State of California
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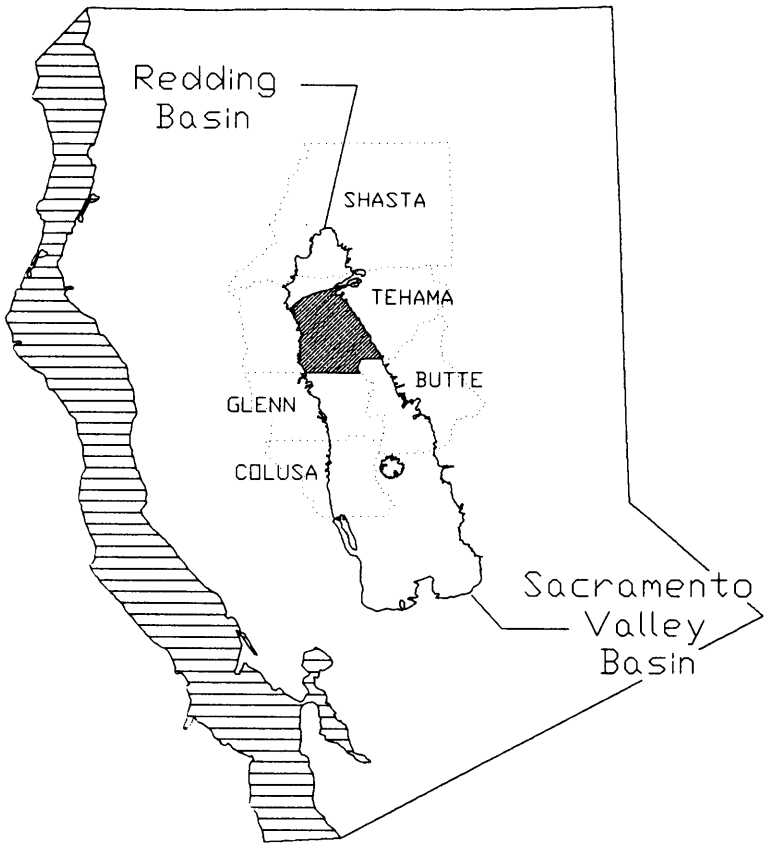
DEPARTMENT OF WATER RESOURCES
Northern District

GROUND WATER LEVELS IN THE SACRAMENTO VALLEY GROUND WATER BASIN

TEHAMA COUNTY



September 1993

Douglas P. Wheeler
Secretary for Resources
The Resources Agency

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Governor
State of California

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Director
Department of Water Resources

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Data used to produce the tables, graphs, and maps are available at $25.00/set in electronic form (IBM-compatible personal computer).

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Department of Water Resources
Northern District
Ground Water Section
2440 Main Street
Red Bluff, CA 96080-2398

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Foreword

Ground water is an important source of water for Tehama County. The Northern District of the Department of Water Resources and the U.S. Bureau of Reclamation have collected data on ground water levels from 138 wells in the county.

This report summarizes ground water level data collected by these agencies since the late 1920s through June 1993. The report presents locations of wells, information related to the monitoring program, and hydrographs depicting ground water levels over time. This information will provide the basis for a better understanding of ground water level trends in Tehama County. Understanding these trends will aid in management of this important resource.

Linton Brown, Chief
Northern District

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Organization

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Introduction

Since the late 1920s, DWR and USBR have measured ground water levels for 138 wells in Tehama County. Currently, 74 wells are monitored semiannually (DWR measures 66 and USBR measures 8). In addition, DWR measures 8 wells on a monthly basis.

This report is a compilation of information related to the monitoring program in Tehama County and includes ground water hydrographs for the monitored wells.

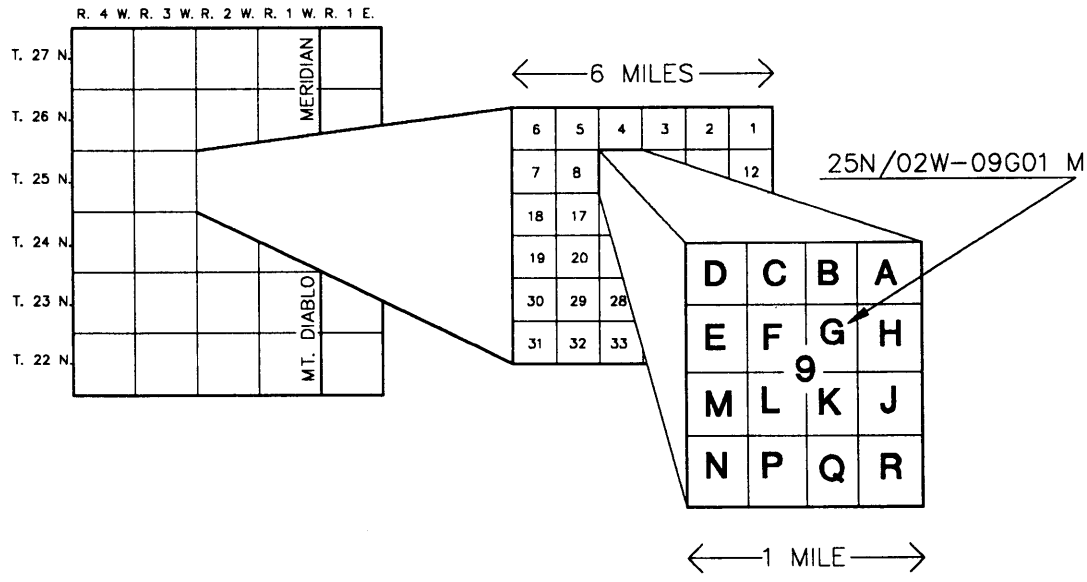
State Well Numbering System

Each well in the monitoring program is assigned an official State Well Number. DWR has sole responsibility for assigning State Well Numbers to water wells in California, and each number uniquely identifies a well based on its location.

Each State Well Number includes township, range and section number, and each section is further subdivided into sixteen 40-acre tracts, which are assigned a letter designation as shown below. Within each 40-acre tract, wells are numbered sequentially in the order they are inventoried. The final letter of the identification signifies the base line and meridian to which the well location refers. In Tehama County, all wells are referenced to the Mount Diablo base line and meridian. The example below is for State Well Number 25N/02W-09G01 M.

Figure 1

State Well Numbering System



The lettering system does not contain the letters "I" and "O".

Measurement Frequency and Period of Record

Table I shows the period of record and frequency of measurement for Tehama County wells monitored historically by the Ground Water Section of the Northern District and the USBR. The wells currently measured are labeled as ACTIVE.

Most wells are measured semiannually: once in spring, usually during March, and once in fall, during October. Dates of the measurements are timed to obtain the approximate highest static water level in the spring and approximate lowest static water level in the fall. Currently, eight wells are measured monthly to provide a record of how levels change throughout the year. Over time, the measurement frequency for many wells in the monitoring program has alternated between semiannually and monthly. The "Measurement Frequency" column in Table 1 reflects only the most recent measurement frequency for the wells.

Table 1

Measurement Frequency and Period of Record for Ground Water Monitoring Wells in Tehama County

State Well Number	Agency	Measurement Frequency	No.of Meas.	Record Begins	Record Ends
23N/02W-16B01M	DWR	SEMI-ANNUAL	89	04/22/49	ACTIVE
23N/02W-22N02M	DWR	SEMI-ANNUAL	105	12/03/29	ACTIVE
23N/02W-34A01M	DWR	SEMI-ANNUAL	82	07/22/49	ACTIVE
23N/03W-05G01M	DWR	SEMI-ANNUAL	196	04/29/46	ACTIVE
23N/03W-12G01M	DWR	SEMI-ANNUAL	18	05/13/65	03/10/73
23N/03W-12L01M	DWR	MONTHLY	220	01/05/73	ACTIVE
23N/03W-12P02M	DWR	SEMI-ANNUAL	44	02/09/51	10/16/72
23N/03W-13C02M	DWR	SEMI-ANNUAL	173	08/13/48	10/26/70
23N/03W-22Q01M	DWR	SEMI-ANNUAL	74	01/16/55	ACTIVE
23N/03W-24A02M	DWR	SEMI-ANNUAL	96	01/07/41	ACTIVE
23N/03W-36M02M	DWR	SEMI-ANNUAL	41	06/14/73	ACTIVE
24N/01W-05J01M	DWR	SEMI-ANNUAL	45	03/12/73	ACTIVE
24N/01W-05Q02M	DWR	SEMI-ANNUAL	100	02/20/73	ACTIVE
24N/01W-06A01M	DWR	SEMI-ANNUAL	38	10/13/47	03/12/73
24N/01W-08R01M	DWR	SEMI-ANNUAL	42	01/19/48	03/23/70
24N/01W-18N01M	DWR	SEMI-ANNUAL	53	05/03/65	ACTIVE
24N/01W-21M01M	DWR	SEMI-ANNUAL	31	11/16/29	03/19/58
24N/01W-26F01M	DWR	SEMI-ANNUAL	33	01/16/48	03/08/65
24N/02W-02N01M	DWR	SEMI-ANNUAL	177	06/19/22	03/01/81
24N/02W-12J01M	DWR	SEMI-ANNUAL	42	02/20/73	ACTIVE
24N/02W-17J01M	DWR	SEMI-ANNUAL	45	06/02/47	10/10/67
24N/02W-20C01M	DWR	SEMI-ANNUAL	44	04/16/53	ACTIVE
24N/02W-23G01M	DWR	SEMI-ANNUAL	76	03/17/53	ACTIVE
24N/02W-28G01M	DWR	SEMI-ANNUAL	65	05/14/47	03/10/73
24N/02W-29E01M	DWR	SEMI-ANNUAL	104	03/13/47	ACTIVE
24N/02W-33Q01M	DWR	SEMI-ANNUAL	16	12/02/29	10/27/52
24N/02W-36B01M	DWR	SEMI-ANNUAL	107	02/07/47	ACTIVE
24N/03W-01B01M	DWR	SEMI-ANNUAL	42	02/09/73	ACTIVE
24N/03W-02R01M	DWR	SEMI-ANNUAL	121	03/20/47	ACTIVE
24N/03W-03J01M	DWR	SEMI-ANNUAL	161	05/25/61	01/01/75
24N/03W-03N02M	DWR	SEMI-ANNUAL	74	05/18/48	10/10/67
24N/03W-14K01M	DWR	SEMI-ANNUAL	114	12/08/33	ACTIVE
24N/03W-14Q02M	DWR	SEMI-ANNUAL	5	12/02/29	12/07/33
24N/03W-16A01M	DWR	SEMI-ANNUAL	93	10/28/47	ACTIVE
24N/03W-16C01M	DWR	SEMI-ANNUAL	11	12/02/29	10/29/47
24N/03W-16F01M	DWR	SEMI-ANNUAL	43	12/02/29	12/06/57
24N/03W-17M01M	DWR	SEMI-ANNUAL	100	02/20/73	ACTIVE
24N/03W-20N01M	DWR	SEMI-ANNUAL	28	02/20/73	ACTIVE
24N/03W-26K01M	DWR	SEMI-ANNUAL	110	11/01/47	ACTIVE
24N/03W-35P02M	DWR	MONTHLY	33	12/08/33	01/29/58
24N/03W-35P03M	DWR	SEMI-ANNUAL	46	12/02/29	03/15/57
24N/03W-35P04M	DWR	SEMI-ANNUAL	79	04/23/50	ACTIVE
24N/04W-02N01M	DWR	SEMI-ANNUAL	92	05/09/46	ACTIVE
24N/04W-07R01M	USBR	SEMI-ANNUAL	17	10/06/65	10/10/73
24N/04W-08J02M	USBR	SEMI-ANNUAL	17	10/06/65	10/10/73
24N/04W-09A02M	USBR	SEMI-ANNUAL	17	10/06/65	10/10/73
24N/04W-09J01M	USBR	SEMI-ANNUAL	9	10/06/65	10/07/69
24N/04W-09J02M	USBR	SEMI-ANNUAL	17	10/06/65	10/10/73
24N/04W-10B01M	USBR	SEMI-ANNUAL	25	03/08/48	10/10/73
24N/04W-14N02M	DWR	SEMI-ANNUAL	85	08/27/52	ACTIVE
24N/04W-15R01M	DWR	SEMI-ANNUAL	54	01/22/48	10/11/66
24N/04W-21G01M	DWR	SEMI-ANNUAL	55	01/16/48	03/10/73
24N/04W-24H01M	DWR	SEMI-ANNUAL	49	04/21/50	03/08/67
25N/02W-04M01M	DWR	SEMI-ANNUAL	18	02/01/73	03/19/80
25N/02W-09G01M	DWR	SEMI-ANNUAL	100	02/01/73	ACTIVE
25N/02W-21B01M	DWR	SEMI-ANNUAL	41	02/01/73	ACTIVE
25N/02W-30G01M	DWR	SEMI-ANNUAL	83	07/14/49	ACTIVE
25N/02W-34K01M	DWR	SEMI-ANNUAL	59	08/23/62	ACTIVE
25N/03W-03L01M	DWR	SEMI-ANNUAL	34	12/08/52	03/23/70
25N/03W-06B01M	DWR	SEMI-ANNUAL	68	05/09/46	03/09/73
25N/03W-08E01M	DWR	SEMI-ANNUAL	58	02/09/77	ACTIVE
25N/03W-09K01M	DWR	SEMI-ANNUAL	91	10/15/21	03/09/73
25N/03W-10L01M	DWR	MONTHLY	392	05/19/53	ACTIVE
25N/03W-10L03M	DWR	MONTHLY	397	05/19/53	ACTIVE
25N/03W-10L04M	DWR	MONTHLY	367	06/17/53	ACTIVE
25N/03W-10L05M	DWR	MONTHLY	396	05/19/53	ACTIVE
25N/03W-10M01M	DWR	SEMI-ANNUAL	46	03/26/52	03/09/73
25N/03W-11F01M	DWR	SEMI-ANNUAL	106	02/01/23	ACTIVE
25N/03W-13A01M	DWR	SEMI-ANNUAL	63	07/29/47	03/09/73
25N/03W-13C01M	DWR	SEMI-ANNUAL	104	03/20/47	10/19/66
25N/03W-13F01M	DWR	SEMI-ANNUAL	50	02/12/52	03/09/73
25N/03W-13J01M	DWR	SEMI-ANNUAL	88	02/12/52	ACTIVE
25N/03W-14A01M	DWR	SEMI-ANNUAL	51	02/12/52	03/09/73
25N/03W-15A01M	DWR	SEMI-ANNUAL	109	02/08/52	ACTIVE
25N/03W-15E01M	DWR	SEMI-ANNUAL	62	07/14/28	11/23/65
25N/03W-15P01M	DWR	SEMI-ANNUAL	47	02/11/52	03/09/73
25N/03W-19N01M	DWR	SEMI-ANNUAL	56	05/12/65	ACTIVE
25N/03W-21Q01M	DWR	SEMI-ANNUAL	42	06/02/28	04/09/53
25N/03W-22C01M	DWR	SEMI-ANNUAL	50	02/11/52	03/09/73
25N/03W-22L01M	DWR	SEMI-ANNUAL	117	05/27/27	ACTIVE
25N/03W-31R01M	DWR	SEMI-ANNUAL	91	03/18/47	ACTIVE
25N/04W-23N01M	DWR	SEMI-ANNUAL	42	01/03/73	ACTIVE
26N/02W-14G01M	DWR	SEMI-ANNUAL	122	02/03/48	ACTIVE
26N/02W-16C01M	DWR	MONTHLY	159	01/01/80	ACTIVE
26N/02W-16Q01M	DWR	SEMI-ANNUAL	16	07/12/89	11/20/89
26N/02W-17E01M	DWR	SEMI-ANNUAL	43	02/01/73	ACTIVE
26N/02W-21Q01M	DWR	SEMI-ANNUAL	115	05/03/65	ACTIVE
26N/02W-22G01M	DWR	SEMI-ANNUAL	67	10/26/89	08/14/90
26N/02W-29N01M	DWR	SEMI-ANNUAL	57	05/12/65	ACTIVE
26N/02W-29R01M	DWR	SEMI-ANNUAL	153	05/03/65	ACTIVE
26N/02W-29R02M	DWR	SEMI-ANNUAL	153	05/03/65	ACTIVE
26N/03W-04K01M	DWR	SEMI-ANNUAL	104	11/29/29	ACTIVE
26N/03W-05M01M	DWR	SEMI-ANNUAL	49	08/05/49	03/08/73
26N/03W-08N01M	DWR	SEMI-ANNUAL	86	08/05/49	ACTIVE
26N/03W-11F01M	DWR	SEMI-ANNUAL	96	07/09/47	ACTIVE
26N/03W-14A01M	DWR	SEMI-ANNUAL	43	08/03/49	03/13/73
26N/03W-19A01M	DWR	SEMI-ANNUAL	44	04/13/51	10/28/70
26N/03W-21P01M	DWR	SEMI-ANNUAL	288	08/12/52	ACTIVE
26N/03W-24F01M	DWR	SEMI-ANNUAL	101	06/18/47	ACTIVE
26N/03W-31N01M	DWR	SEMI-ANNUAL	62	05/09/46	03/05/71

Table 1 (continued)

Measurement Frequency and Period of Record for Ground Water Monitoring Wells in Tehama County

State Well Number	Agency	Measurement Frequency	No.of Meas.	Record Begins	Record Ends
26N/03W-32P01M	DWR	SEMI-ANNUAL	16	12/02/29	08/14/52
26N/03W-34L02M	DWR	SEMI-ANNUAL	39	10/26/55	03/08/73
26N/03W-34P01M	DWR	SEMI-ANNUAL	113	08/10/21	ACTIVE
26N/04W-01L01M	DWR	SEMI-ANNUAL	40	07/18/78	ACTIVE
26N/04W-25J01M	DWR	SEMI-ANNUAL	43	01/03/73	ACTIVE
26N/04W-26K01M	DWR	SEMI-ANNUAL	4	12/23/91	ACTIVE
27N/02W-30C02M	DWR	SEMI-ANNUAL	135	04/26/61	ACTIVE
27N/02W-31C01M	DWR	SEMI-ANNUAL	69	01/17/58	ACTIVE
27N/02W-31P01M	USBR	SEMI-ANNUAL	217	11/29/29	ACTIVE
27N/03W-09K01M	USBR	SEMI-ANNUAL	135	10/05/61	04/05/77
27N/03W-10B01M	DWR	MONTHLY	263	06/26/70	ACTIVE
27N/03W-10N01M	USBR	SEMI-ANNUAL	227	03/18/53	ACTIVE
27N/03W-15M01M	USBR	SEMI-ANNUAL	126	10/04/61	10/05/72
27N/03W-16D01M	USBR	SEMI-ANNUAL	133	10/05/61	10/13/76
27N/03W-16J01M	USBR	SEMI-ANNUAL	189	03/29/52	ACTIVE
27N/03W-16N02M	DWR	SEMI-ANNUAL	81	02/05/73	ACTIVE
27N/03W-20C01M	USBR	SEMI-ANNUAL	165	02/11/52	ACTIVE
27N/03W-20K01M	USBR	SEMI-ANNUAL	109	11/04/63	10/13/76
27N/03W-20R01M	USBR	SEMI-ANNUAL	108	11/04/63	04/15/76
27N/03W-21N01M	USBR	SEMI-ANNUAL	141	10/04/61	10/23/80
27N/03W-22D01M	USBR	SEMI-ANNUAL	99	02/02/61	12/08/69
27N/03W-23D01M	DWR	SEMI-ANNUAL	107	12/20/48	ACTIVE
27N/03W-25E01M	USBR	SEMI-ANNUAL	20	01/06/66	08/11/67
27N/03W-26N01M	USBR	SEMI-ANNUAL	110	09/11/62	10/03/71
27N/03W-27G01M	USBR	SEMI-ANNUAL	185	03/12/52	ACTIVE
27N/03W-27L01M	USBR	SEMI-ANNUAL	129	01/03/62	04/15/76
27N/03W-28A01M	USBR	SEMI-ANNUAL	190	03/11/52	ACTIVE
27N/03W-28C02M	USBR	SEMI-ANNUAL	112	04/08/63	04/25/74
27N/03W-28L01M	USBR	SEMI-ANNUAL	180	08/08/52	ACTIVE
27N/03W-29A01M	USBR	SEMI-ANNUAL	61	11/04/63	11/06/68
27N/03W-29G01M	USBR	SEMI-ANNUAL	50	05/06/68	10/07/77
27N/03W-35A01M	USBR	SEMI-ANNUAL	128	09/11/62	04/22/79
27N/03W-36C01M	USBR	SEMI-ANNUAL	158	09/11/62	ACTIVE
27N/03W-36G01M	USBR	SEMI-ANNUAL	75	09/11/62	11/06/68
27N/03W-36J01M	DWR	SEMI-ANNUAL	32	01/21/58	03/13/73
27N/04W-05G02M	DWR	SEMI-ANNUAL	72	01/27/83	ACTIVE
27N/04W-35E01M	DWR	SEMI-ANNUAL	88	05/11/65	ACTIVE
27N/04W-36G01M	DWR	MONTHLY	38	09/08/89	ACTIVE

Well Locations

Plate 1 shows the location of DWR Tehama County ground water level monitoring wells. Approximate latitude, longitude, and Zone 10 UTM *(Universal Transverse Mercator)* coordinates, in meters, for each well are given in Table 2.

We determined the coordinates by plotting the location of each well on USGS 7.5-minute quadrangles, using information on file with DWR. The UTM coordinates of the plotted locations were digitized from these quadrangles. Latitude and longitude coordinates for each well were calculated from the digitized UTM coordinate data using software developed by the U.S. Geological Survey.

Locations shown in Table 2 and on Plate 1 are approximate, but are estimated to be within 500 feet. If you detect an error in location, please notify the Department of Water Resources, Northern District, Ground Water Section, 2440 Main Street, Red Bluff, California 96080; telephone number (916) 529-7314.

Table 2
Locations for Ground Water Level Monitoring Wells in Tehama County

State Well Number	UTM Coordinates East	UTM Coordinates North	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Latitude (Degrees Minutes Seconds)			Longitude (Degrees Minutes Seconds)		
23N/02W-16B01M	577468	4411747	39.8541	122.0944	39	51	15	122	5	40
23N/02W-22N02M	578956	4408767	39.8271	122.0774	39	49	38	122	4	39
23N/02W-34A01M	580003	4406830	39.8095	122.0654	39	48	34	122	3	55
23N/03W-05G01M	566653	4414777	39.8823	122.2205	39	52	56	122	13	14
23N/03W-12G01M	572944	4413165	39.8673	122.1471	39	52	2	122	8	50
23N/03W-12L01M	572545	4412703	39.8631	122.1518	39	51	47	122	9	7
23N/03W-12P02M	572435	4412269	39.8592	122.1532	39	51	33	122	9	11
23N/03W-13C02M	572659	4411651	39.8536	122.1506	39	51	13	122	9	2
23N/03W-22Q01M	569724	4408763	39.8279	122.1852	39	49	40	122	11	7
23N/03W-24A02M	573385	4409975	39.8385	122.1423	39	50	19	122	8	32
23N/03W-36M02M	572180	4405929	39.8021	122.1569	39	48	8	122	9	25
24N/01W-05J01M	585970	4424048	39.9641	121.9934	39	57	51	121	59	36
24N/01W-05Q02M	585467	4423332	39.9577	121.9994	39	57	28	121	59	58
24N/01W-06A01M	584306	4424783	39.9709	122.0128	39	58	15	122	0	46
24N/01W-08R01M	585686	4422032	39.9459	121.9970	39	56	45	121	59	49
24N/01W-18N01M	583229	4420181	39.9295	122.0260	39	55	46	122	1	34
24N/01W-21M01M	586486	4418885	39.9175	121.9881	39	55	3	121	59	17
24N/01W-26F01M	590024	4417817	39.9075	121.9468	39	54	27	121	56	49
24N/02W-02N01M	580180	4423329	39.9582	122.0613	39	57	29	122	3	41
24N/02W-12J01M	582862	4422352	39.9491	122.0300	39	56	57	122	1	48
24N/02W-17J01M	576591	4420650	39.9344	122.1036	39	56	4	122	6	13
24N/02W-20C01M	575702	4419999	39.9286	122.1141	39	55	43	122	6	51
24N/02W-23G01M	580947	4419364	39.9224	122.0528	39	55	21	122	3	10
24N/02W-28G01M	577694	4417880	39.9093	122.0910	39	54	34	122	5	28
24N/02W-29E01M	575140	4417608	39.9071	122.1209	39	54	26	122	7	15
24N/02W-33Q01M	577688	4415534	39.8882	122.0914	39	53	17	122	5	29
24N/02W-36B01M	582648	4416569	39.8970	122.0333	39	53	49	122	2	0
24N/03W-01B01M	572780	4424783	39.9719	122.1477	39	58	19	122	8	52
24N/03W-02R01M	571504	4424266	39.9674	122.1627	39	58	3	122	9	46
24N/03W-03J01M	570255	4423555	39.9611	122.1774	39	57	40	122	10	39
24N/03W-03N02M	569108	4423335	39.9592	122.1909	39	57	33	122	11	27
24N/03W-14K01M	571216	4420451	39.9330	122.1665	39	55	59	122	10	0
24N/03W-14Q02M	571308	4420263	39.9313	122.1655	39	55	53	122	9	56
24N/03W-16A01M	568344	4420970	39.9380	122.2001	39	56	17	122	12	0
24N/03W-16C01M	567494	4421407	39.9420	122.2100	39	56	31	122	12	36
24N/03W-16F01M	567587	4420798	39.9365	122.2090	39	56	11	122	12	32
24N/03W-17M01M	565573	4420608	39.9349	122.2326	39	56	6	122	13	57
24N/03W-20N01M	565674	4418679	39.9175	122.2316	39	55	3	122	13	54
24N/03W-26K01M	571191	4417538	39.9068	122.1671	39	54	24	122	10	2
24N/03W-35P02M	571089	4415524	39.8887	122.1686	39	53	19	122	10	7
24N/03W-35P03M	571102	4415508	39.8885	122.1684	39	53	19	122	10	6
24N/03W-35P04M	570937	4415529	39.8887	122.1703	39	53	19	122	10	13
24N/04W-02N01M	560957	4423265	39.9592	122.2863	39	57	33	122	17	11
24N/04W-07R01M	555546	4421770	39.9461	122.3498	39	56	46	122	20	59
24N/04W-08J02M	557210	4422097	39.9489	122.3303	39	56	56	122	19	49
24N/04W-09A02M	558894	4422910	39.9561	122.3105	39	57	22	122	18	38
24N/04W-09J01M	559087	4422354	39.9511	122.3083	39	57	4	122	18	30
24N/04W-09J02M	559102	4422280	39.9505	122.3081	39	57	2	122	18	29
24N/04W-10B01M	559911	4422829	39.9553	122.2986	39	57	19	122	17	55
24N/04W-14N02M	561059	4420094	39.9306	122.2854	39	55	50	122	17	8

Table 2 (continued)
Locations for Ground Water Level Monitoring Wells in Tehama County

State Well Number	UTM Coordinates East	UTM Coordinates North	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Latitude (Deg Min Sec)			Longitude (Deg Min Sec)		
24N/04W-15R01M	560925	4420008	39.9299	122.2870	39	55	47	122	17	13
24N/04W-21G01M	558879	4419219	39.9229	122.3110	39	55	22	122	18	40
24N/04W-24H01M	563910	4419515	39.9252	122.2521	39	55	31	122	15	8
25N/02W-04M01M	576843	4433355	40.0488	122.0992	40	2	56	122	5	57
25N/02W-09G01M	577512	4432284	40.0391	122.0914	40	2	21	122	5	29
25N/02W-21B01M	577435	4429428	40.0134	122.0927	40	0	48	122	5	34
25N/02W-30G01M	574378	4427844	39.9994	122.1287	39	59	58	122	7	43
25N/02W-34K01M	579314	4425235	39.9754	122.0712	39	58	32	122	4	16
25N/03W-03L01M	569413	4433232	40.0483	122.1863	40	2	54	122	11	11
25N/03W-06B01M	564939	4434105	40.0566	122.2386	40	3	24	122	14	19
25N/03W-08E01M	565784	4432361	40.0408	122.2289	40	2	27	122	13	44
25N/03W-09K01M	568451	4431718	40.0348	122.1977	40	2	5	122	11	52
25N/03W-10L01M	569215	4431607	40.0337	122.1888	40	2	1	122	11	20
25N/03W-10L03M	569215	4431607	40.0337	122.1888	40	2	1	122	11	20
25N/03W-10L04M	569215	4431607	40.0337	122.1888	40	2	1	122	11	20
25N/03W-10L05M	569215	4431607	40.0337	122.1888	40	2	1	122	11	20
25N/03W-10M01M	568925	4431762	40.0351	122.1921	40	2	6	122	11	32
25N/03W-11F01M	570015	4430884	40.0271	122.1795	40	1	38	122	10	46
25N/03W-13A01M	573193	4430873	40.0268	122.1422	40	1	36	122	8	32
25N/03W-13C01M	572643	4430841	40.0265	122.1487	40	1	35	122	8	55
25N/03W-13F01M	572594	4430544	40.0239	122.1493	40	1	26	122	8	57
25N/03W-13J01M	573143	4430239	40.0211	122.1429	40	1	16	122	8	34
25N/03W-14A01M	571543	4430843	40.0266	122.1616	40	1	36	122	9	42
25N/03W-15A01M	570994	4432188	40.0388	122.1679	40	2	20	122	10	4
25N/03W-15E01M	569159	4430821	40.0266	122.1895	40	1	36	122	11	22
25N/03W-15P01M	569221	4429807	40.0175	122.1889	40	1	3	122	11	20
25N/03W-19N01M	563844	4428049	40.0021	122.2521	40	0	7	122	15	7
25N/03W-21Q01M	568251	4427985	40.0012	122.2004	40	0	4	122	12	2
25N/03W-22C01M	569115	4429237	40.0124	122.1902	40	0	45	122	11	25
25N/03W-22L01M	569275	4428395	40.0048	122.1884	40	0	17	122	11	18
25N/03W-31R01M	565366	4425175	39.9761	122.2345	39	58	34	122	14	4
25N/04W-23N01M	560880	4428174	40.0034	122.2868	40	0	12	122	17	12
26N/02W-14G01M	580002	4439995	40.1083	122.0613	40	6	30	122	3	41
26N/02W-16C01M	576764	4440531	40.1135	122.0992	40	6	48	122	5	57
26N/02W-16Q01M	576869	4439065	40.1002	122.0982	40	6	1	122	5	53
26N/02W-17E01M	574914	4440081	40.1096	122.1210	40	6	34	122	7	16
26N/02W-21Q01M	576902	4437579	40.0868	122.0980	40	5	13	122	5	53
26N/02W-22G01M	578858	4438374	40.0938	122.0749	40	5	38	122	4	30
26N/02W-29N01M	574794	4435787	40.0709	122.1229	40	4	15	122	7	22
26N/02W-29R01M	575983	4436120	40.0738	122.1089	40	4	26	122	6	32
26N/02W-29R02M	575983	4436120	40.0738	122.1089	40	4	26	122	6	32
26N/03W-04K01M	567678	4442600	40.1329	122.2056	40	7	58	122	12	20
26N/03W-05M01M	565118	4442380	40.1311	122.2357	40	7	52	122	14	8
26N/03W-08N01M	565588	4440572	40.1148	122.2304	40	6	53	122	13	49
26N/03W-11F01M	570696	4441442	40.1222	122.1703	40	7	20	122	10	13
26N/03W-14A01M	571697	4440026	40.1093	122.1587	40	6	34	122	9	31
26N/03W-19A01M	565503	4438395	40.0952	122.2316	40	5	43	122	13	54
26N/03W-21P01M	567126	4437276	40.0850	122.2127	40	5	6	122	12	46
26N/03W-24F01M	572310	4437977	40.0908	122.1518	40	5	27	122	9	6
26N/03W-31N01M	563627	4434261	40.0581	122.2540	40	3	29	122	15	14

Table 2 (continued)
Locations for Ground Water Level Monitoring Wells in Tehama County

State Well Number	UTM Coordinates East	UTM Coordinates North	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Latitude (Degrees Minutes Seconds)			Longitude (Degrees Minutes Seconds)		
26N/03W-32P01M	566194	4434209	40.0574	122.2239	40	3	27	122	13	26
26N/03W-34L02M	569334	4434668	40.0613	122.1870	40	3	41	122	11	13
26N/03W-34P01M	569337	4434167	40.0568	122.1871	40	3	24	122	11	13
26N/04W-01L01M	562467	4442629	40.1335	122.2668	40	8	1	122	16	0
26N/04W-25J01M	563310	4436428	40.0776	122.2575	40	4	39	122	15	27
26N/04W-26K01M	561329	4436185	40.0756	122.2808	40	4	32	122	16	51
27N/02W-30C02M	573948	4446672	40.1690	122.1316	40	10	8	122	7	54
27N/02W-31C01M	573783	4445254	40.1563	122.1337	40	9	23	122	8	1
27N/02W-31P01M	573811	4444028	40.1452	122.1335	40	8	43	122	8	1
27N/03W-09K01M	567752	4450899	40.2076	122.2039	40	12	27	122	12	14
27N/03W-10B01M	569073	4451694	40.2147	122.1883	40	12	53	122	11	18
27N/03W-10N01M	568371	4450587	40.2048	122.1966	40	12	17	122	11	48
27N/03W-15M01M	568710	4449179	40.1921	122.1928	40	11	31	122	11	34
27N/03W-16D01M	566693	4449946	40.1991	122.2164	40	11	57	122	12	59
27N/03W-16J01M	567997	4448982	40.1903	122.2012	40	11	25	122	12	4
27N/03W-16N02M	566782	4448612	40.1871	122.2155	40	11	14	122	12	56
27N/03W-20C01M	565489	4448209	40.1836	122.2307	40	11	1	122	13	51
27N/03W-20K01M	566057	4447538	40.1775	122.2241	40	10	39	122	13	27
27N/03W-20R01M	566310	4447033	40.1729	122.2212	40	10	22	122	13	16
27N/03W-21N01M	566963	4447190	40.1743	122.2135	40	10	27	122	12	49
27N/03W-22D01M	568328	4448516	40.1861	122.1974	40	11	10	122	11	51
27N/03W-23D01M	570379	4448244	40.1835	122.1733	40	11	1	122	10	24
27N/03W-25E01M	571543	4446365	40.1665	122.1598	40	9	59	122	9	35
27N/03W-26N01M	570052	4445489	40.1587	122.1775	40	9	31	122	10	39
27N/03W-27G01M	569424	4446307	40.1661	122.1847	40	9	58	122	11	5
27N/03W-27L01M	568745	4445817	40.1618	122.1928	40	9	42	122	11	34
27N/03W-28A01M	568252	4446857	40.1712	122.1984	40	10	16	122	11	54
27N/03W-28C02M	567330	4446931	40.1719	122.2093	40	10	19	122	12	33
27N/03W-28L01M	567474	4445957	40.1631	122.2077	40	9	47	122	12	28
27N/03W-29A01M	566354	4446921	40.1719	122.2207	40	10	19	122	13	15
27N/03W-29G01M	566204	4446474	40.1679	122.2225	40	10	4	122	13	21
27N/03W-35A01M	571246	4445360	40.1574	122.1634	40	9	27	122	9	48
27N/03W-36C01M	572087	4445306	40.1569	122.1536	40	9	25	122	9	13
27N/03W-36G01M	572613	4444763	40.1519	122.1475	40	9	7	122	8	51
27N/03W-36J01M	572817	4444323	40.1480	122.1451	40	8	53	122	8	42
27N/04W-05G02M	556612	4453063	40.2280	122.3346	40	13	41	122	20	5
27N/04W-35E01M	560420	4444721	40.1525	122.2906	40	9	9	122	17	26
27N/04W-36G01M	563056	4444602	40.1513	122.2597	40	9	5	122	15	35

Ground Water Level Data Management

The data presented in this report are maintained on IBM-compatible personal computer systems using a collection of data processing applications developed by the Ground Water Sections of DWR's Central and Northern districts. The data management application, known as "EX-terra," consists of five main data tables that contain:

- Ground water level data
- Generalized geographic data
- Well construction data
- Well qualification data
- Coordinate data.

EX-terra is configured to produce both printed reports and ASCII *(American Standard Code for Information Interchange)* files for use in other computer programs. Among the printed reports are:

- Ground water levels for single wells or groups of wells, based on State Well Number, ground water basin, or county
- Well construction and monitoring history
- Well coordinate and geographic data.

The ASCII output files are formatted for direct input to several widely available graphics programs to create ground water level contour maps or hydrographs, such as those presented in Appendix A.

The ground water level and coordinate data presented in this report can be purchased in electronic form (see inside front cover for details). The files are provided in ASCII delimited format. An ASCII documentation file explaining the contents of the data files is included with each response to a data request. Information about the IBM-compatible applications that comprise the EX-terra ground water level data management system and their implementation is also available.

Ground Water Level Measurements

Water levels in all wells are measured using a steel tape or electric probe. All measurements of water levels should be accurate to the nearest tenth of a foot. The water surface elevations presented in this report are calculated using the water level measurements and ground surface elevations at each well. Most of the ground surface elevations were estimated from USGS 7.5 quadrangles. Accuracy of these elevations is dependent on the contour intervals of the maps, which range from 5 to 40 feet.

Ground water level data for each well are depicted on the hydrographs in Appendix A. The hydrographs represent water level data through June 1993 and are organized by township from south to north and by range from east to west.

On the hydrographs, solid circles (dots) depict actual measured ground water elevations. When an individual measurement is identified by a larger circle around a smaller solid circle, the measurement is questionable. Solid lines connecting individual measurements are interpolations of the change in ground water elevation between measurements. Discontinuities on the graphs indicate an expected measurement is missing. Ground surface elevations at the wells are represented as long, solid horizontal lines.

Hydrographs representing monthly monitoring wells have a higher concentration of data points compared to hydrographs representing semi-annual measurement wells.

Data points that appear "unusual" were checked against field records and retained to preserve the objectivity of the ground water level records.

Ground Water Level Trends

Tehama County can be divided into three general ground water resource areas: the Sacramento Valley, which is the major ground water basin, and the foothills and mountains to the east and to the west of the valley. The latter two have limited ground water resources. The Department's monitoring program focused on wells located only in the Sacramento Valley ground water basin.

Ground water levels fluctuate annually in response to ground water extractions, subsurface inflow and outflow, recharge from precipitation, stream percolation, and infiltration of applied irrigation water. Levels are usually highest in the spring and lowest in the fall. Longer term fluctuations occur when discharge exceeds or is less than recharge over several seasons. Changes in ground water levels are determined from well measurements. Hydrographs are graphical plots of the measurements and illustrate annual spring to fall changes, long-term changes linked to increased or decreased ground water extraction, or variations associated with wet or dry climatic conditions.

Sacramento Valley ground water in Tehama County is recharged by precipitation, applied water, local creeks, subsurface inflow from the Tuscan Formation, and the Sacramento River. The major creeks are Mill, Deer and Antelope creeks from the East, and Thomes, Red Bank, Elder, Reeds, and Dibble creeks from the West. Ground water generally flows from northeast and northwest and discharges at the Sacramento River.

In general, the hydrographs in Appendix A show:

- Ground water level declines in some of the wells are associated with the 1976 - 77 and 1987 - 92 drought periods.

- All ground water levels recovered from the 1976 - 77 to pre-drought levels during the wet period in the early 1980s. Most of the ground water levels recovered from the 1987 - 92 drought during the wet 1992 - 93 winter and spring.

- The seasonal fluctuation (spring to fall change) is the greatest (20-30 feet) on the west side near Gerber, Tehama and Corning. The seasonal fluctuation gradually tapers off to 10 feet towards Red Bluff in the north and the Glenn County line in the south. This increased seasonal fluctuation may be related to the higher percentage of ground water used.

Ground Water Level Trends (continued)

- Wells in the Corning area, within Townships 23N - 24N and Range 03W, show a general decline in ground water levels before 1965 due to increasing ground water extraction for agricultural use. After 1965, the introduction of applied surface water from the Tehama-Colusa Canal and the Corning Canal started a general upward trend in ground water levels which peaked before the 1986 drought.

- Wells near the Western Antelope area in Red Bluff (ie. 27N/03W-20C01 M) show about a 10-foot rise in overall water level after the construction of the Red Bluff Diversion Dam in 1966.

- In several Tehama County wells, ground water levels have not changed throughout the period of record (ie. 25N/03W-10L03 M).

Well Qualification

Well qualification is a standardized process to identify the aquifer(s) associated with individual monitoring wells (Table 3).

A ground water basin is often stratified with several layers of pervious, impervious and semi-impervious material. These layers form an upper unconfined and one or more lower confined to semi-confined zones (described as ground water bodies or aquifers). Water wells may draw from two or more different aquifers.

In order to compare and understand the water level data from various monitoring wells, one must identify which aquifer(s) each well is drawing from by qualifying the wells.

There are four components in well qualification. They are:

I. The ground water body classification of the well's ground water aquifer(s).

1. Unconfined ground water body.
2. Semi-confined ground water body.
3. Confined ground water body.
4. Previously named zone either confined or unconfined, i.e., "A" zone confined, "Silverado."
5. Composite, consisting of both free and confined ground water bodies.

II. The degree of certainty associated with the ground water body classification.

1. Definite: Evidence is conclusive.
2. Probable: Evidence is not conclusive, but includes fairly convincing evidence in support.
3. Possible: Evidence is not conclusive and not as firm as probable, but evidence indicates that it could be or that it is possible.

III. The hydrogeologic unit as the water bearing material associated with the ground water body. (i.e. Qal - Alluvium, Qfl - Floodplain deposits, Ttu - Tuscan Formation etc.)

IV. The date of qualification and the licensed professional who qualified the well.

Information used to qualify a well may be found from the following sources.

- Well Completion Reports (Drillers' Well Logs) may contain the log of geologic formation by depth of the bore hole, well construction information, and well test information such as drawdown and yield. When no well completion report is available, a report of a nearby well is substituted and the degree of certainty is reduced to probable or possible in qualifying the well.
- Geologic maps.
- Water level records are analyzed for patterns of water level fluctuation.
- Electric logs - chart the resistivity vs. depth of a well. They are used to locate the vertical boundaries of water-bearing materials.
- Pump test records.
- Water quality and temperature records.

The amount of information available for a well affects the degree of certainty of the ground water body classification.

Table 3
Well Qualification for Tehama County Monitoring Wells

Well Number	Log *	Use	Ground Water Body	Hydrogeologic Units	Confidence
23N/02W-16B01M		Irr	Confined	Qprb?+Tte	Probable
23N/02W-22N02M		Irr	Confined	Tte+Ttu	Probable
23N/02W-34A01M		Irr	Composite	Qaf	Probable
23N/03W-05G01M		Dom	Unconfined	Tte	Possible
23N/03W-12G01M		Idle	Confined	Tte	Possible
23N/03W-12L01M	61256	Irr	Composite	Tte	Definite
23N/03W-12P02M		Stk	Unconfined	Tte	Possible
23N/03W-13C02M		Dom	Unconfined	Tte	Probable
23N/03W-22Q01M		Irr	Confined	Tte	Probable
23N/03W-24A02M		Irr	Composite	Qal+Qprb+Tte	Possible
23N/03W-36M02M	125401	Dom	Unconfined	Qprb+Tte	Probable
24N/01W-05J01M		Dom	Confined	Ttu	Probable
24N/01W-05Q02M		Dom	Composite	TQfg+Ttu	Probable
24N/01W-06A01M	USBR	Aban	Unconfined	Ttu	Probable
24N/01W-08R01M		Aban	Unconfined	TQfg	Possible
24N/01W-18N01M	33129	Dom	Unconfined	Ttu	Definite
24N/01W-21M01M		Dom	Unconfined	TQfg	Probable
24N/01W-26F01M		Aban	Unconfined	TQfg	Probable
24N/02W-02N01M		Dom	Confined	TQfg+Ttu	Probable
24N/02W-12J01M		Dom	Unconfined	Ttu	Probable
24N/02W-17J01M		Dom	Unconfined	Tte+Ttu	Possible
24N/02W-20C01M		Irr	Confined	Tte	Possible
24N/02W-23G01M	USGS	Irr	Composite	Ttu	Probable
24N/02W-28G01M	DWR	Obs	Unconfined	Tte	Definite
24N/02W-29E01M	DWR	Irr	Confined	Ttu+Tte	Probable
24N/02W-33Q01M		Dom	Unconfined	Tte+Ttu	Possible
24N/02W-36B01M	DWR	Aban	Unconfined	Qral	Definite
24N/03W-01B01M	DWR	Dom	Semiconfined	Ttu	Definite
24N/03W-02R01M		Irr	Composite	Qal+Ttu	Probable
24N/03W-03J01M		Dom	Unconfined	Qral	Possible
24N/03W-03N02M	USGS	Irr	Composite	Qral+Tte	Probable
24N/03W-14K01M	10016	Dom	Confined	Tte	Definite
24N/03W-14Q02M		Aban	Unconfined	Tte	Possible
24N/03W-16A01M	USGS	Irr	Composite	Tte	Probable
24N/03W-16C01M		Irr	Unconfined	Qoal	Possible
24N/03W-16F01M		Aban	Unconfined	Qoal	Possible
24N/03W-17M01M	3027	Dom	Unconfined	Tte	Definite
24N/03W-20N01M	USGS	Irr	Composite	Tte	Definite
24N/03W-26K01M	DWR	Dom	Composite	Tte	Definite
24N/03W-35P02M		Dom	Composite	Tte	Possible
24N/03W-35P03M		Irr	Unconfined	Tte	Possible
24N/03W-35P04M		Irr	Unconfined	Tte	Possible
24N/04W-02N01M	USBR	Dom	Unconfined	Tte	Definite
24N/04W-07R01M		Irr	Composite	Tte	Possible
24N/04W-08J02M	DWR	Irr	Composite	Tte	Probable
24N/04W-09A02M	USGS	Irr	Confined	Tte	Possible
24N/04W-09J01M	USGS	Idle	Confined	Tte	Possible
24N/04W-09J02M		Irr	Composite	Tte	Possible
24N/04W-10B01M		Idle	Confined	Tte	Possible
24N/04W-14N02M		Dom	Composite	Tte	Possible

Table 3 (continued)
Well Qualification for Tehama County Monitoring Wells

Well Number	Log *	Use	Ground Water Body	Hydrogeologic Units	Confidence
24N/04W-15R01M		Aban	Unconfined	Qral+Tte	Possible
24N/04W-21G01M		Stk	Composite	Tte	Possible
24N/04W-24H01M		Aban	Composite	Tte	Possible
25N/02W-04M01M		Dom	Unconfined	Ttu	Definite
25N/02W-09G01M		Dom	Unconfined	Ttu	Definite
25N/02W-21B01M	42564	D/I?	Unconfined	Ttu	Definite
25N/02W-30G01M	DWR	Stk	Unconfined	Tte	Definite
25N/02W-34K01M	DWR	Irr	Composite	TQfg+Ttus	Possible
25N/03W-03L01M		Irr	Composite	Tte+Ttu	Probable
25N/03W-06B01M		Dom	Unconfined	Tte	Possible
25N/03W-08E01M	62868	Irr	Composite	Tte	Probable
25N/03W-09K01M	USBR	Irr	Composite	Tte	Probable
25N/03W-10L01M	USBR	Obs	Confined	Tte	Definite
25N/03W-10L03M	USBR	Obs	Confined	Ttus	Definite
25N/03W-10L04M	USBR	Obs	Unconfined	Tte	Definite
25N/03W-10L05M	USBR	Obs	Unconfined	Tte	Definite
25N/03W-10M01M	USBR	Irr	Composite	Tte+Ttus	Probable
25N/03W-11F01M	USBR	Irr	Confined	Tte+Ttus	Definite
25N/03W-13A01M	DWR	Obs	Unconfined	Qprb	Definite
25N/03W-13C01M		Dom	Semiconfined	Tte	Probable
25N/03W-13F01M	USBR	Irr	Composite	Tte+Ttus	Probable
25N/03W-13J01M	USBR	Irr	Composite	Tte+Ttus	Definite
25N/03W-14A01M	USBR	Irr	Composite	Qoal+Tte+Ttus	Definite
25N/03W-15A01M	USBR	Irr	Composite	Tte	Definite
25N/03W-15E01M	USBR	Irr	Confined	Tte	Probable
25N/03W-15P01M	USBR	Irr	Composite	Tte	Definite
25N/03W-19N01M	73070	Irr	Confined	Tte	Definite
25N/03W-21Q01M	USBR	Irr	Composite	Tte	Definite
25N/03W-22C01M	USBR	Irr	Composite	Tte	Probable
25N/03W-22L01M	USBR	Irr	Composite	Tte	Definite
25N/03W-31R01M	USBR	Dom	Composite	Qoal+Tte	Definite
25N/04W-23N01M	DWR	Irr	Composite	Tte	Definite
26N/02W-14G01M		Irr	Unconfined	TQfg+Ttus	Probable
26N/02W-16C01M		Dom	Unconfined	TQfg	Possible
26N/02W-16Q01M	16112	Irr	Composite	TQfg+Ttus	Definite
26N/02W-17E01M	38940	Irr	Unconfined	Ttus	Probable
26N/02W-21Q01M	31936	Dom	Unconfined	TQfg+Ttu	Probable
26N/02W-22G01M	183534	Irr	Confined	Ttus	Definite
26N/02W-29N01M	2011	Irr	Unconfined	Qal+Tte	Definite
26N/02W-29R01M	DWR	Obs	Confined	Ttus	Probable
26N/02W-29R02M	DWR	Obs	Confined	Ttus	Definite
26N/03W-04K01M		Aban	Composite	Tte	Possible
26N/03W-05M01M		Aban	Semiconfined	Tte	Possible
26N/03W-08N01M		Dom	Composite	Tte	Possible
26N/03W-11F01M	USBR	Irr	Composite	Tte	Possible
26N/03W-14A01M		Irr	Unconfined	Tte	Possible
26N/03W-19A01M		Aban	Composite	Qoal+Tte?	Possible
26N/03W-21P01M	USGS	Irr	Confined	Tte	Definite
26N/03W-24F01M		Aban	Unconfined	Qal	Definite
26N/03W-31N01M		Aban	Unconfined	Tte	Possible

Table 3 (continued)
Well Qualification for Tehama County Monitoring Wells

Well Number	Log *	Use	Ground Water Body	Hydrogeologic Units	Confidence
26N/03W-32P01M		Dom	Unconfined	Qoal+Tte	Possible
26N/03W-34L02M	USBR	Irr	Confined	Tte+Ttu	Probable
26N/03W-34P01M	USBR	Irr	Composite	Tte	Definite
26N/04W-01L01M	16616	Dom	Confined	Tte	Definite
26N/04W-25J01M	106876	Dom	Semiconfined	Tte	Possible
26N/04W-26K01M	125243	Irr	Confined	Tte	Definite
27N/02W-30C02M	18450	Dom	Composite	Ttus	Definite
27N/02W-31C01M	DWR	Irr	Composite	Ttus	Possible
27N/02W-31P01M		Dom	Unconfined	TQfg	Probable
27N/03W-09K01M		Obs	Unconfined	Qoal	Probable
27N/03W-10B01M	86024	Dom	Semiconfined	Ttu	Probable
27N/03W-10N01M		Irr	Composite	Ttus	Possible
27N/03W-15M01M		Dom	Semiconfined	Ttus	Possible
27N/03W-16D01M		Obs	Unconfined	Qoal	Probable
27N/03W-16J01M		Irr	Composite	Qoal+Ttus	Possible
27N/03W-16N02M		Dom	Semiconfined	Ttus+Tte	Probable
27N/03W-20C01M		Dom	Unconfined	Qoal	Probable
27N/03W-20K01M	5482	Dom	Semiconfined	Ttus+Tte	Probable
27N/03W-20R01M		Idle	Unconfined	Qoal	Definite
27N/03W-21N01M	USGS	Irr	Semiconfined	Ttus+Tte	Probable
27N/03W-22D01M		Obs	Unconfined	Qoal	Probable
27N/03W-23D01M	USGS	Irr	Composite	Qoal+Ttus	Definite
27N/03W-25E01M		Obs	Unconfined	Qoal	Definite
27N/03W-26N01M		Irr	Semiconfined	Ttus	Possible
27N/03W-27G01M		Dom	Composite	Qoal+Ttus	Possible
27N/03W-27L01M		Stk	Unconfined	Qoal	Possible
27N/03W-28A01M		Dom	Unconfined	Qoal	Possible
27N/03W-28C02M		Tes	Unconfined	Qal	Possible
27N/03W-28L01M			Unconfined	Ttu+Tte	Possible
27N/03W-29A01M		Dom	Unconfined	Qoal	Possible
27N/03W-29G01M		Dom	Unconfined	Qoal+Ttu	Possible
27N/03W-35A01M		Dom	Unconfined	Ttu	Possible
27N/03W-36C01M		Idle	Unconfined	Qoal	Possible
27N/03W-36G01M		Dom	Unconfined	Qoal+TQfg	Possible
27N/03W-36J01M		Dom	Unconfined	Qoal	Possible
27N/04W-05G02M	211894	Dom	Composite	Tte	Probable
27N/04W-35E01M		Dom	Confined	Tte	Probable
27N/04W-36G01M	201773	Dom	Unconfined	Tte	Definite

HYDROGEOLOGIC UNITS

Qal - Alluvium
Qaf - Alluvial Fan Deposits
Qoal - Older alluvium
Qprb - Red Bluff Formation
Qral - Recent Alluvium
TQfg - Fanglomerate
Tte - Tehama Formation
Ttu - Undifferentiated Tuscan Formation
Ttus - Tuscan Formation sediments

GROUND WATER BODY

Unconfined - Represents the free ground water level in the uppermost zone of saturation.
Confined - Represents the pieziometric surface of an aquifer under pressure.
Composite - Represents a water level that includes two or more confined levels and the free ground.

