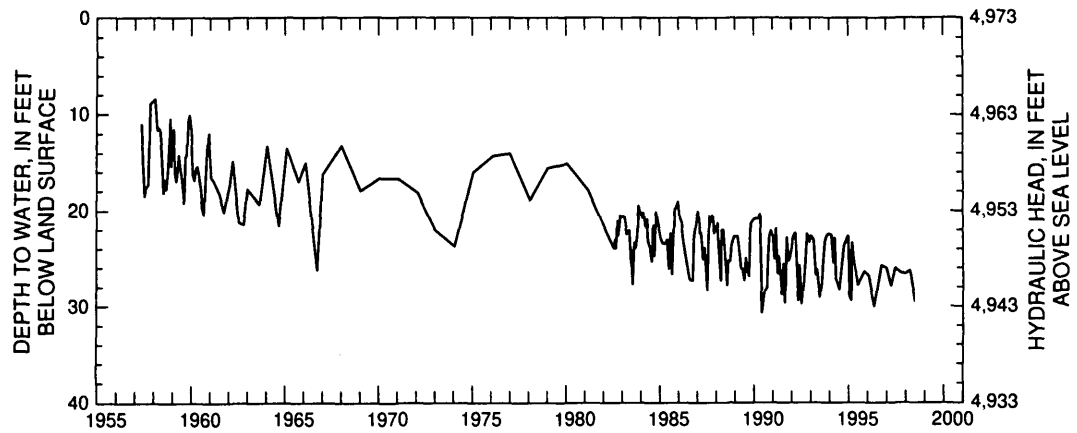
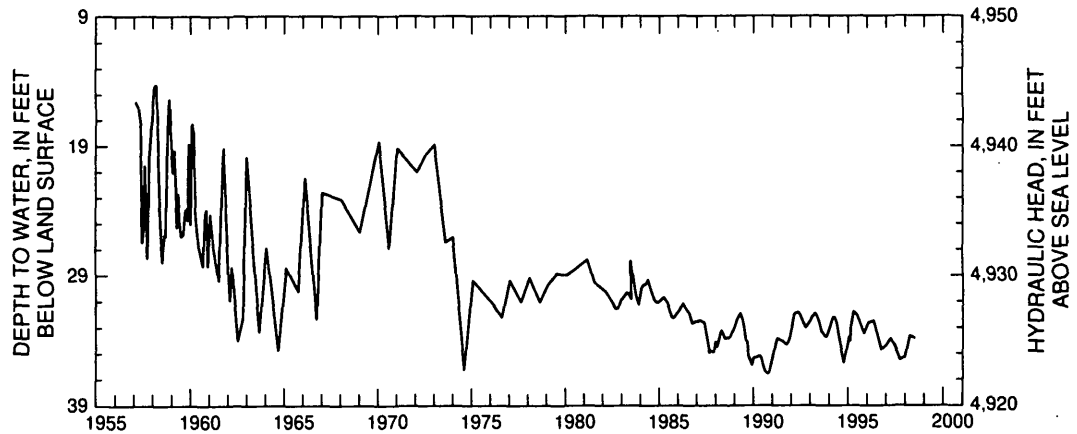