CONFIDENCE RATING

Definite - Know well depth & perforated interval, have complete drillers report & good local geology.
Probable - Know well depth, have partial well drillers report & good local geology.
Possible - Know well depth, have poor local geology and/or uncertain well data.

* A well log in file is identified by its DWR log number or by the agency that prepared the log. Likewise, a blank entry indicates that a log is not on file.

Appendix A
Hydrographs

State Well Number	Page	State Well Number	Page
23N/02W-16B01M	21	24N/03W-17M01M	42
23N/02W-22N02M	22	24N/03W-20N01M	42
23N/02W-34A01M	23	24N/03W-26K01M	43
23N/03W-05G01M	23	24N/03W-35P02M	43
23N/03W-12G01M	24	24N/03W-35P03M	44
23N/03W-12L01M	24	24N/03W-35P04M	44
23N/03W-12P02M	25	24N/04W-02N01M	45
23N/03W-13C02M	25	24N/04W-07R01M	45
23N/03W-22Q01M	26	24N/04W-08J02M	46
23N/03W-24A02M	26	24N/04W-09A02M	46
23N/03W-36M02M	27	24N/04W-09J01M	47
24N/01W-05J01M	27	24N/04W-09J02M	47
24N/01W-05Q02M	28	24N/04W-10B01M	48
24N/01W-06A01M	28	24N/04W-14N02M	48
24N/01W-08R01M	29	24N/04W-15R01M	49
24N/01W-18N01M	29	24N/04W-21G01M	49
24N/01W-21M01M	30	24N/04W-24H01M	50
24N/01W-26F01M	30	25N/02W-04M01M	50
24N/02W-02N01M	31	25N/02W-09G01M	51
24N/02W-12J01M	32	25N/02W-21B01M	51
24N/02W-17J01M	32	25N/02W-30G01M	52
24N/02W-20C01M	33	25N/02W-34K01M	52
24N/02W-23G01M	33	25N/03W-03L01M	53
24N/02W-28G01M	34	25N/03W-06B01M	53
24N/02W-29E01M	34	25N/03W-08E01M	54
24N/02W-33Q01M	35	25N/03W-09K01M	54
24N/02W-36B01M	36	25N/03W-10L01M	55
24N/03W-01B01M	36	25N/03W-10L03M	55
24N/03W-02R01M	37	25N/03W-10L04M	56
24N/03W-03J01M	37	25N/03W-10L05M	56
24N/03W-03N02M	38	25N/03W-10M01M	57
24N/03W-14K01M	39	25N/03W-11F01M	58
24N/03W-14Q02M	40	25N/03W-13A01M	59
24N/03W-16A01M	40	25N/03W-13C01M	59
24N/03W-16C01M	41	25N/03W-13F01M	60
24N/03W-16F01M	41	25N/03W-13J01M	60

Appendix A
Hydrographs (continued)

State Well Number	Page	State Well Number	Page
25N/03W-14A01M	61	27N/02W-31P01M	83
25N/03W-15A01M	61	27N/03W-09K01M	84
25N/03W-15E01M	62	27N/03W-10B01M	84
25N/03W-15P01M	62	27N/03W-10N01M	85
25N/03W/19N01M	63	27N/03W-15M01M	85
25N/03W-21Q01M	63	27N/03W-16D01M	86
25N/03W-22C01M	64	27N/03W-16J01M	86
25N/03W-22L01M	65	27N/03W-16N02M	87
25N/03W-31R01M	66	27N/03W-20C01M	87
25N/04W-23N01M	66	27N/03W-20K01M	88
26N/02W-14G01M	67	27N/03W-20R01M	88
26N/02W-16C01M	68	27N/03W-21N01M	89
26N/02W-16Q01M	68	27N/03W-22D02M	90
26N/02W-17E01M	69	27N/03W-23D01M	90
26N/02W-21Q01M	69	27N/03W-25E01M	91
26N/02W-22G01M	70	27N/03W-26N01M	91
26N/02W-29N01M	71	27N/03W-27G01M	92
26N/02W-29R01M	71	27N/03W-27L01M	92
26N/02W-29R02M	72	27N/03W-28A01M	93
26N/03W-04K01M	73	27N/03W-28C02M	93
26N/03W-05M01M	74	27N/03W-28L01M	94
26N/03W-08N01M	74	27N/03W-29A01M	94
26N/03W-11F01M	75	27N/03W-29G01M	95
26N/03W-14A01M	75	27N/03W-35A01M	95
26N/03W-19A01M	76	27N/03W-36C01M	96
26N/03W-21P01M	76	27N/03W-36G01M	96
26N/03W-24F01M	77	27N/03W-36J01M	97
26N/03W-31N01M	77	27N/04W-05G02M	97
26N/03W-32P01M	78	27N/04W-35E01M	98
26N/03W-34L02M	78	27N/04W-36G01M	98
26N/03W-34P01M	79		
26N/04W-01L01M	80		
26N-04W-25J01M	80		
26N/04W-26K01M	81		
27N/02W-30C02M	81		
27N/02W-31C01M	82		

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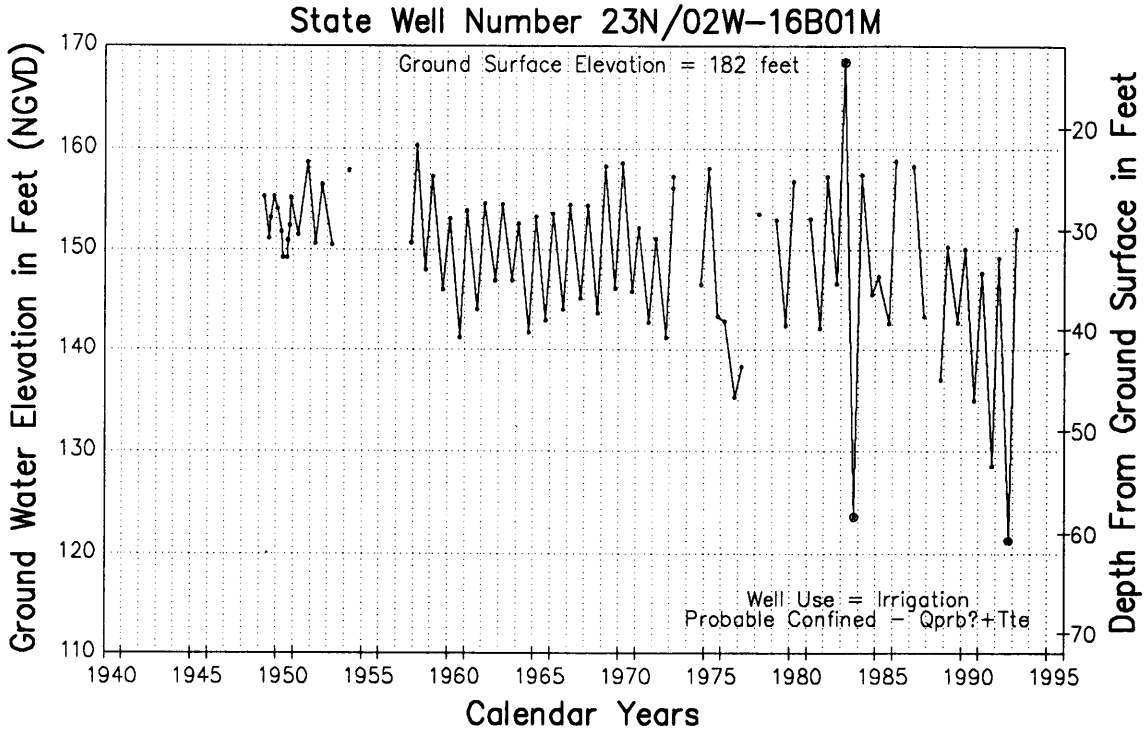

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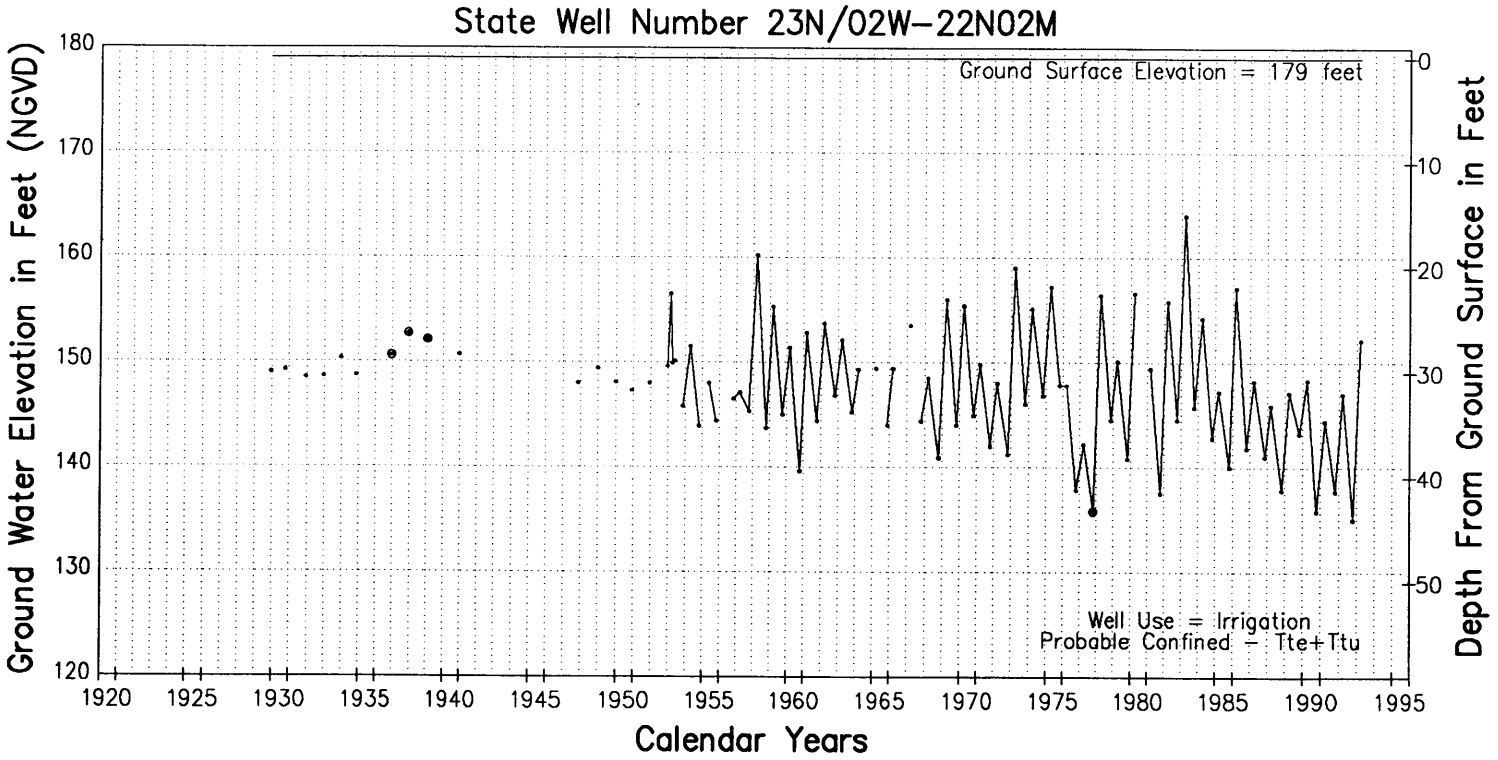

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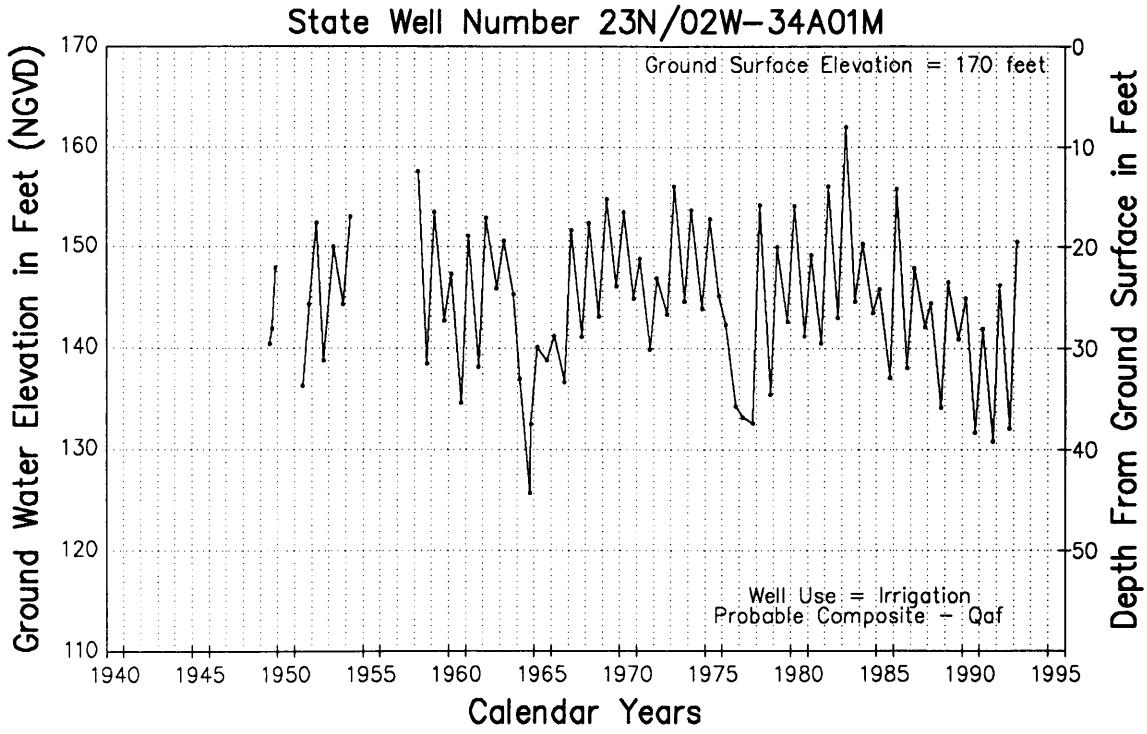

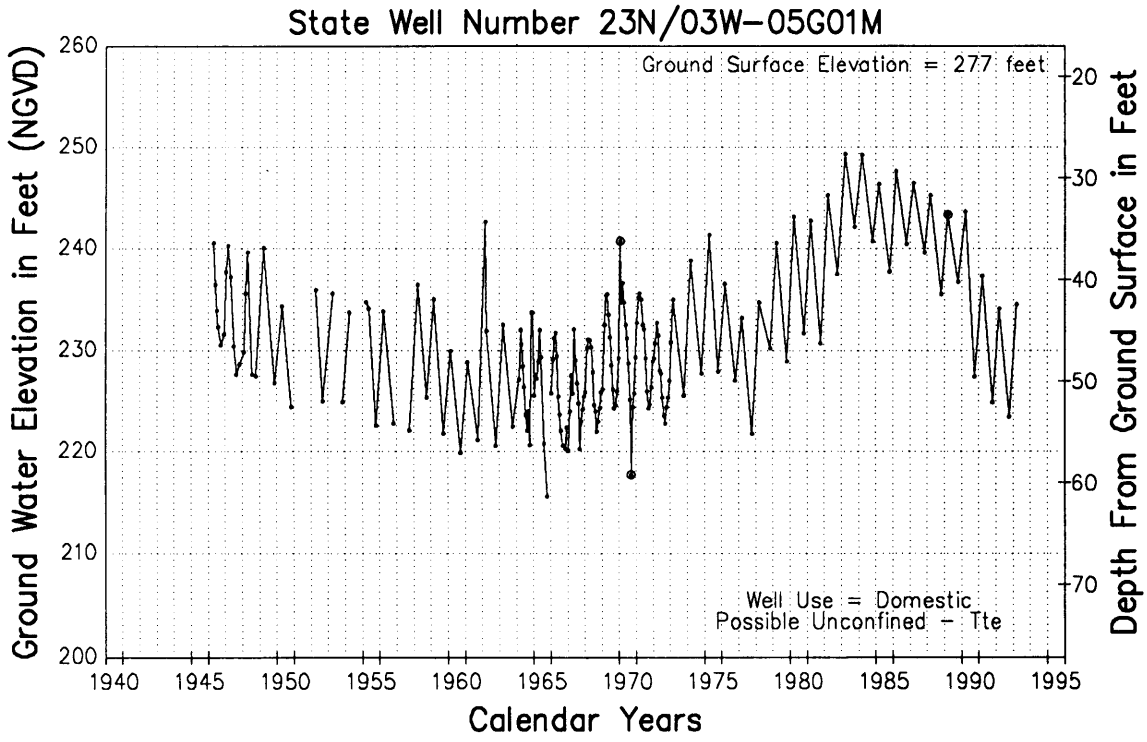

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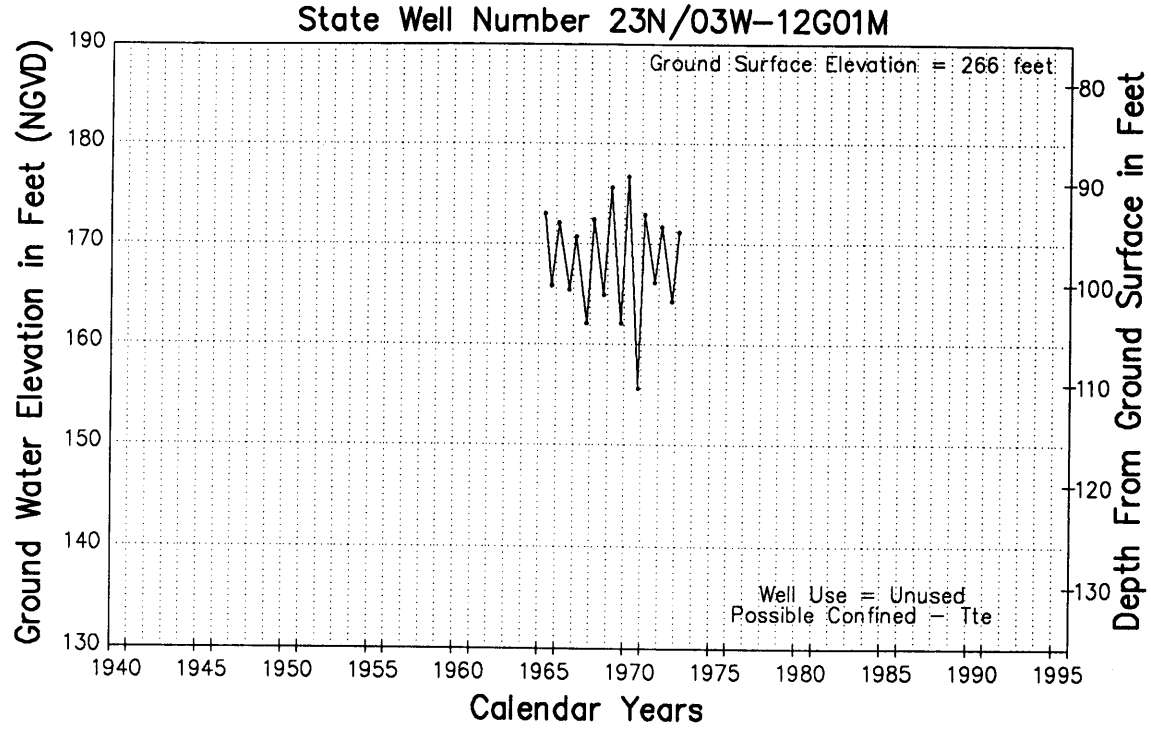

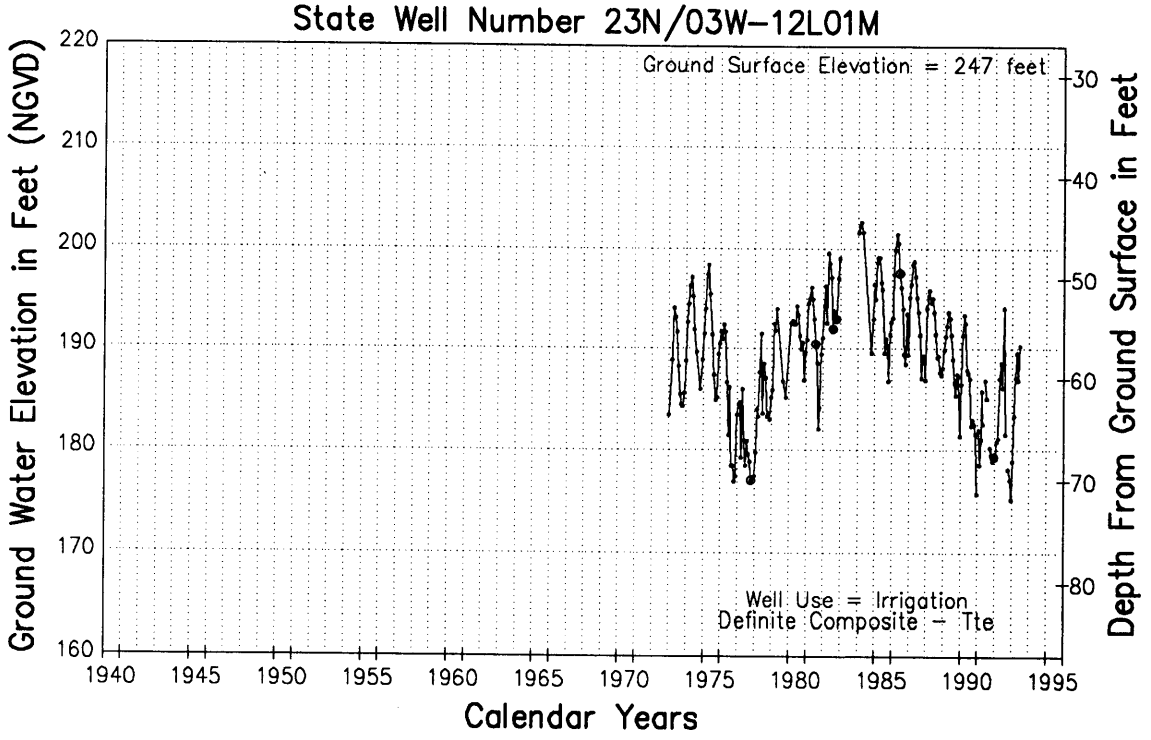

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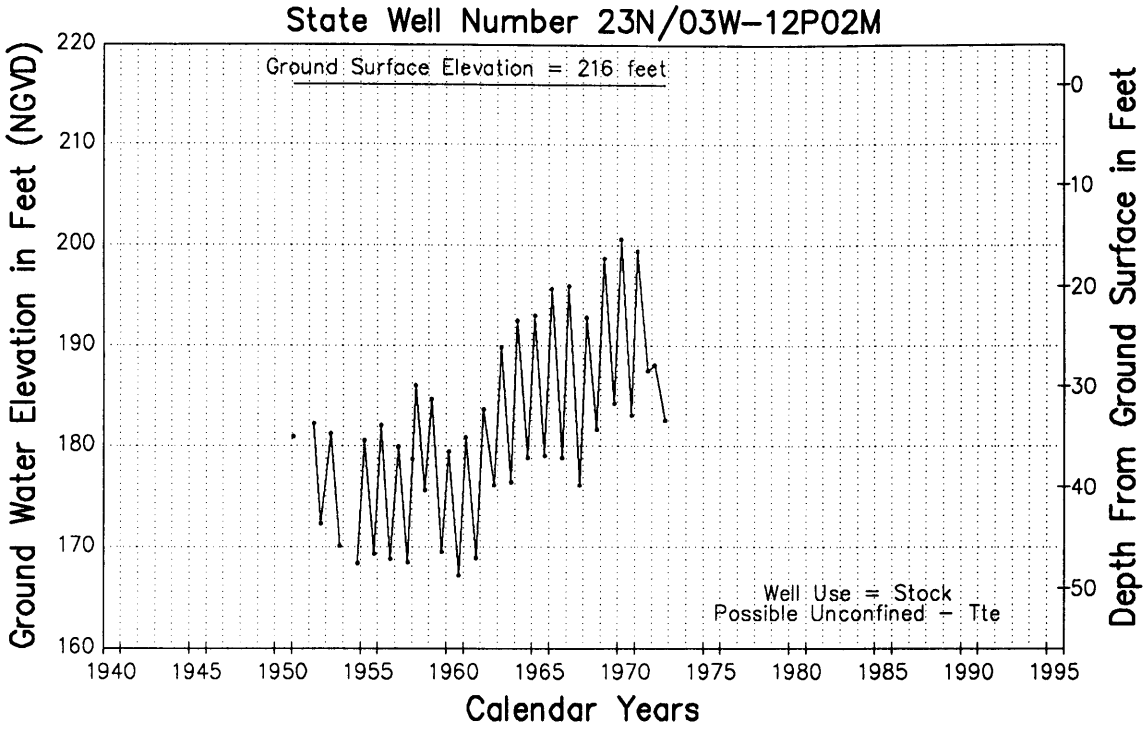

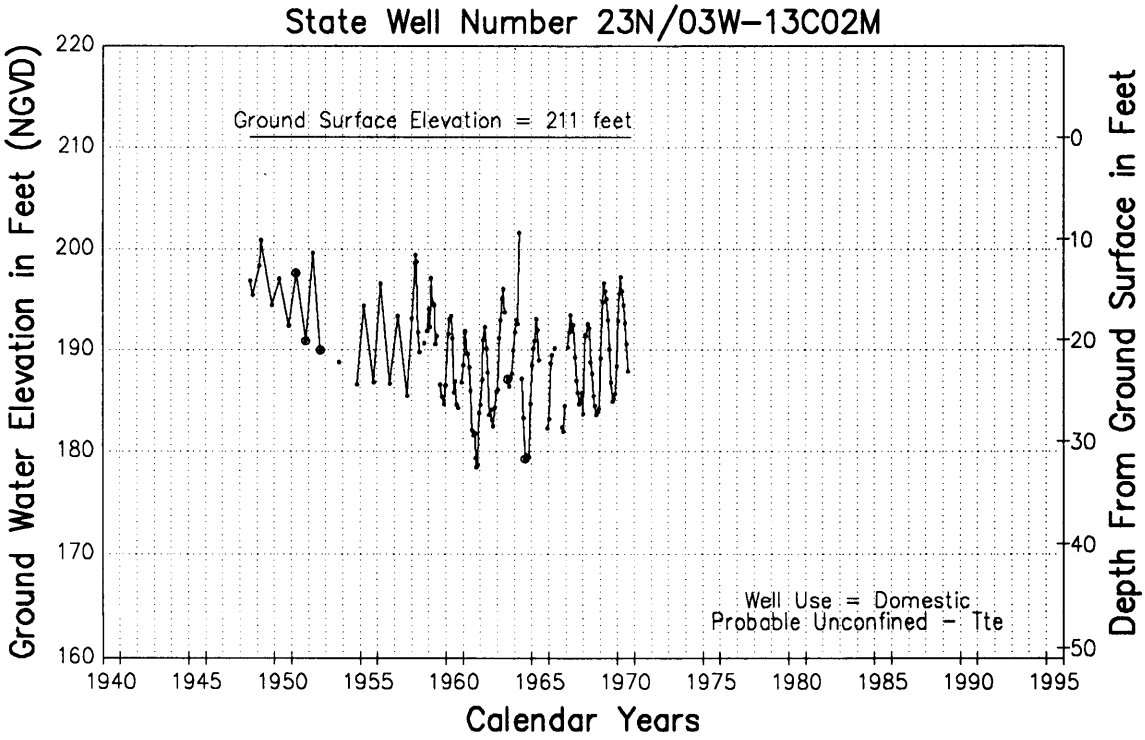

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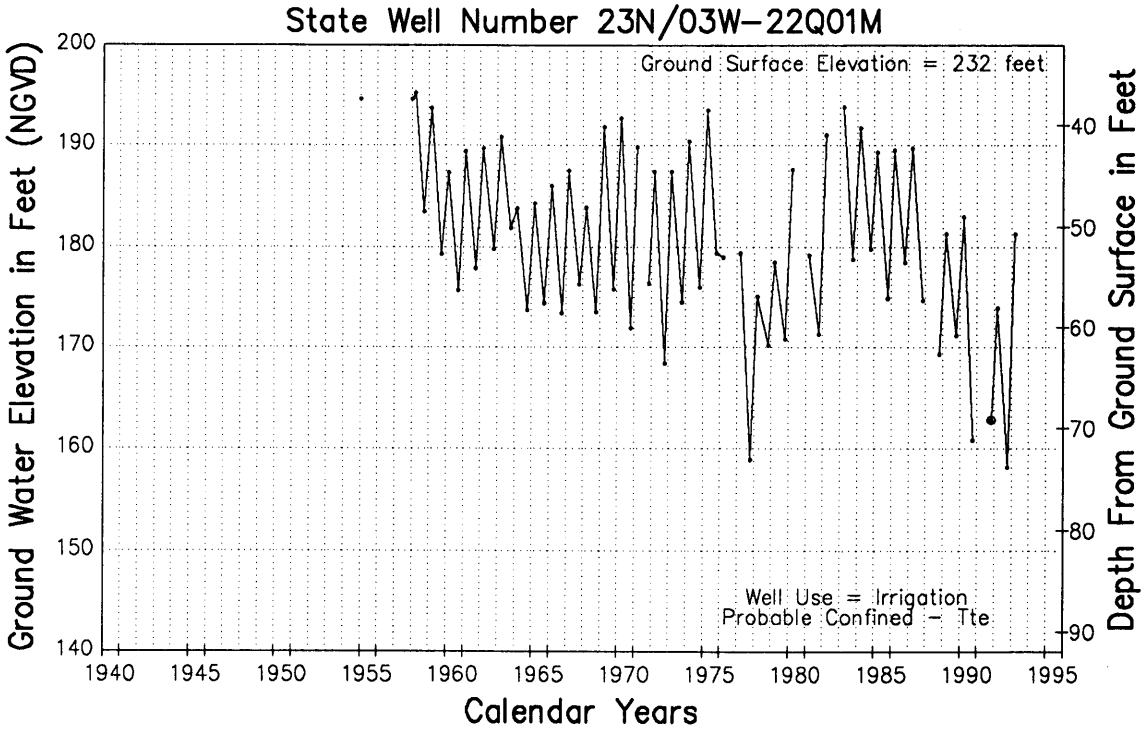

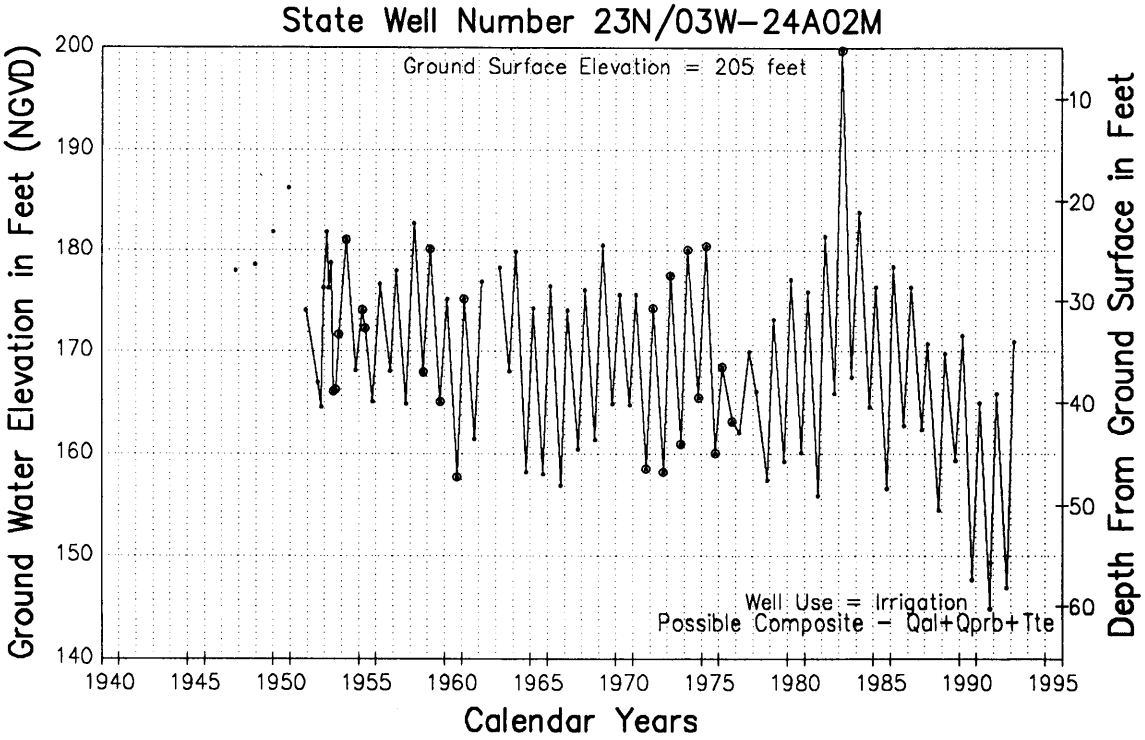

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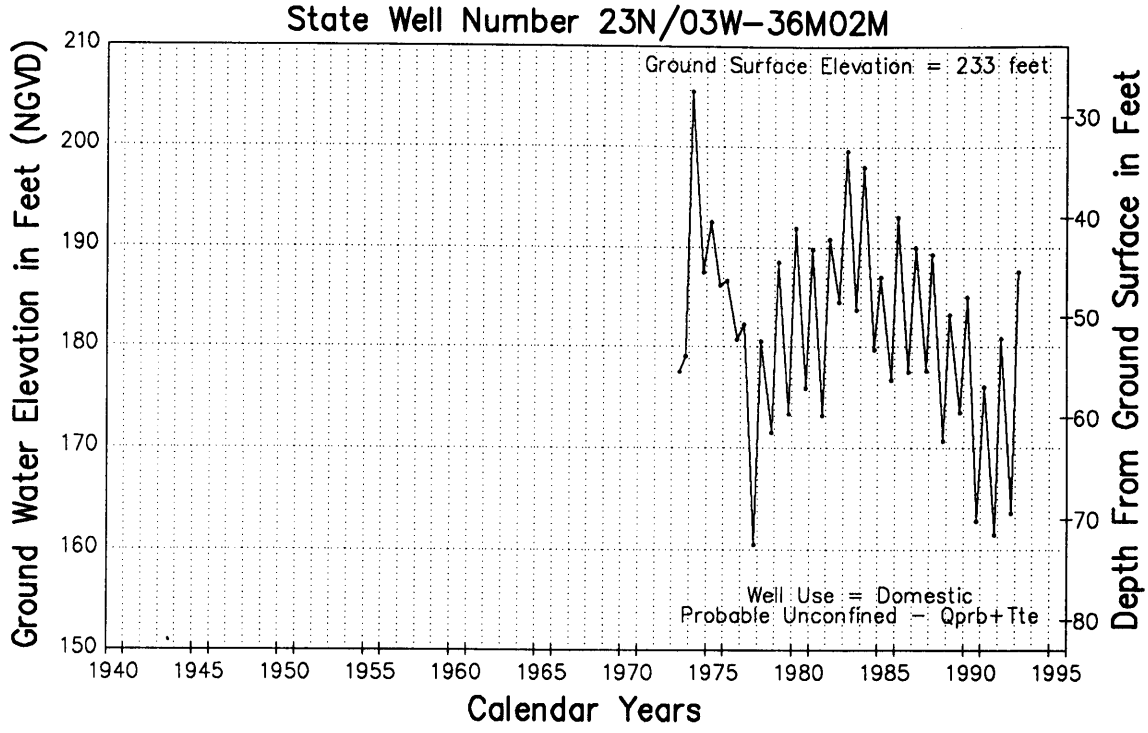

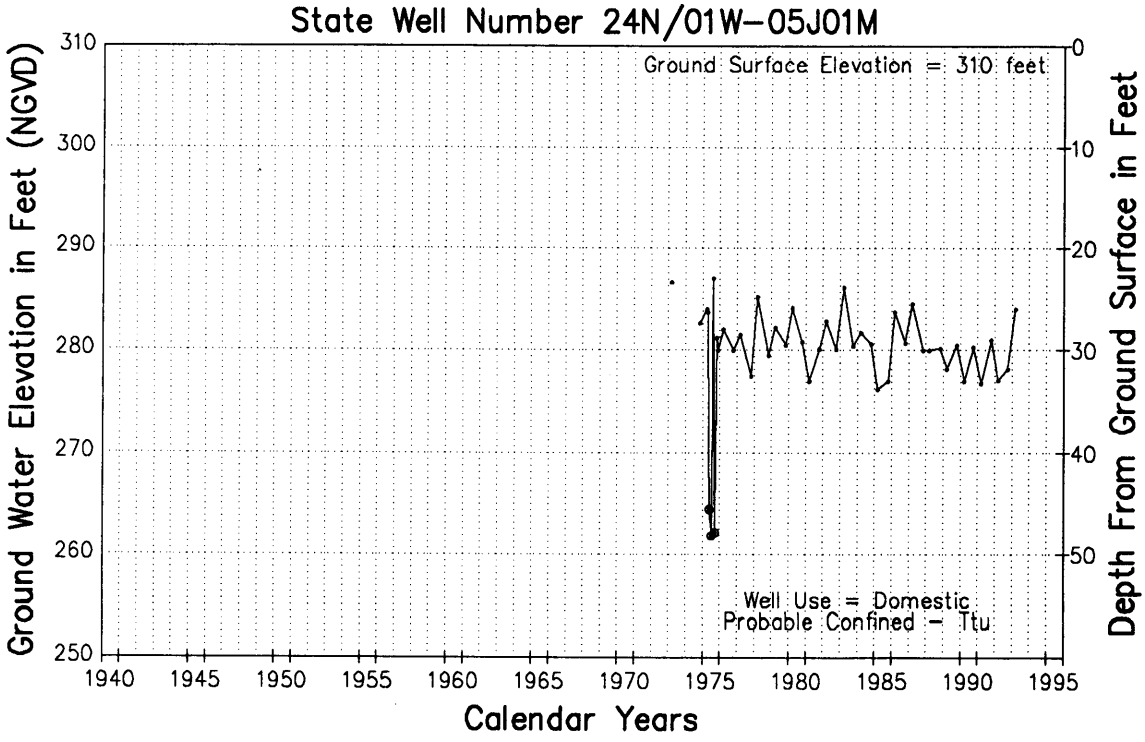

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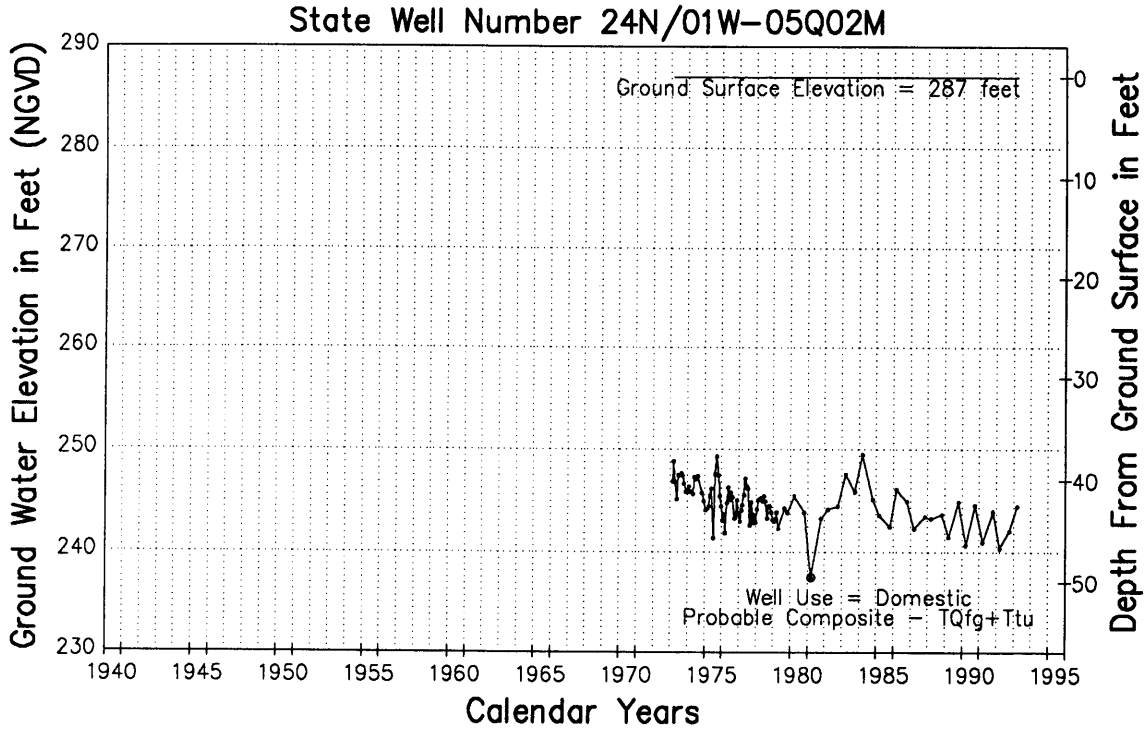

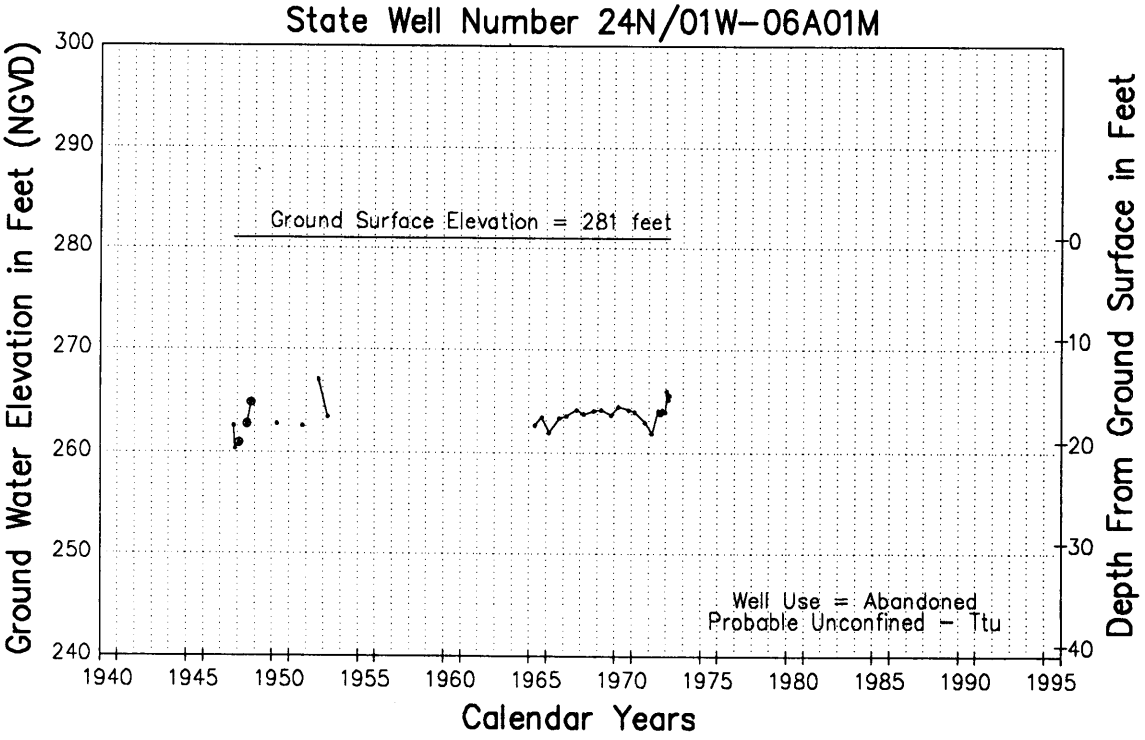

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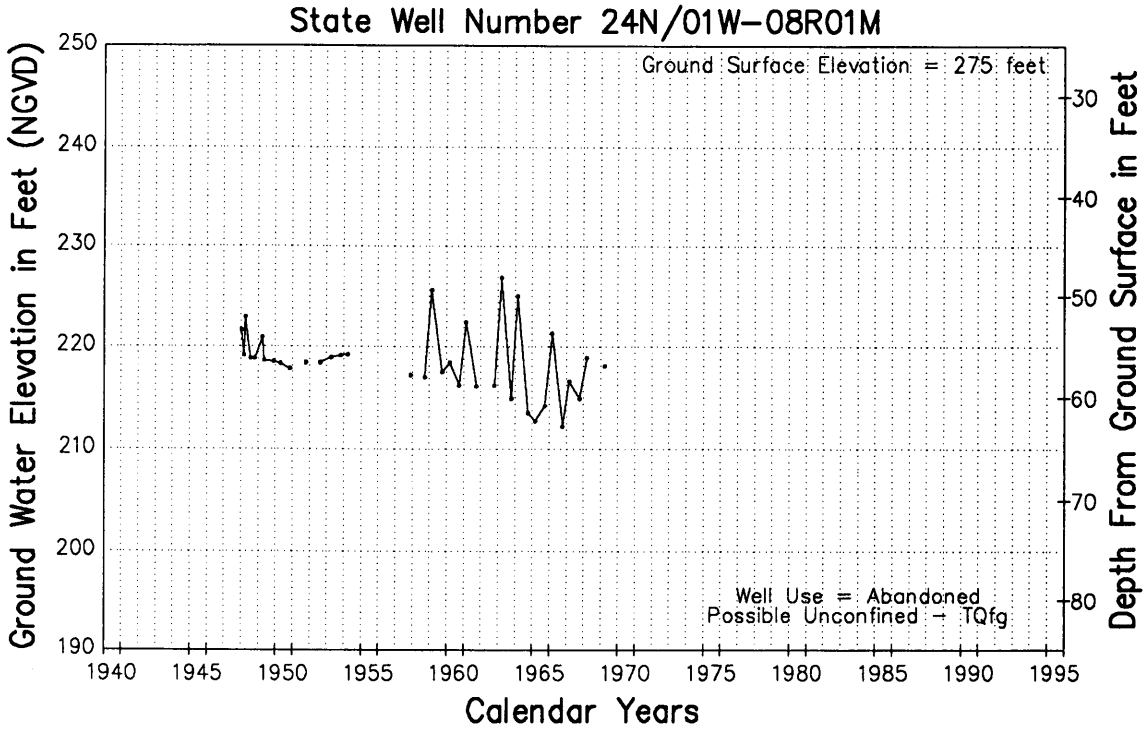

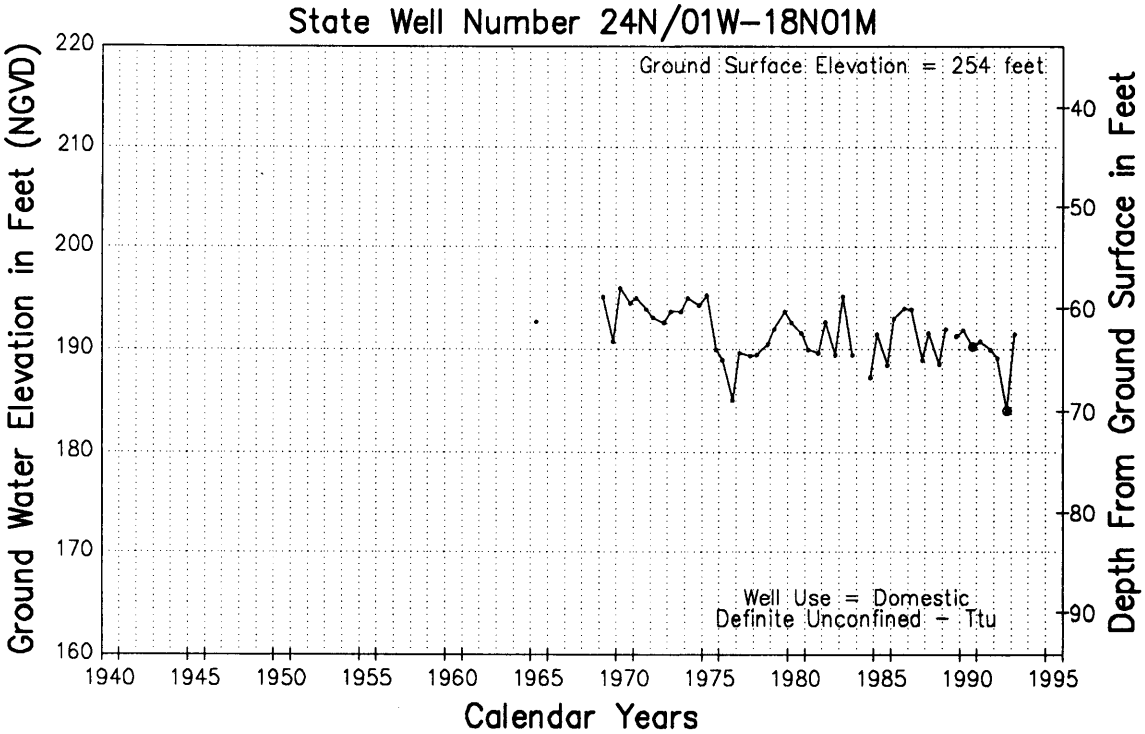

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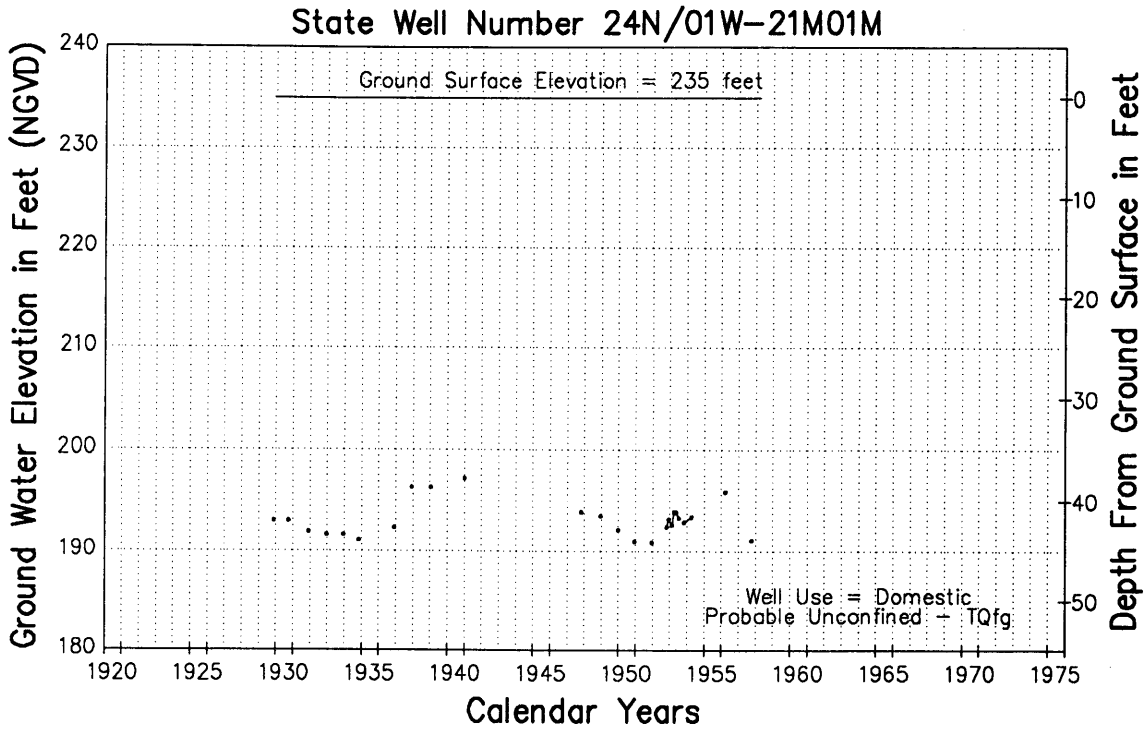