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITE 72 - CITY 3



SITE 73 - CITY 4



SITE 74 - CHAVA

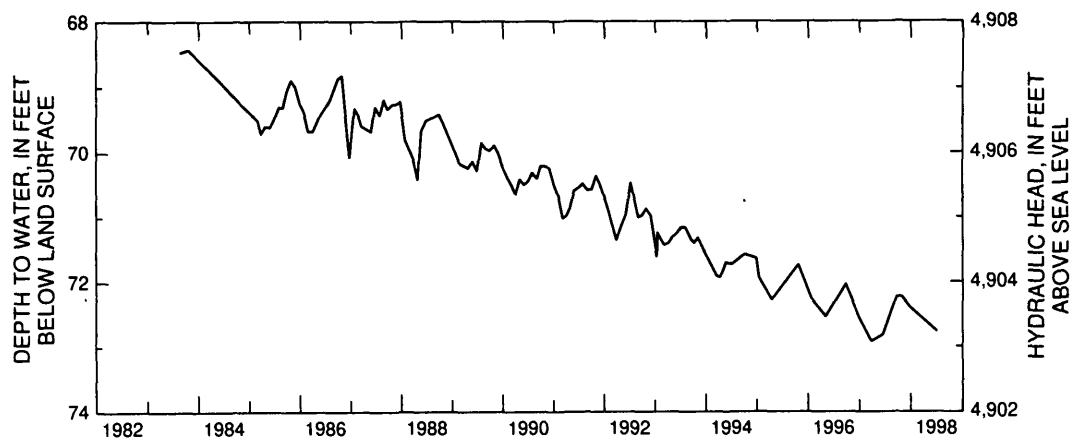
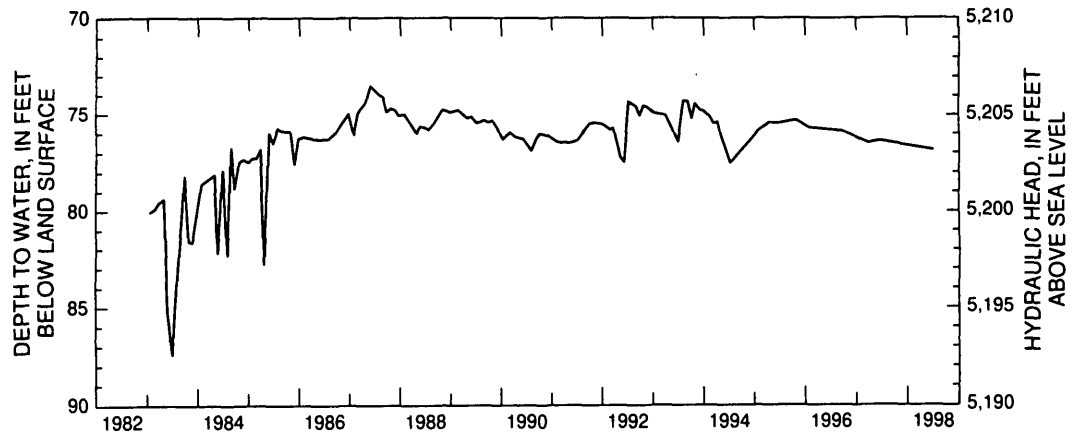
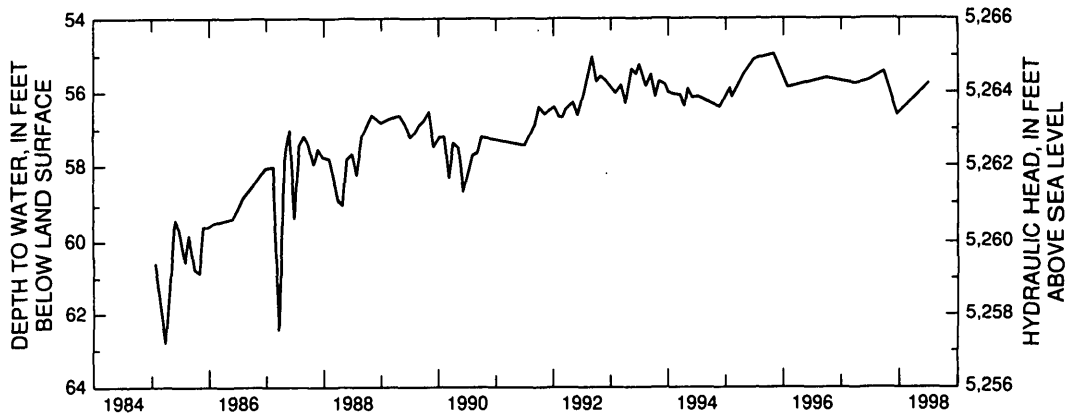