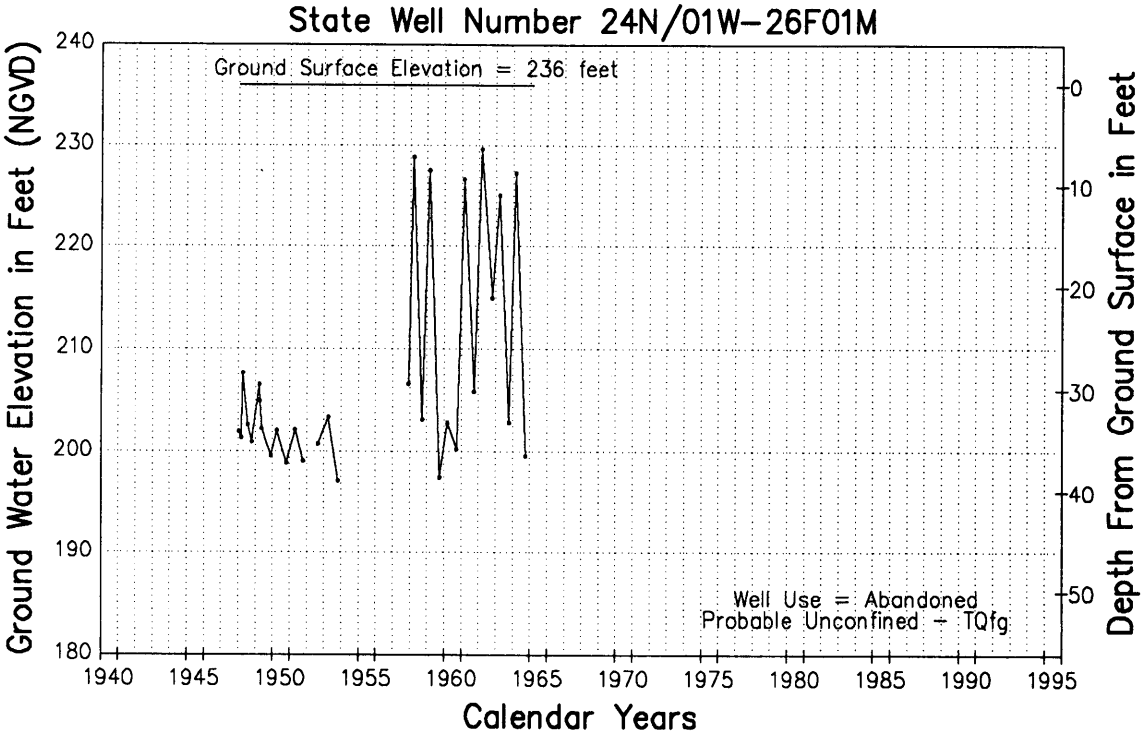

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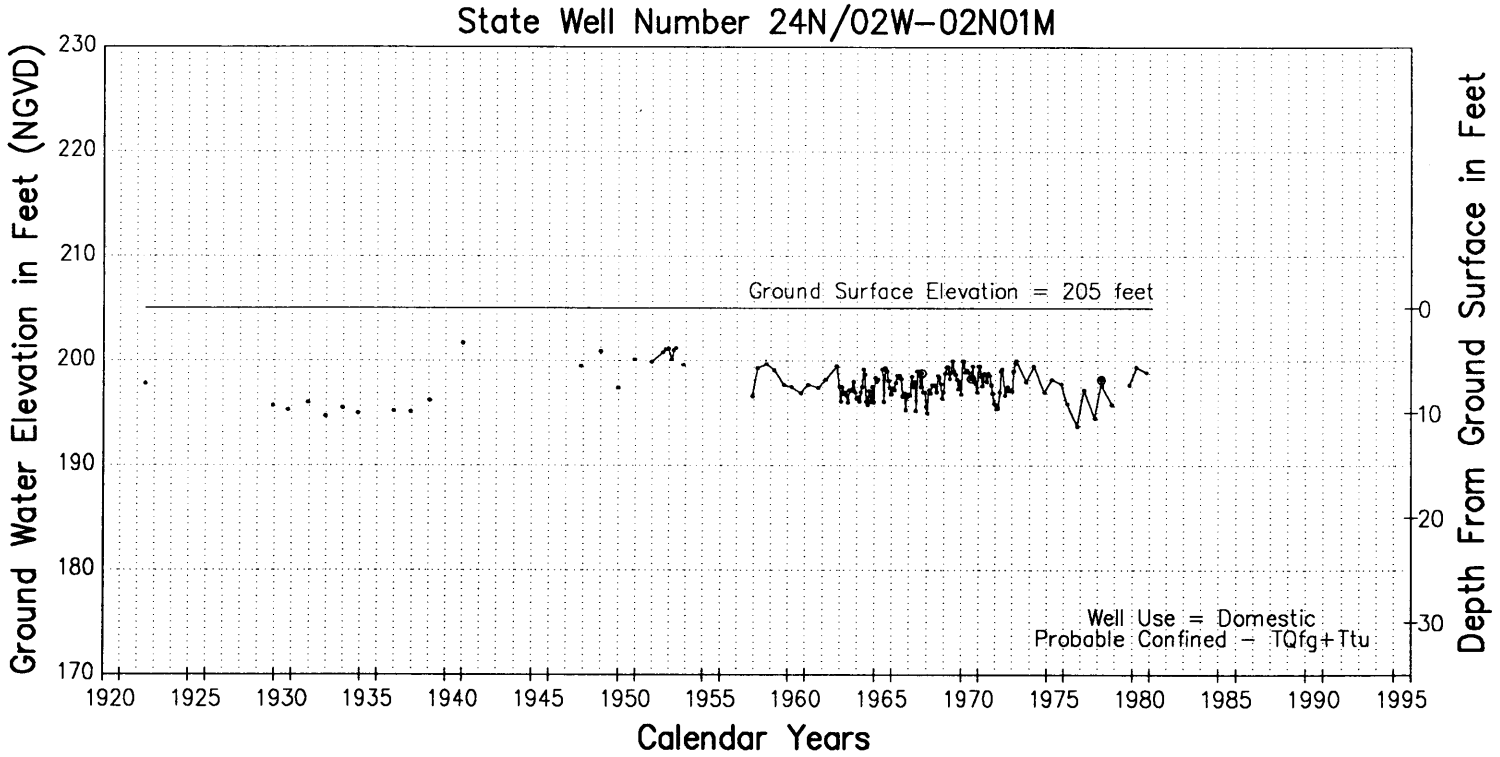

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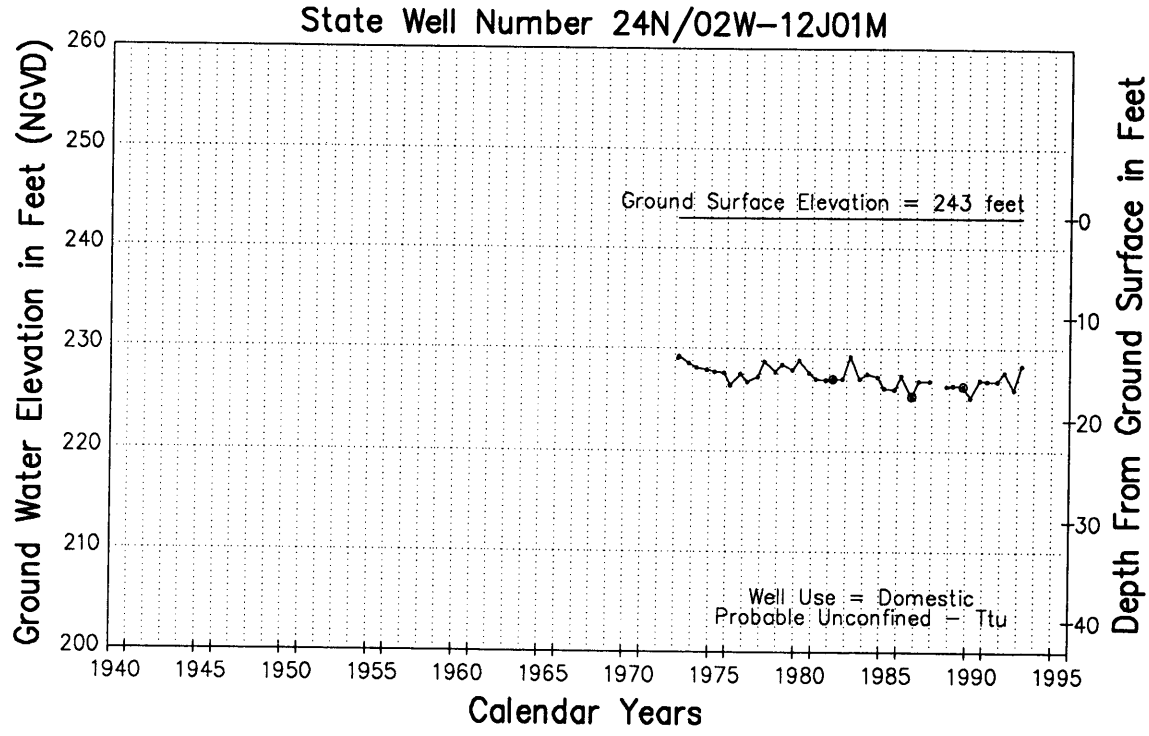

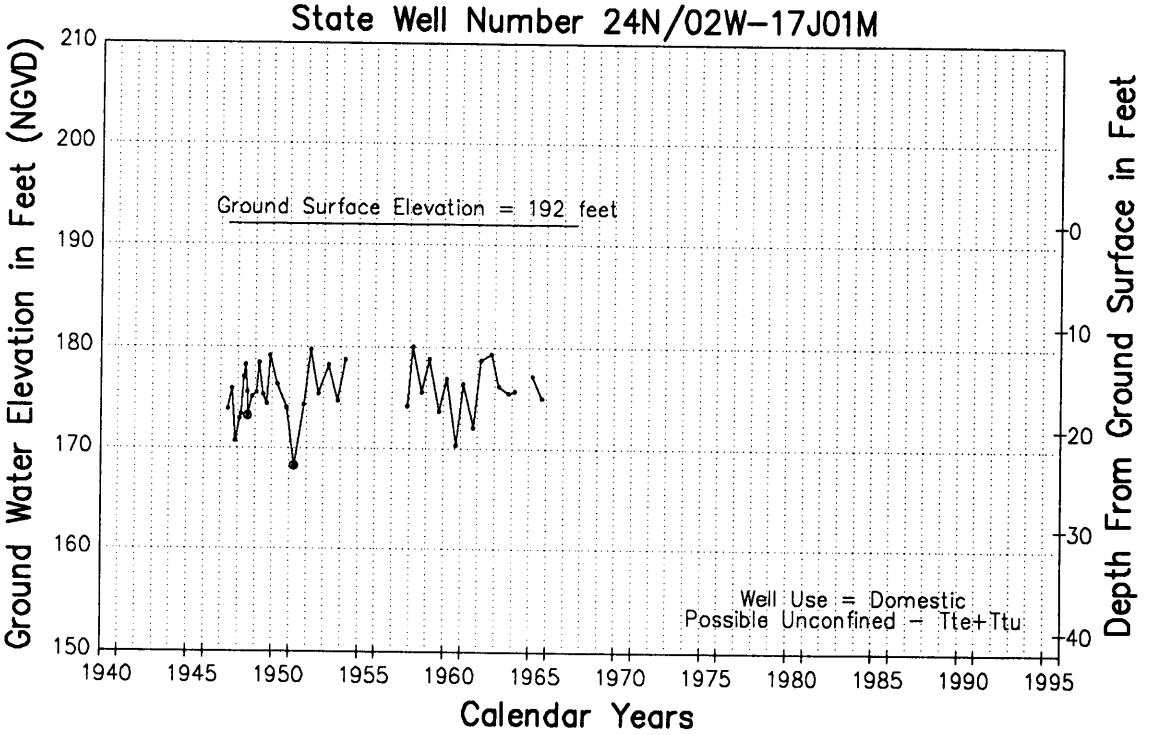

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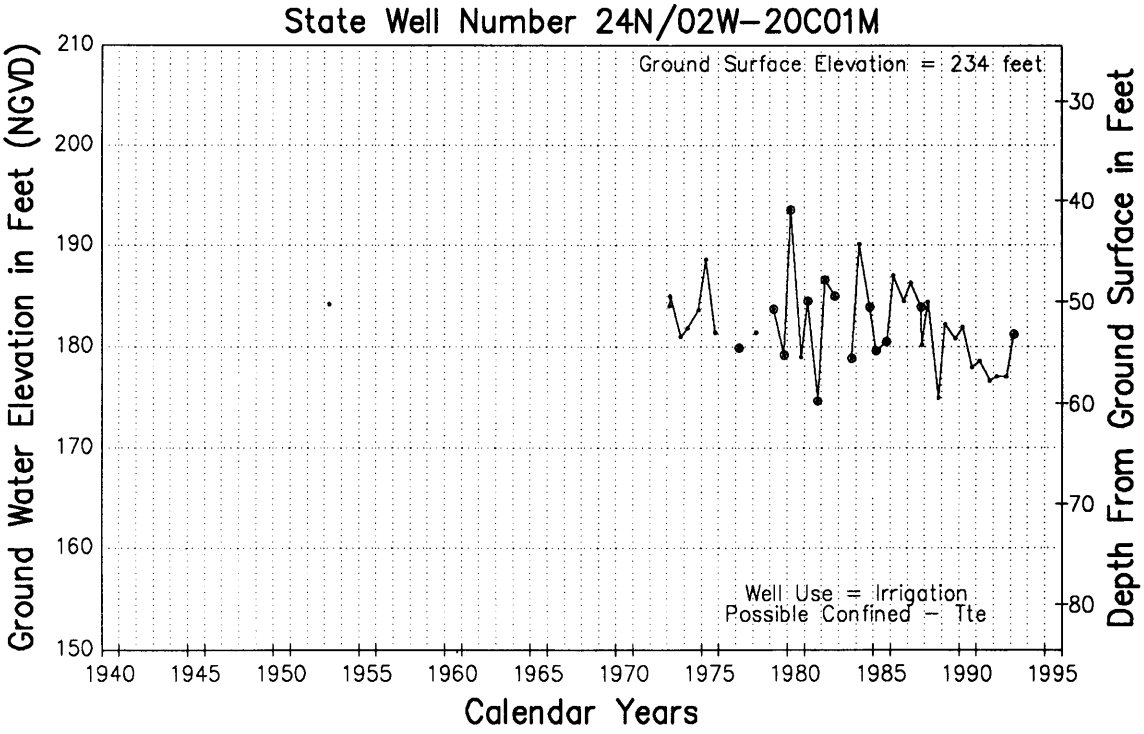

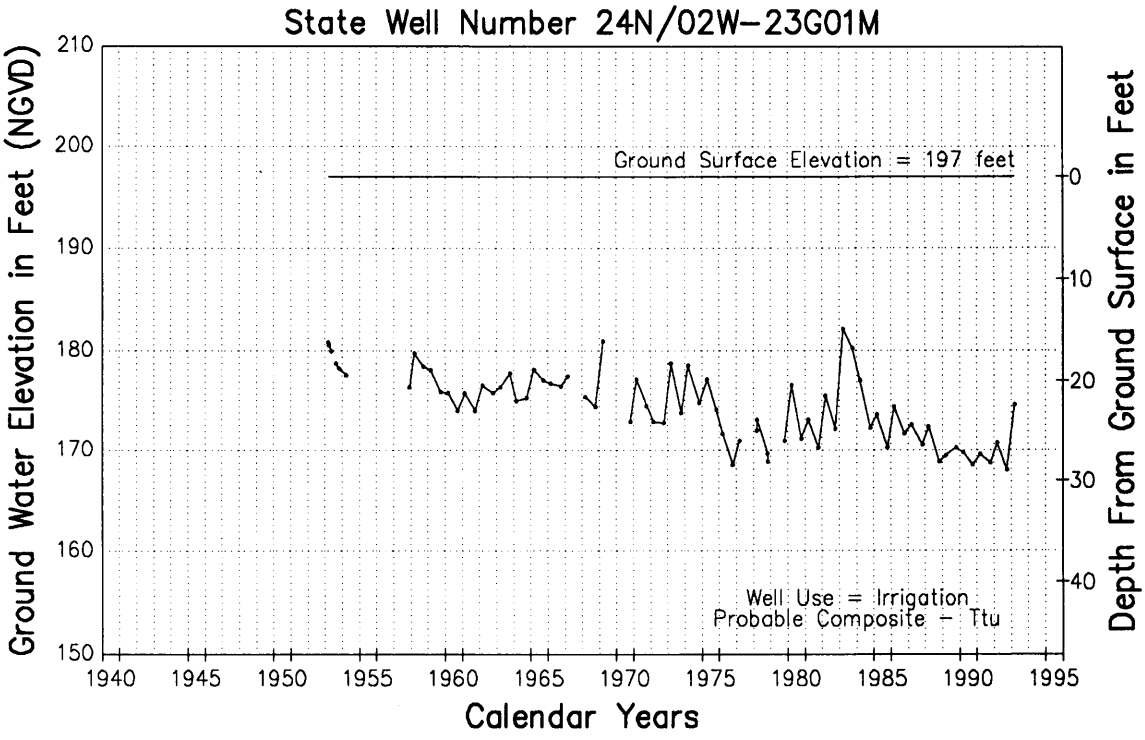

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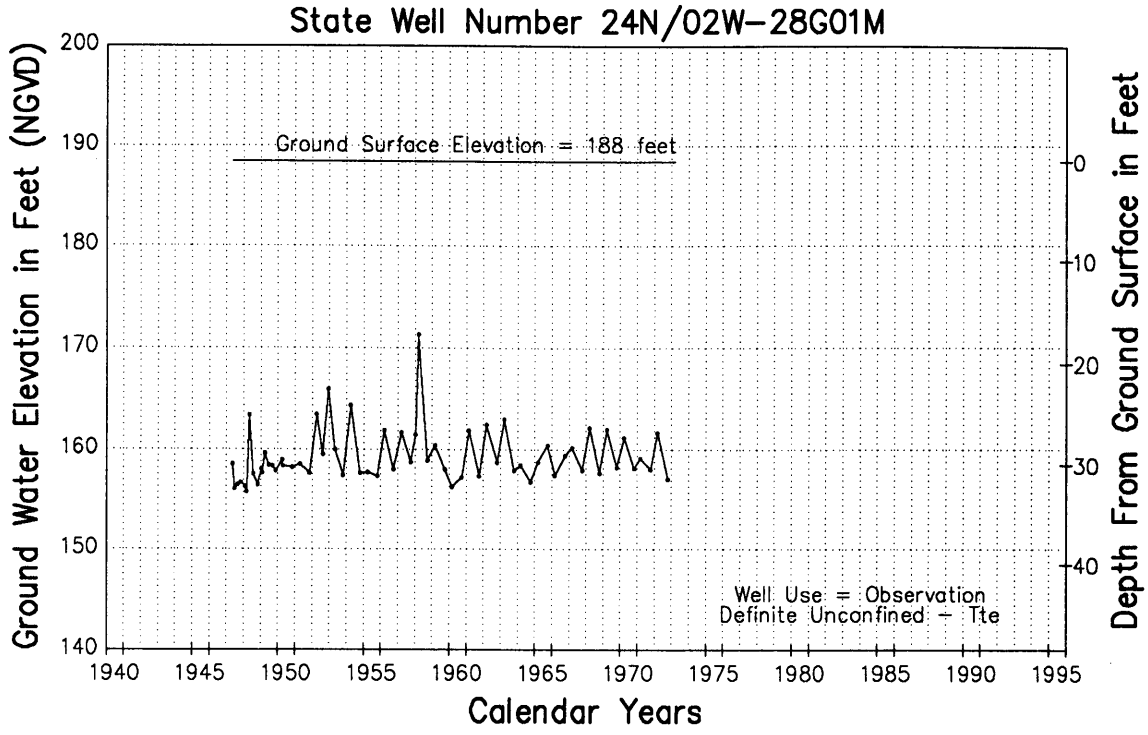
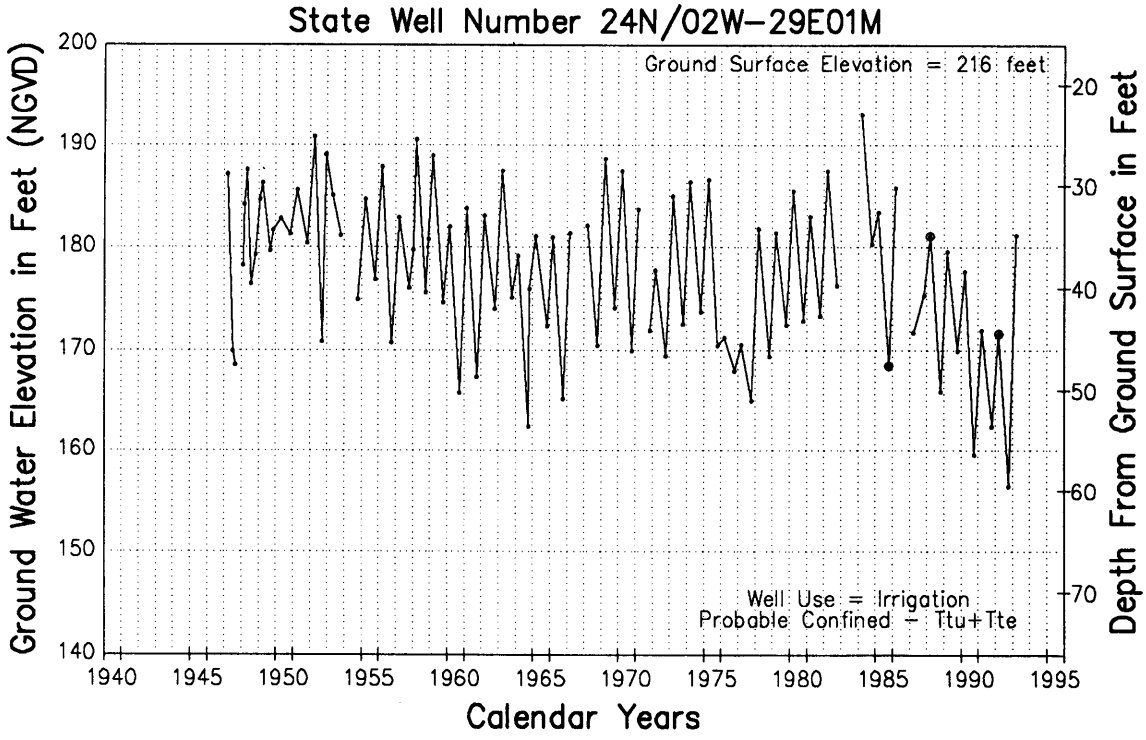
Sacramento Valley Ground Water Basin
Tehama County