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITE 75 - RIO PUERCO TRADING POST



SITE 76 - CAÑONCITO PUEBLO



SITE 77 - BIA

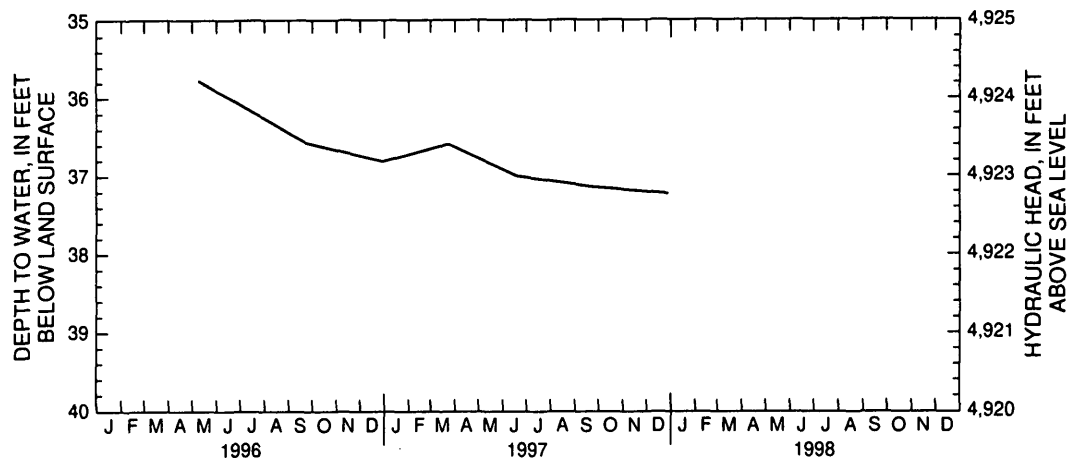
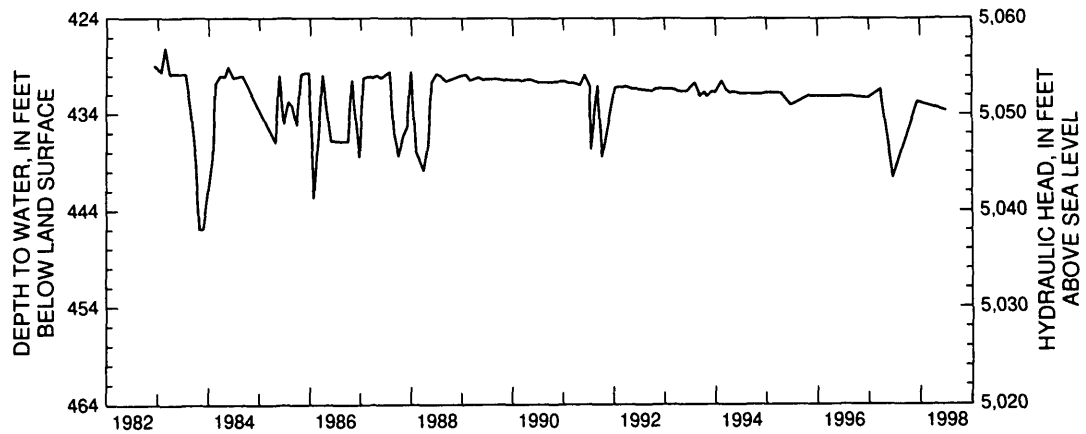
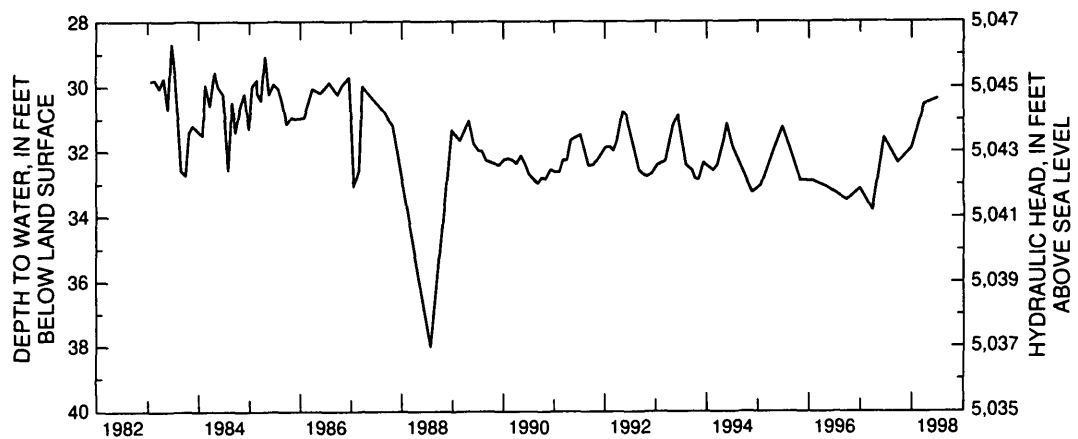


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITE 78 - TIERRA MIRAGE



SITE 79 - SANTA ANA 1



SITE 80 - SANTA ANA 2

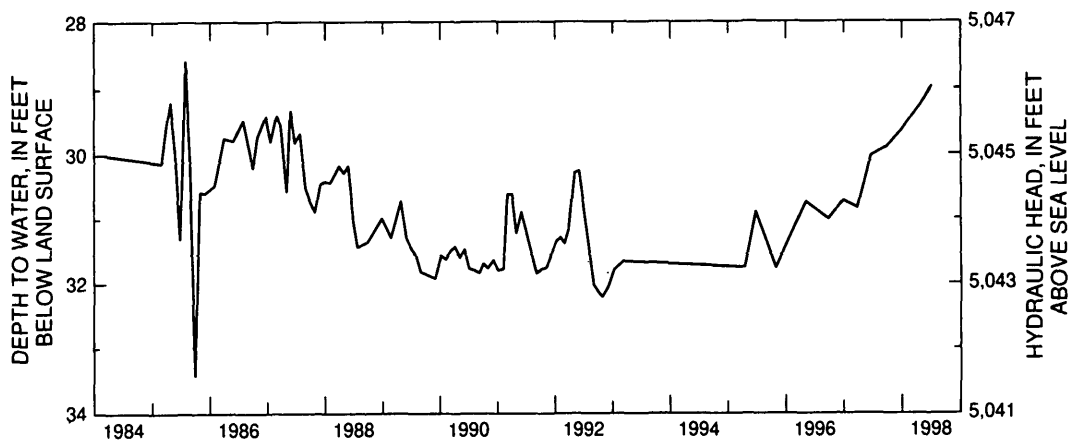
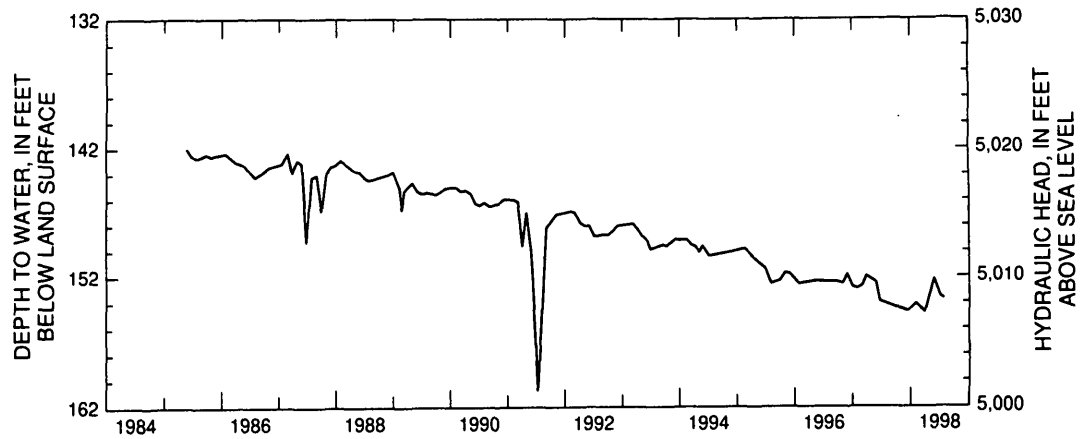
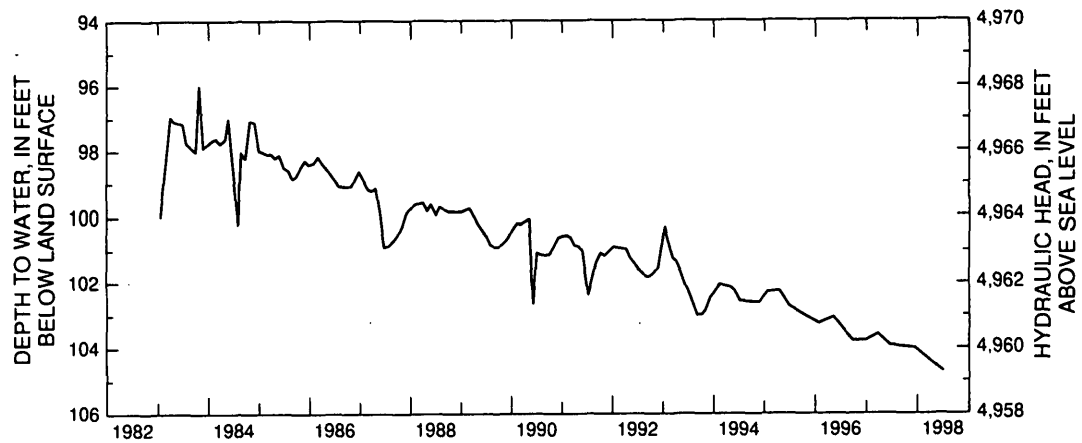