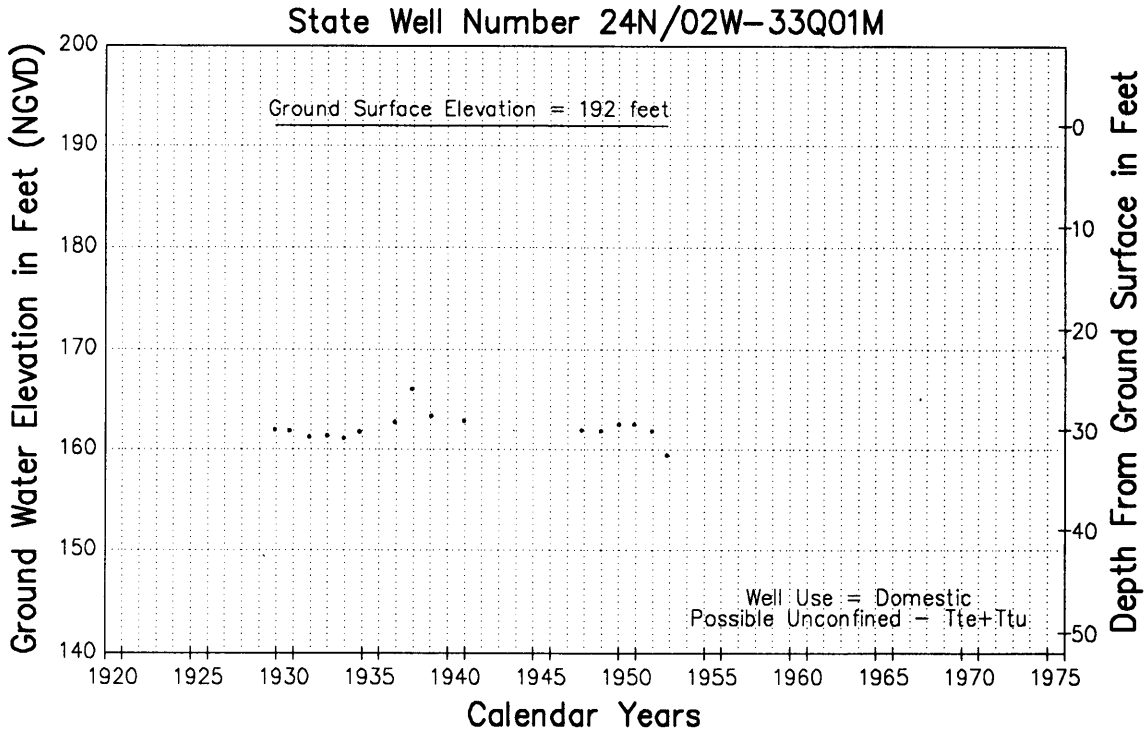




·····Water surface elevation in well ••••• Questionable measurement

Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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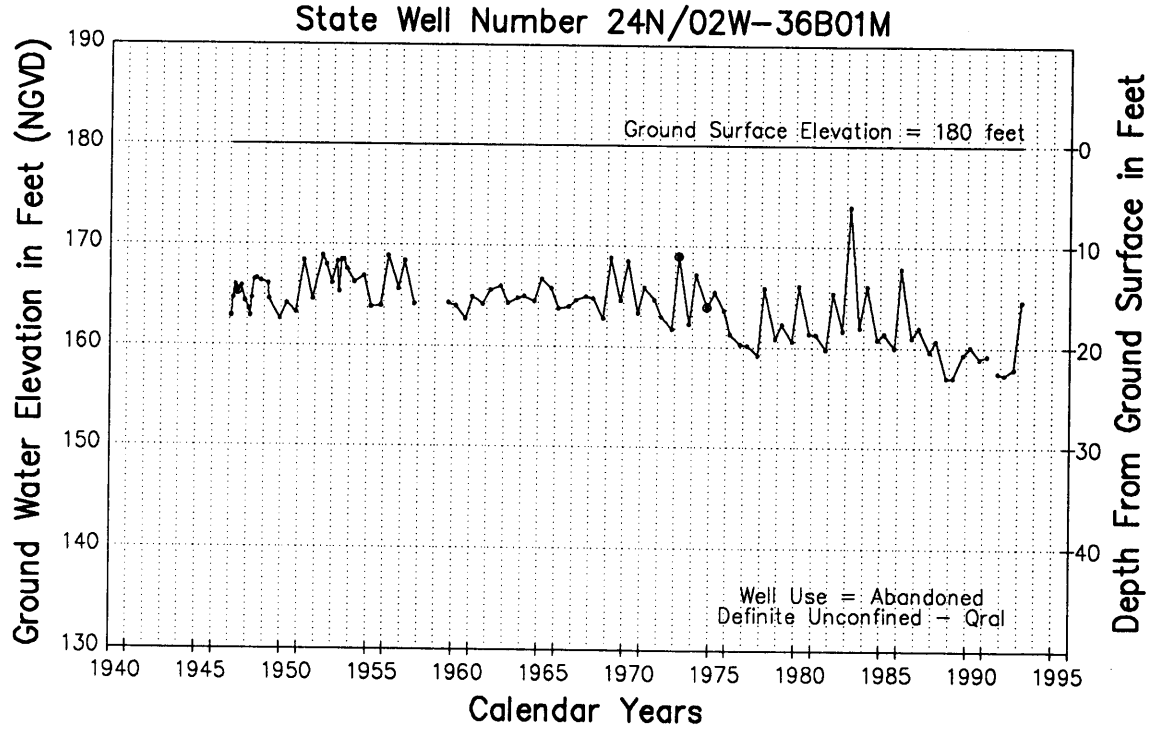
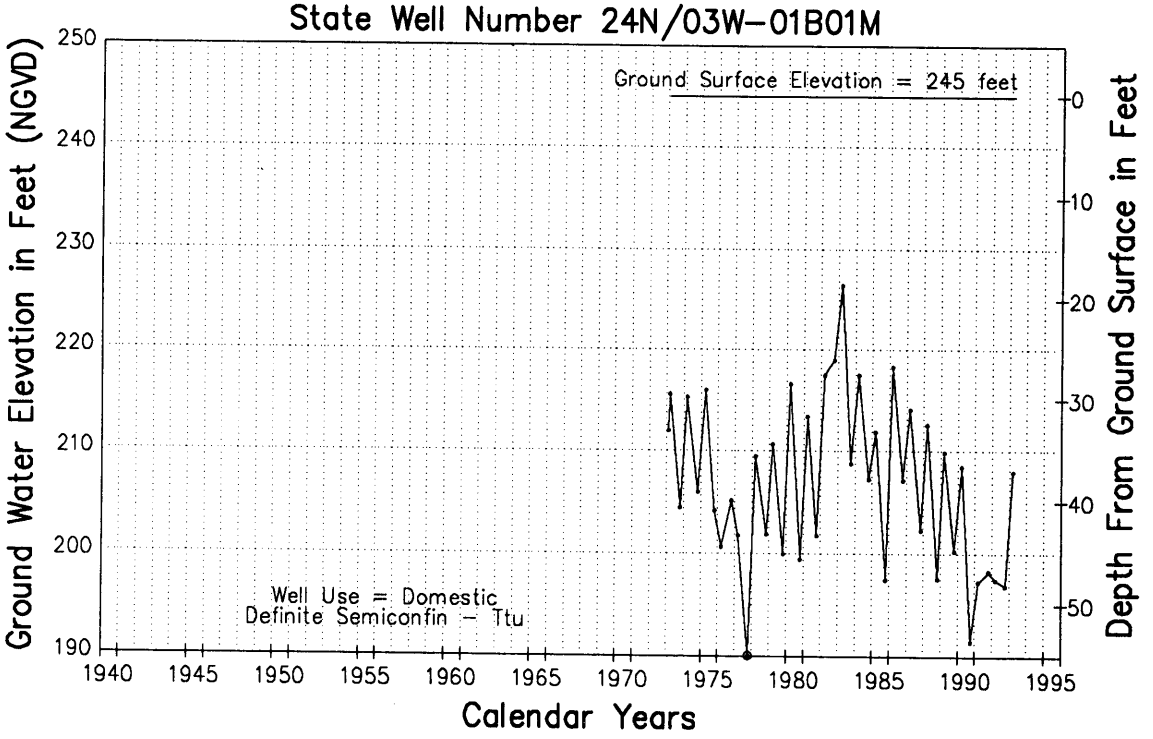
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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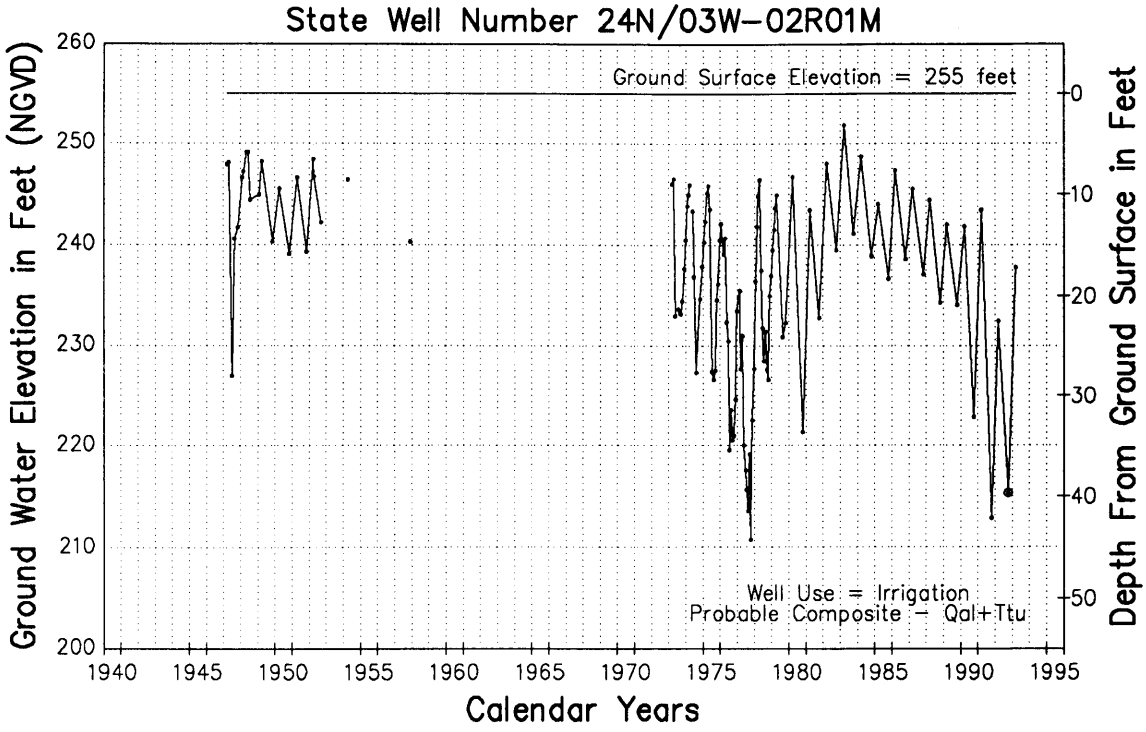
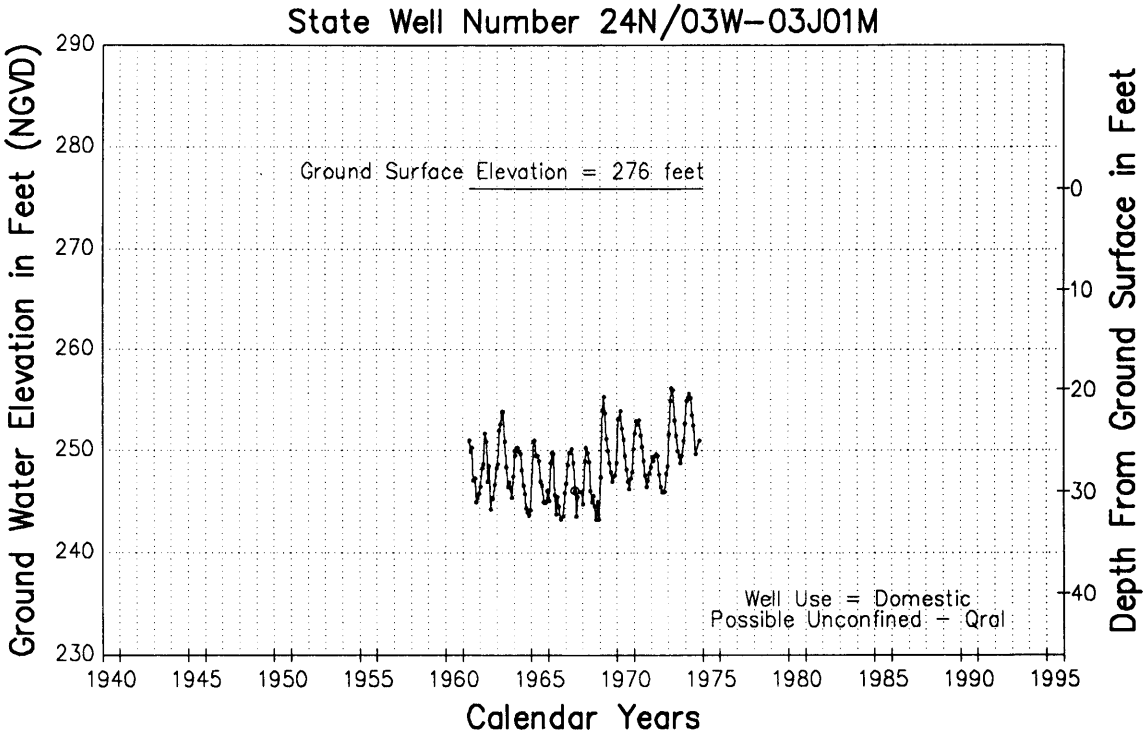
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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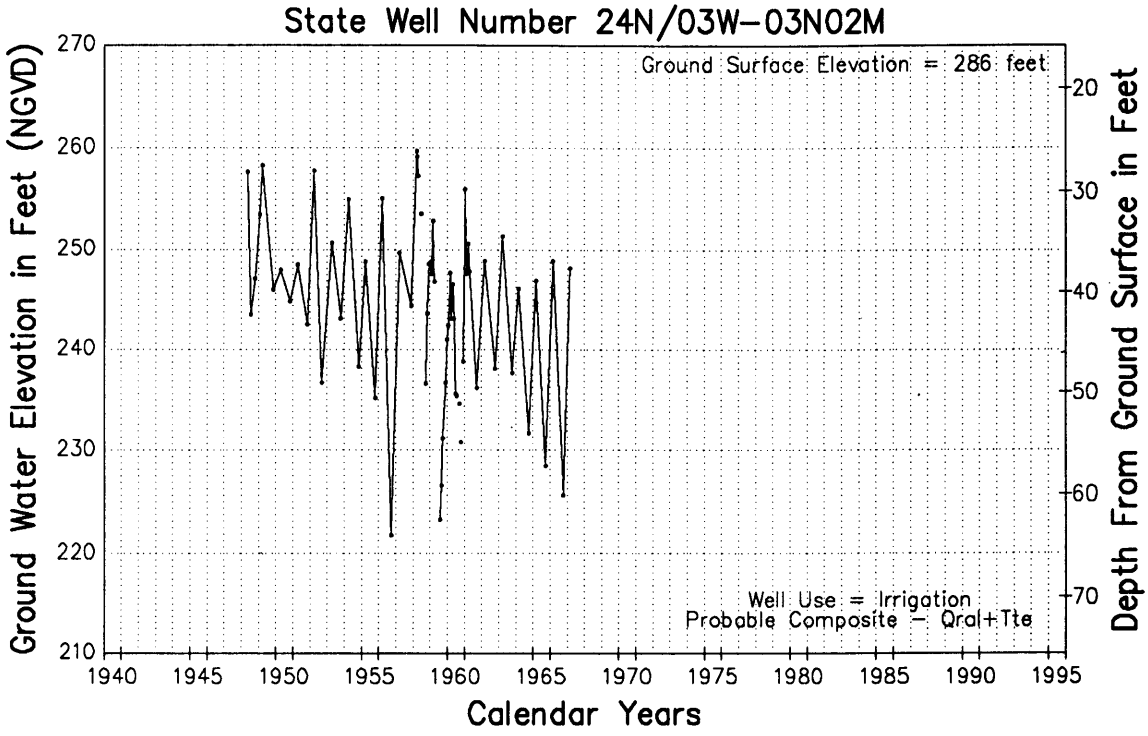
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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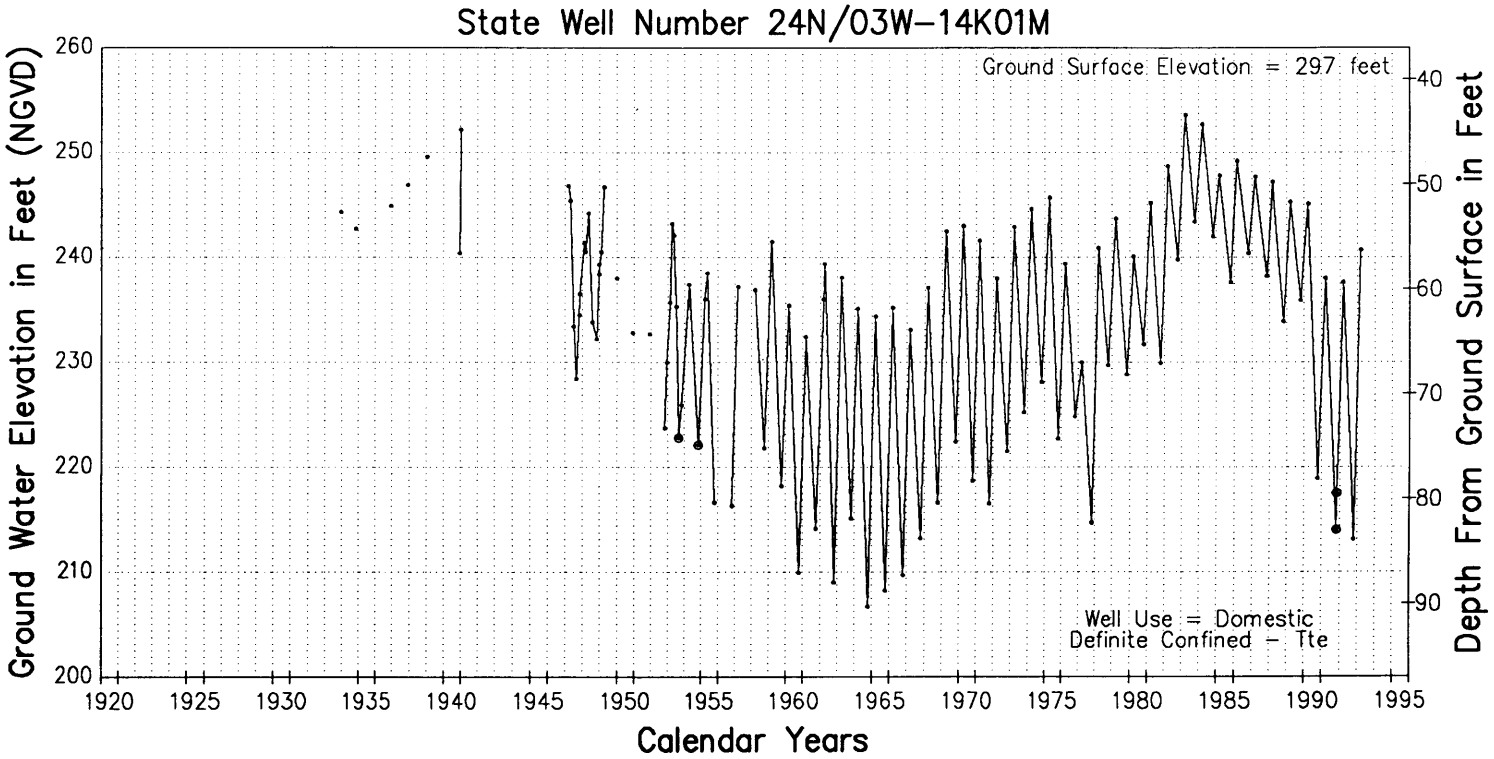
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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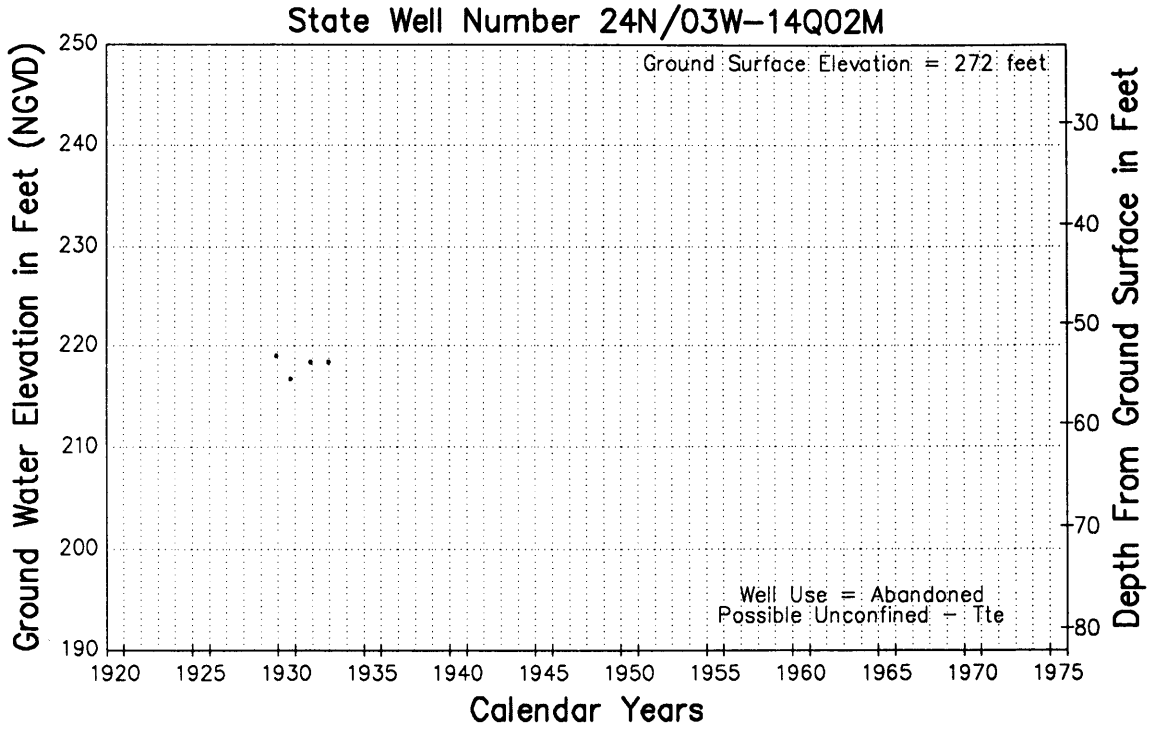
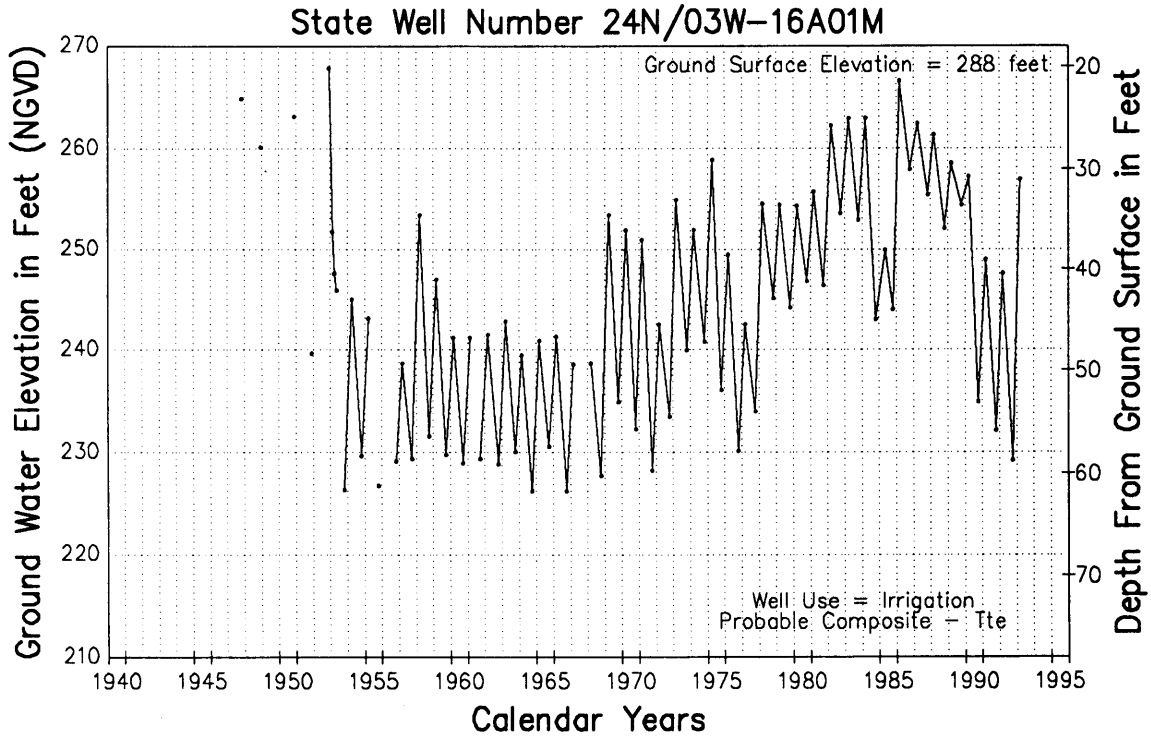
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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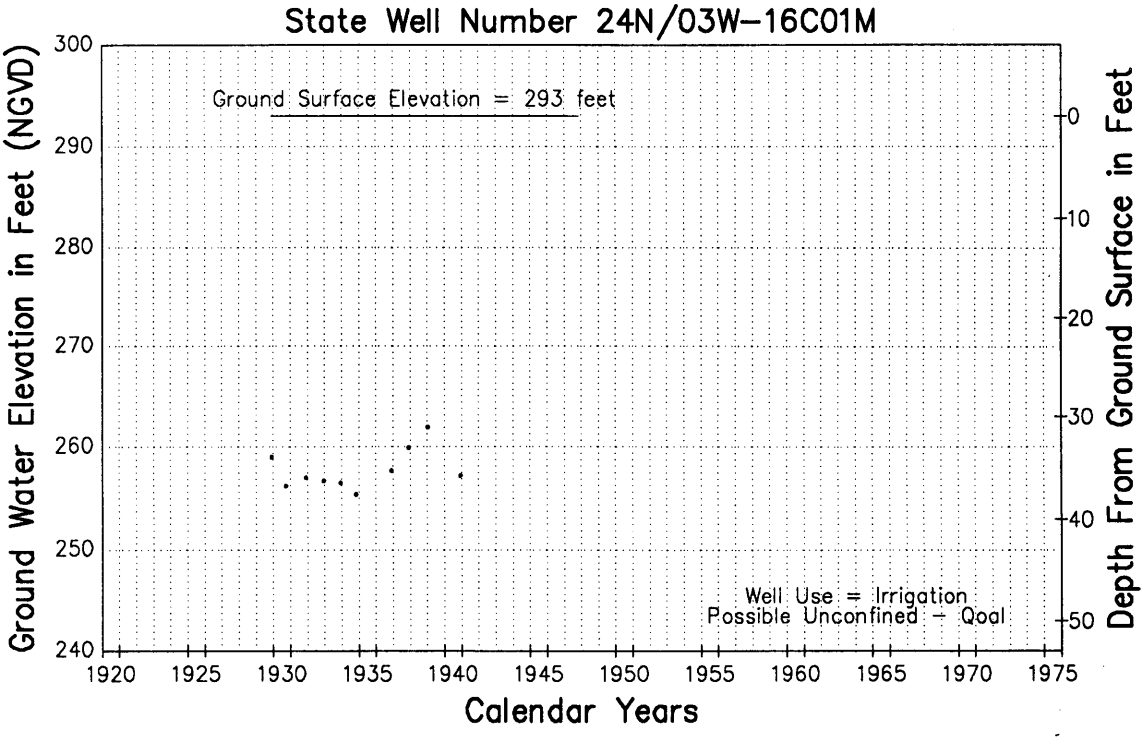
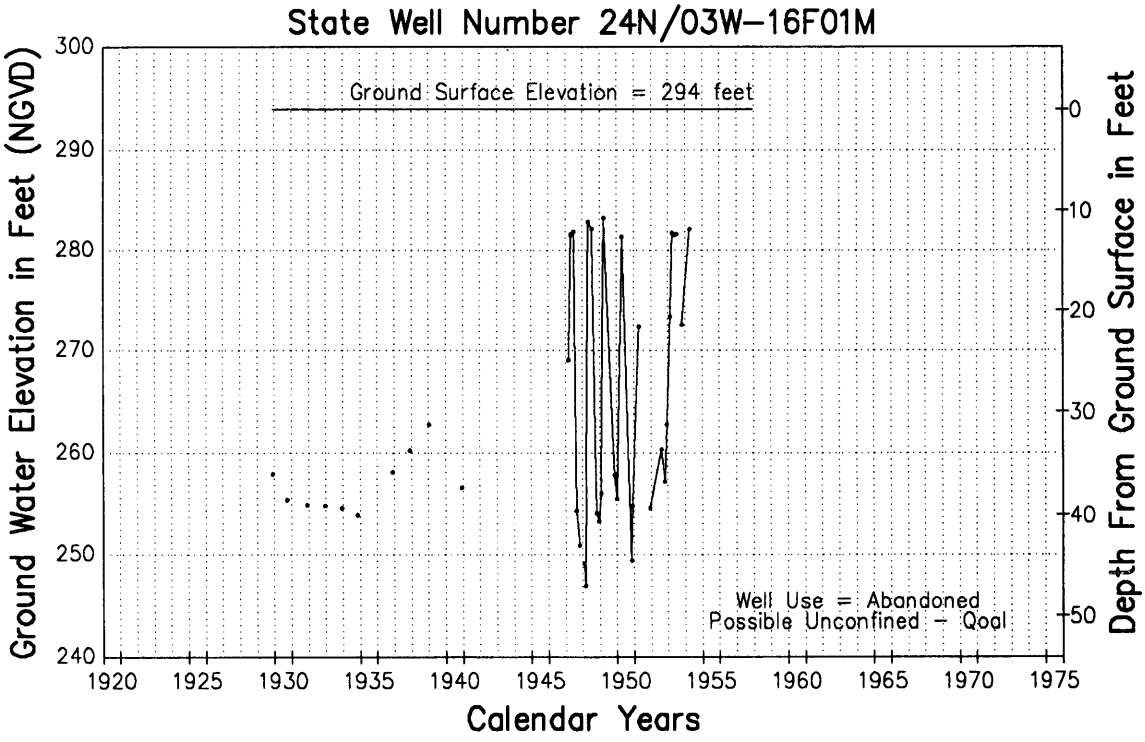
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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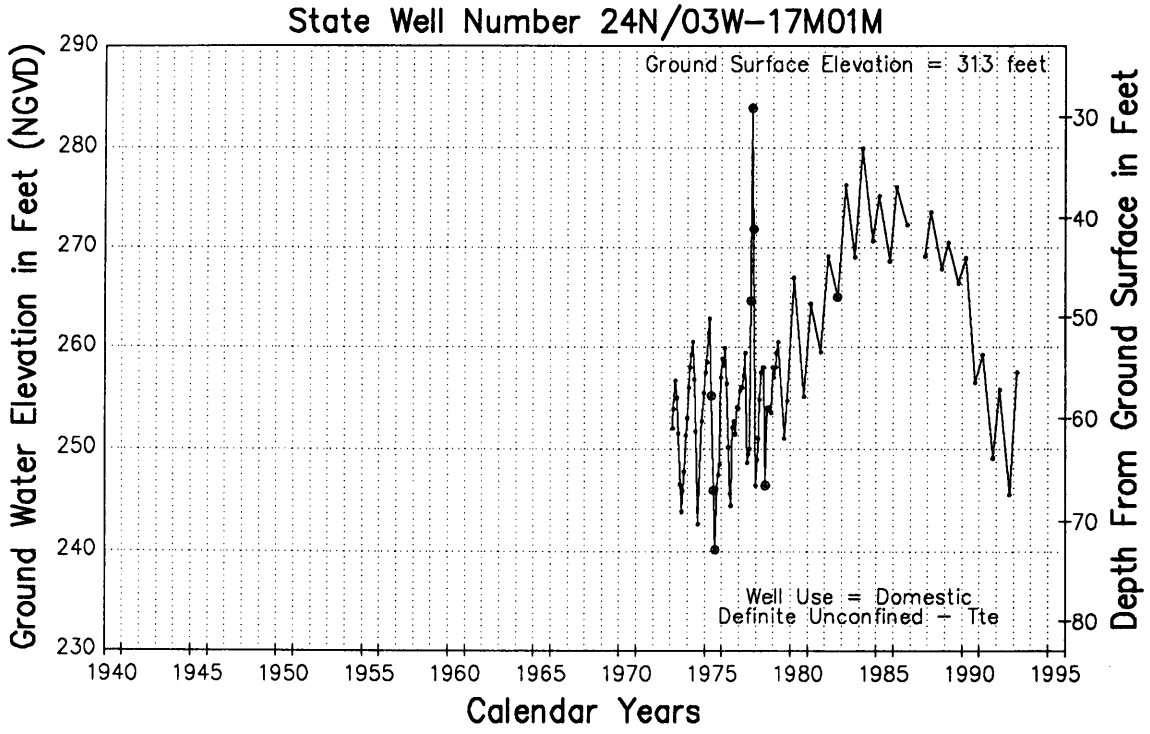
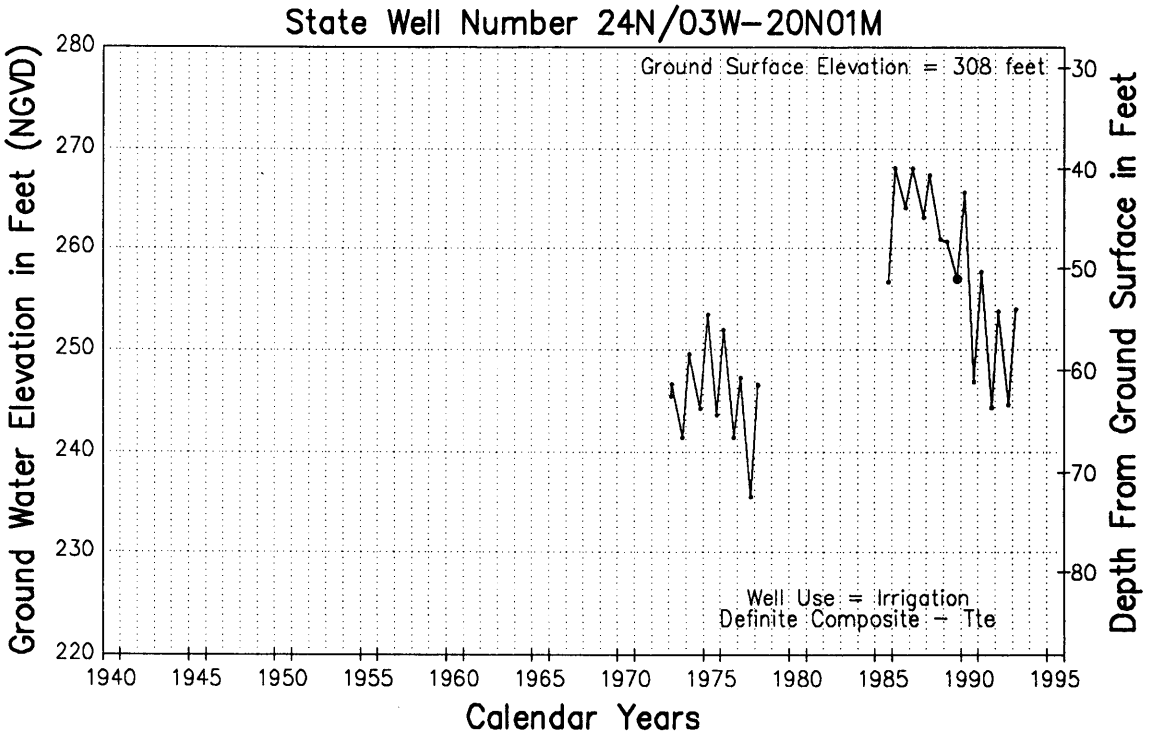
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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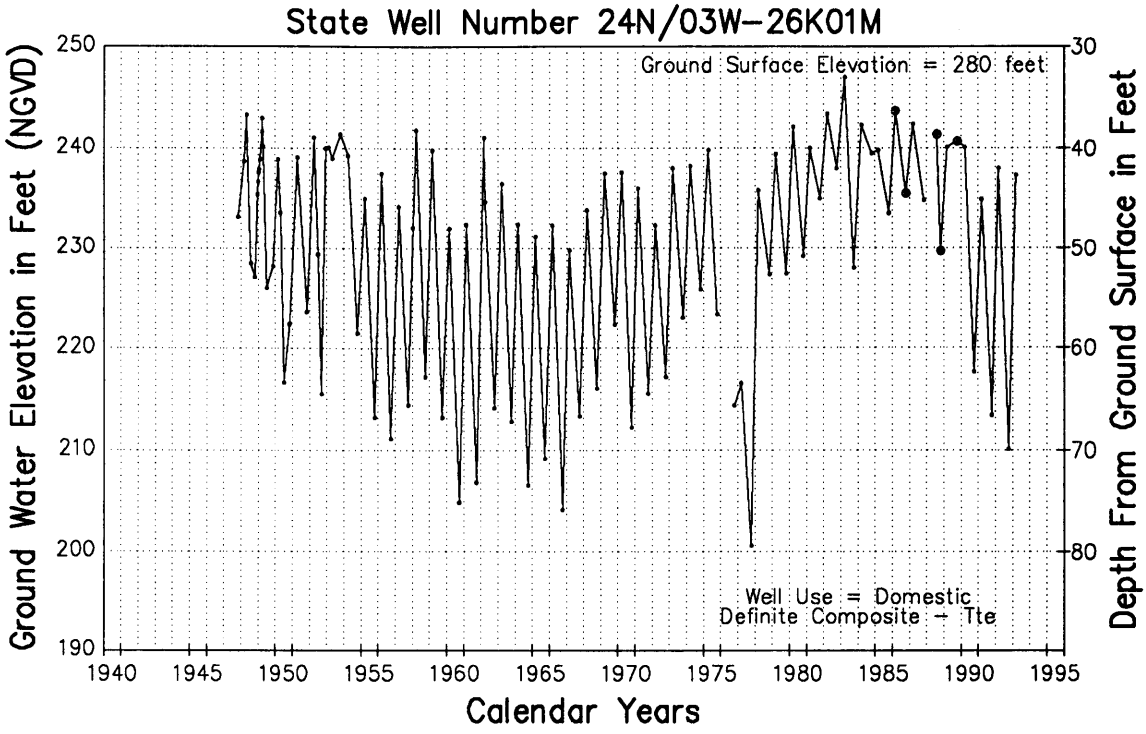
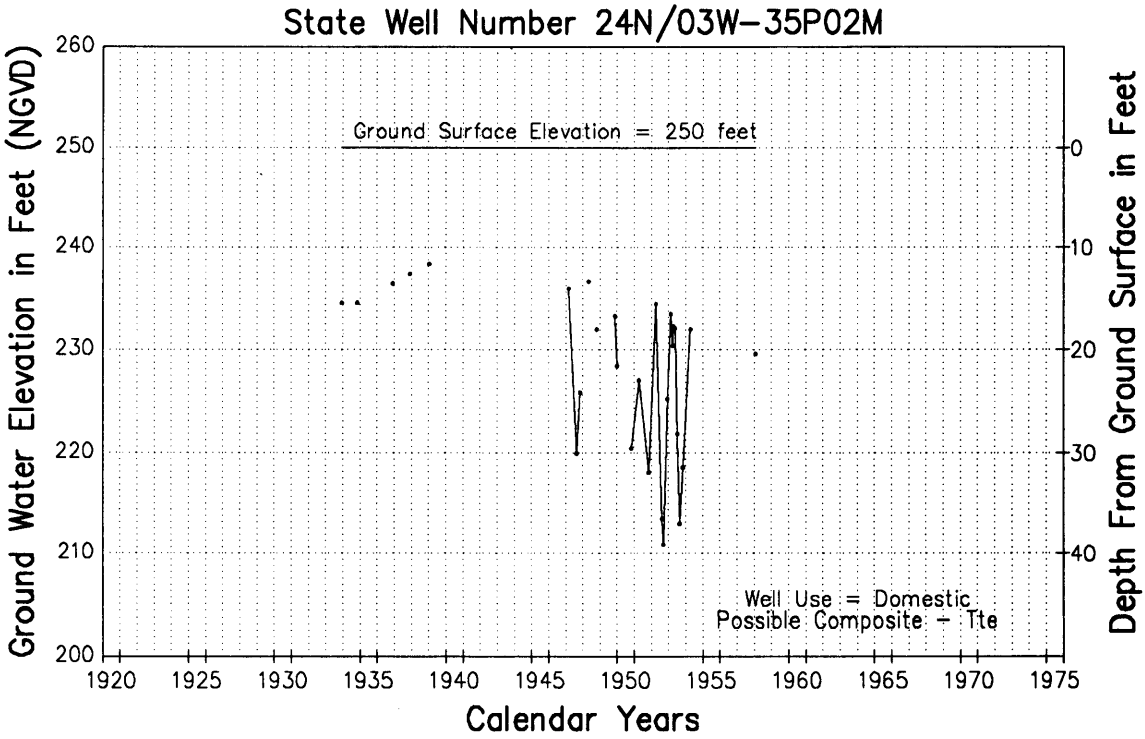
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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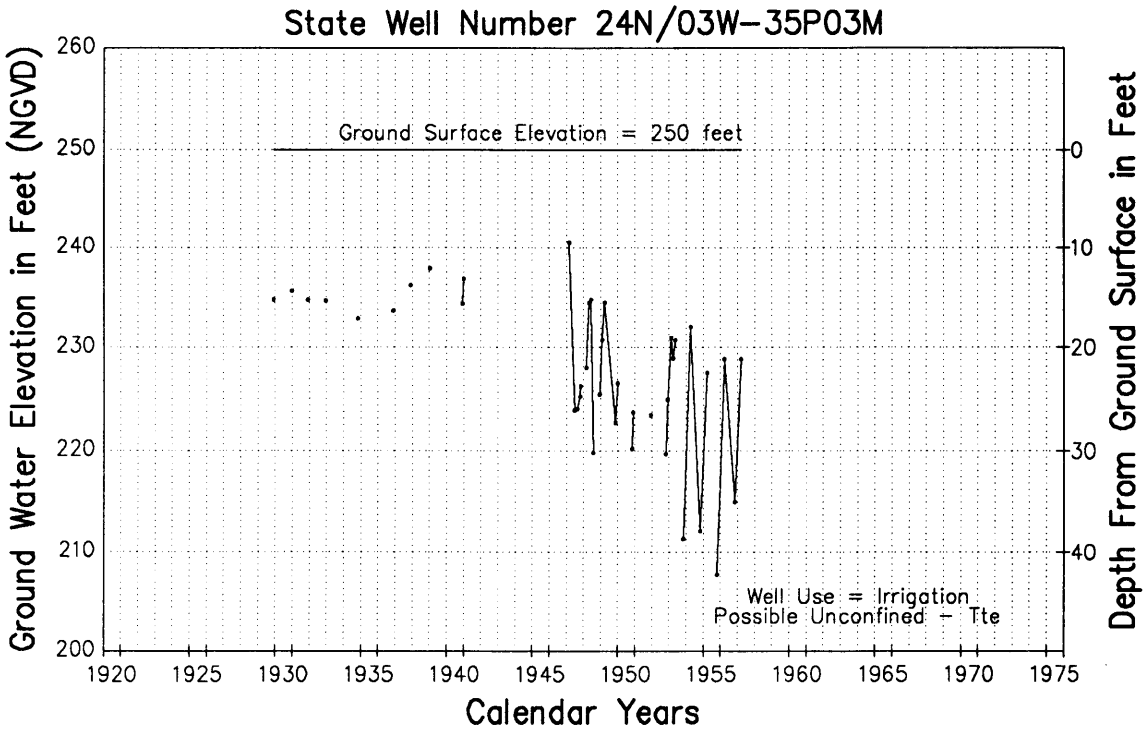
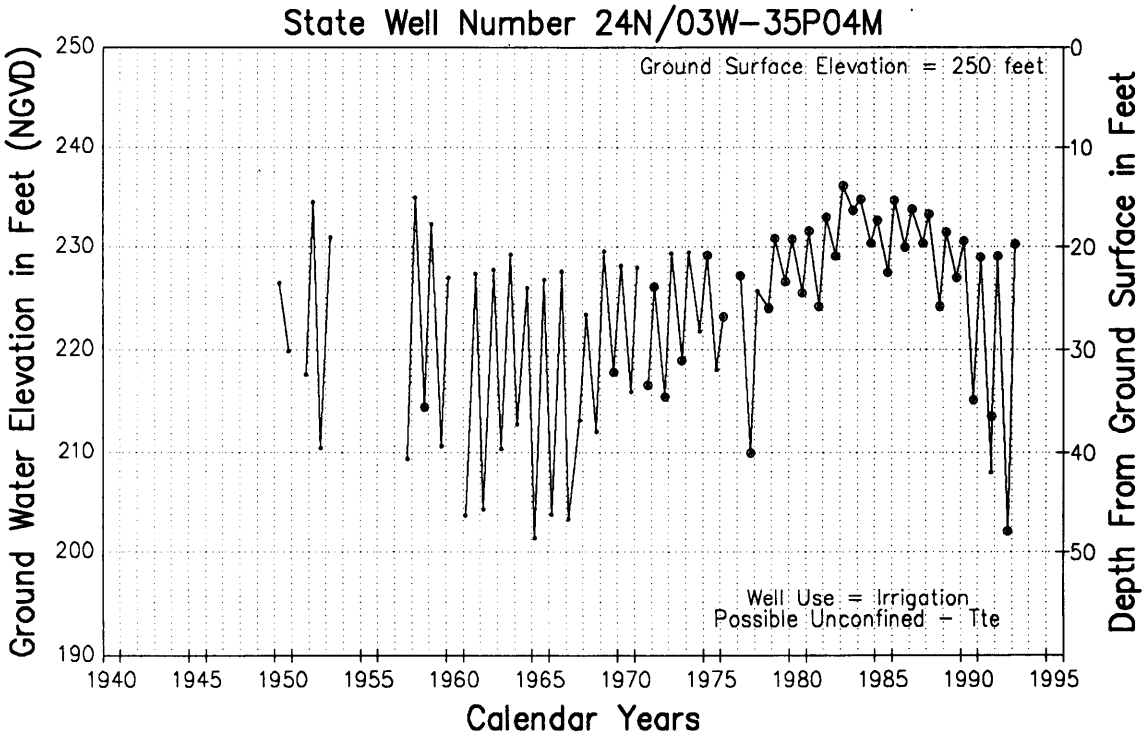
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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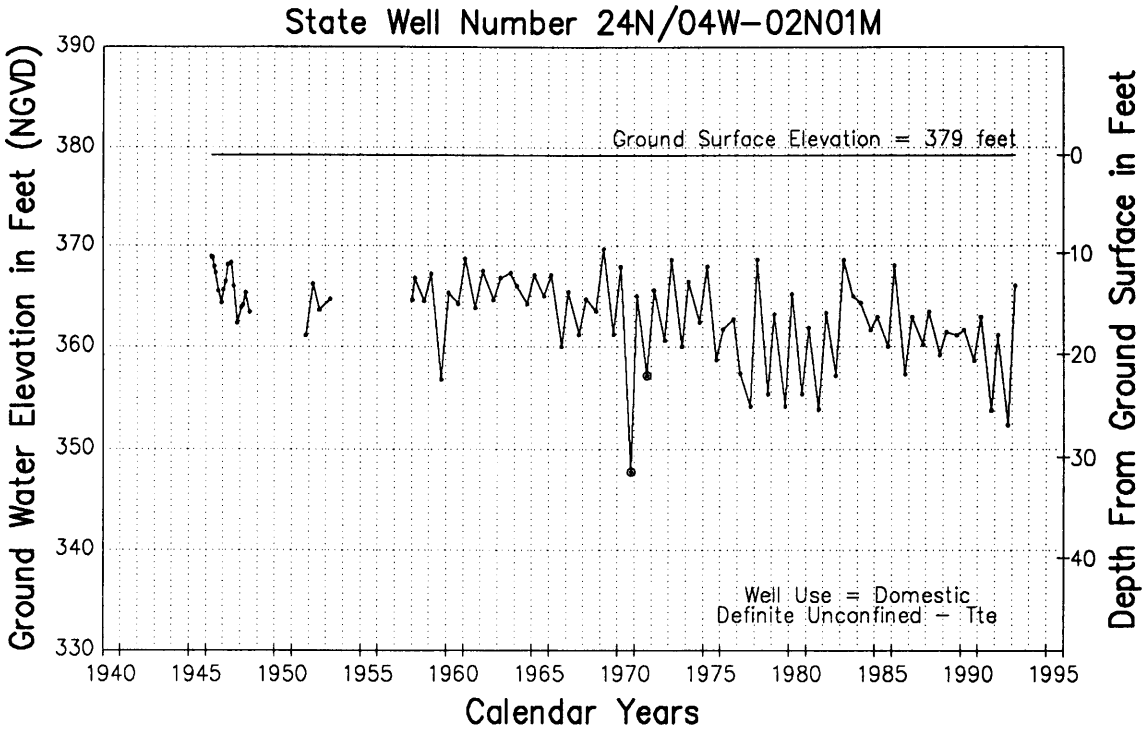
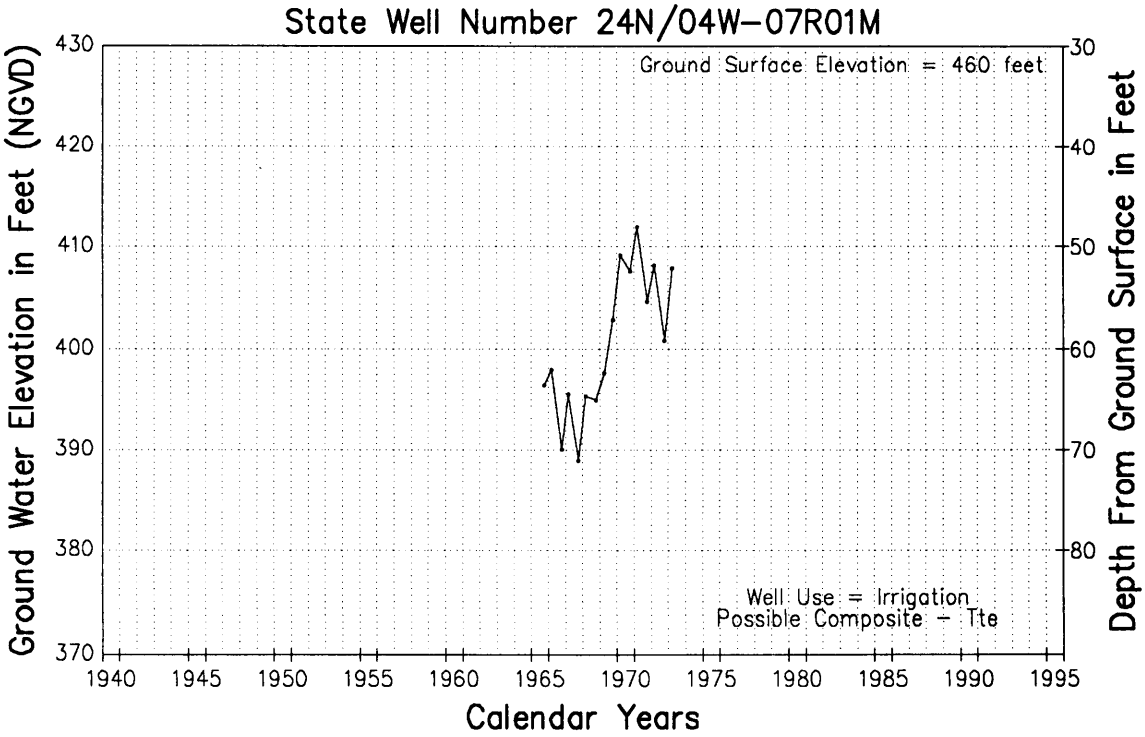
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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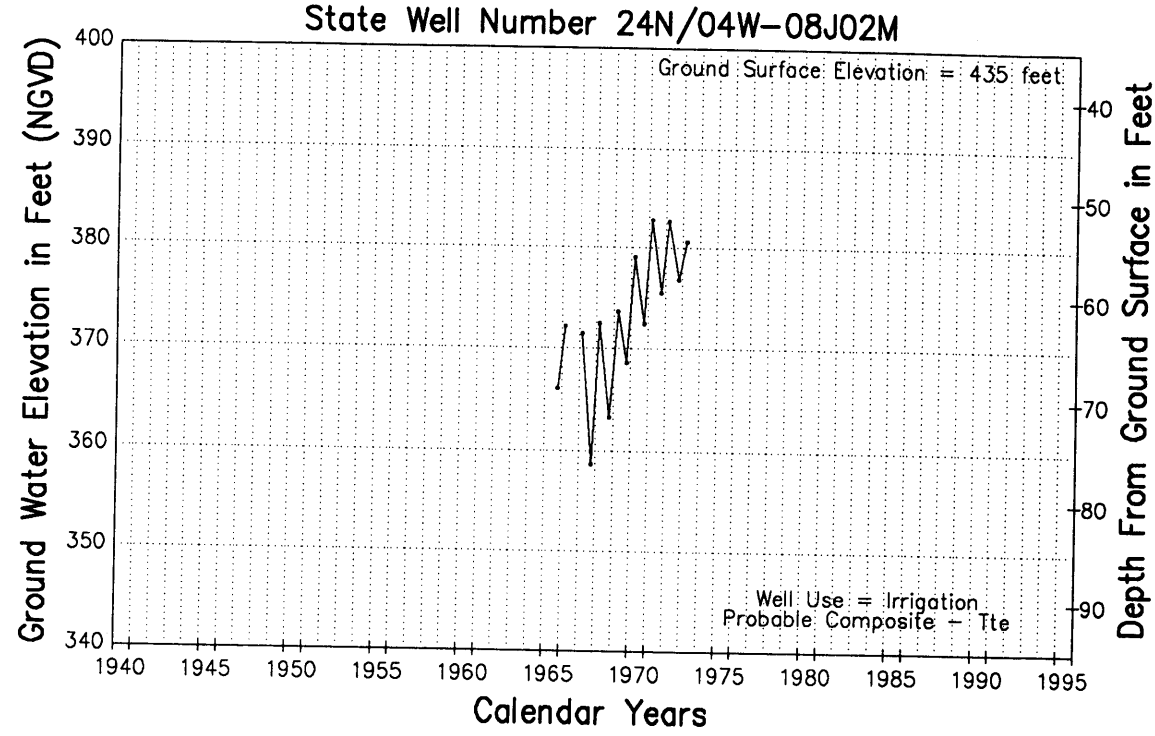
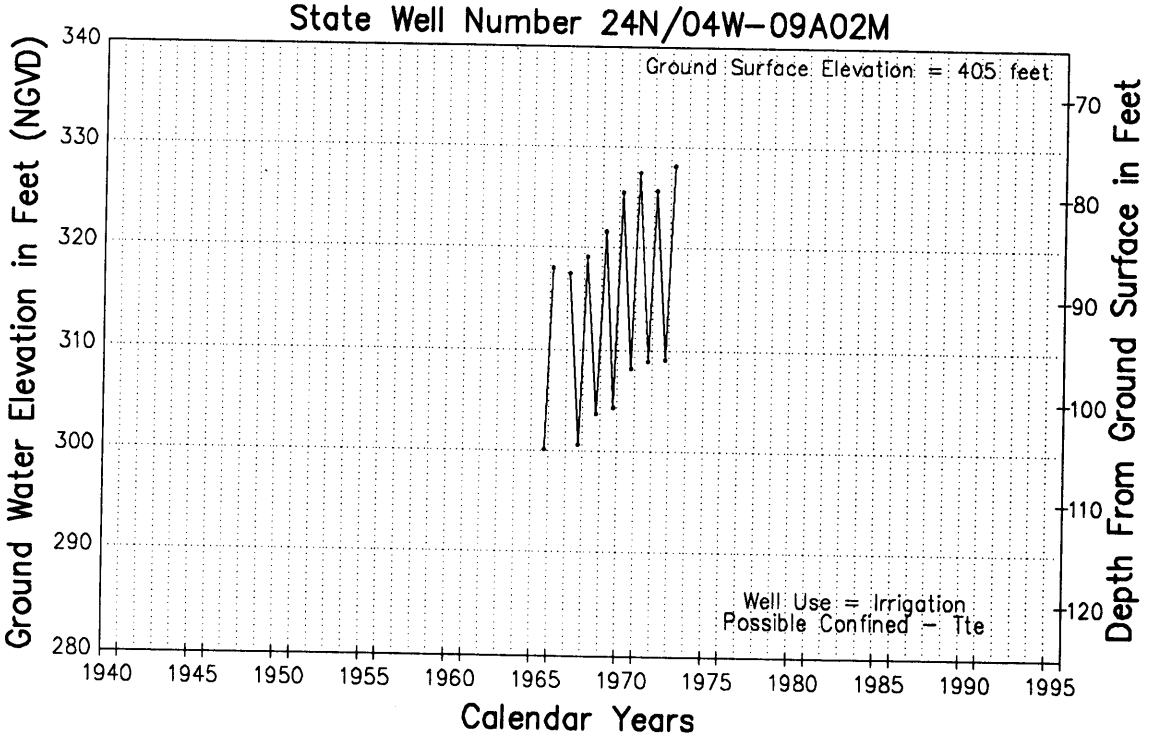
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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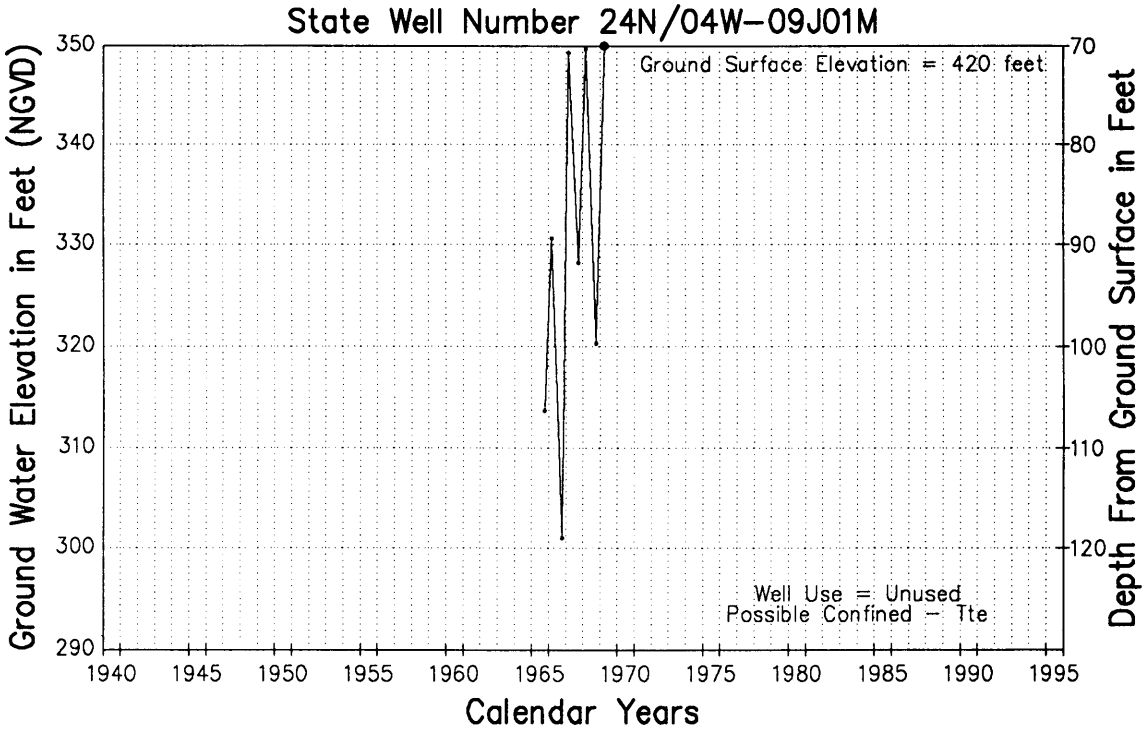
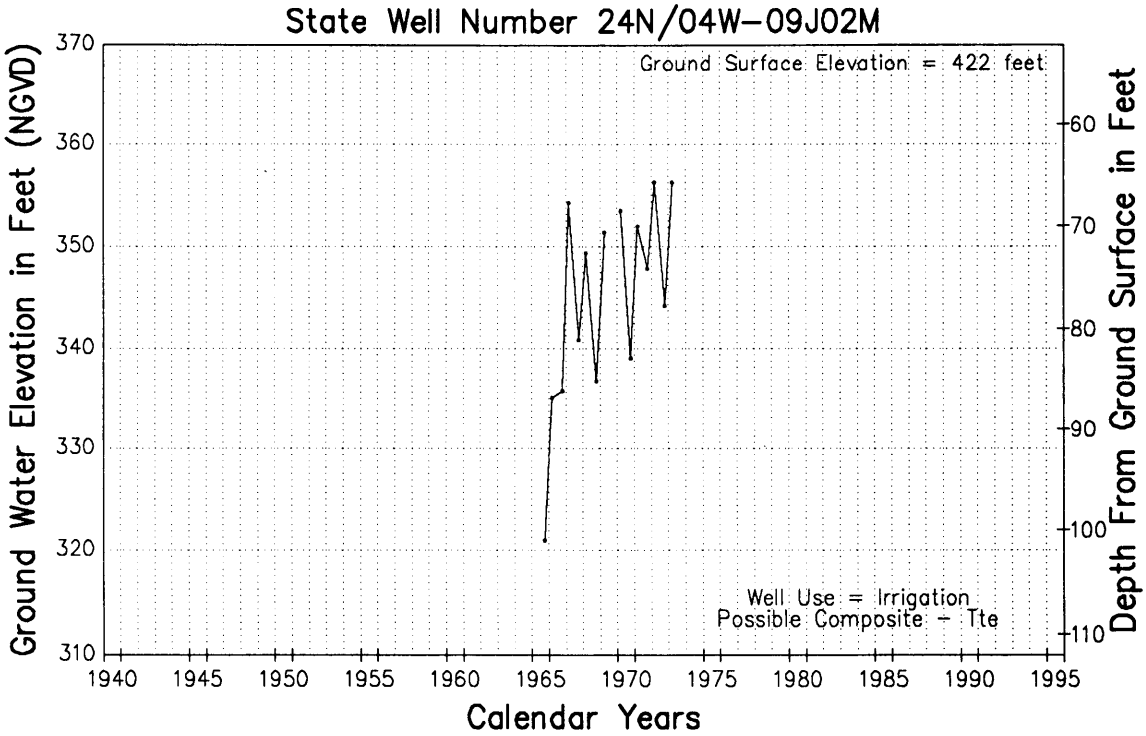
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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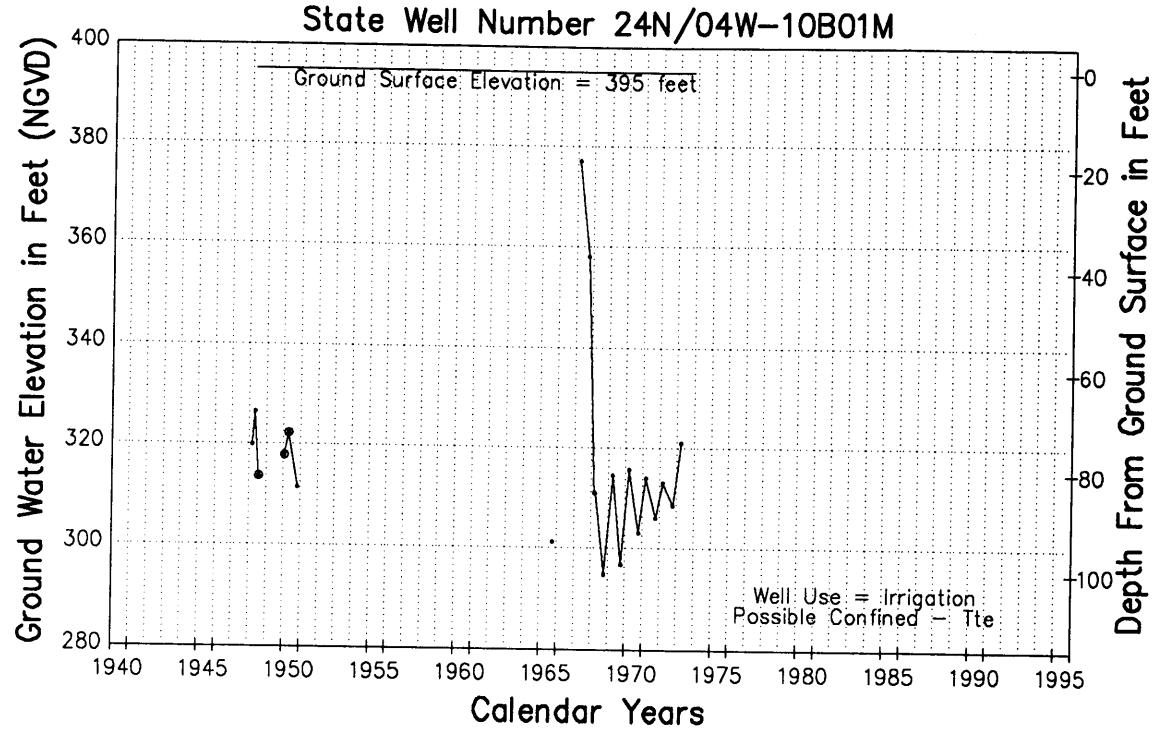
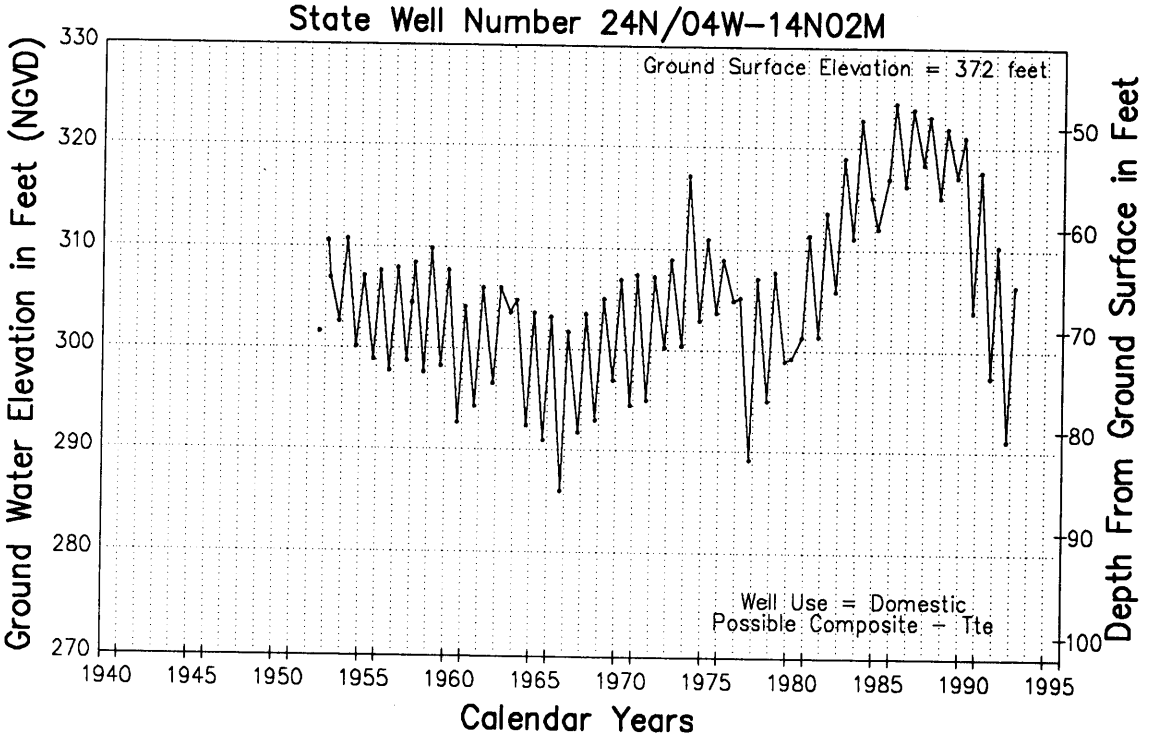
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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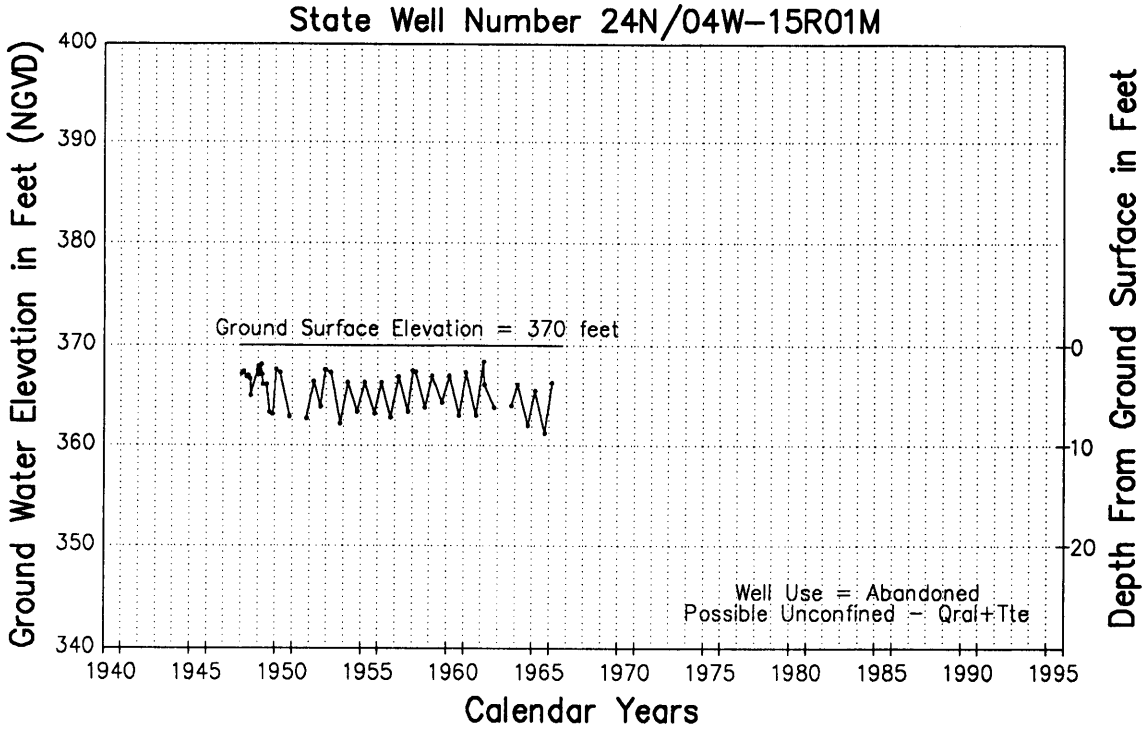
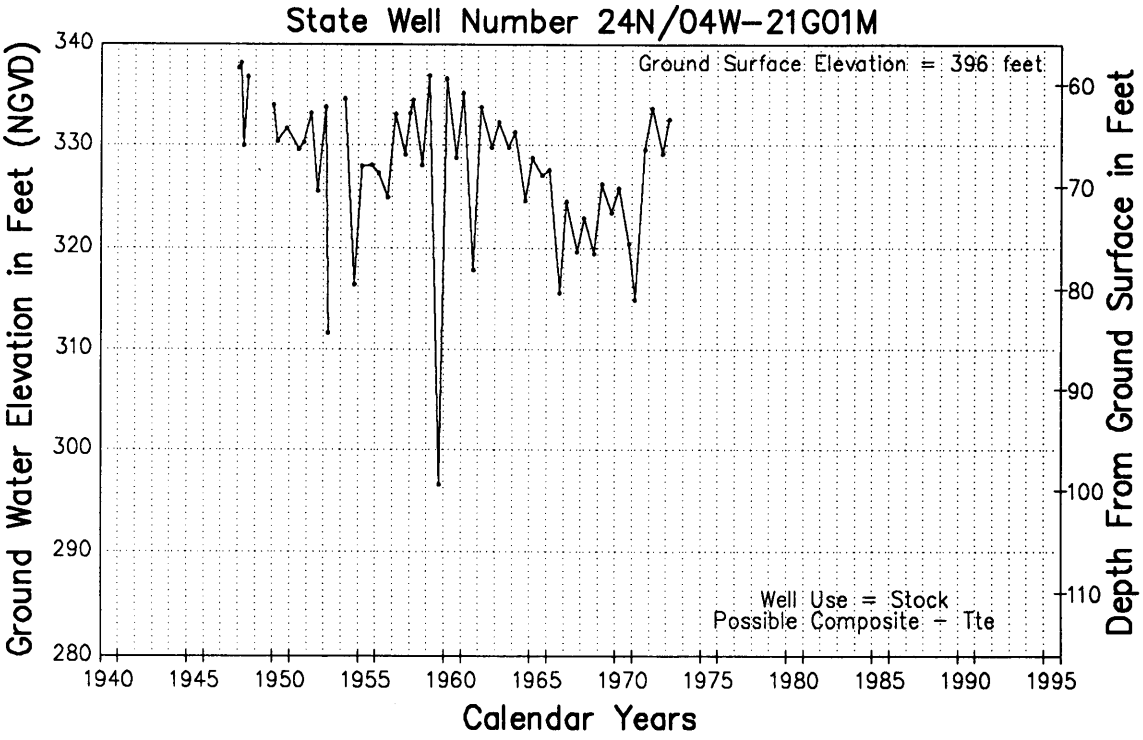
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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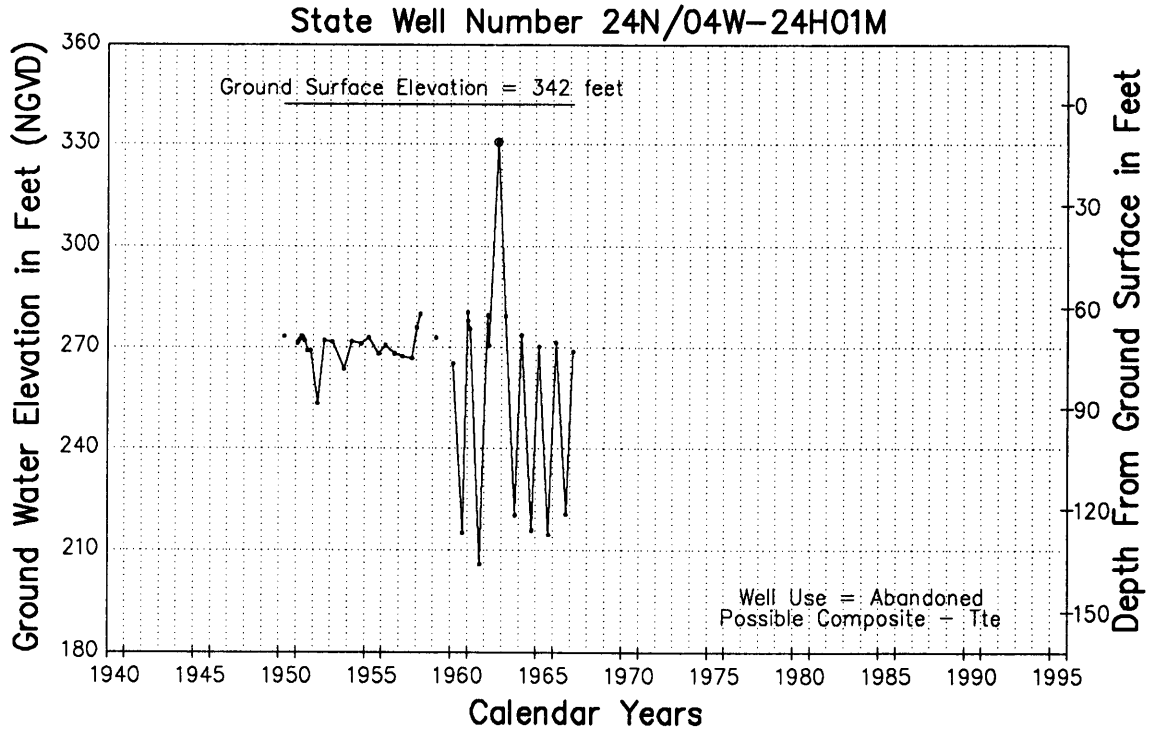
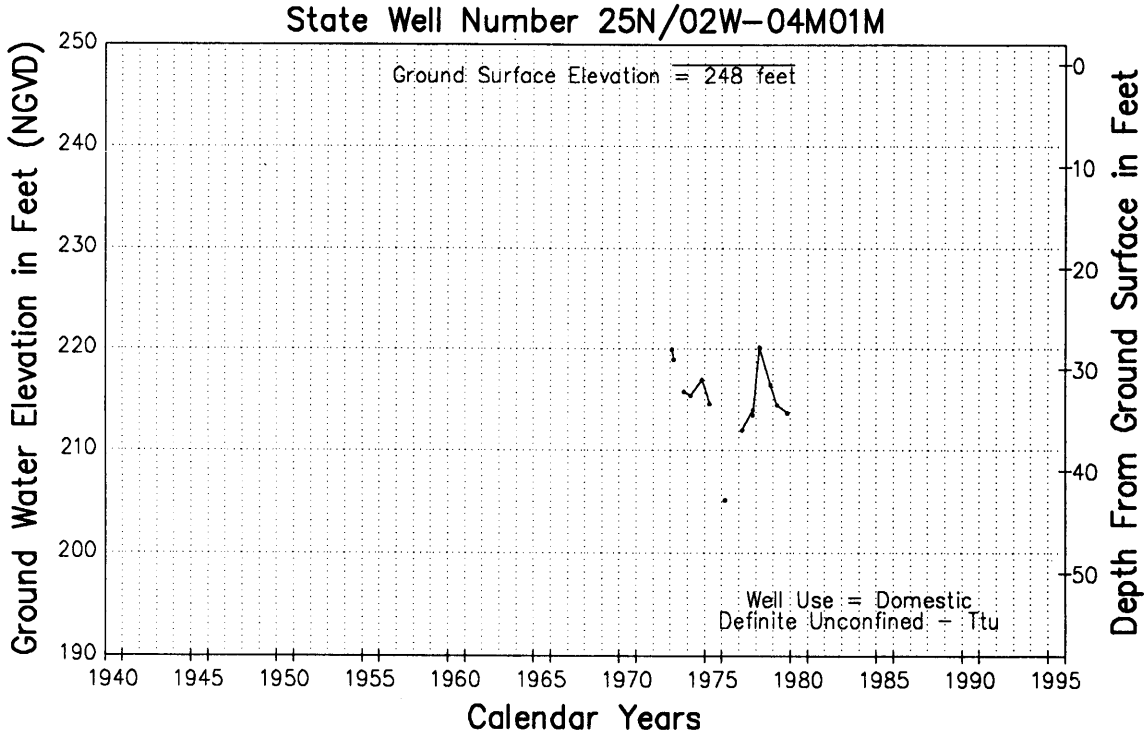
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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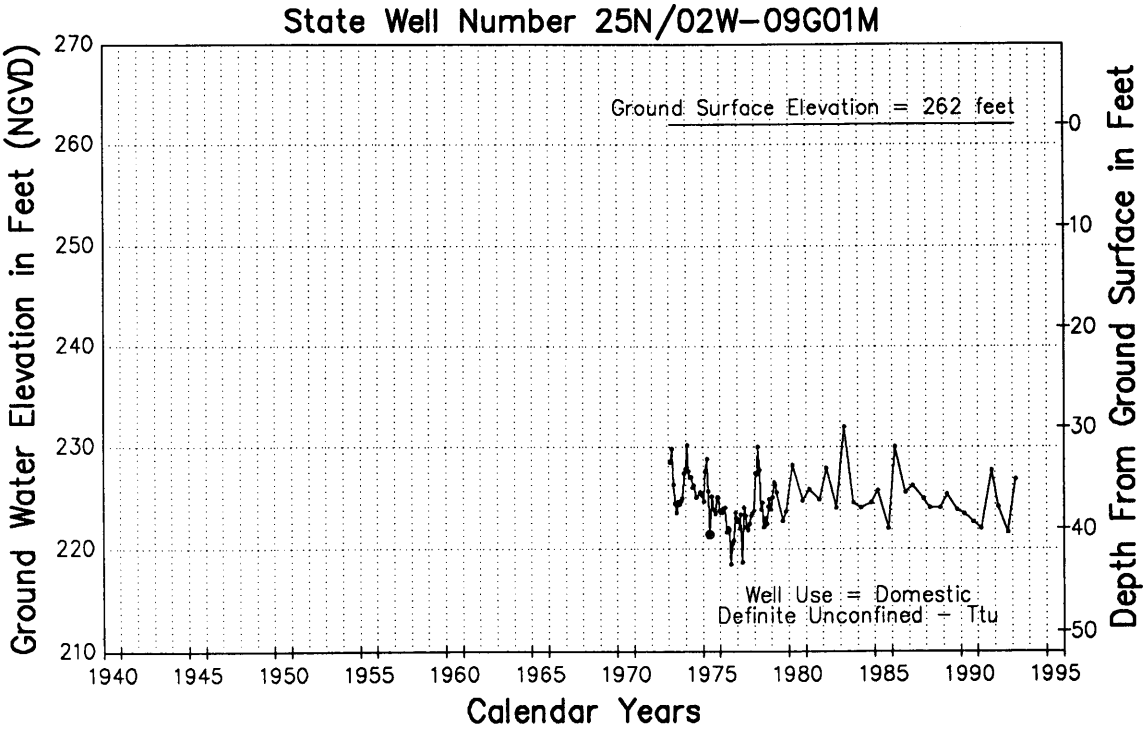
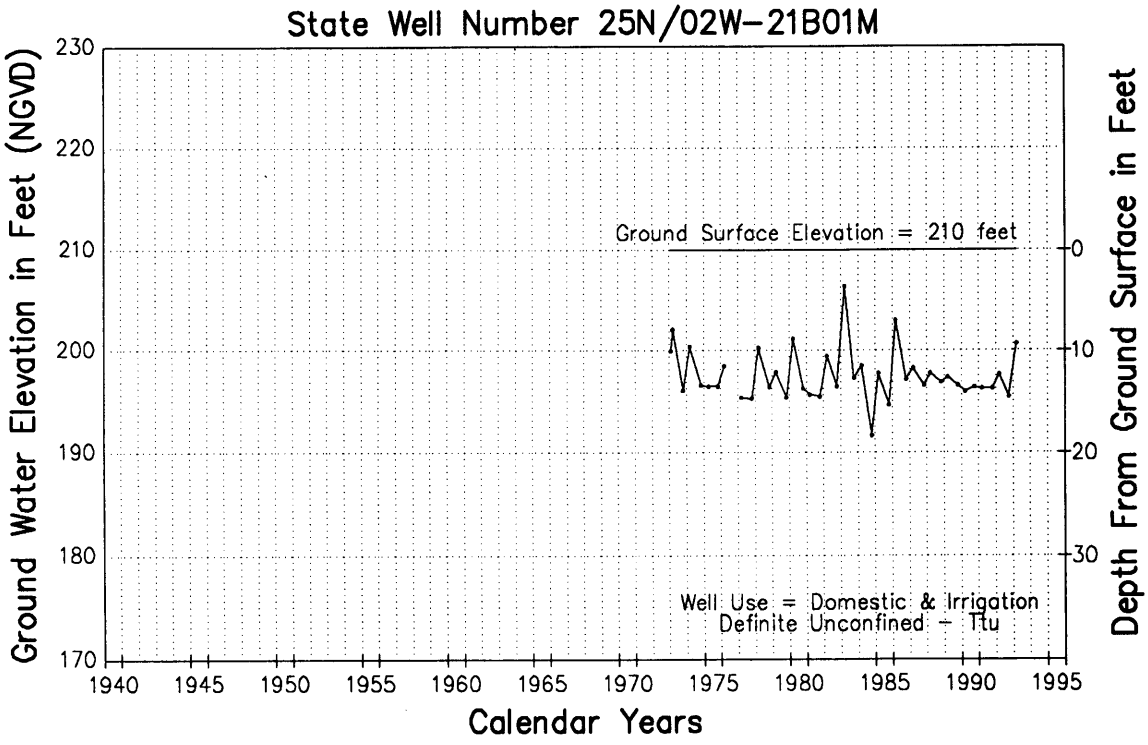
Sacramento Valley Ground Water Basin
Tehama County





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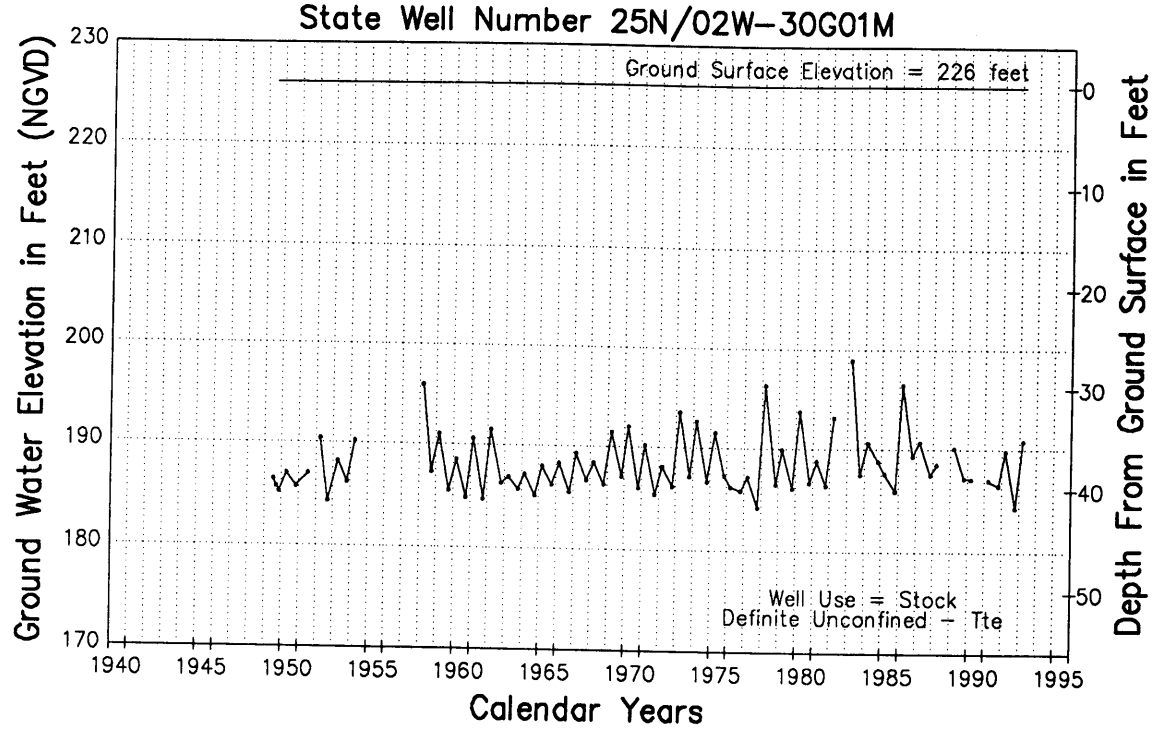
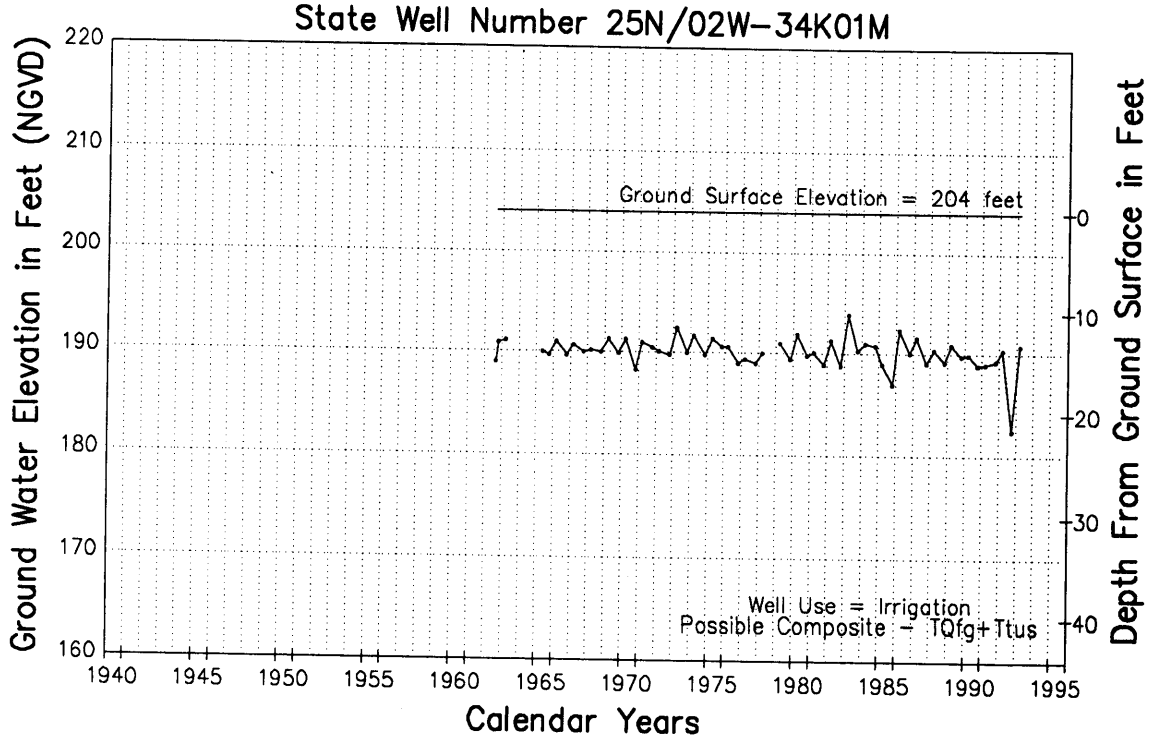
Sacramento Valley Ground Water Basin
Tehama County





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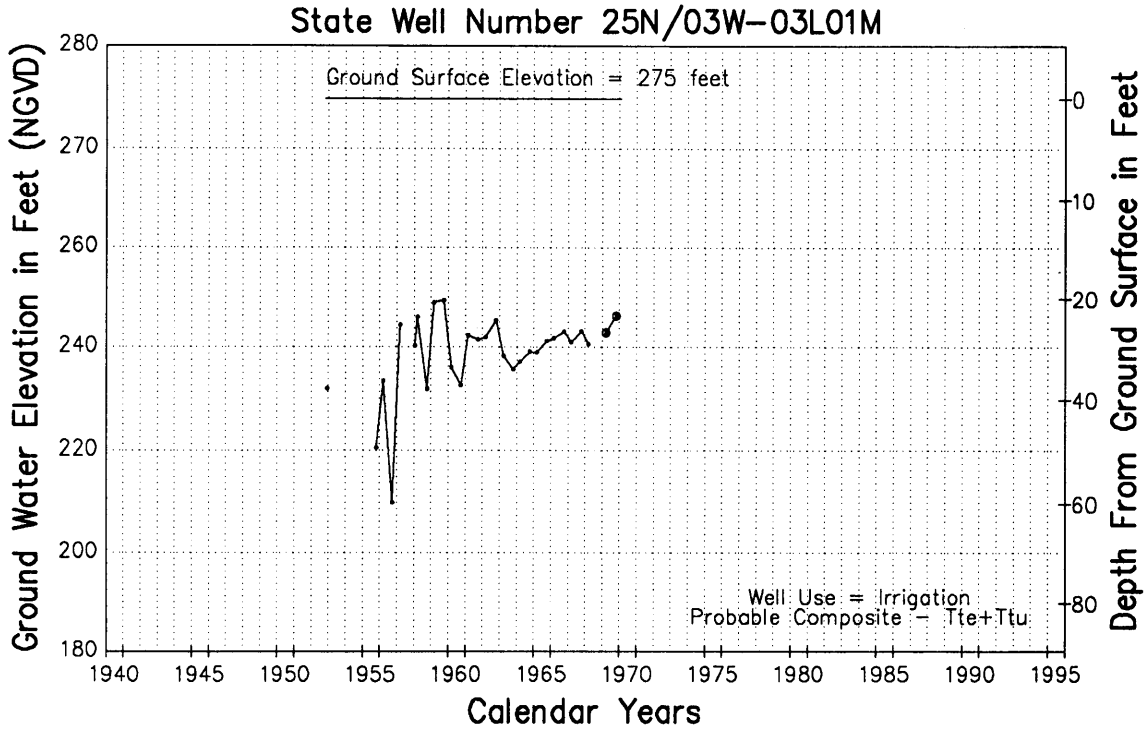
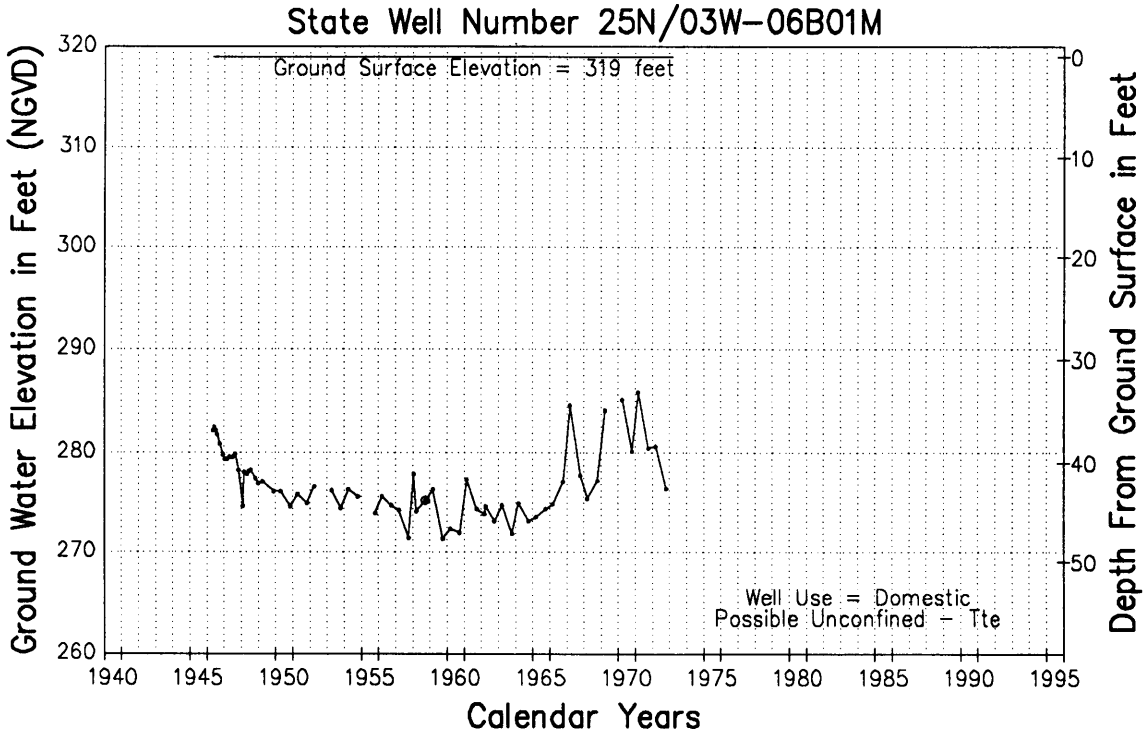
Sacramento Valley Ground Water Basin
Tehama County





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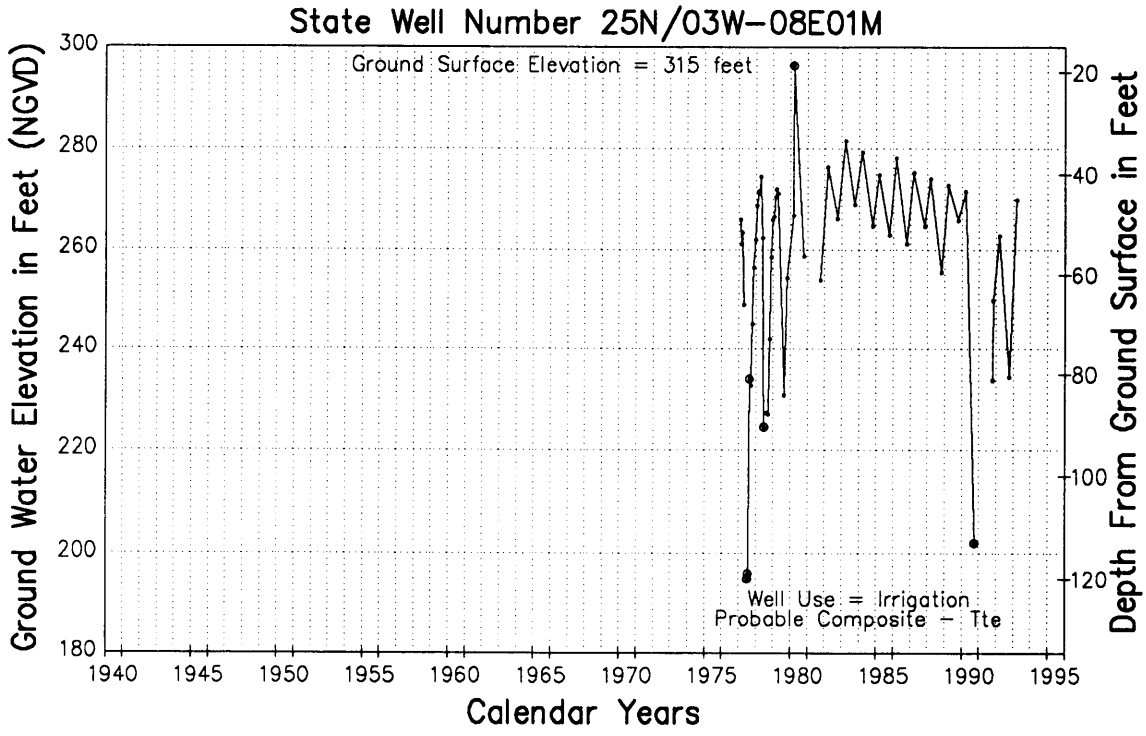
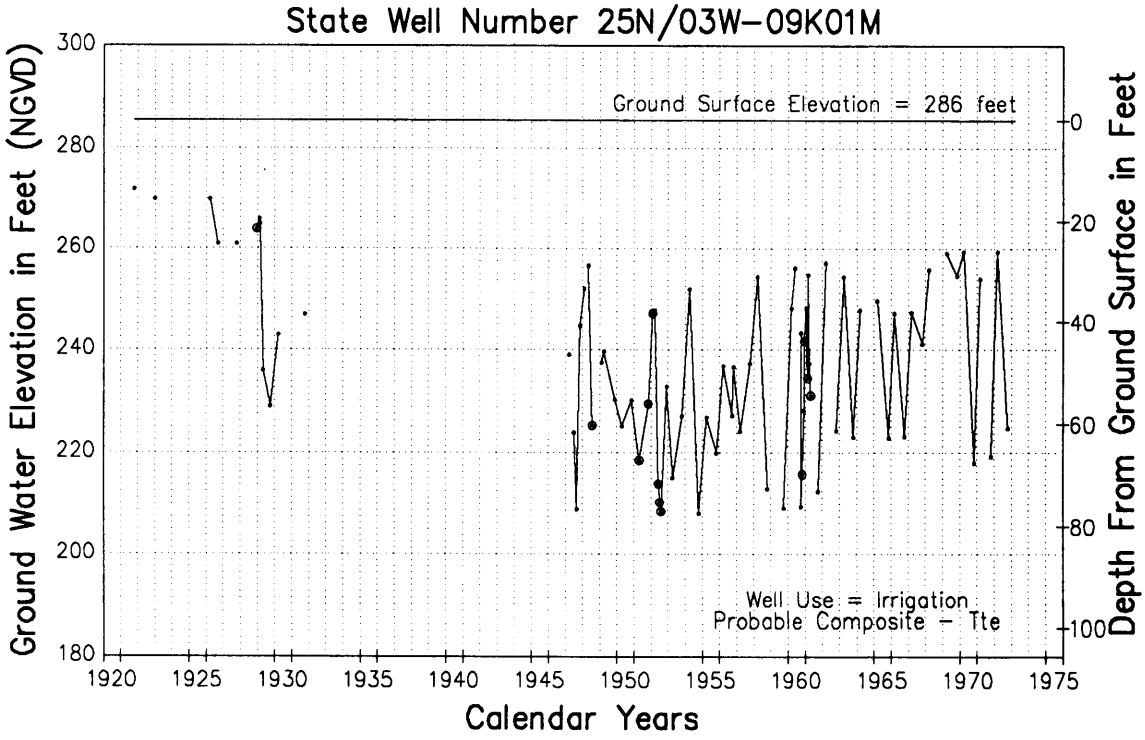
Sacramento Valley Ground Water Basin
Tehama County





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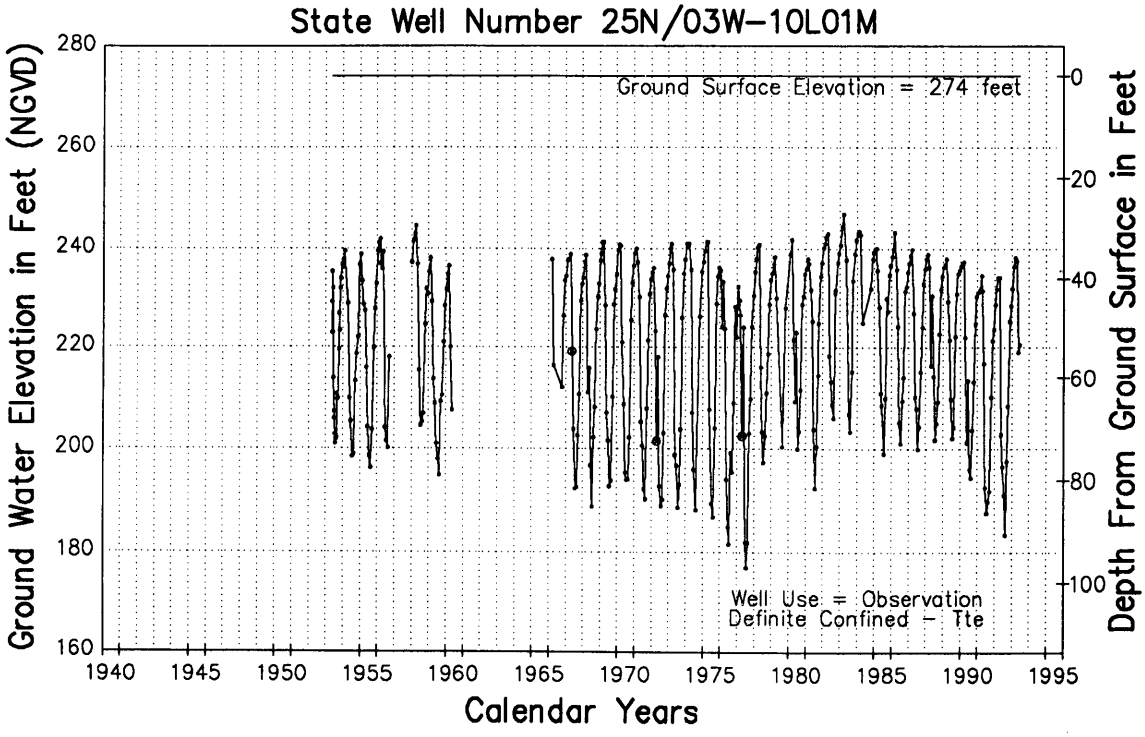
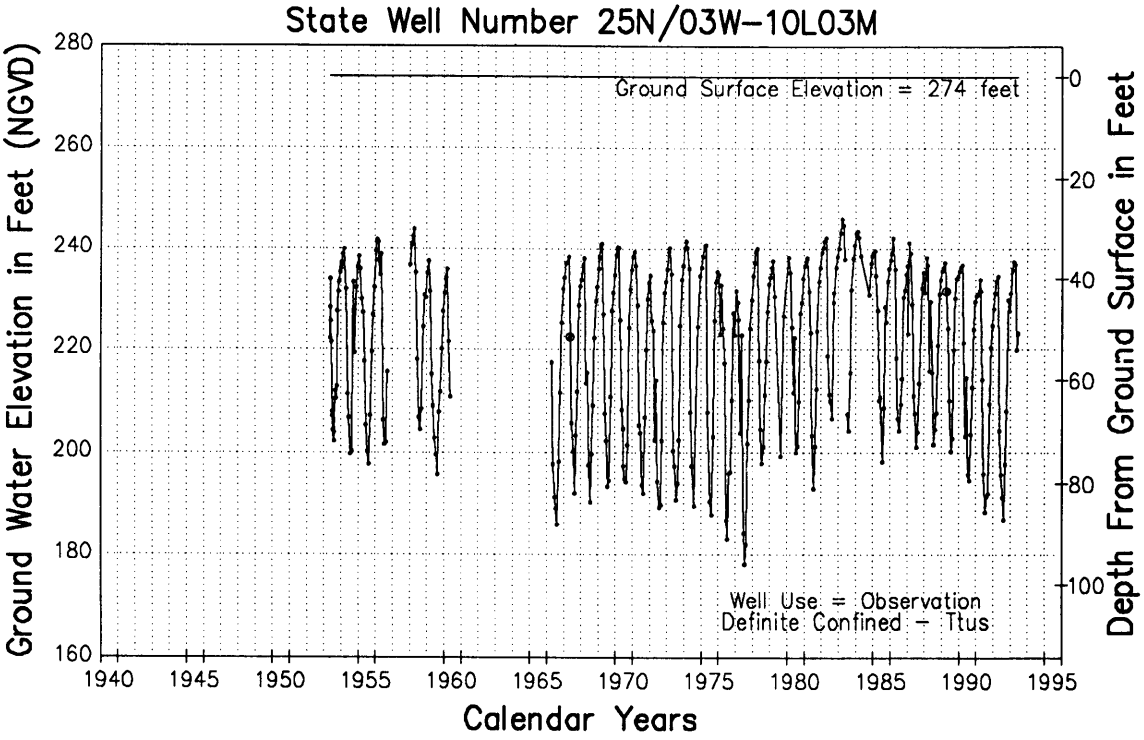
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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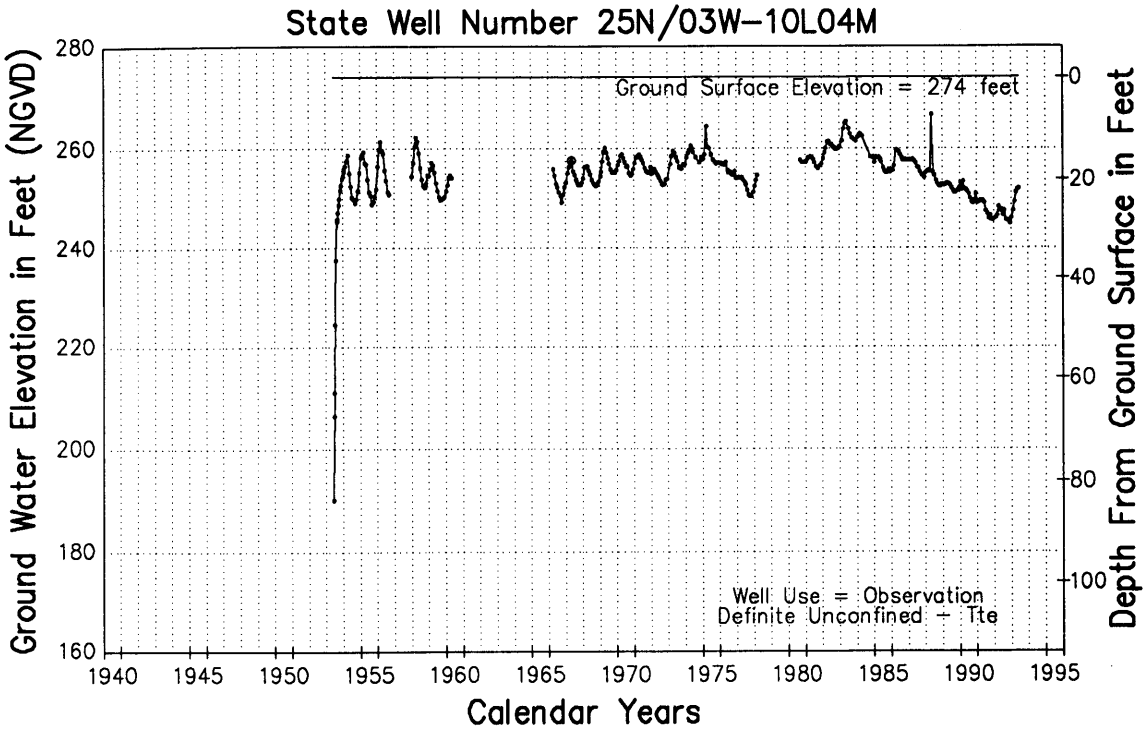
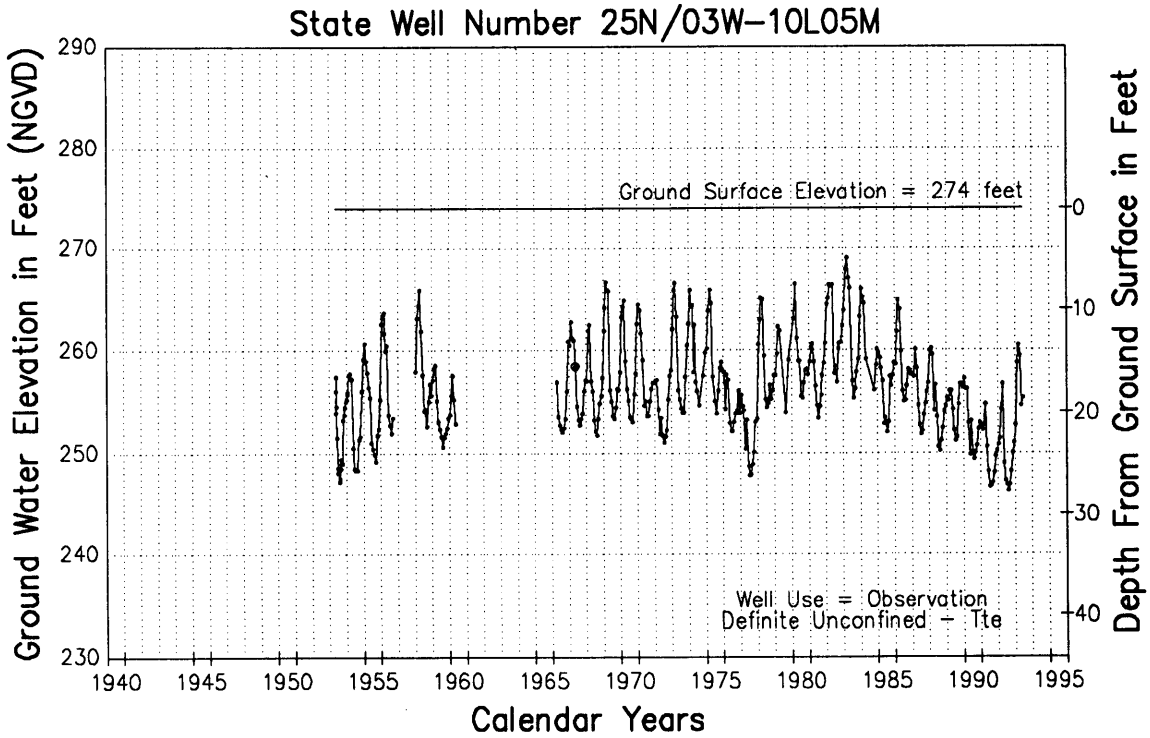
Sacramento Valley Ground Water Basin
Tehama County





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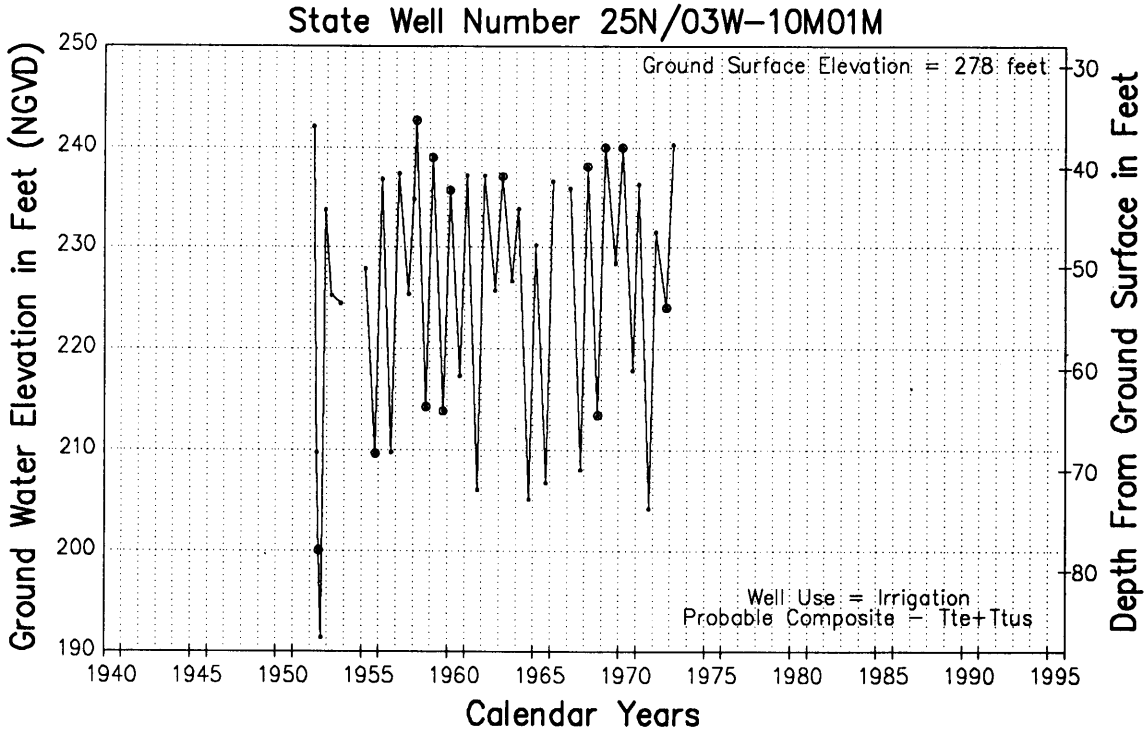

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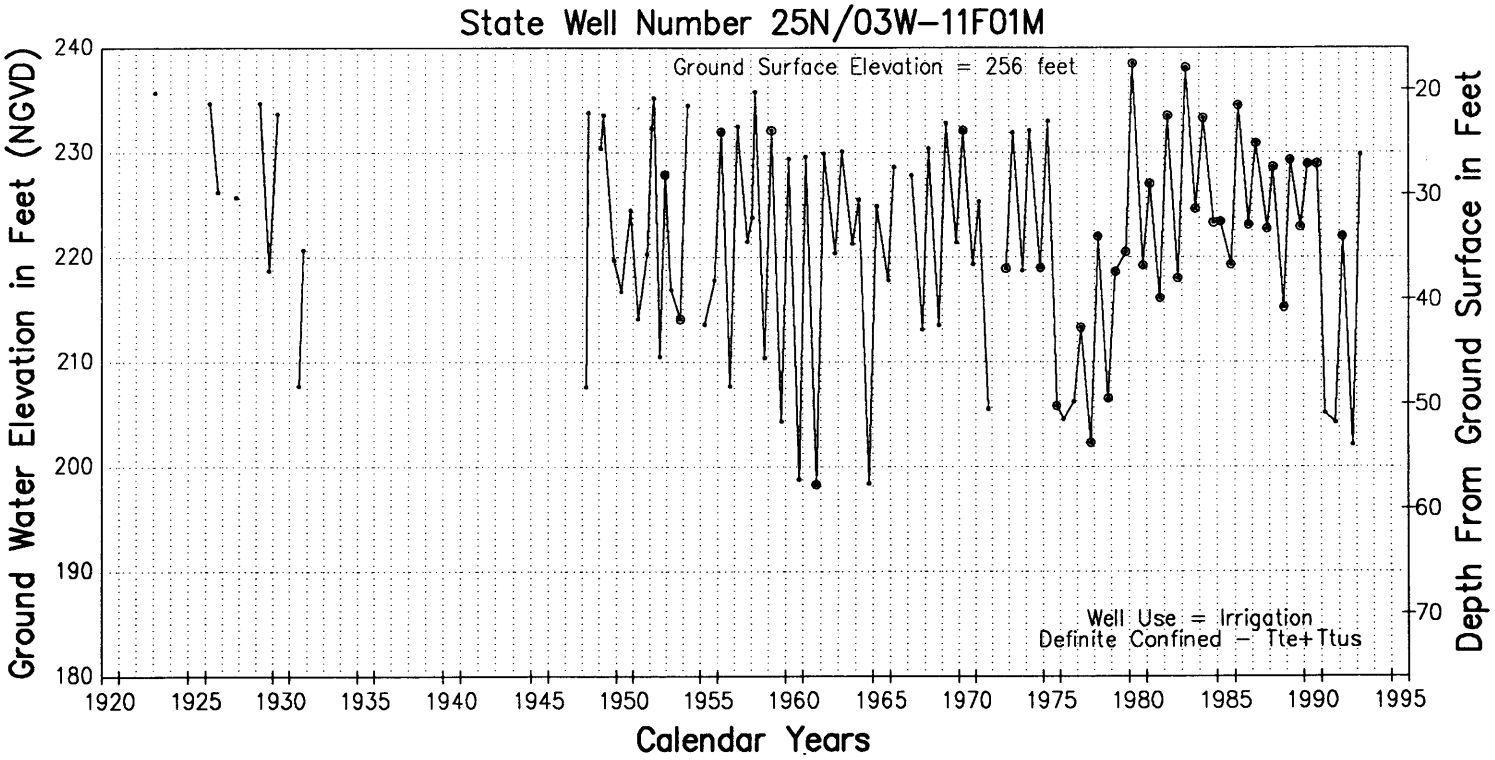
Sacramento Valley Ground Water Basin
Tehama County



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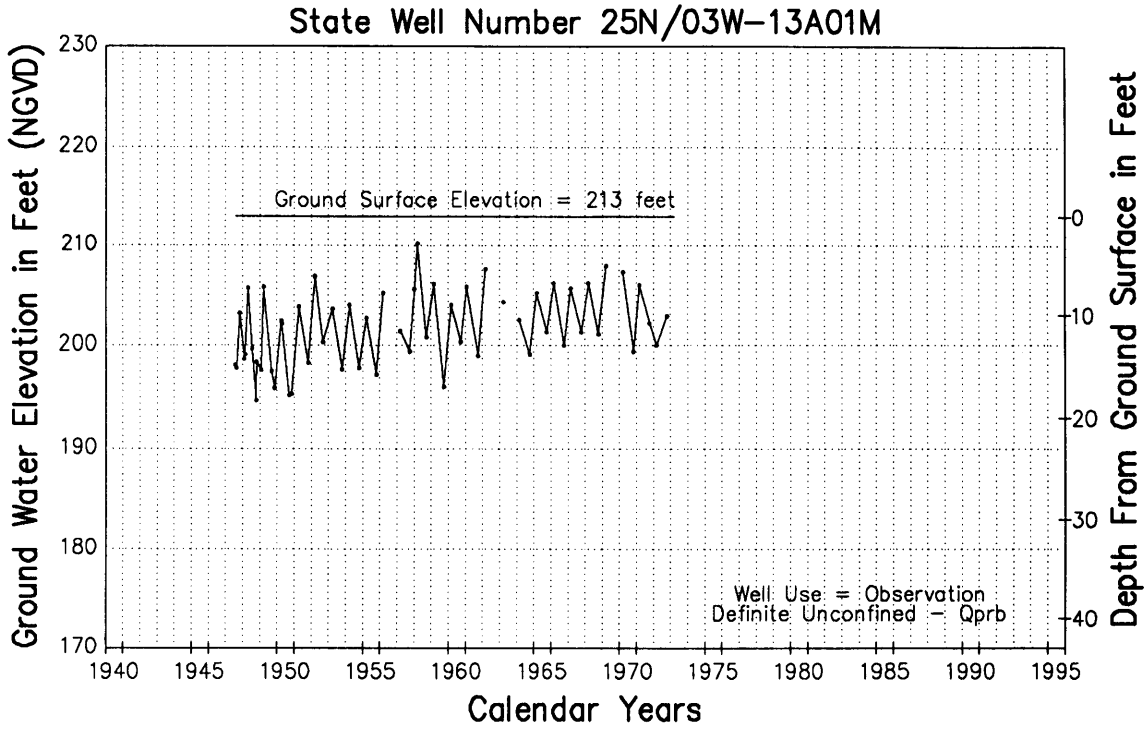
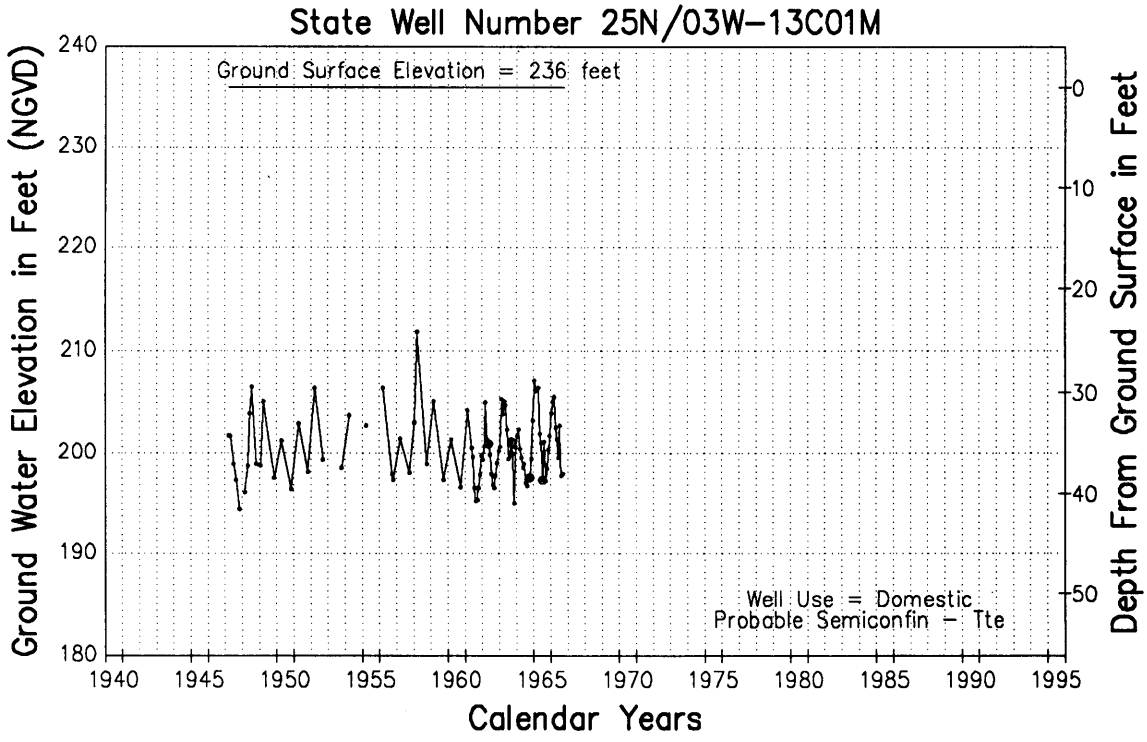
Tehama County





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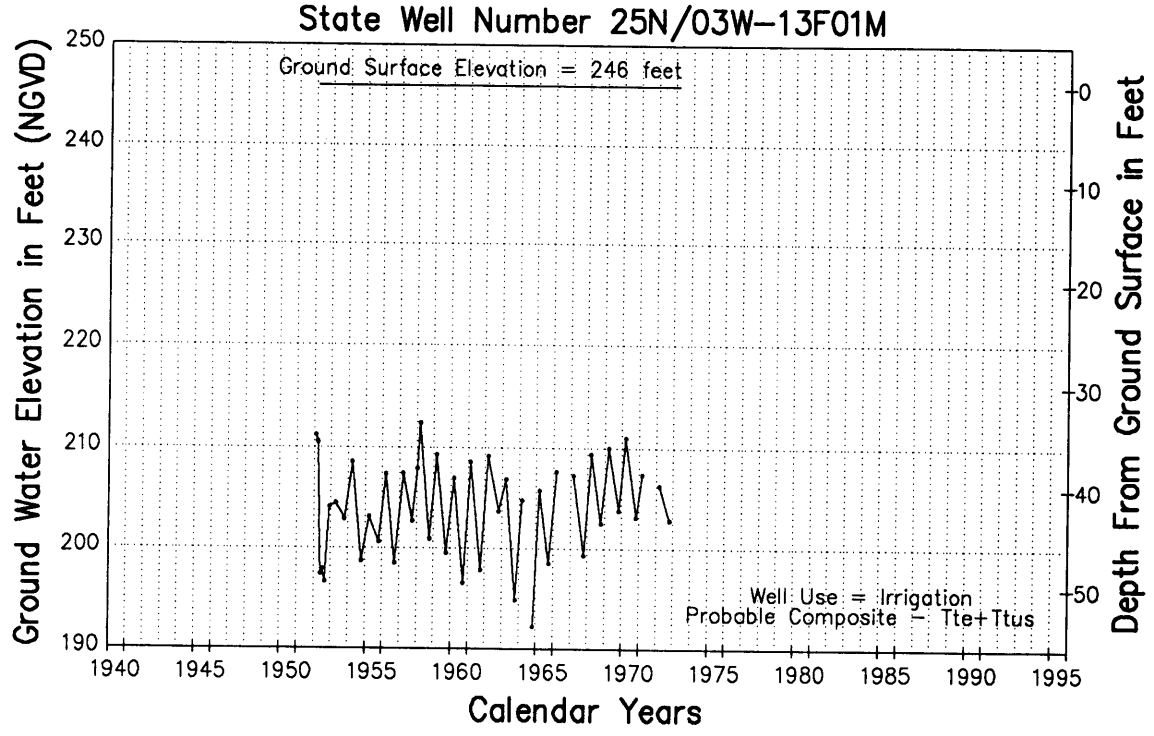
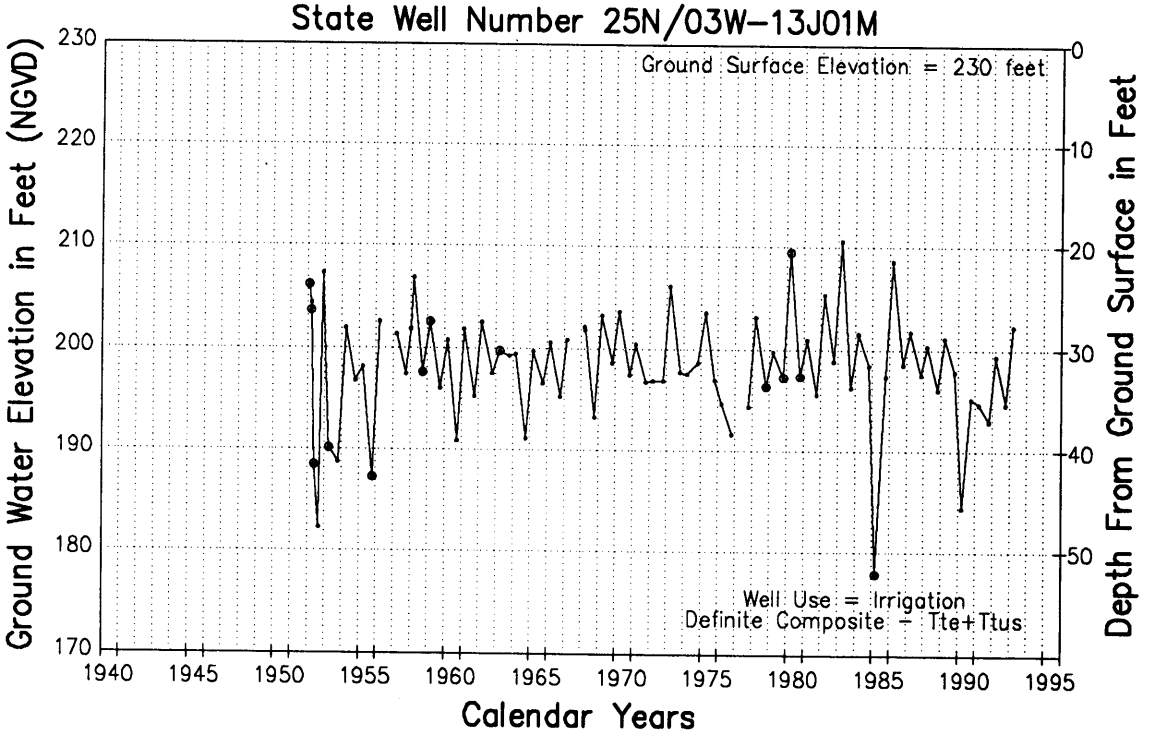
Sacramento Valley Ground Water Basin
Tehama County