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITE 81 - SAN MIGUEL



SITE 82 - NELSON



SITE 83 - LA LUZ DEL SOL

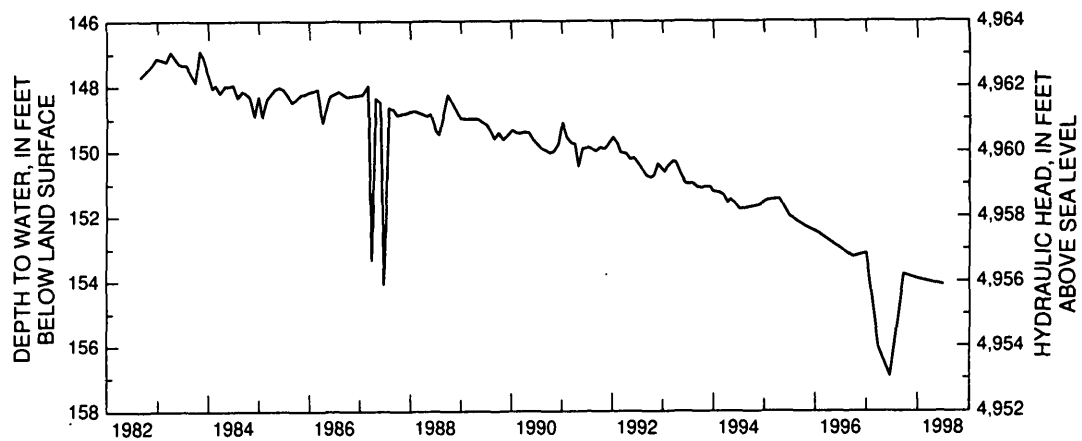
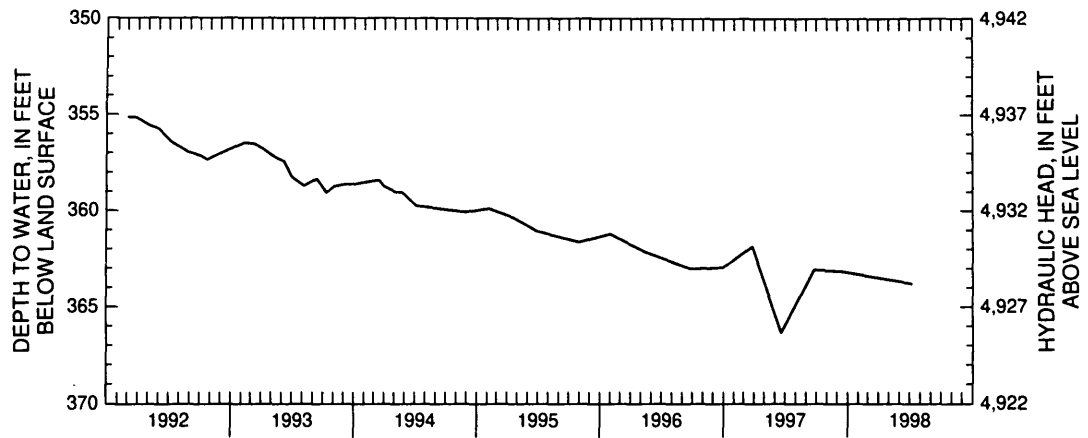
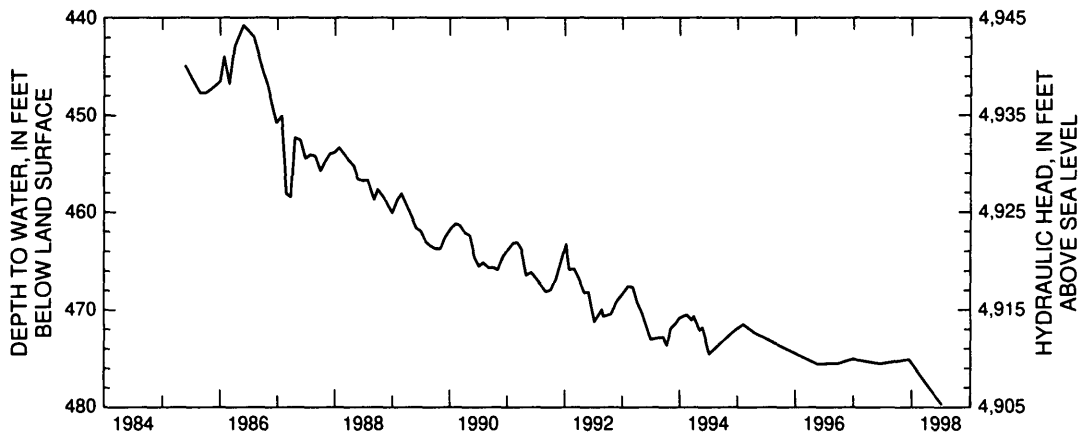


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITE 84 - SHOEMAKER



SITE 85 - SPANISH ASSEMBLY OF GOD



SITE 86 - FOUR HILLS

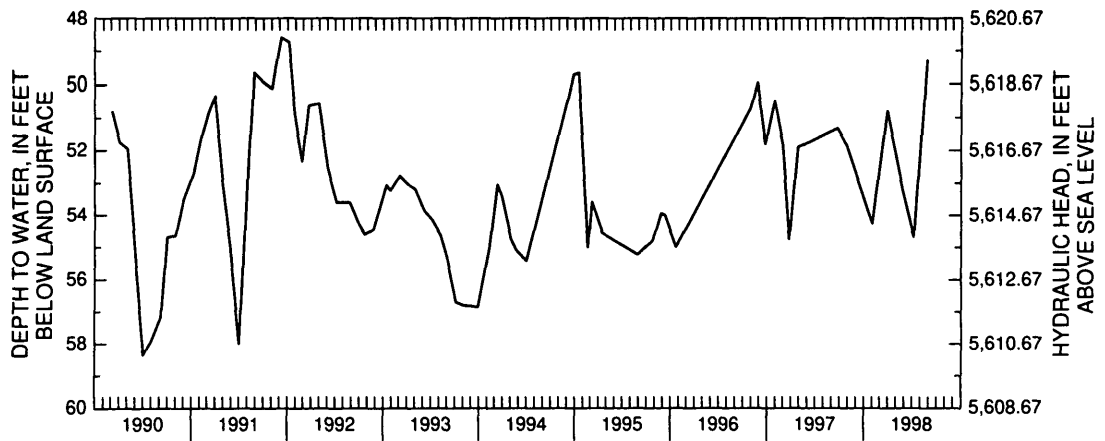
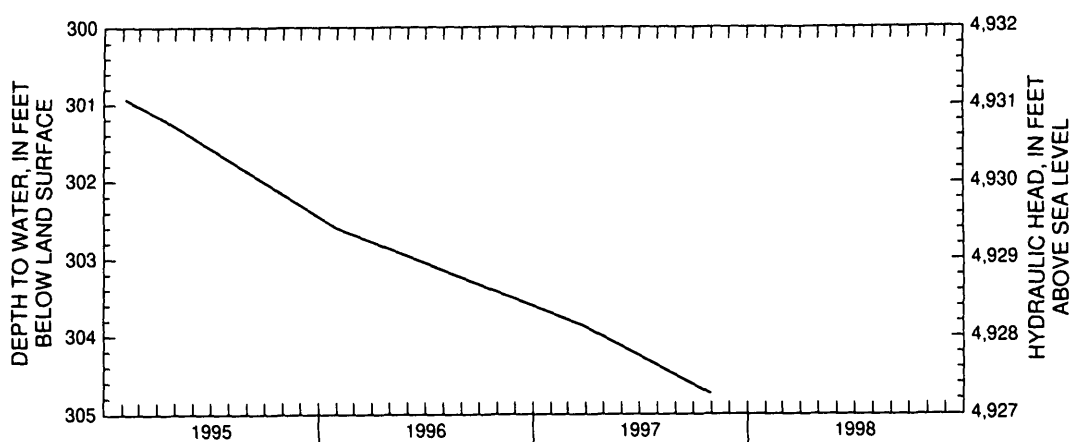


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Continued.