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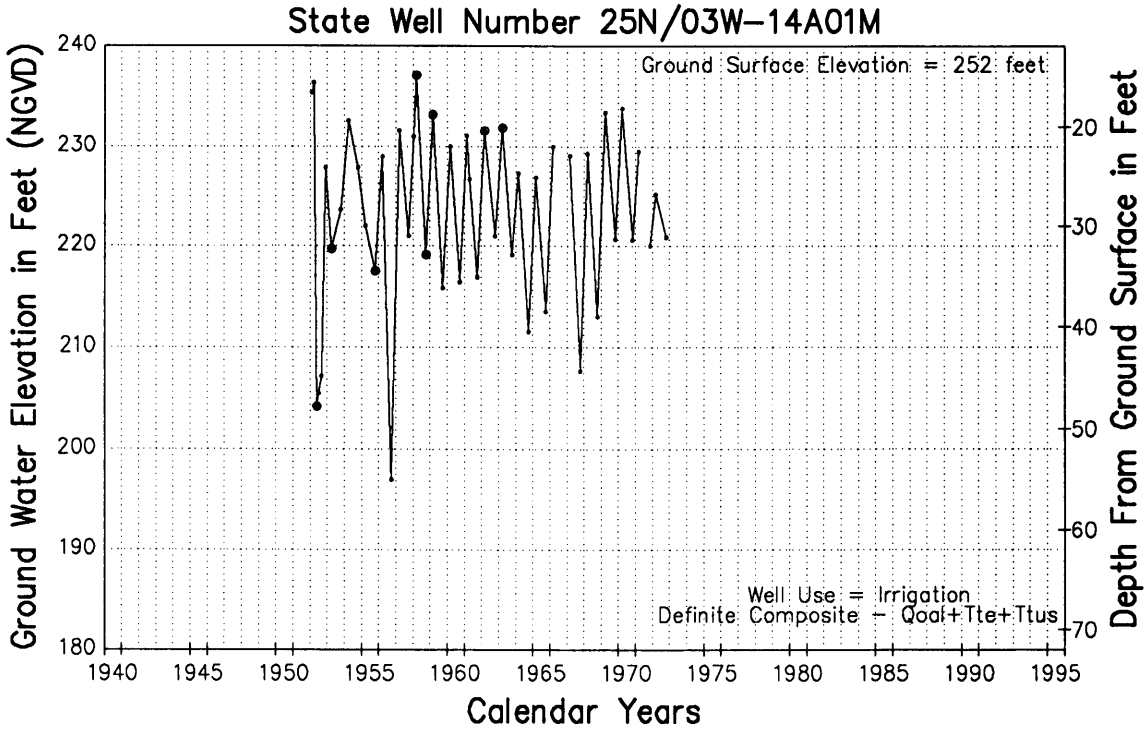
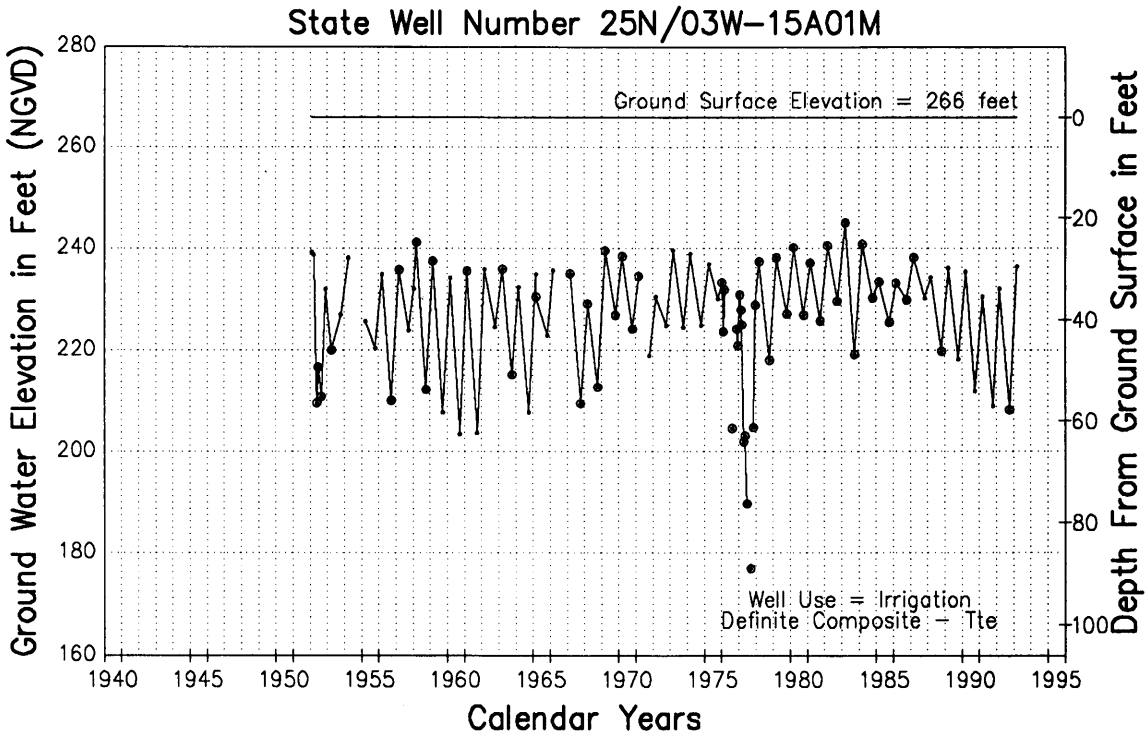
Sacramento Valley Ground Water Basin
Tehama County





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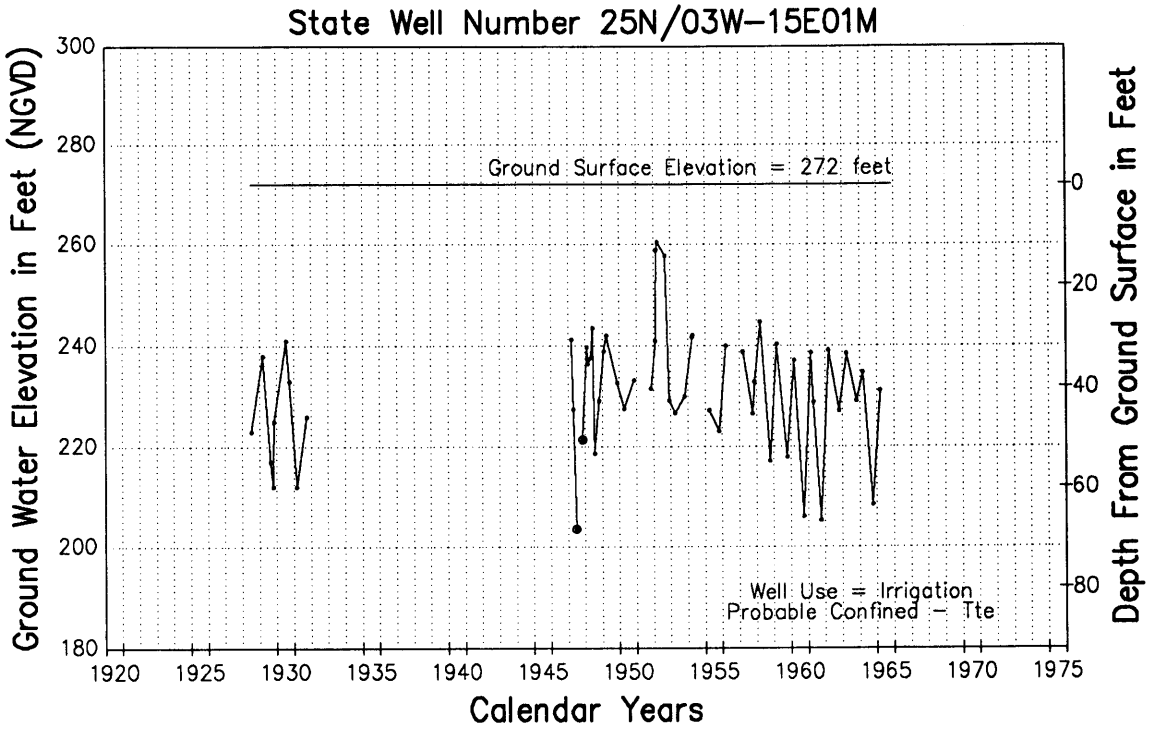
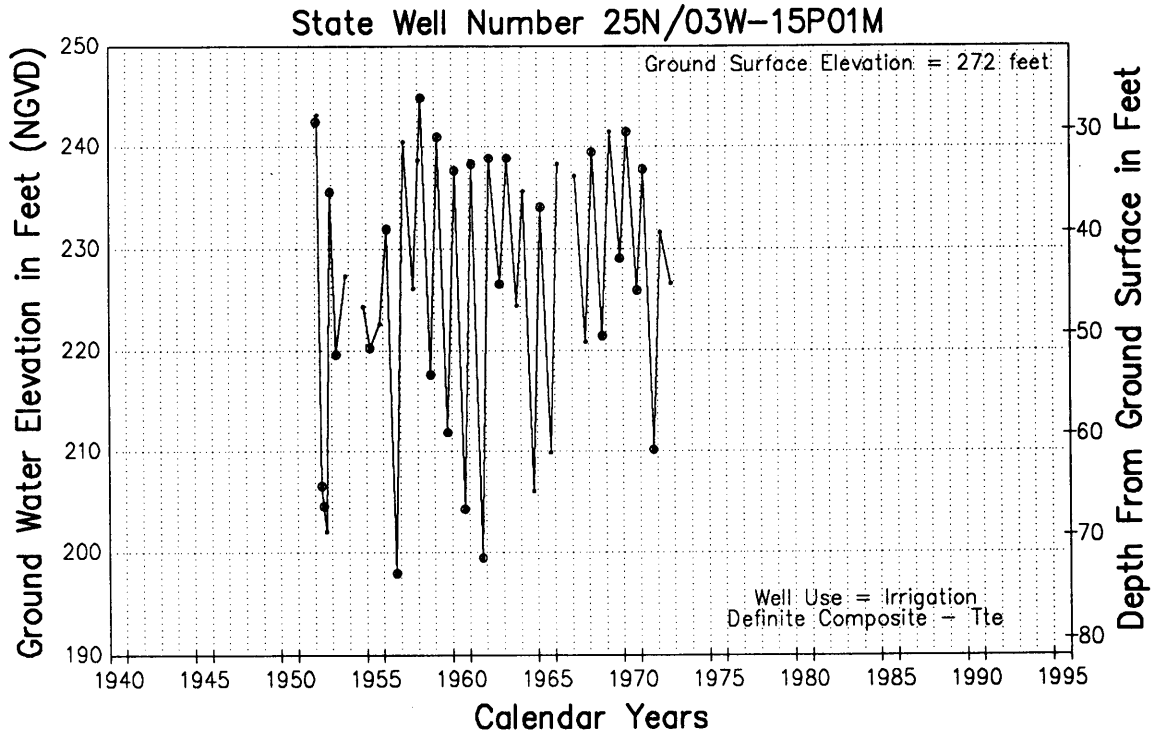
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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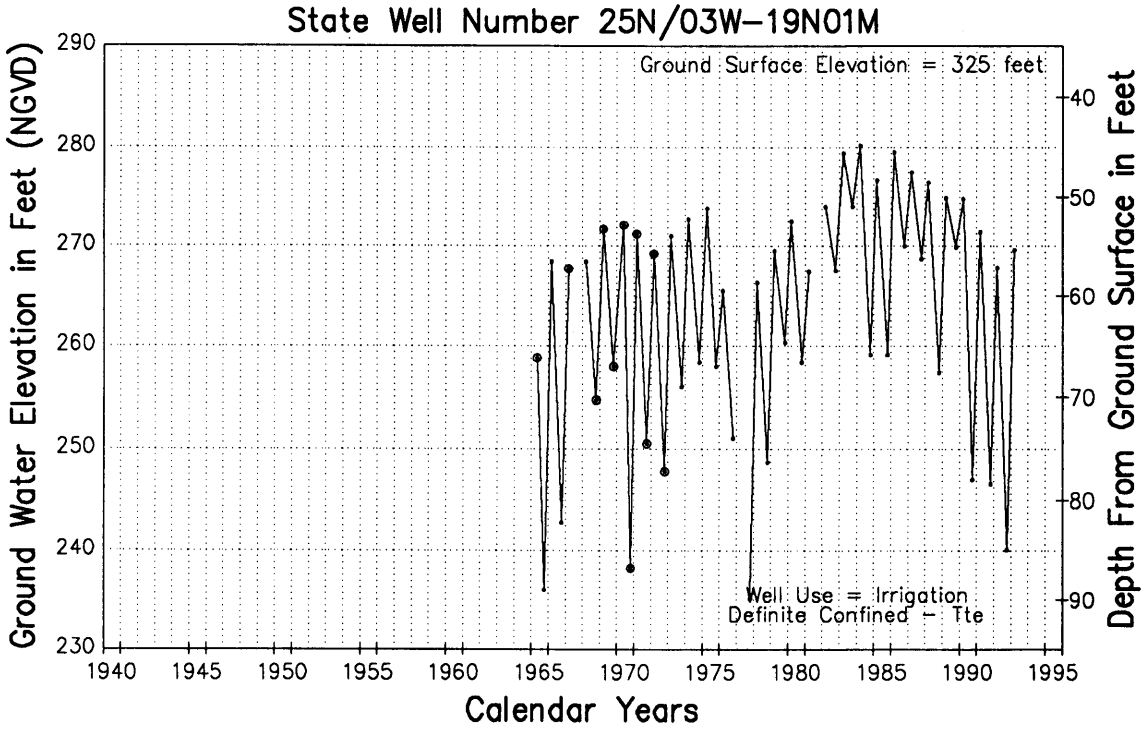
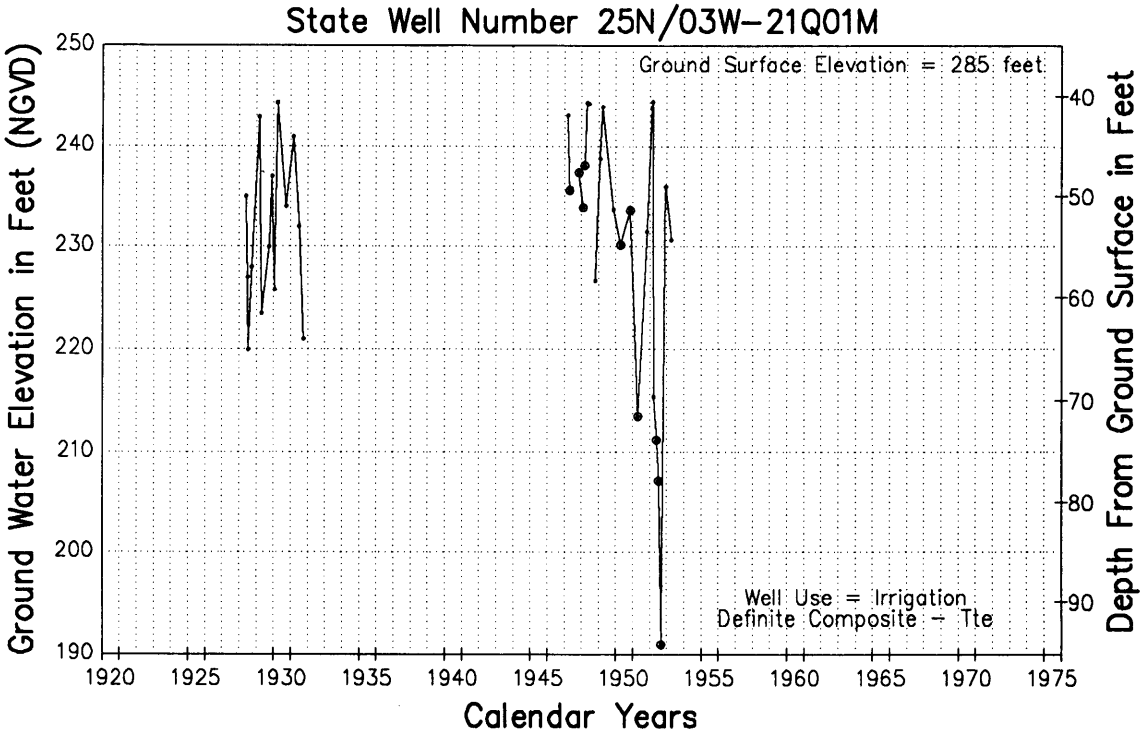
Tehama County