SITE 87 - PINO YARD



SITE 88 - EUBANK

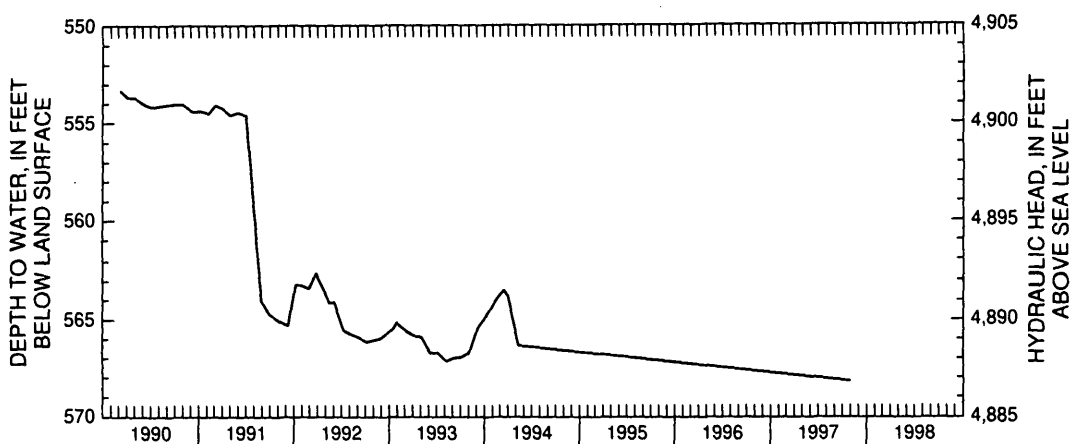


Figure 4.--Water-level data for selected wells and piezometers in the Albuquerque Basin--Concluded.

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