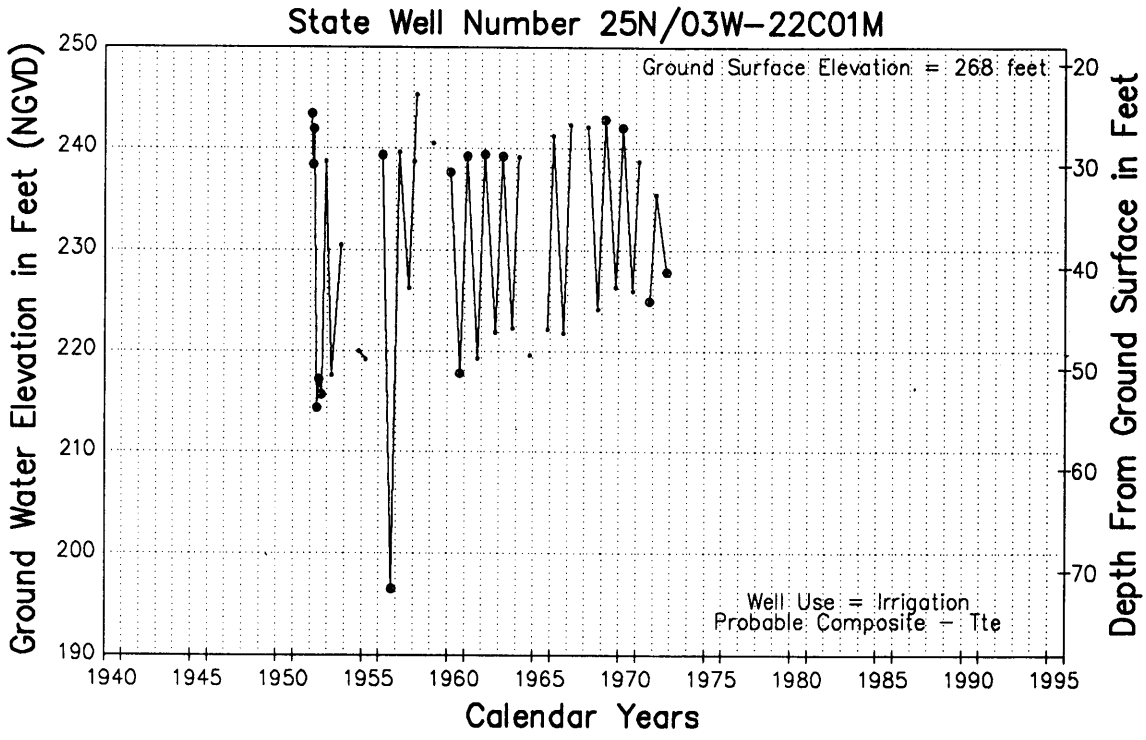




·····Water surface elevation in well ••••• Questionable measurement

Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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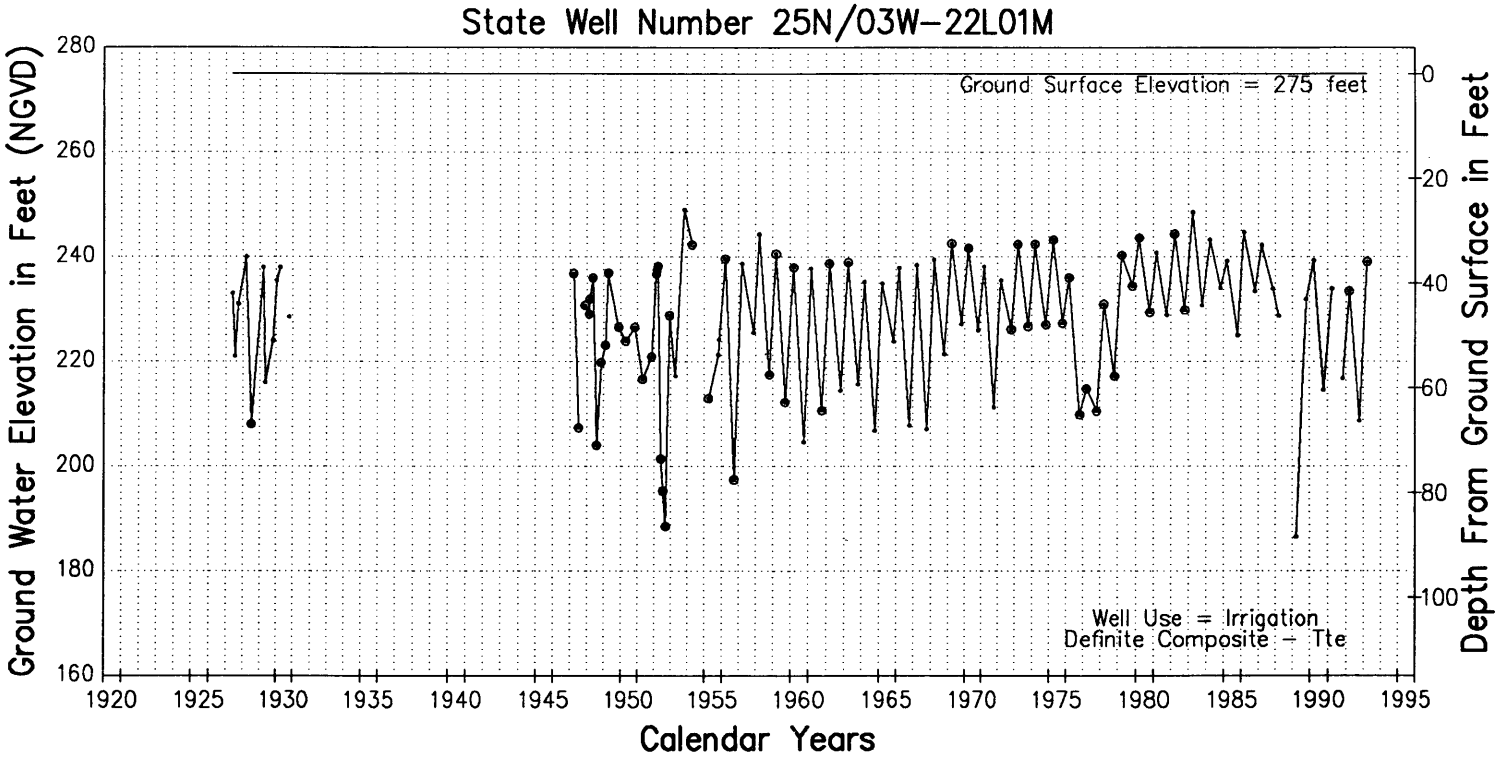
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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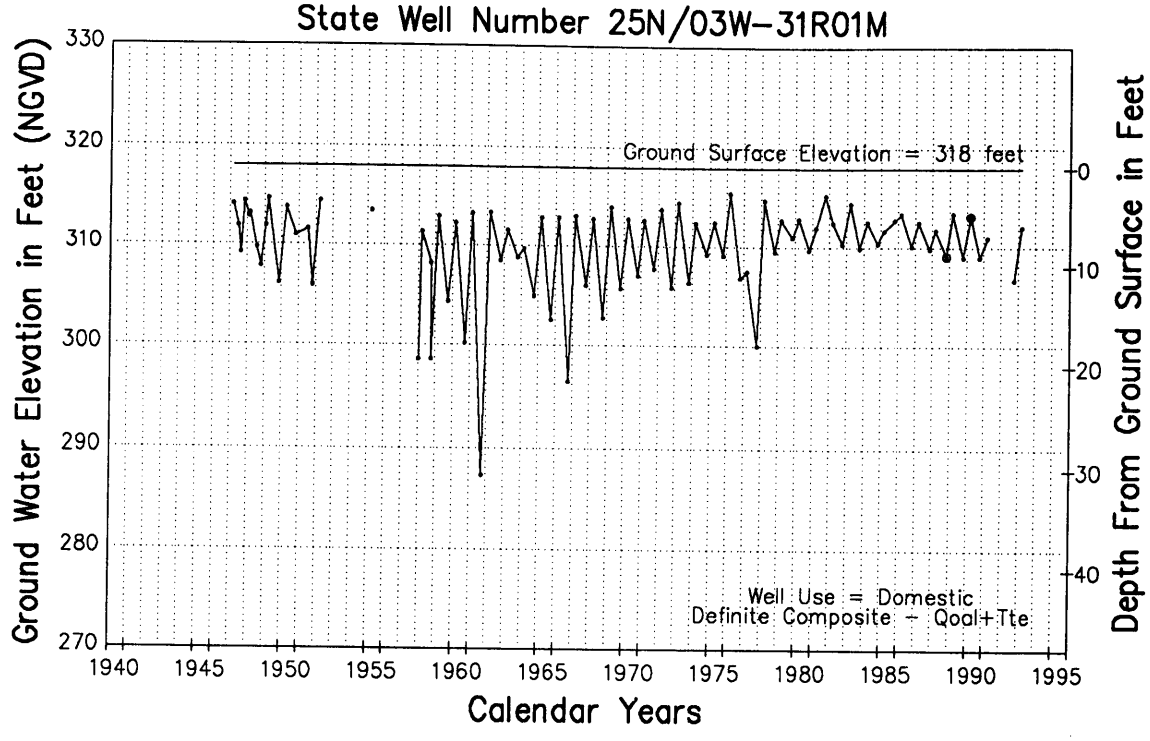
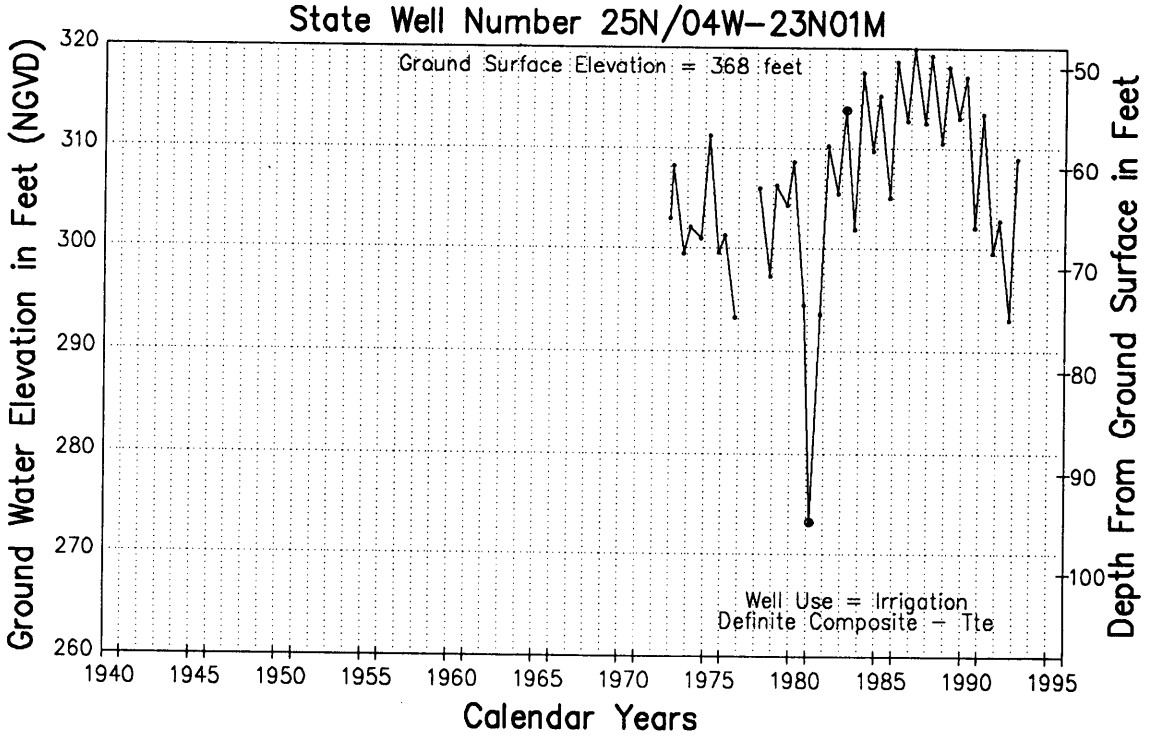
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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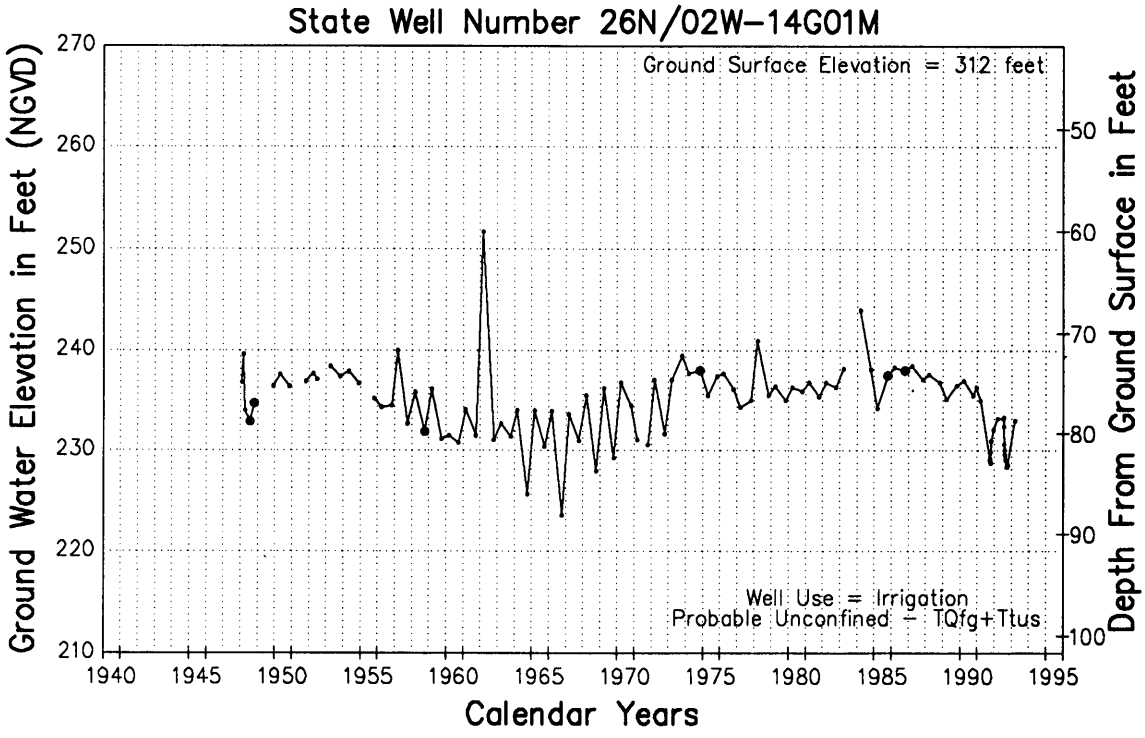
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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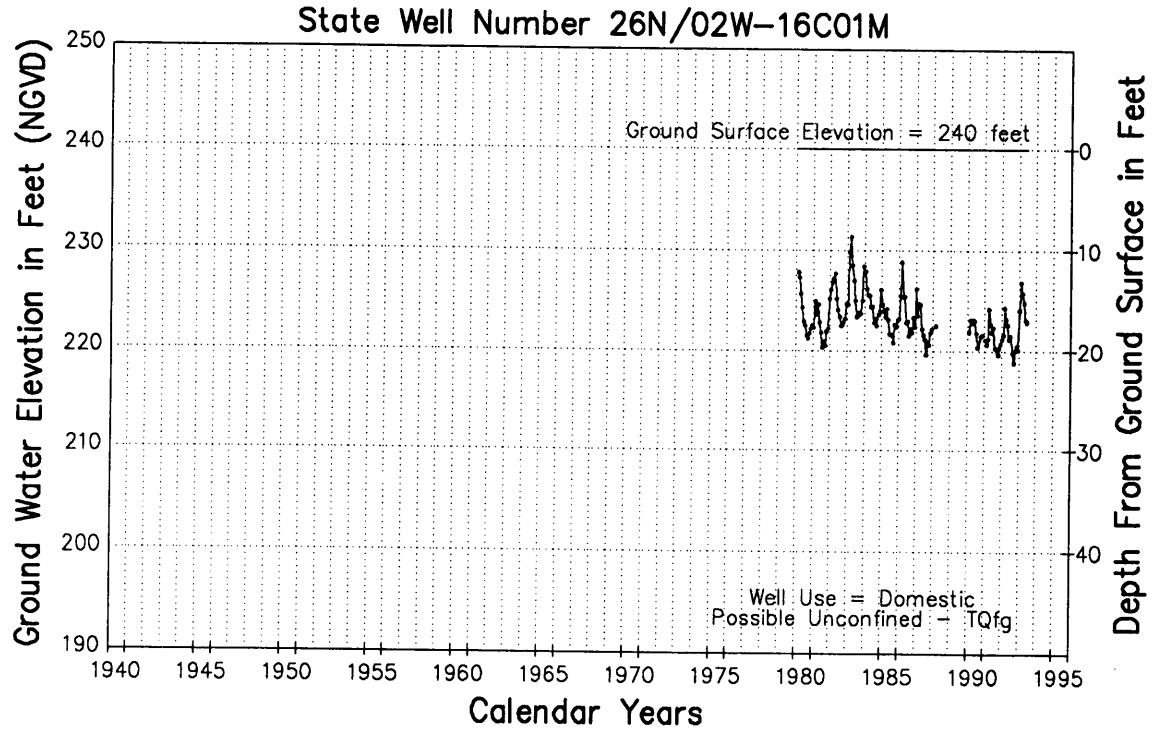
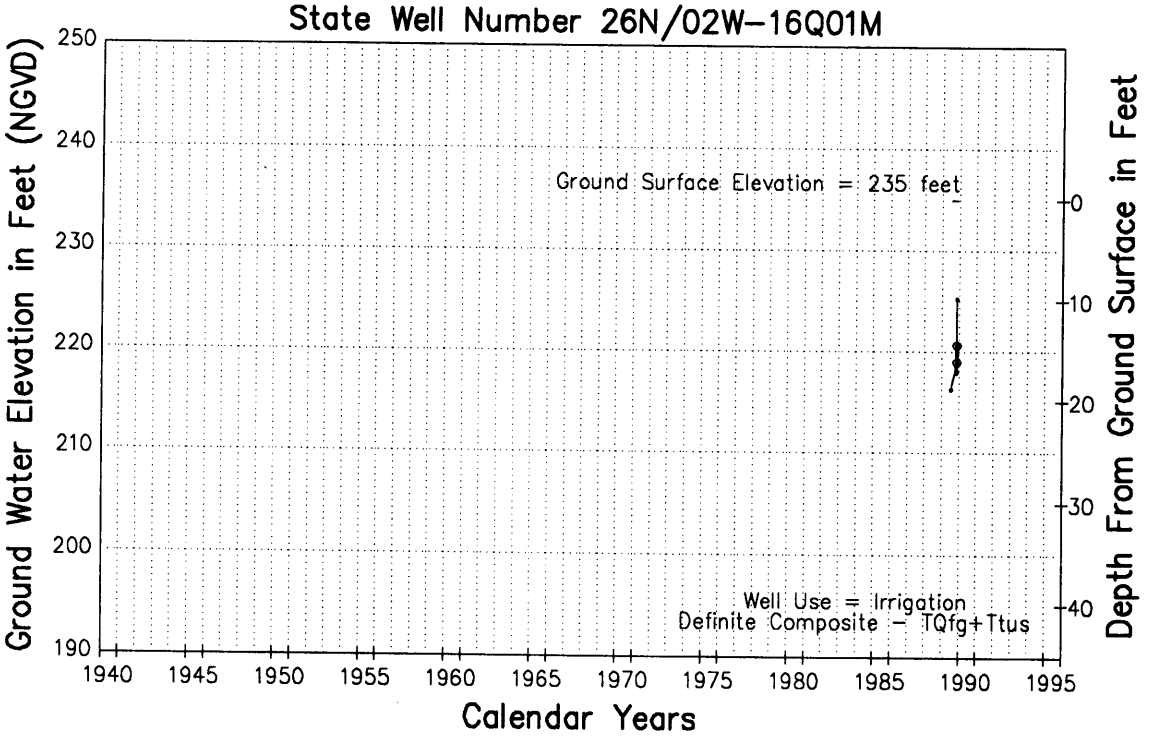
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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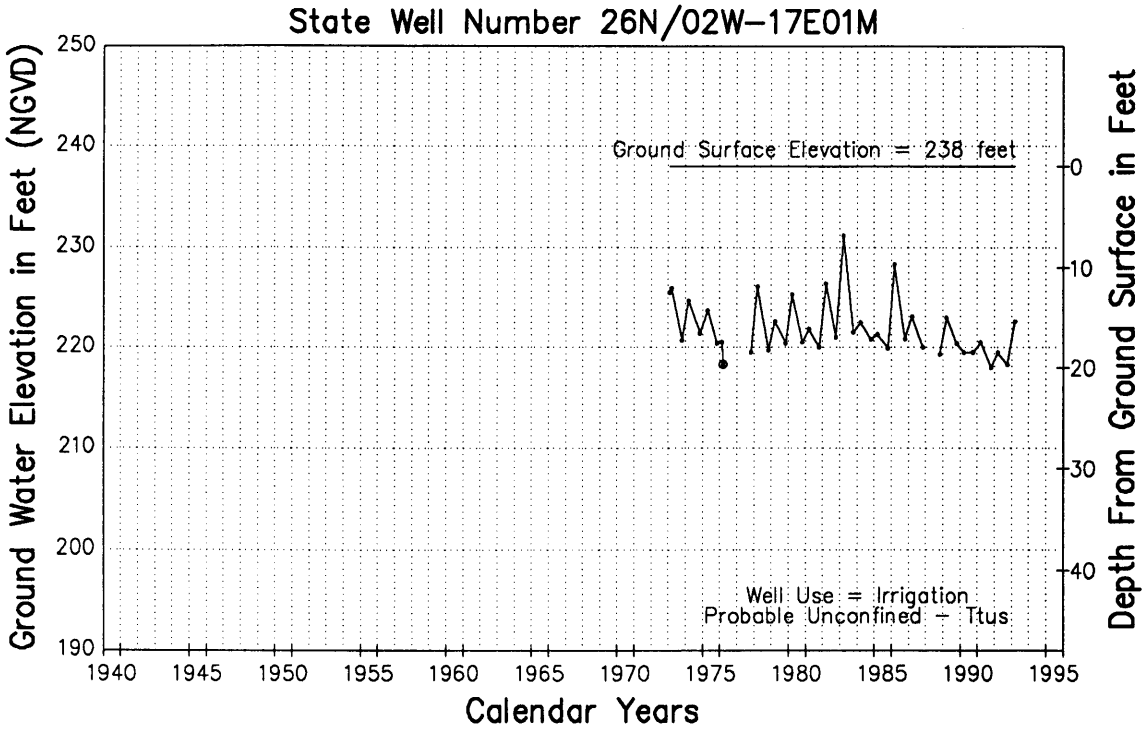
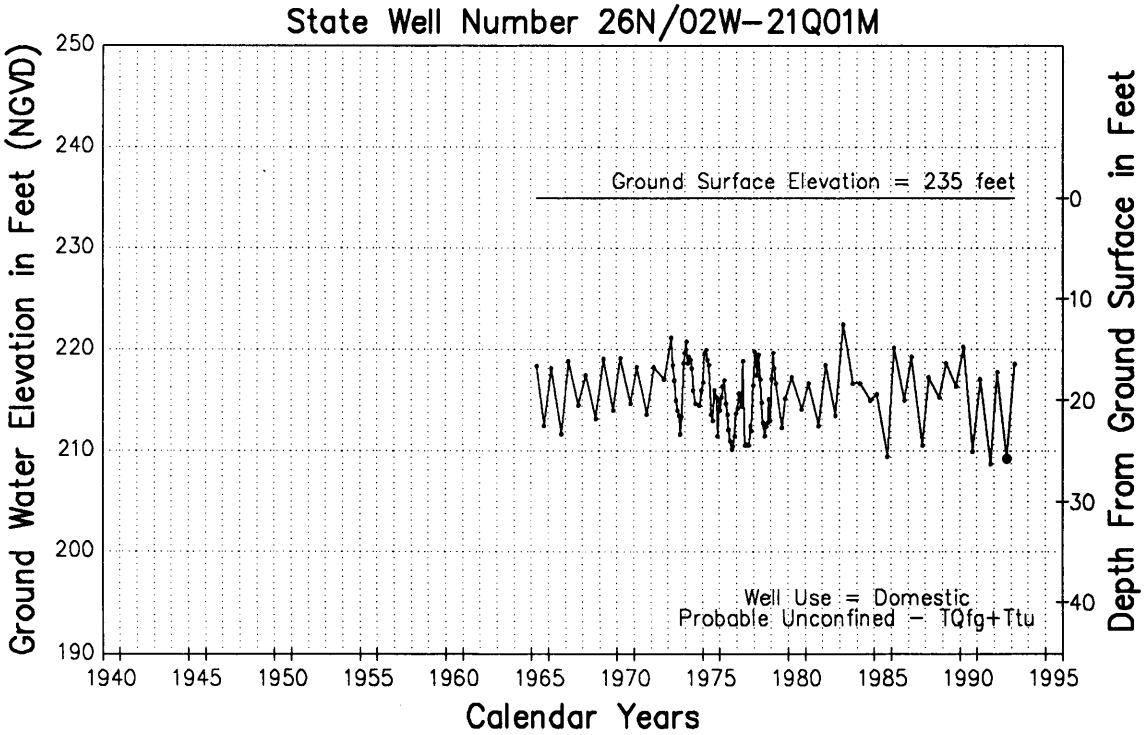
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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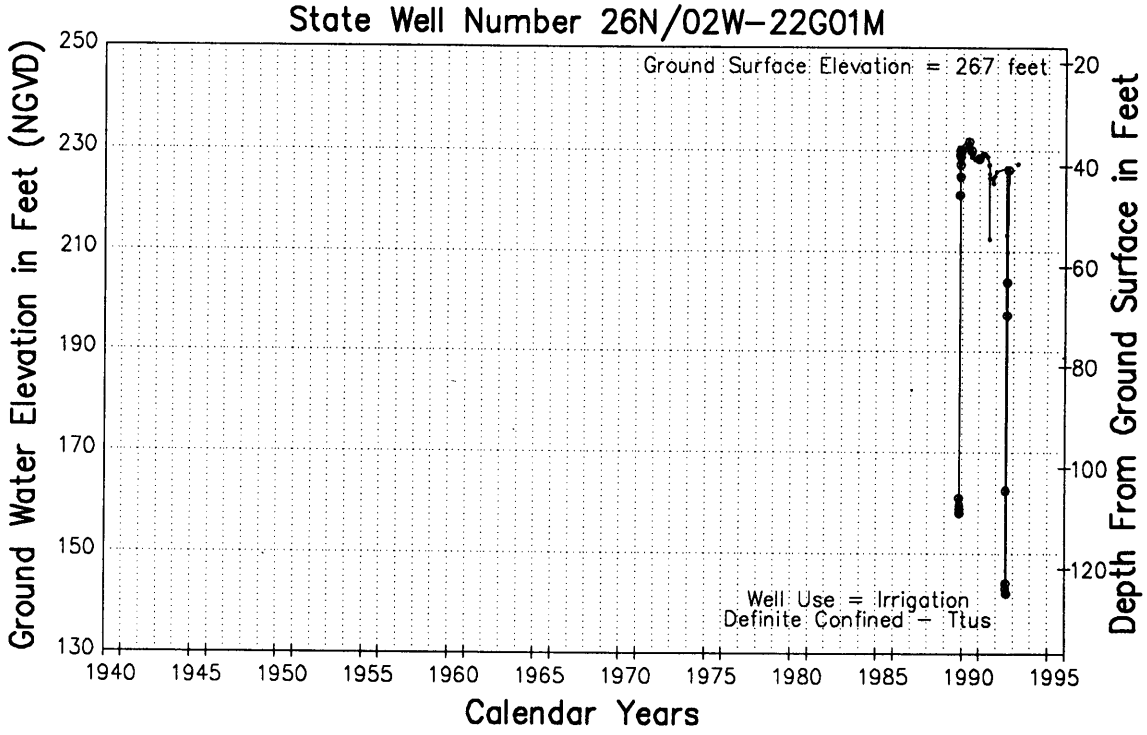
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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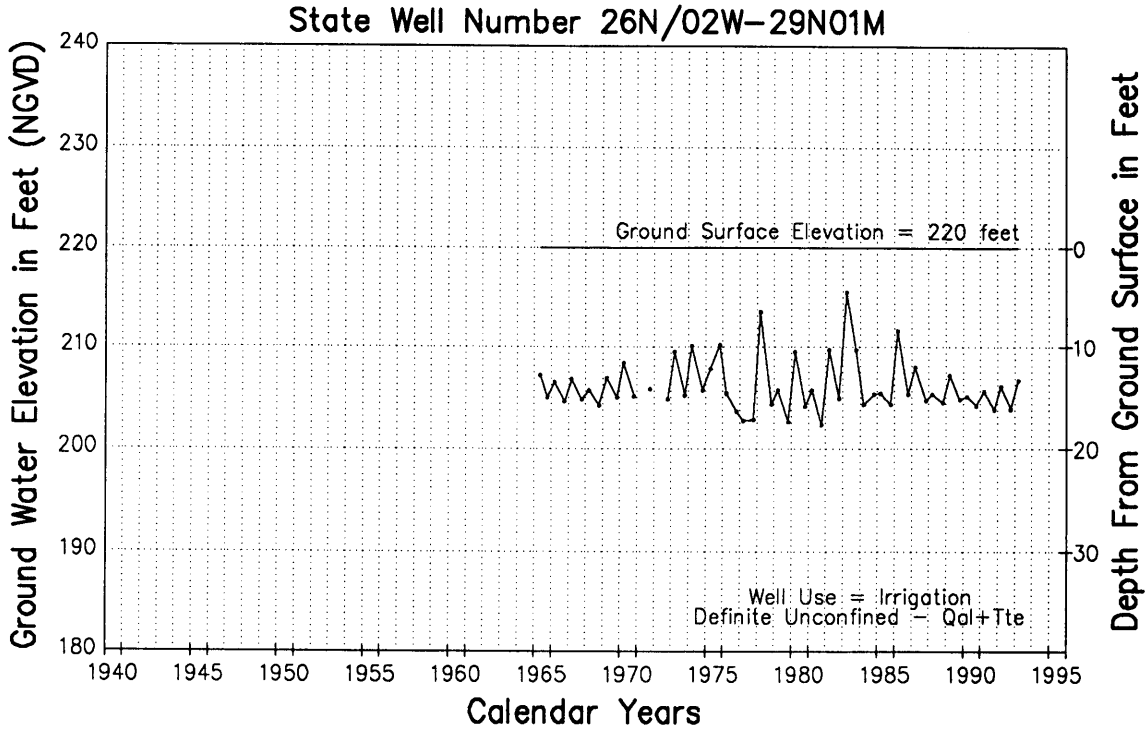
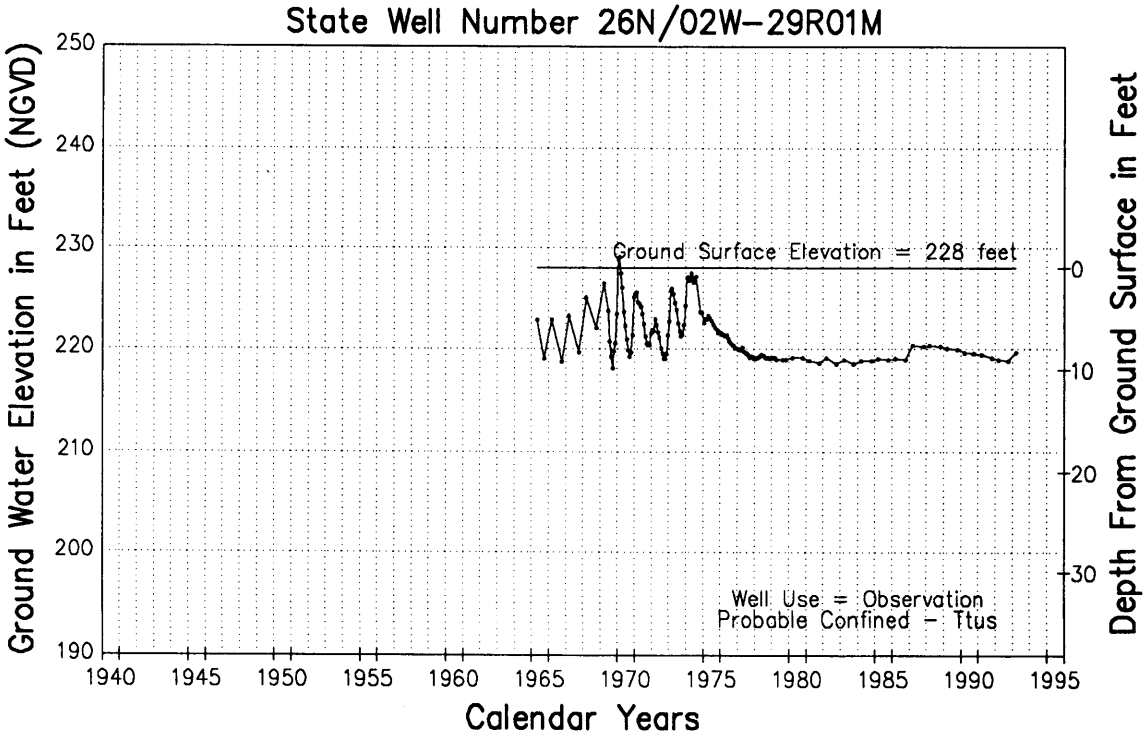
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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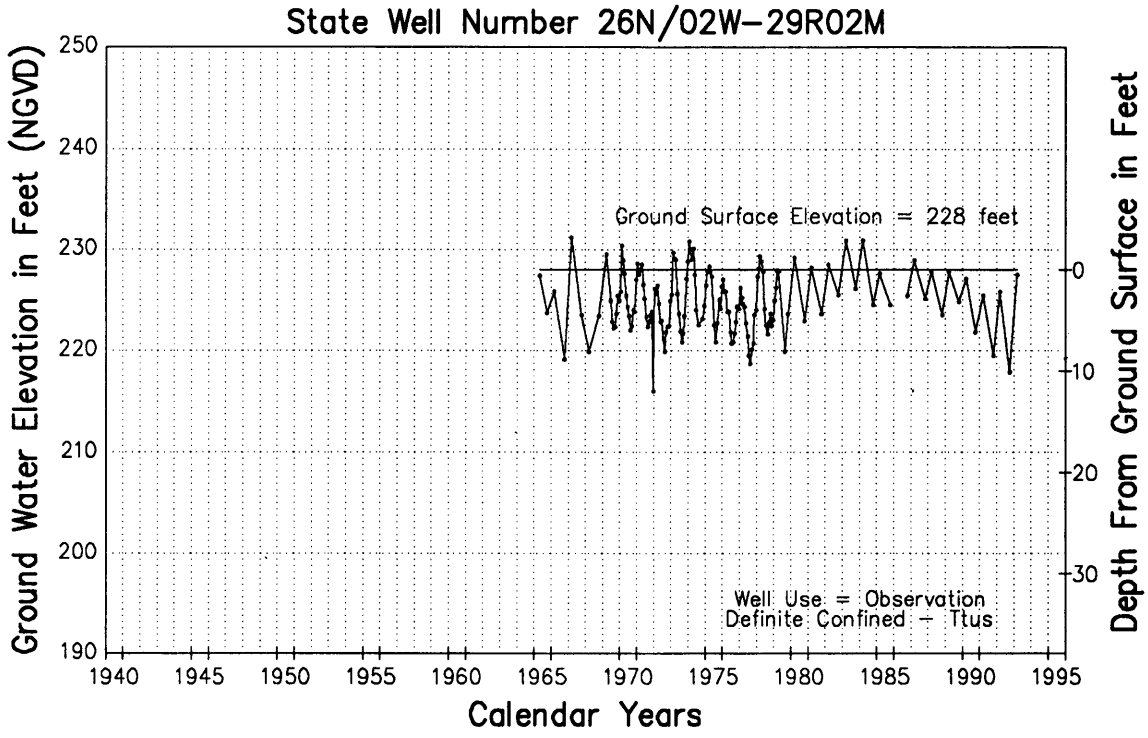
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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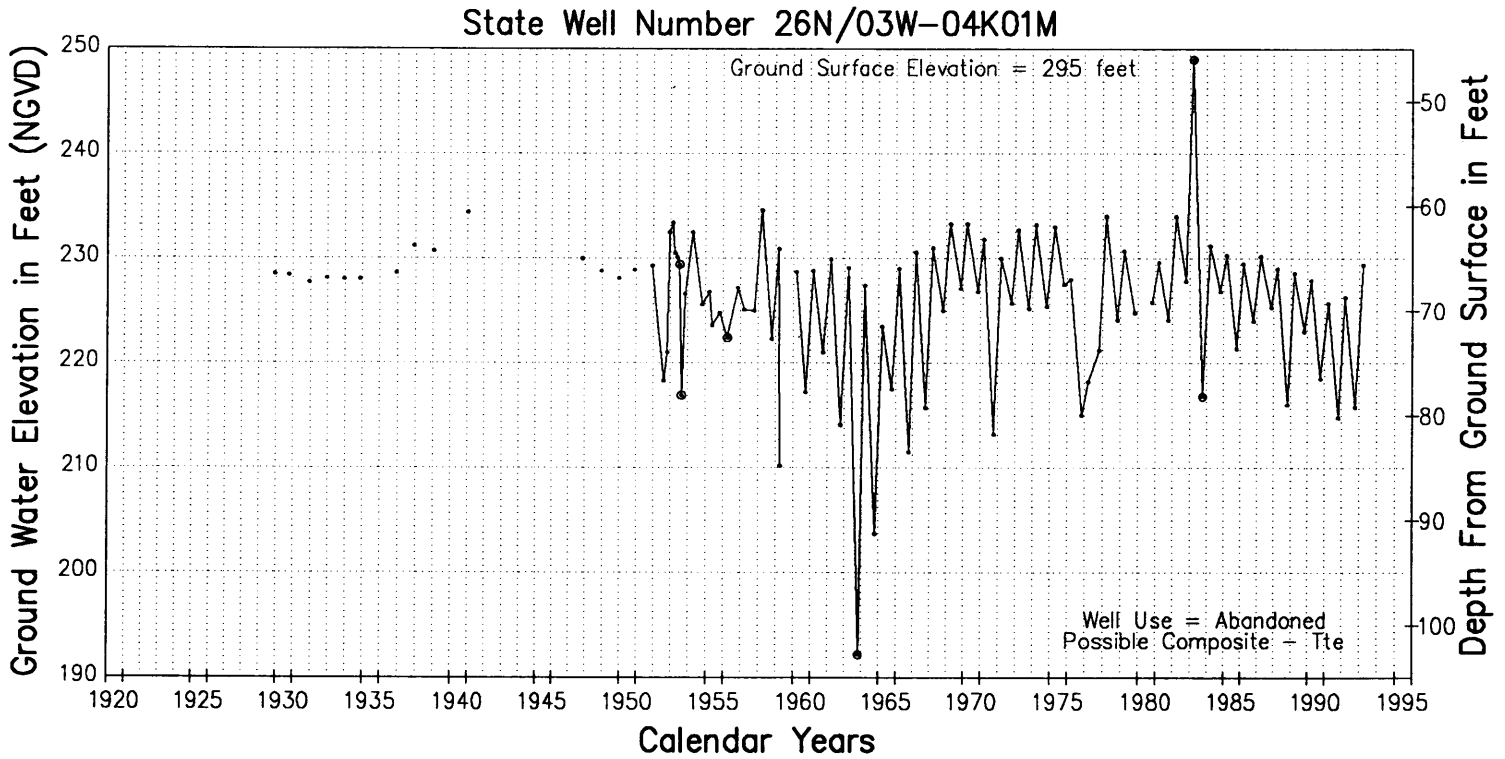
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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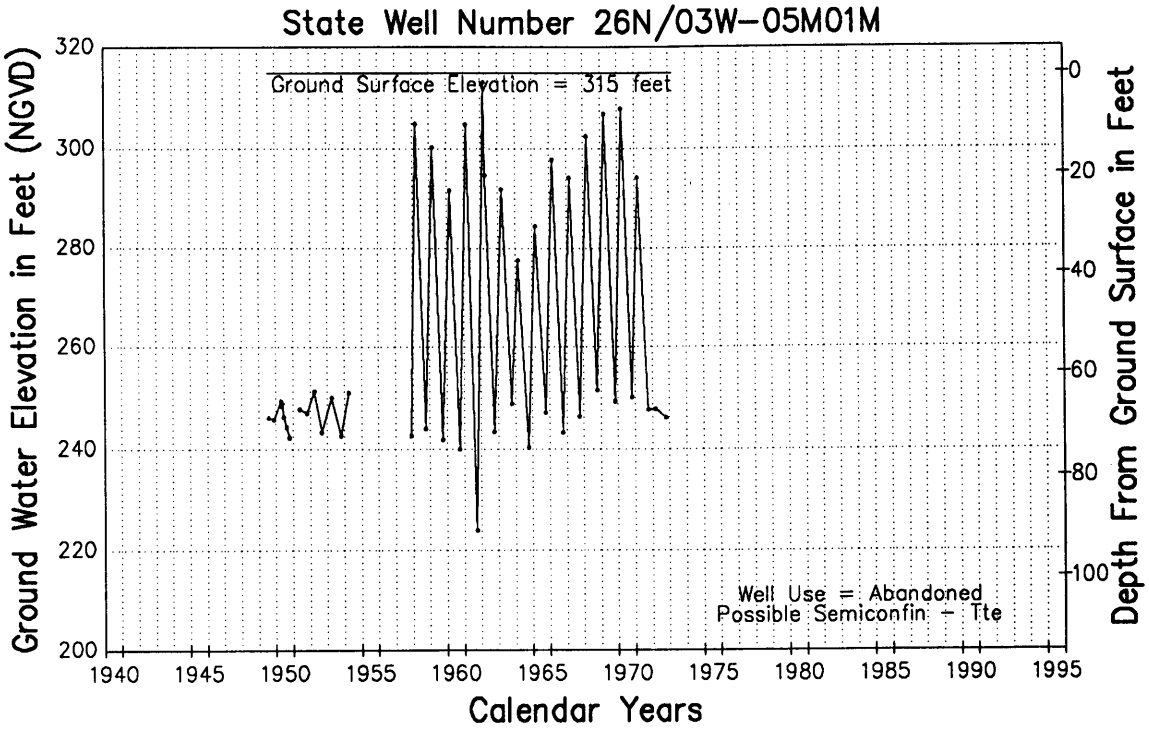
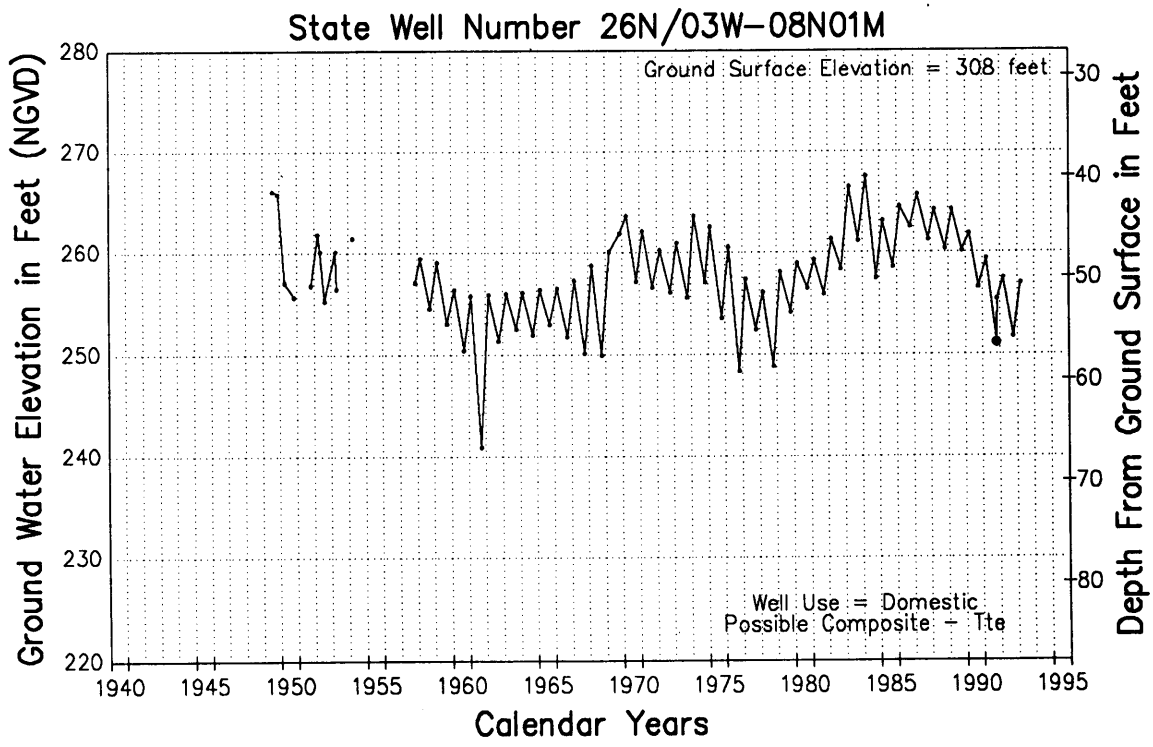
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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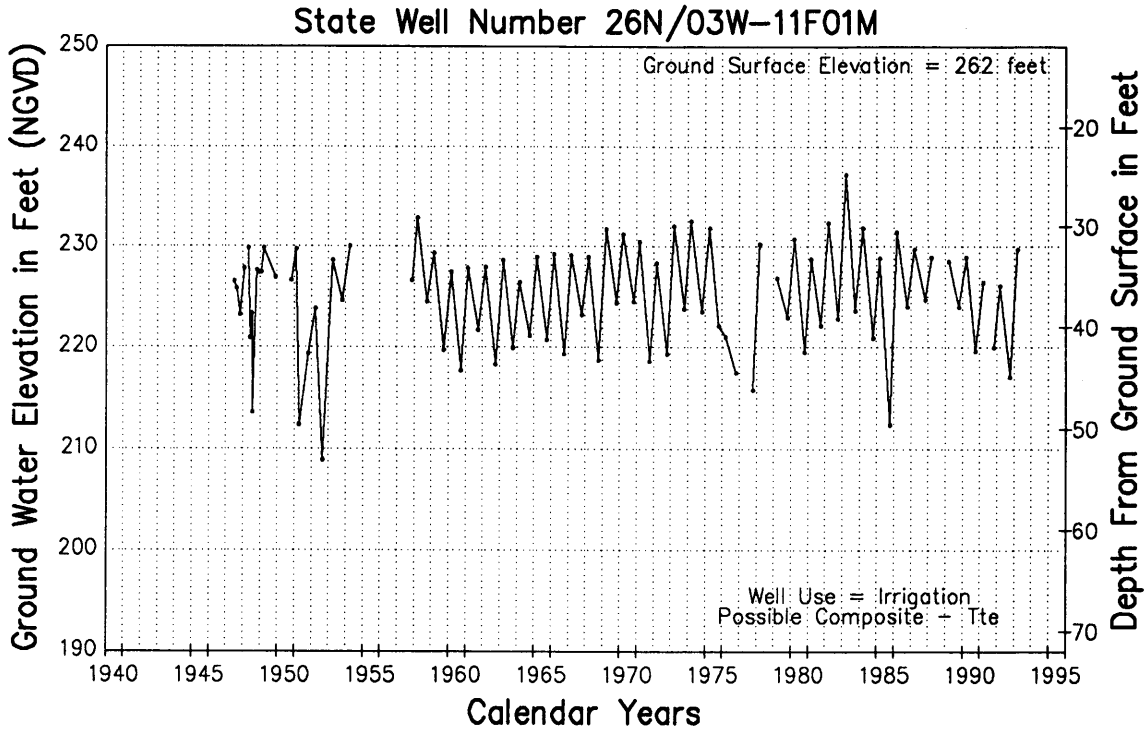
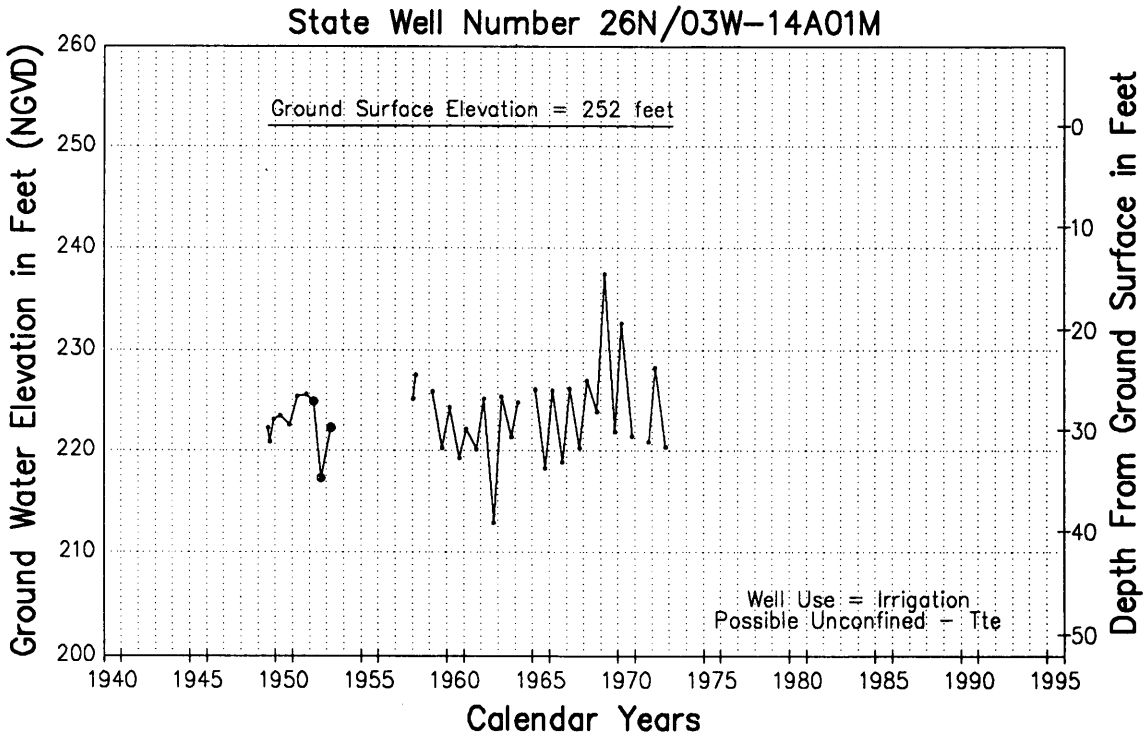
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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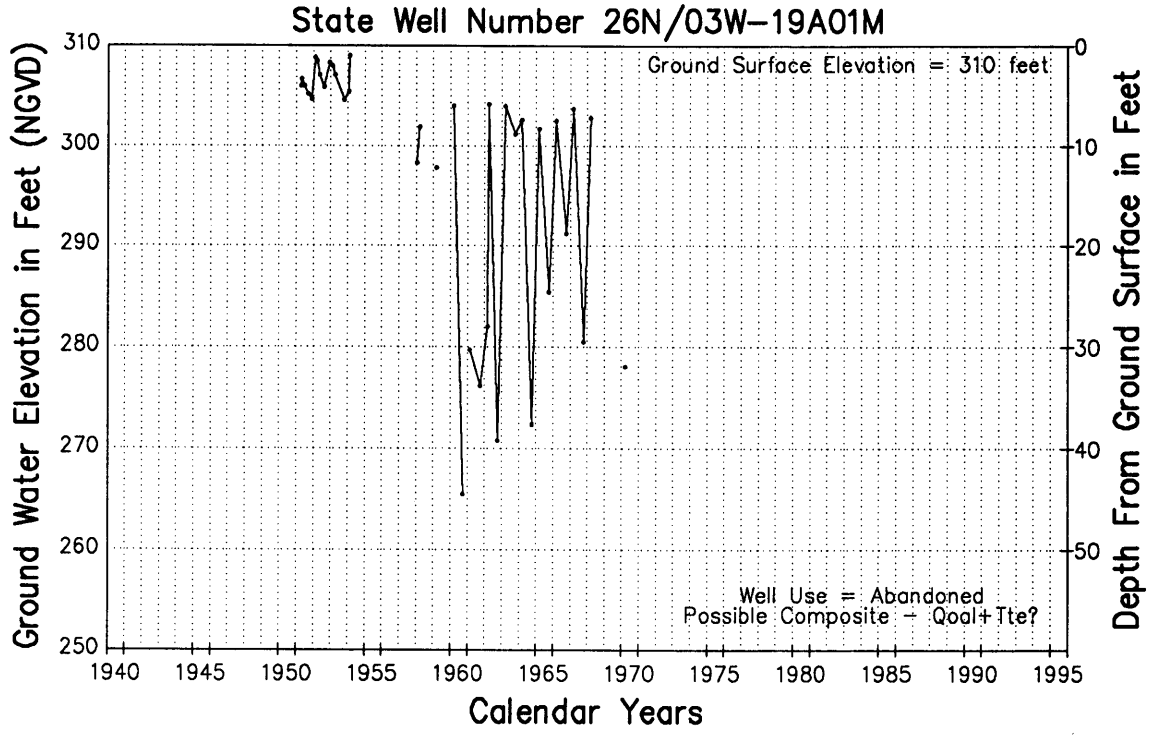
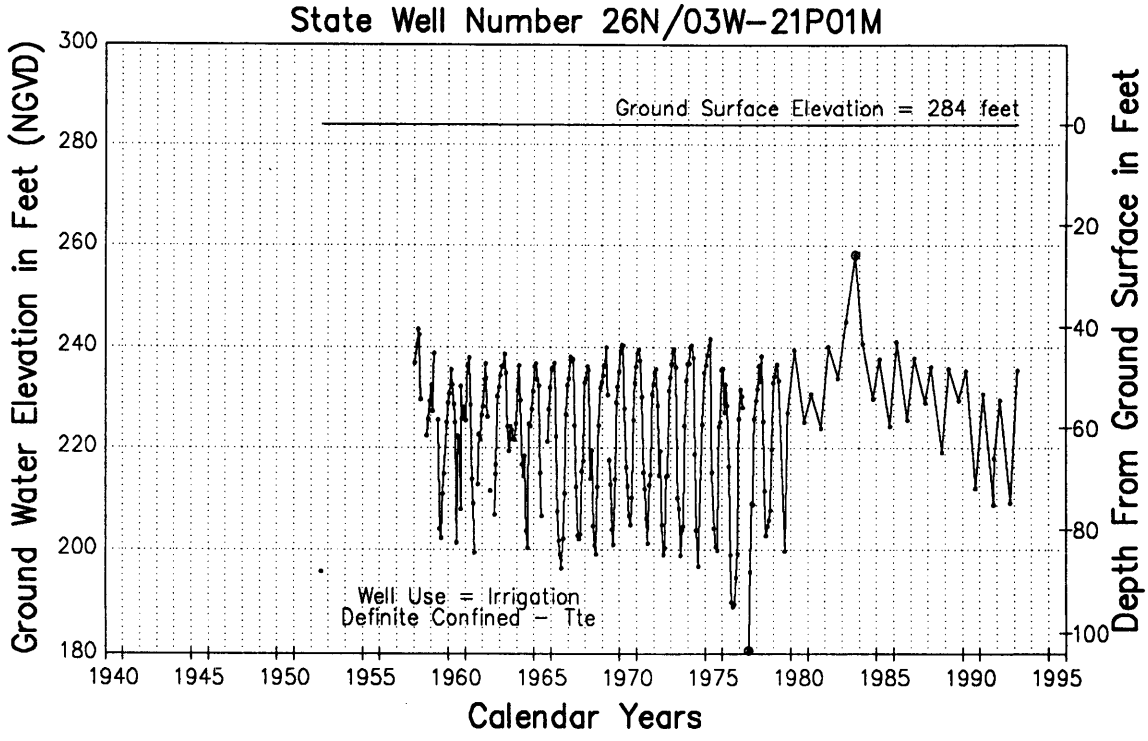
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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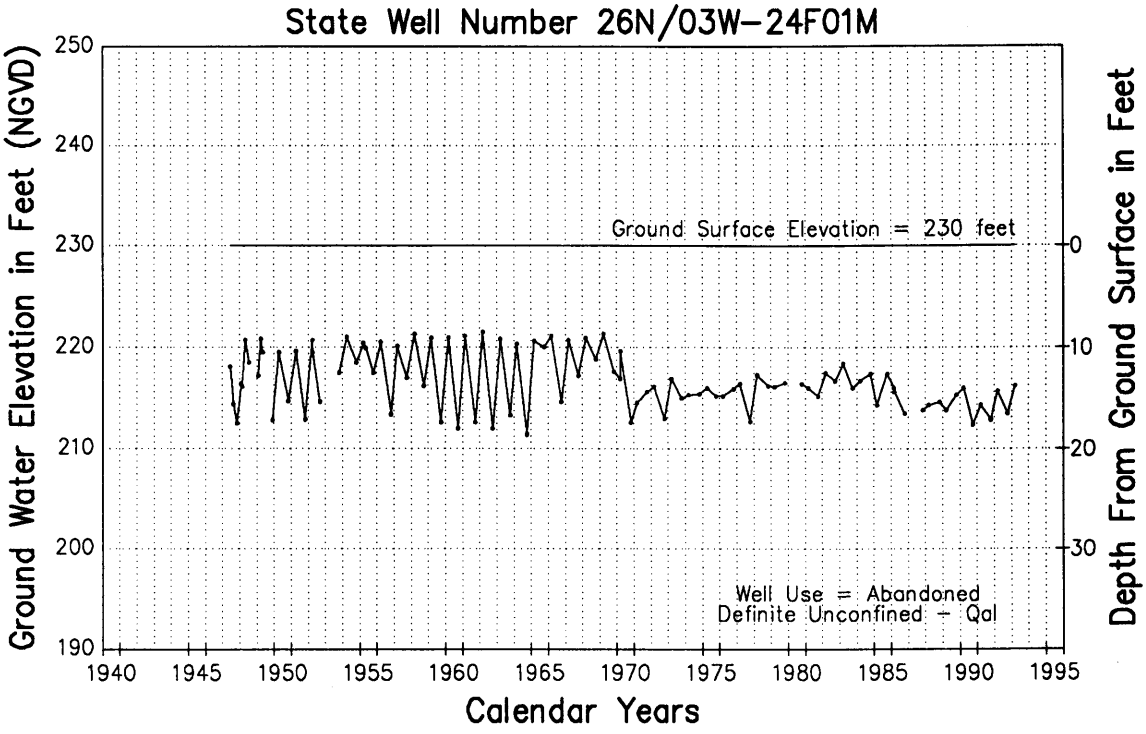
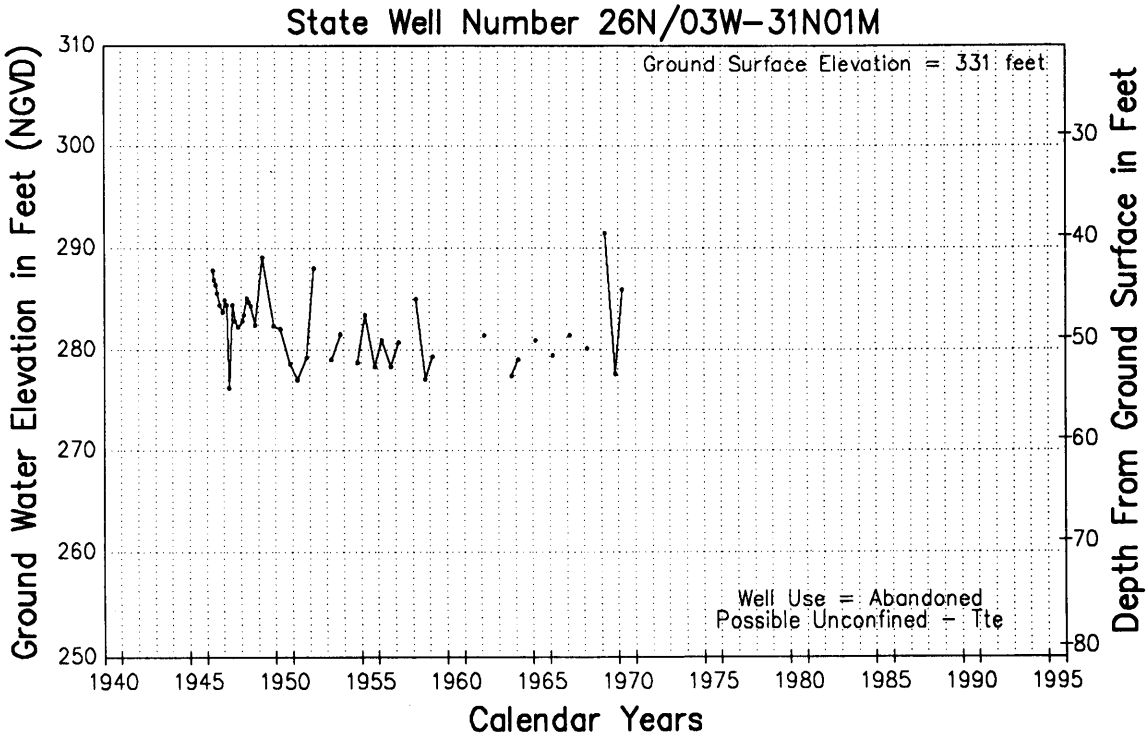
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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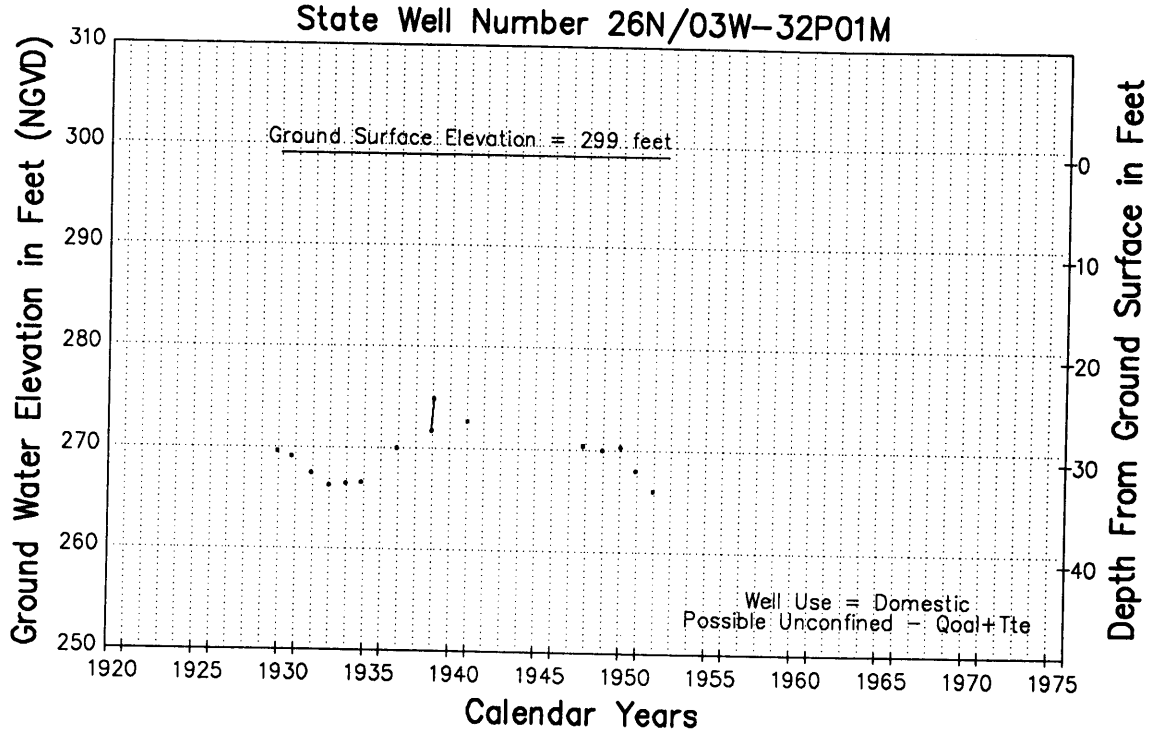
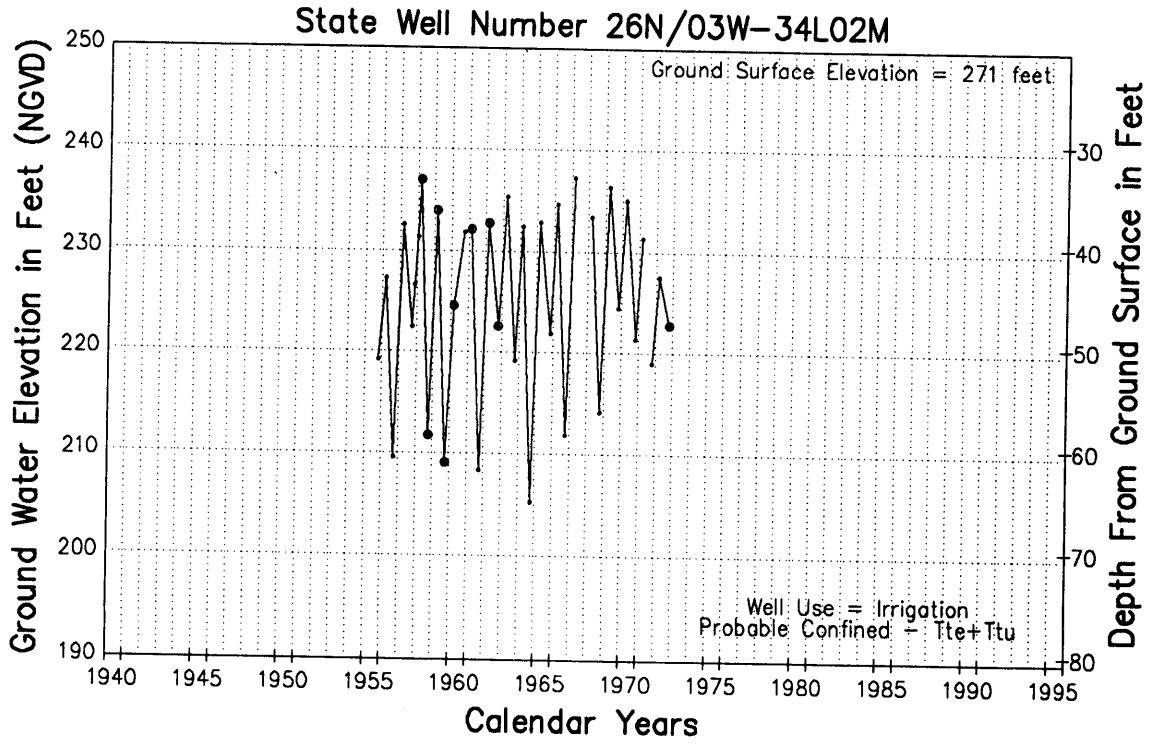
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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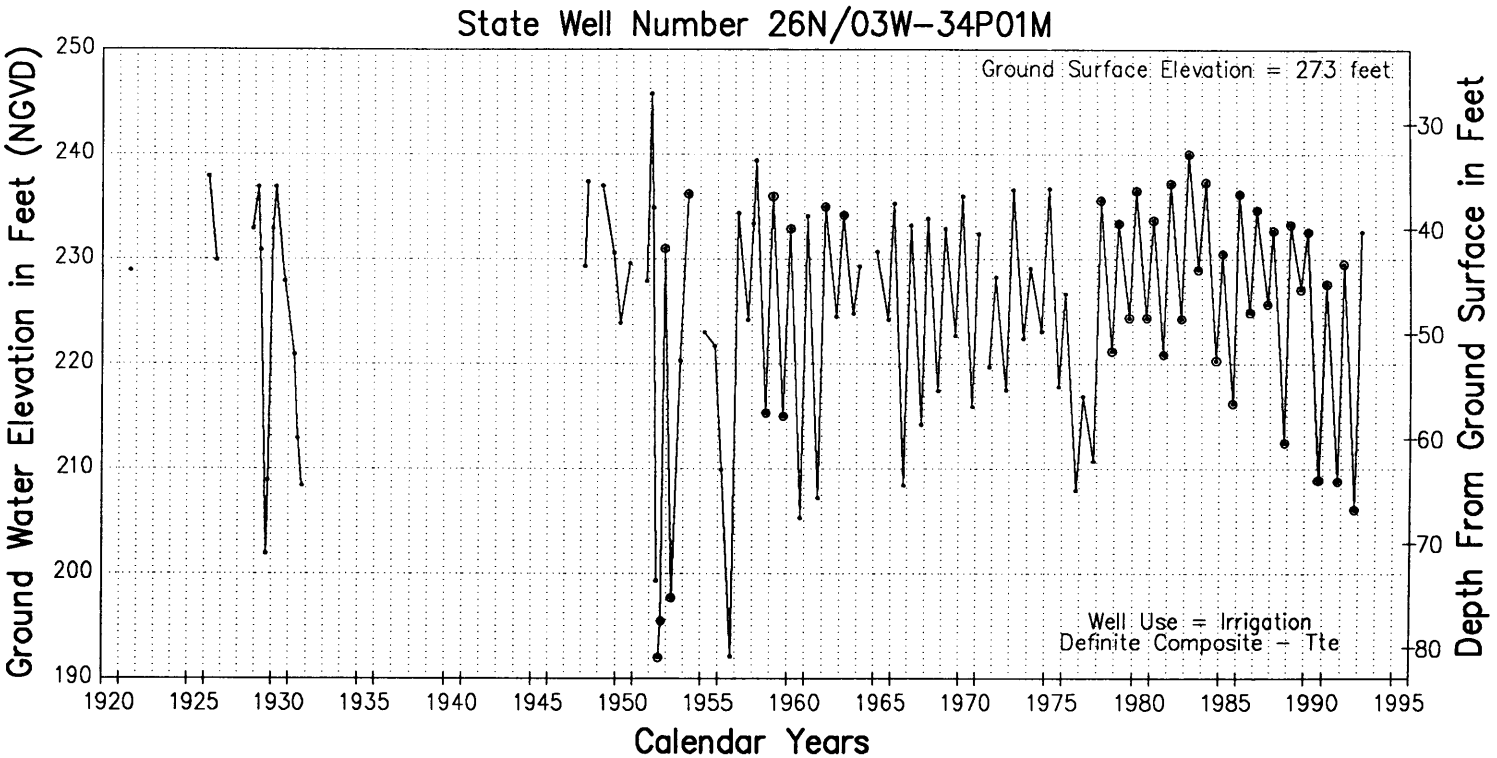
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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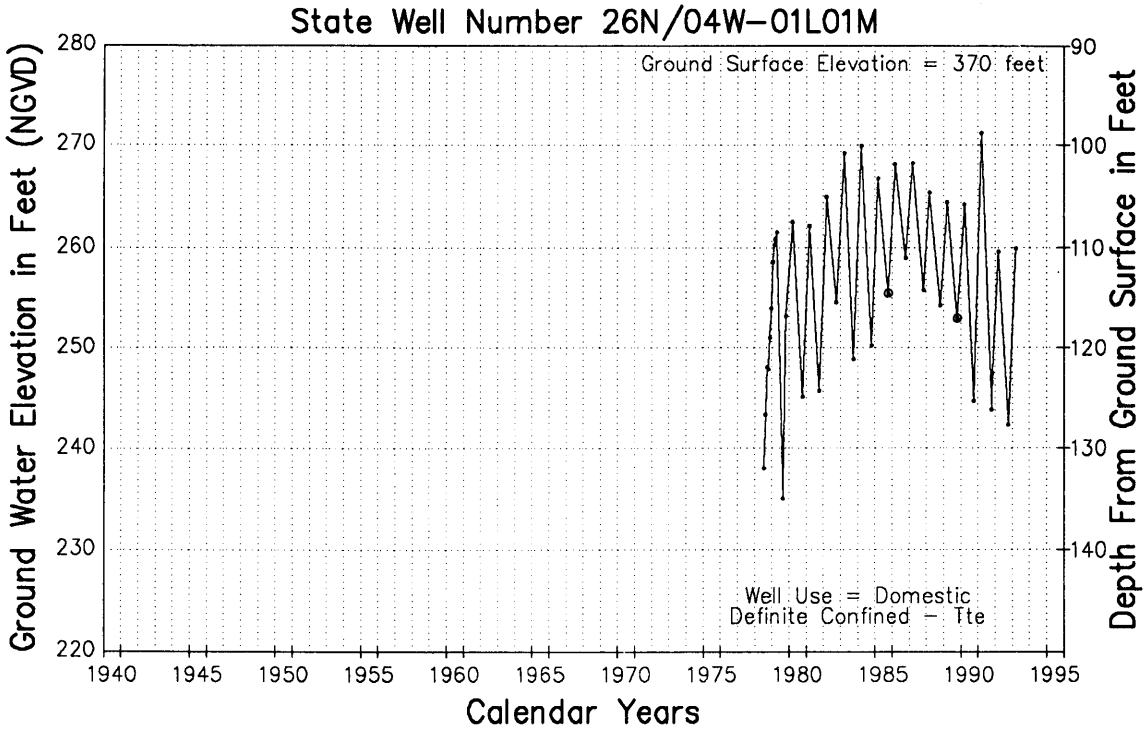
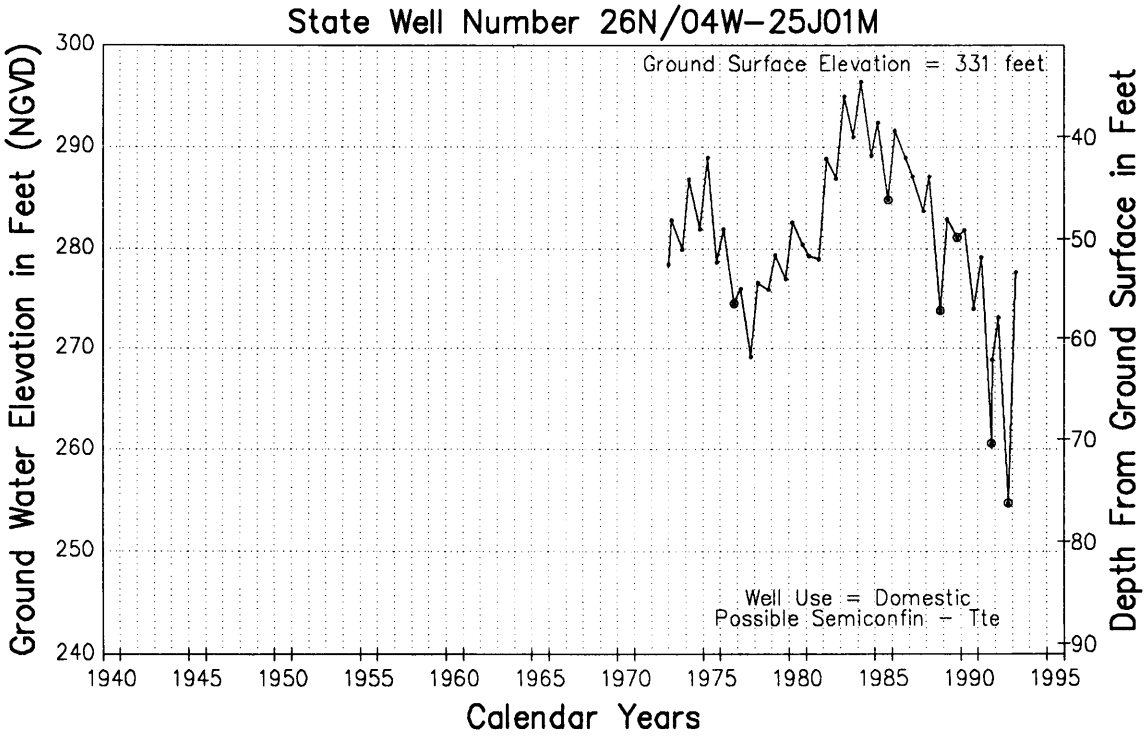
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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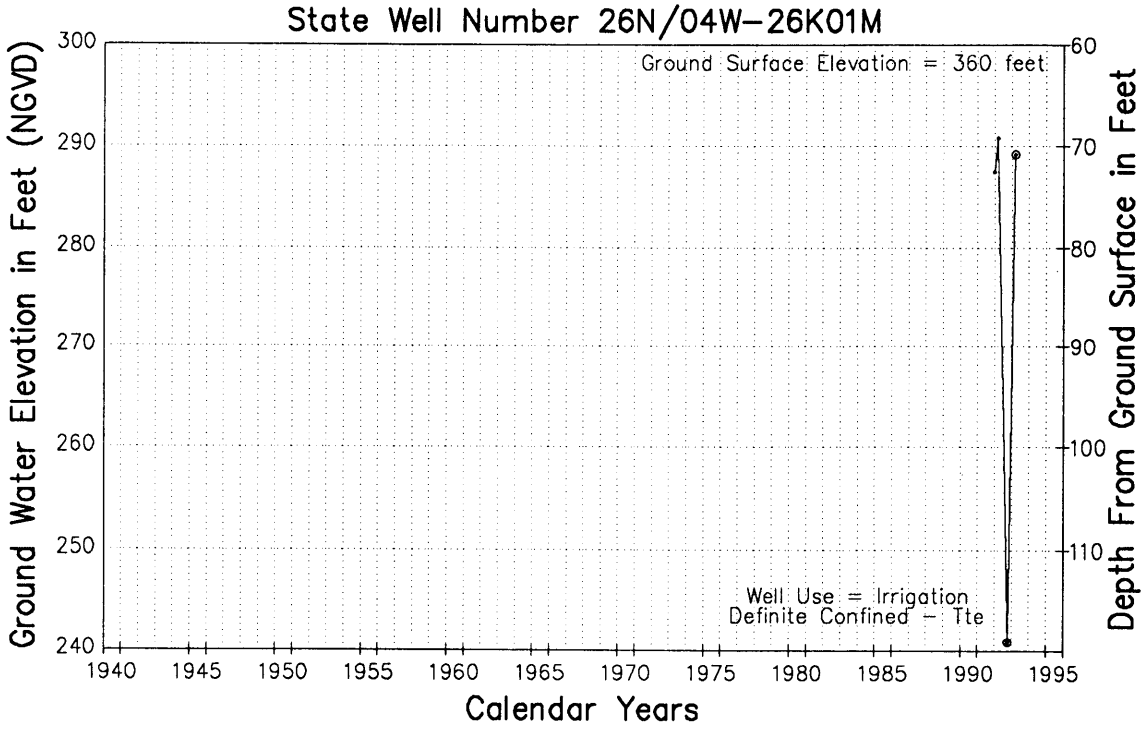
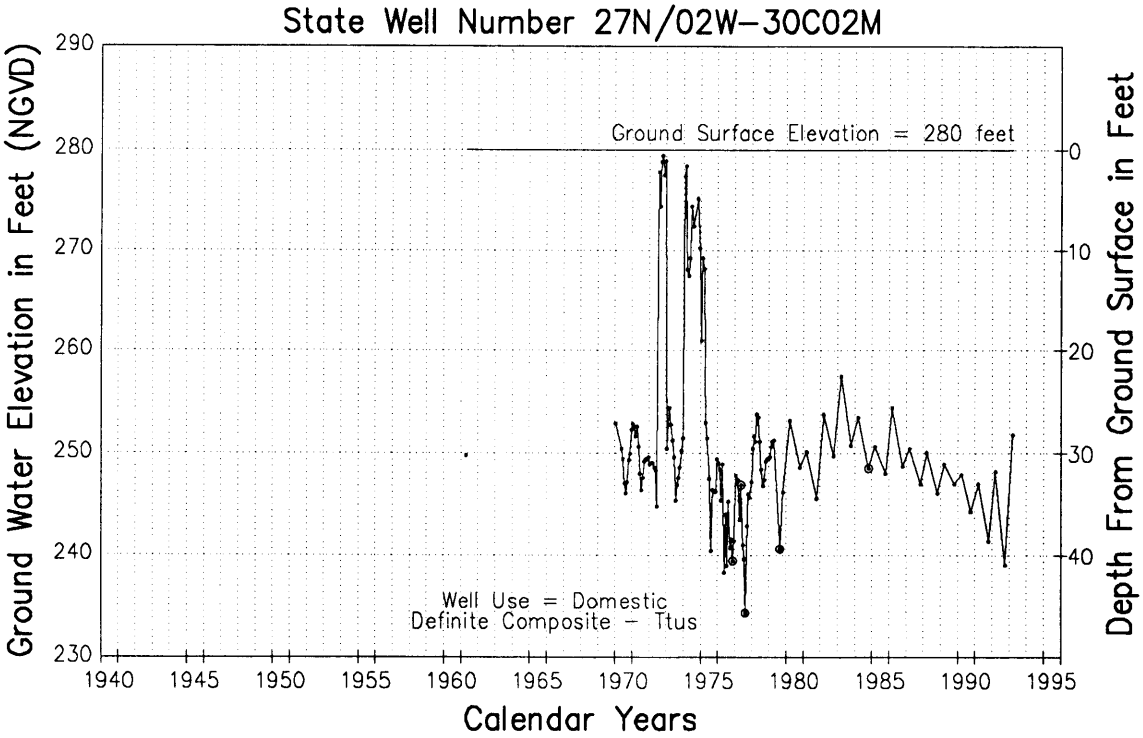
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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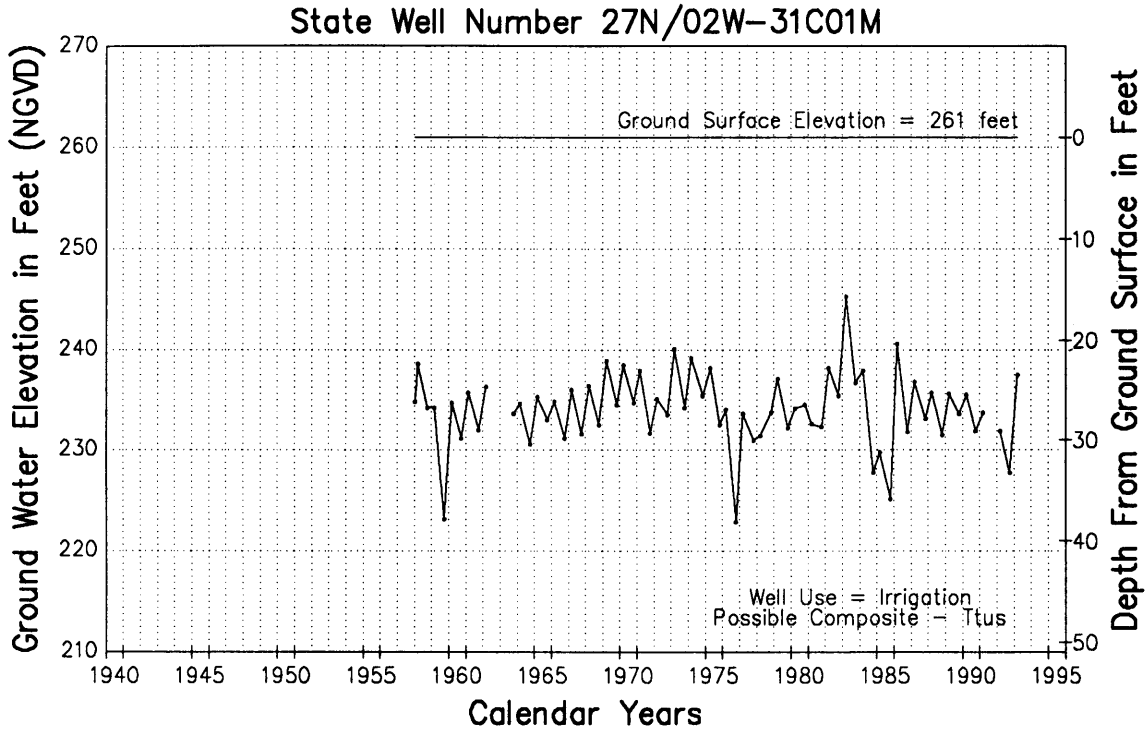
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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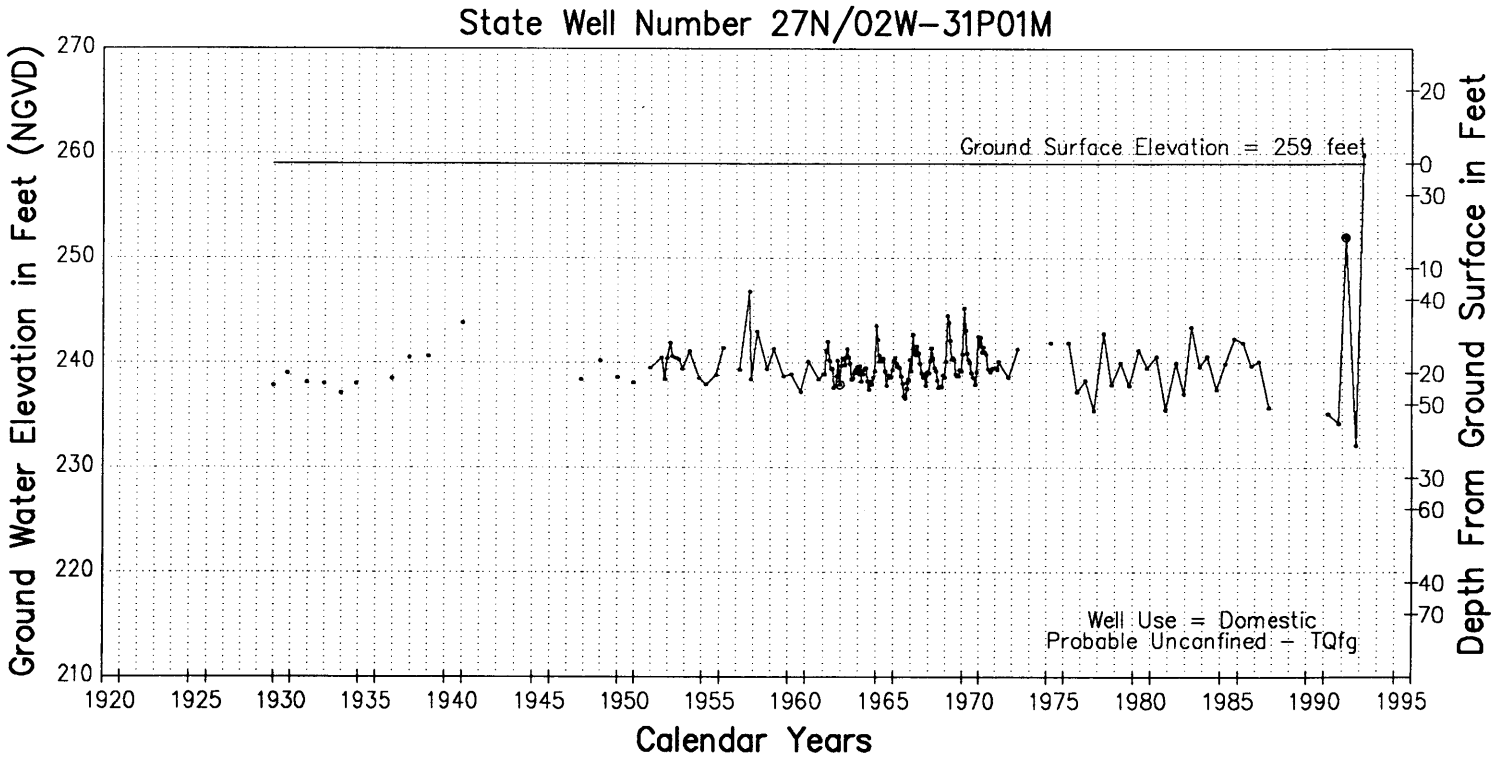
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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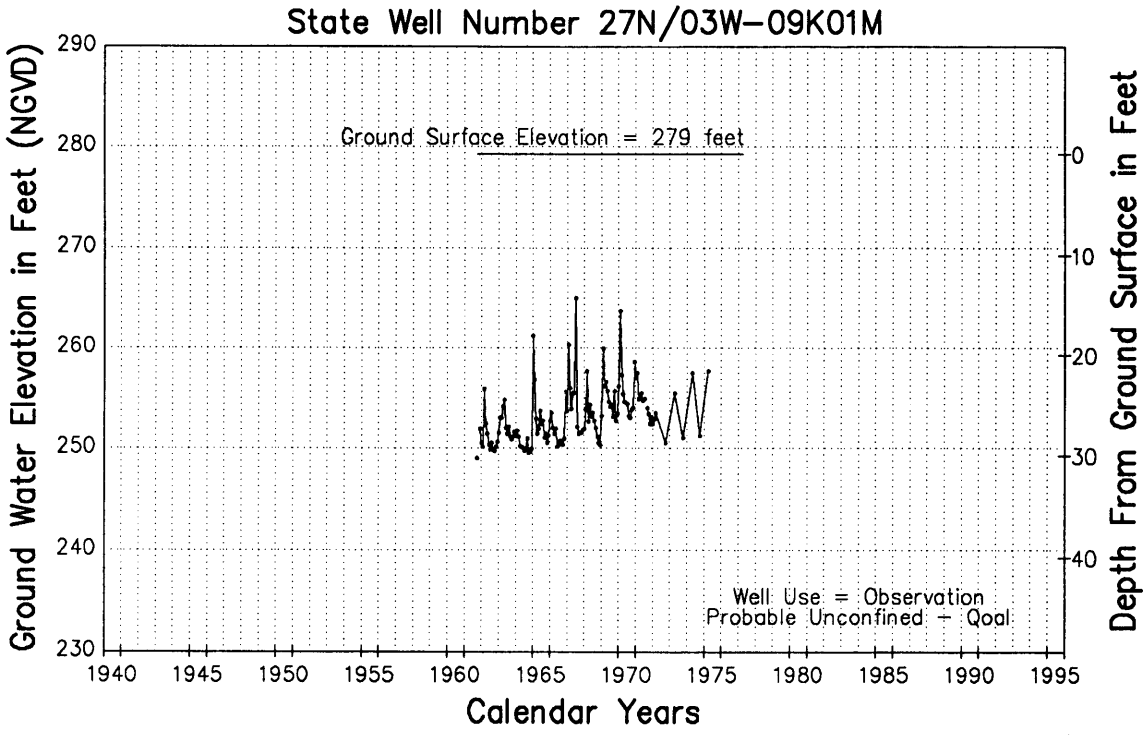
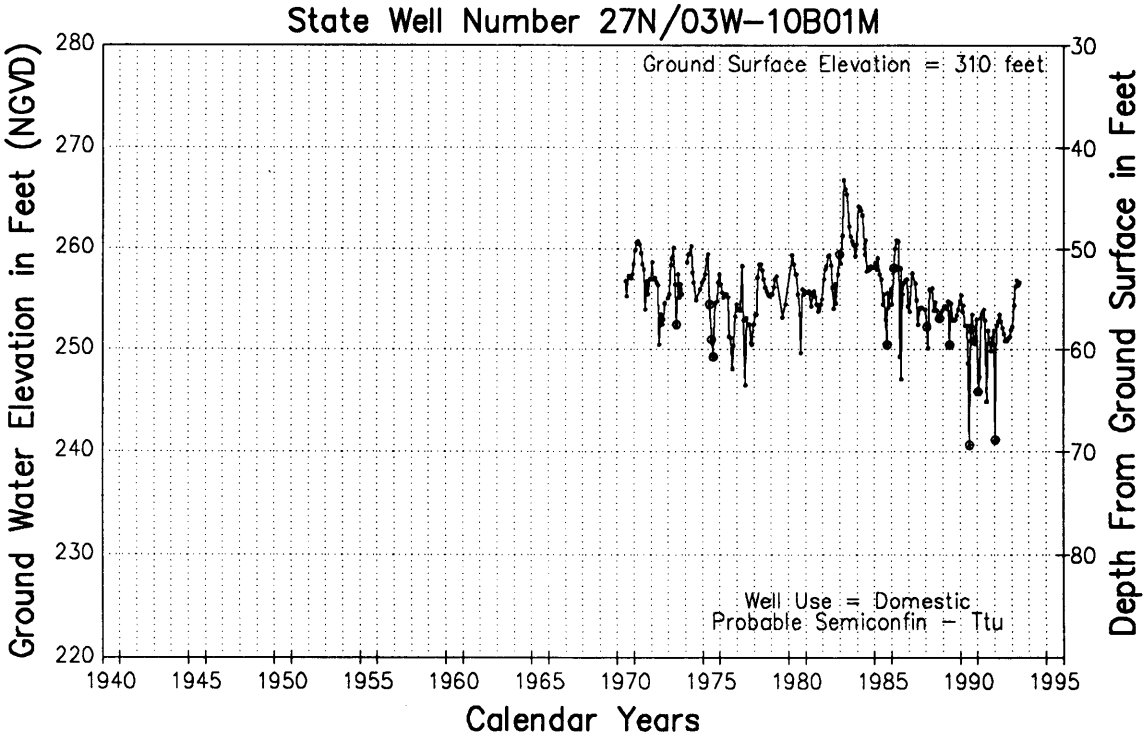
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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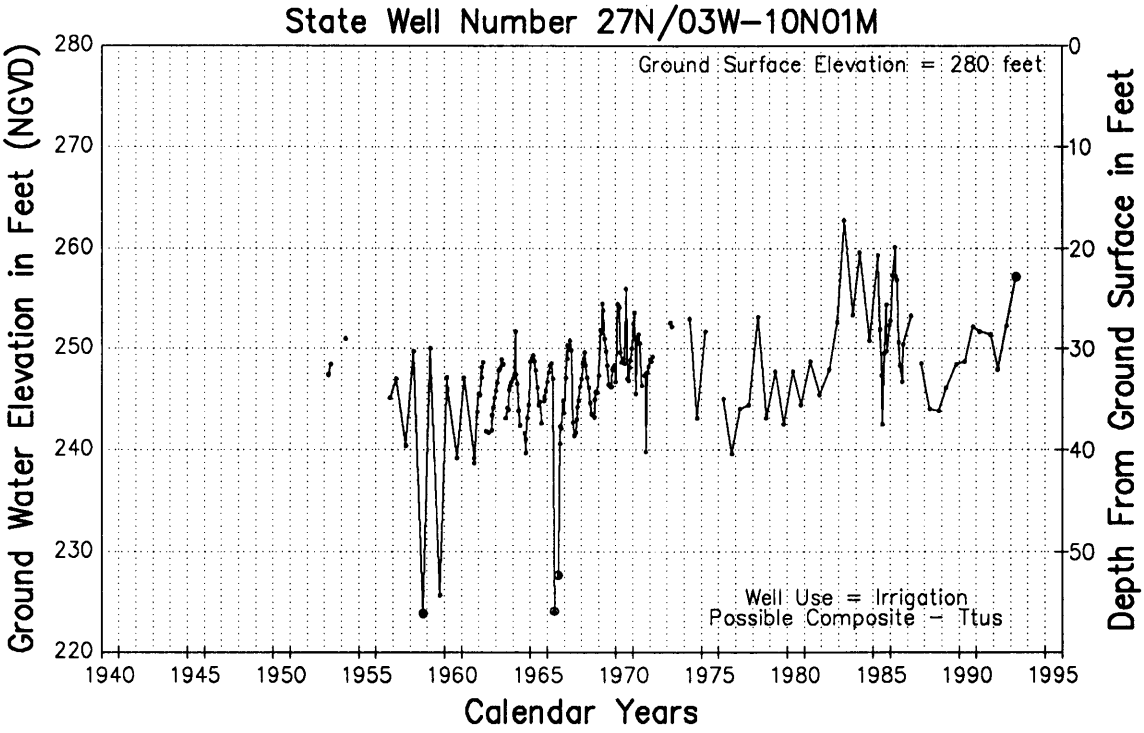
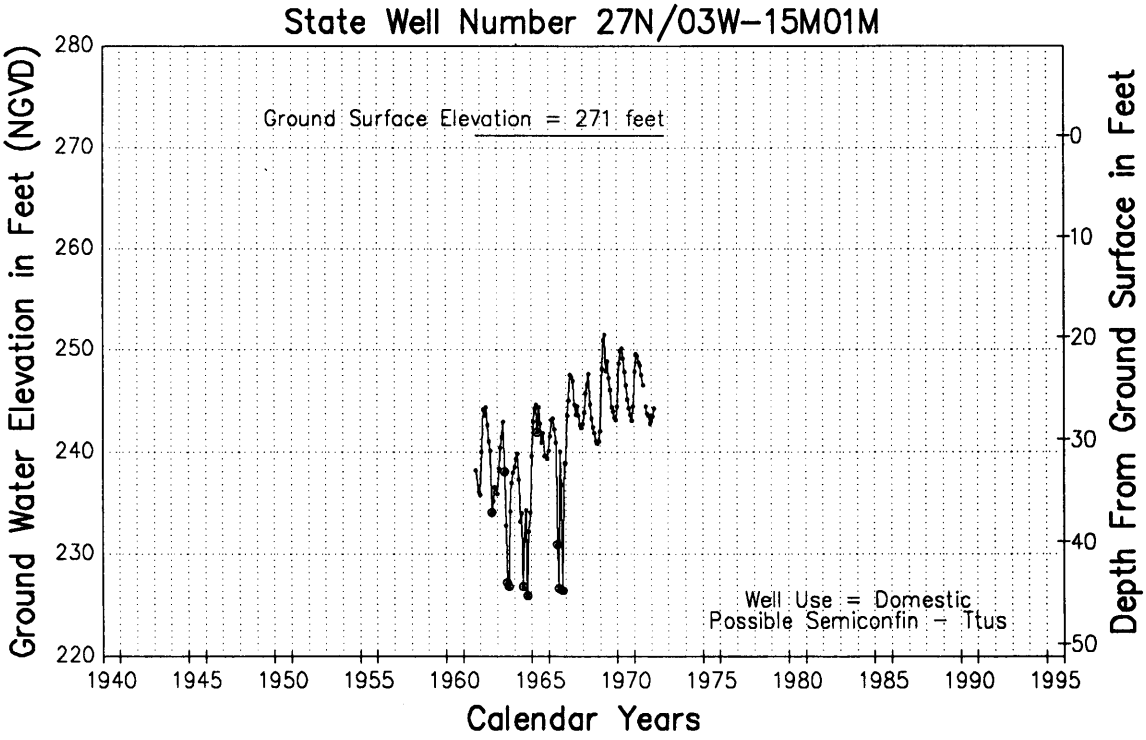
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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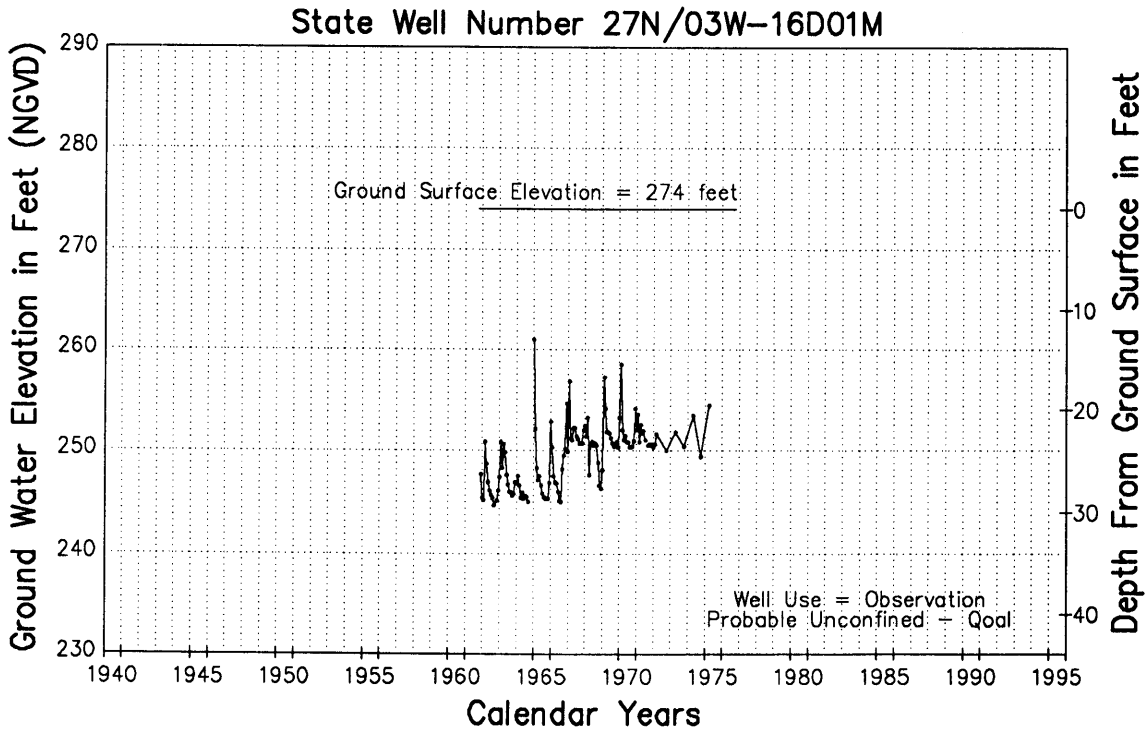
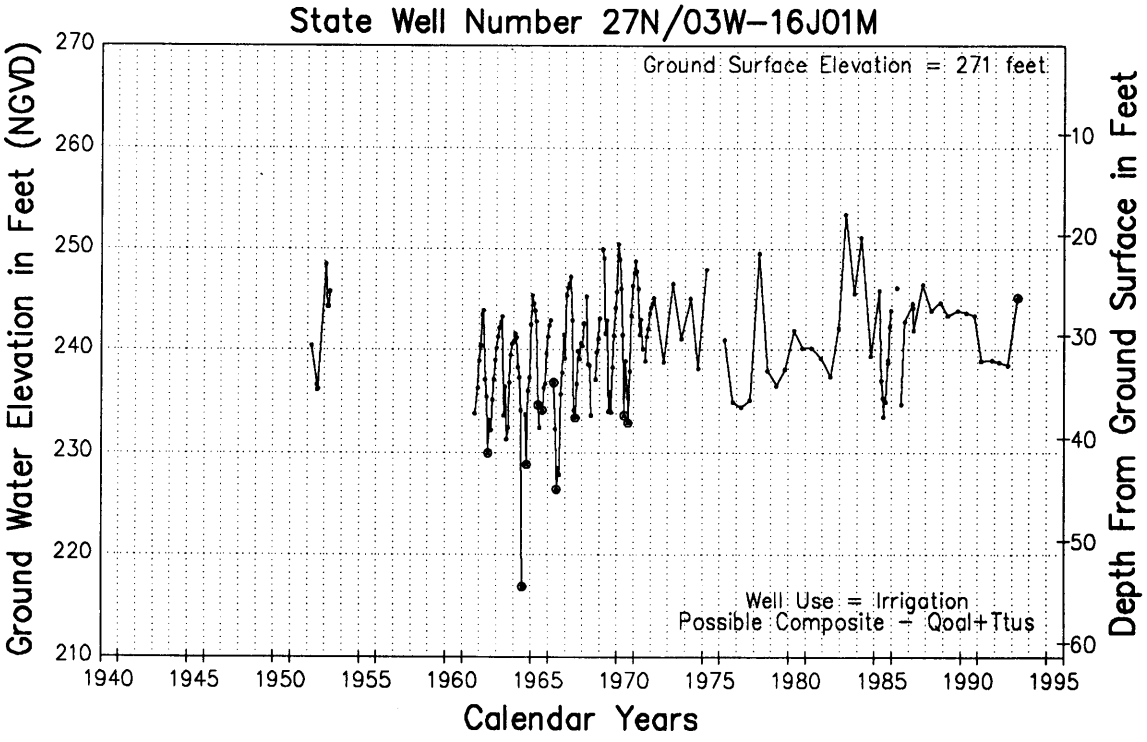
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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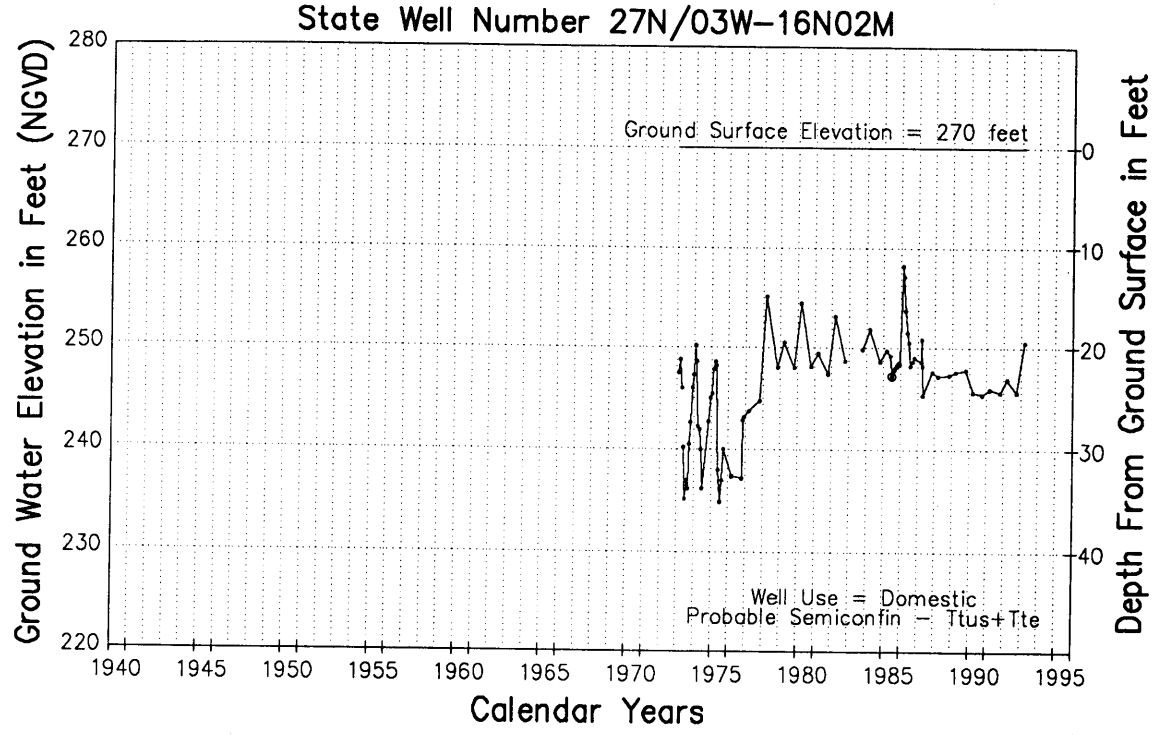
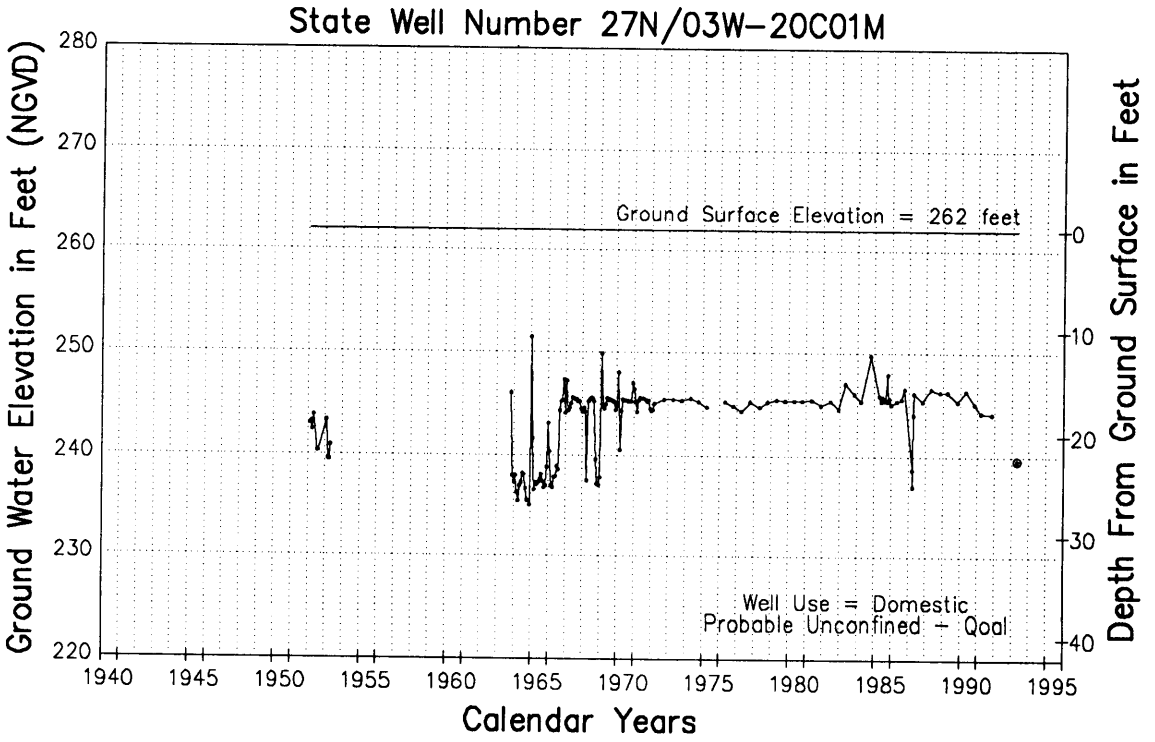
Sacramento Valley Ground Water Basin
Tehama County





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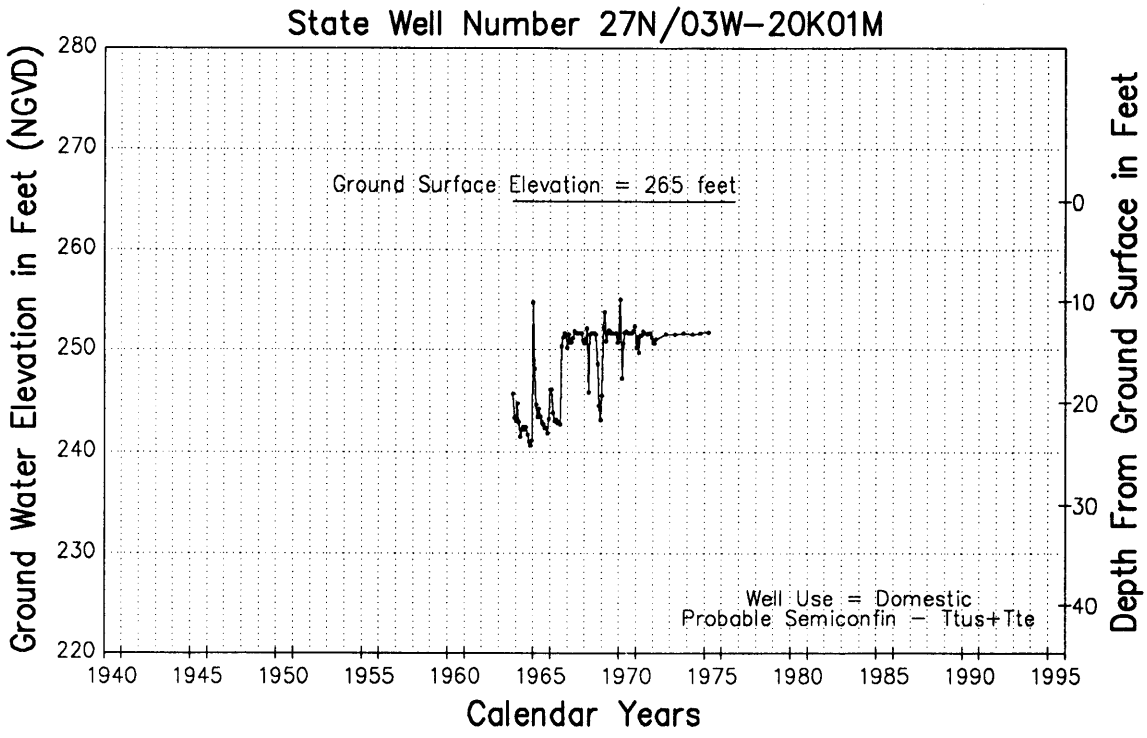
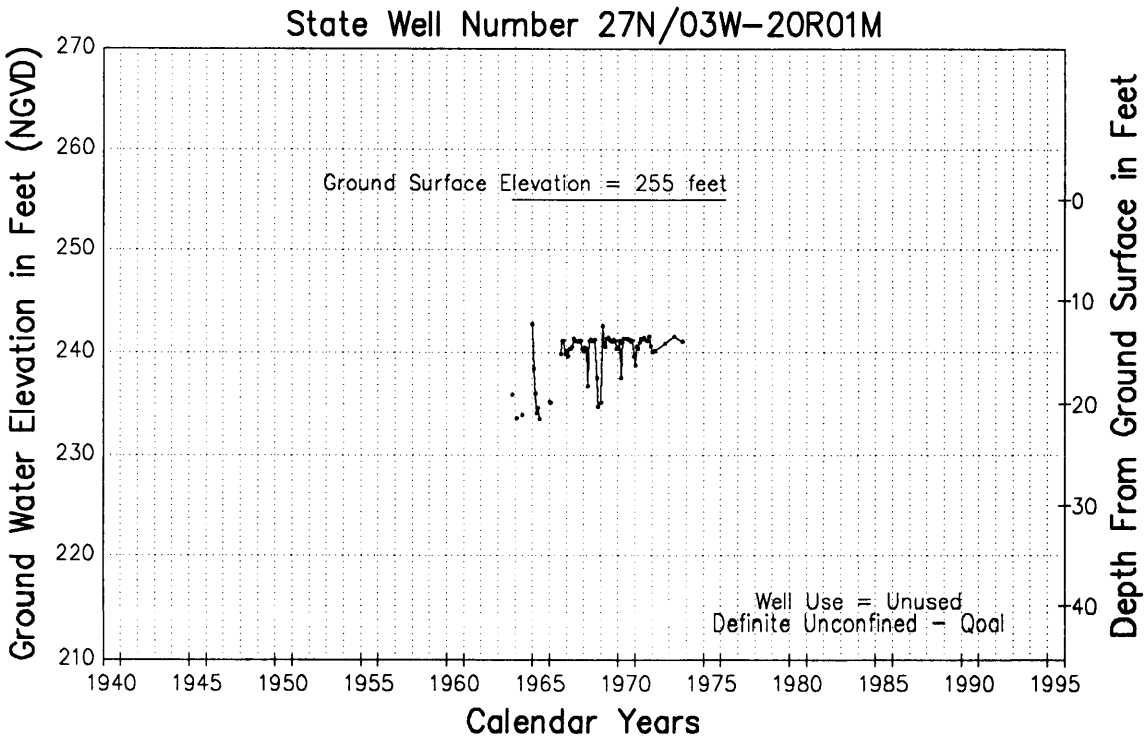
Sacramento Valley Ground Water Basin
Tehama County





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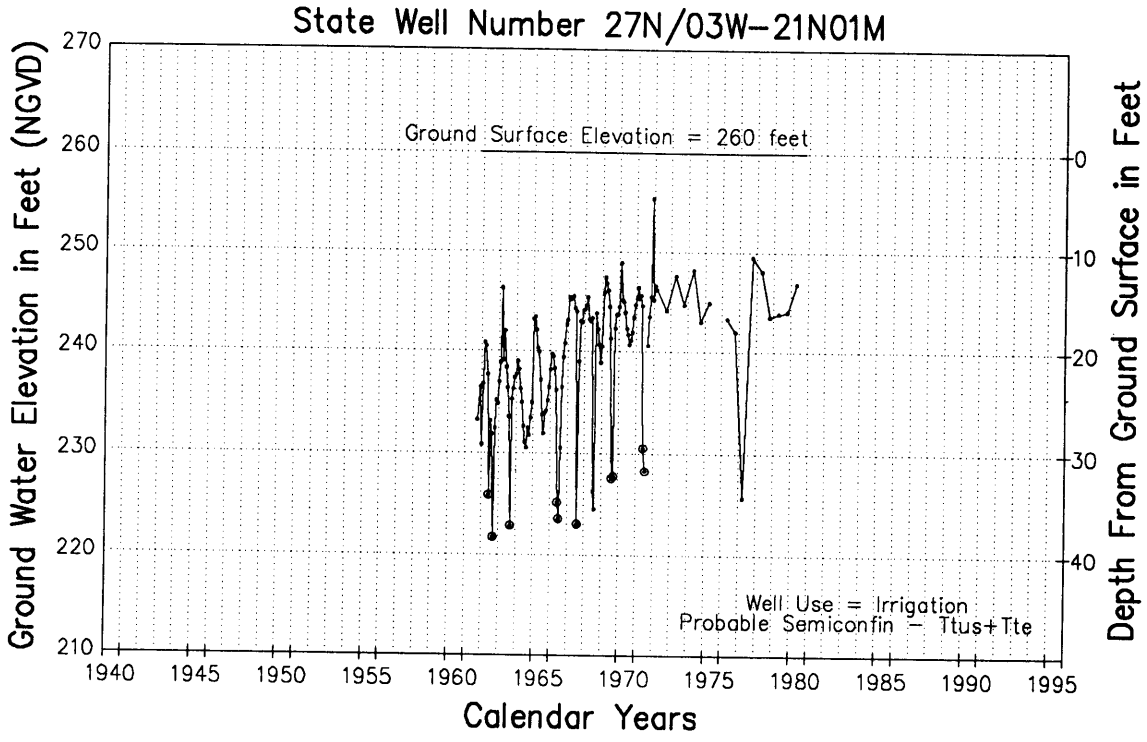
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County



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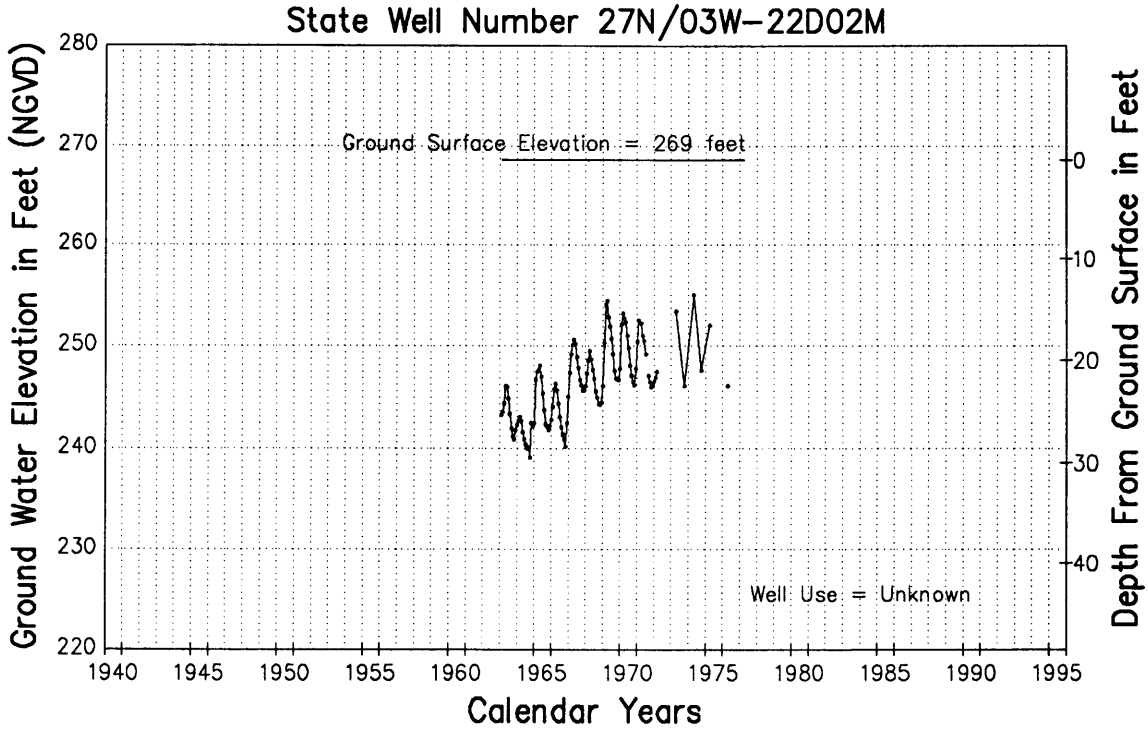
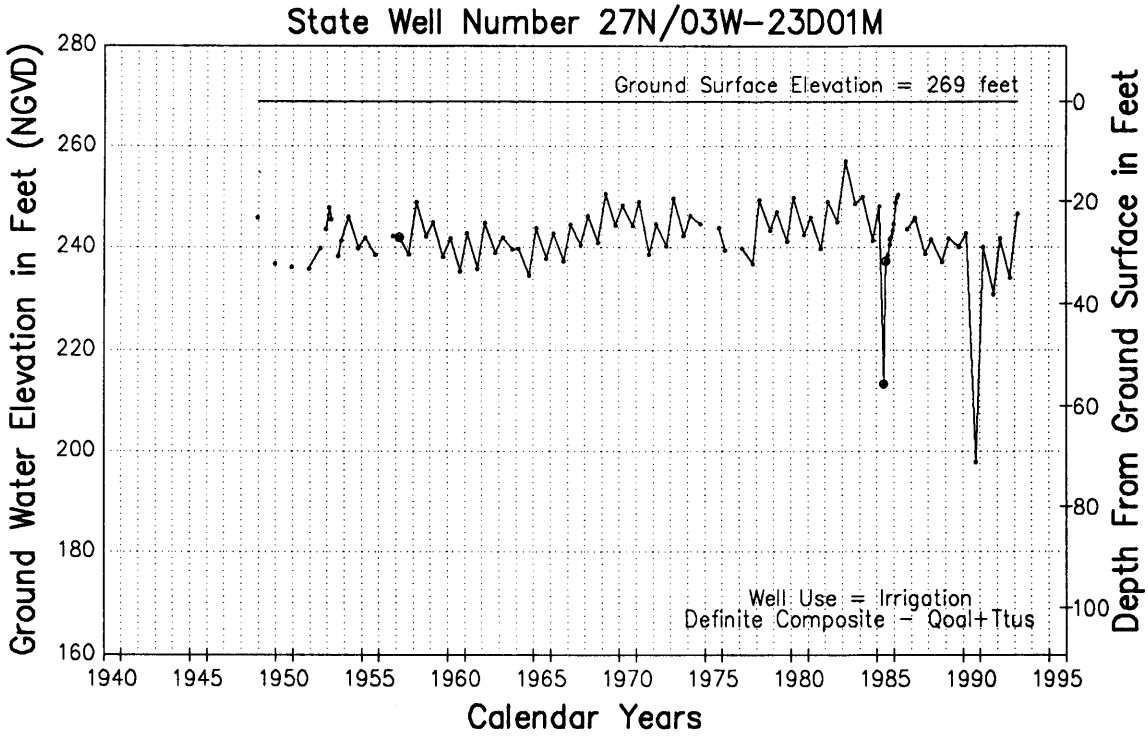
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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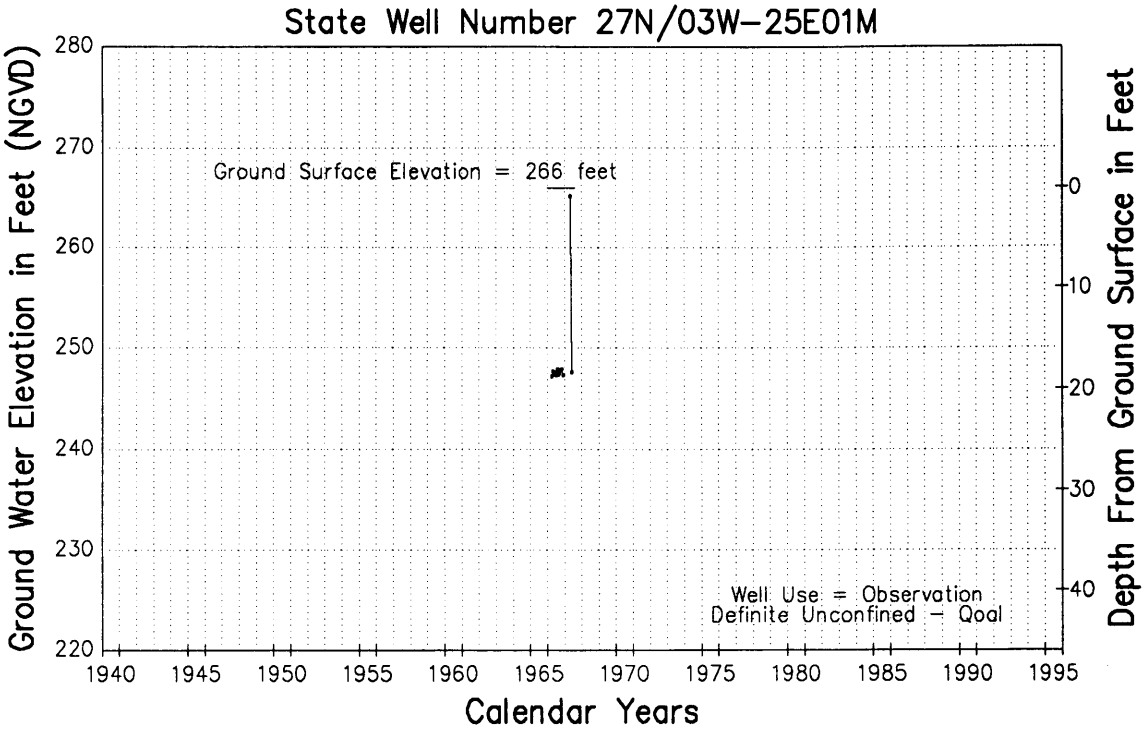
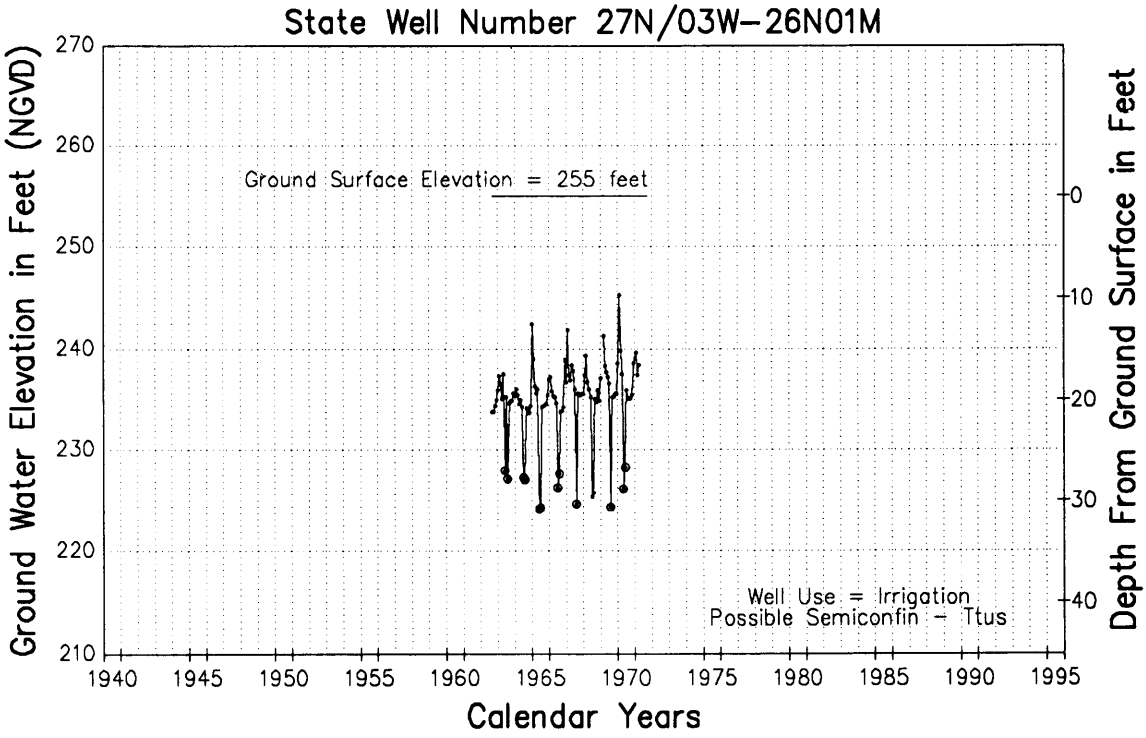
Sacramento Valley Ground Water Basin
Tehama County





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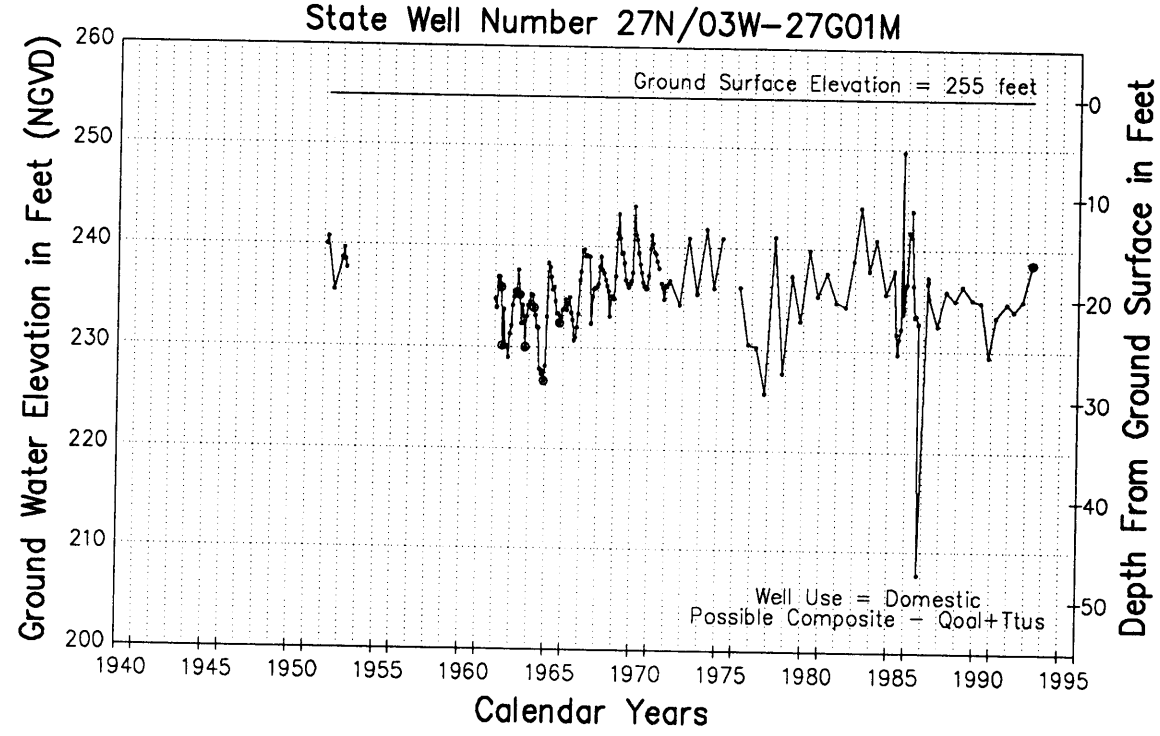
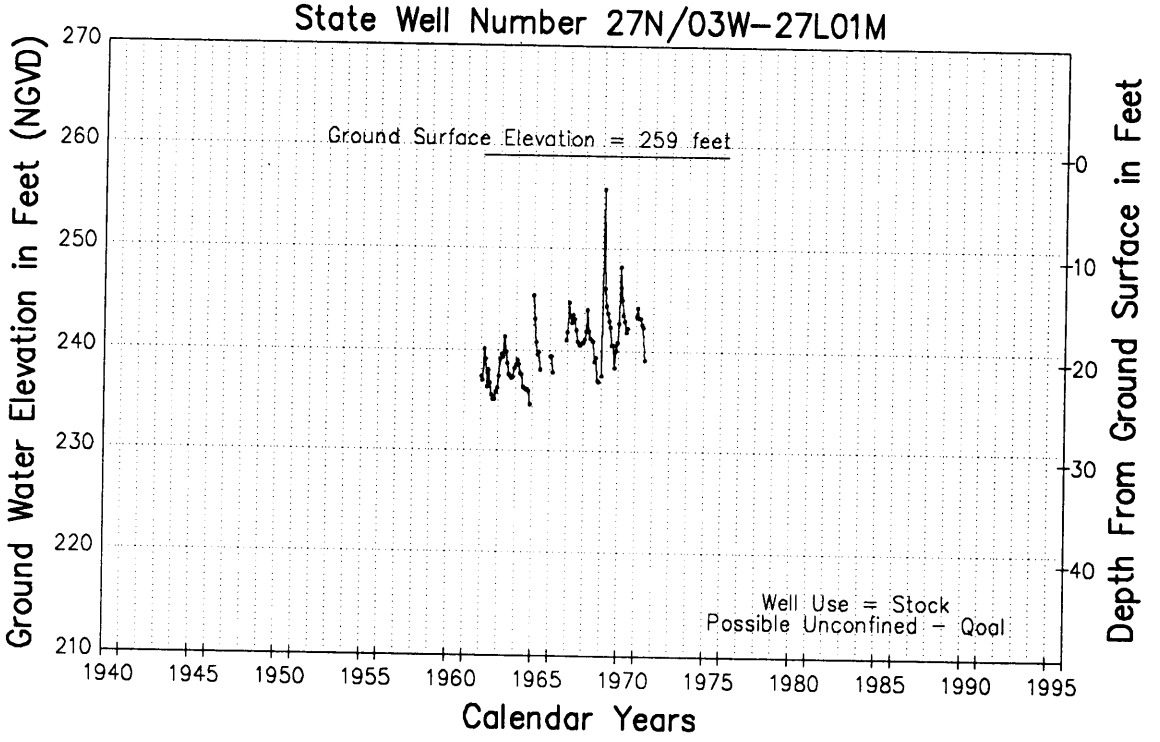
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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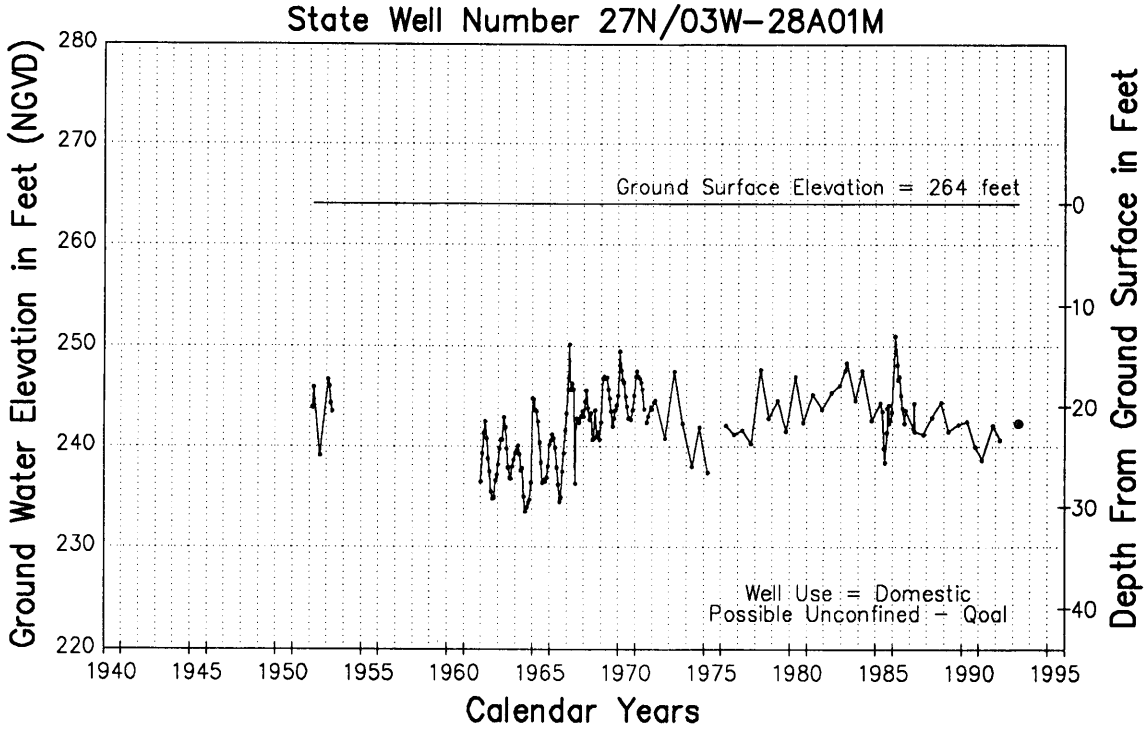
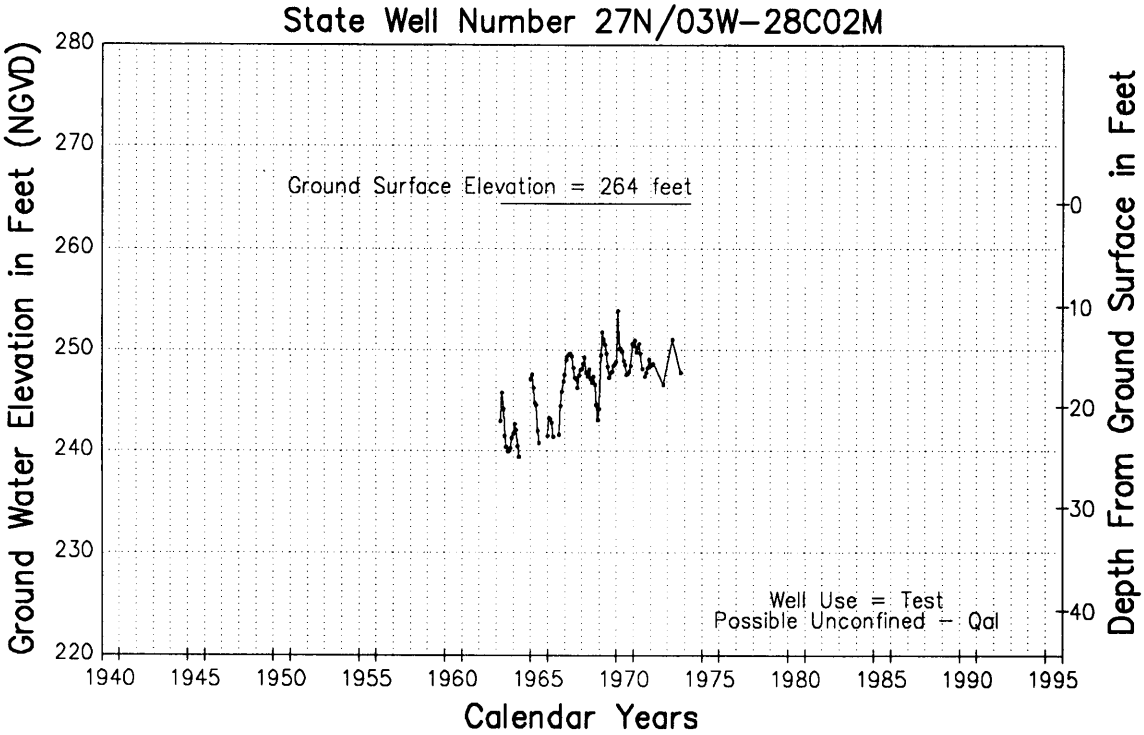
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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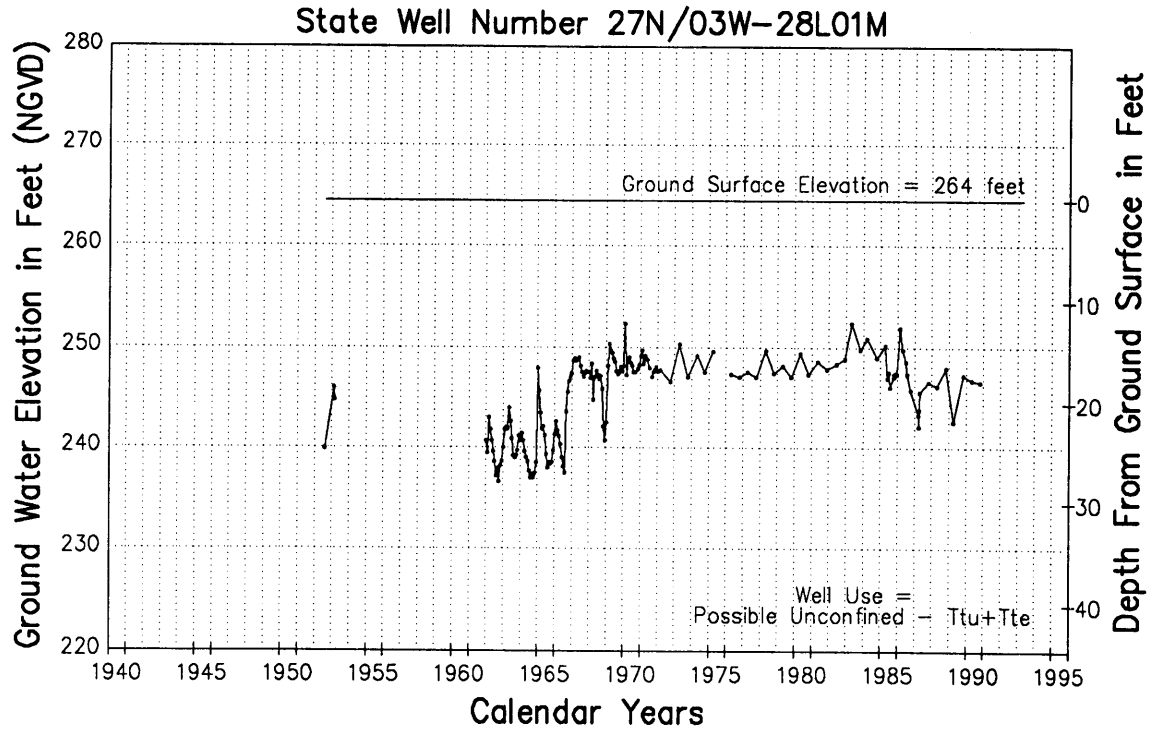
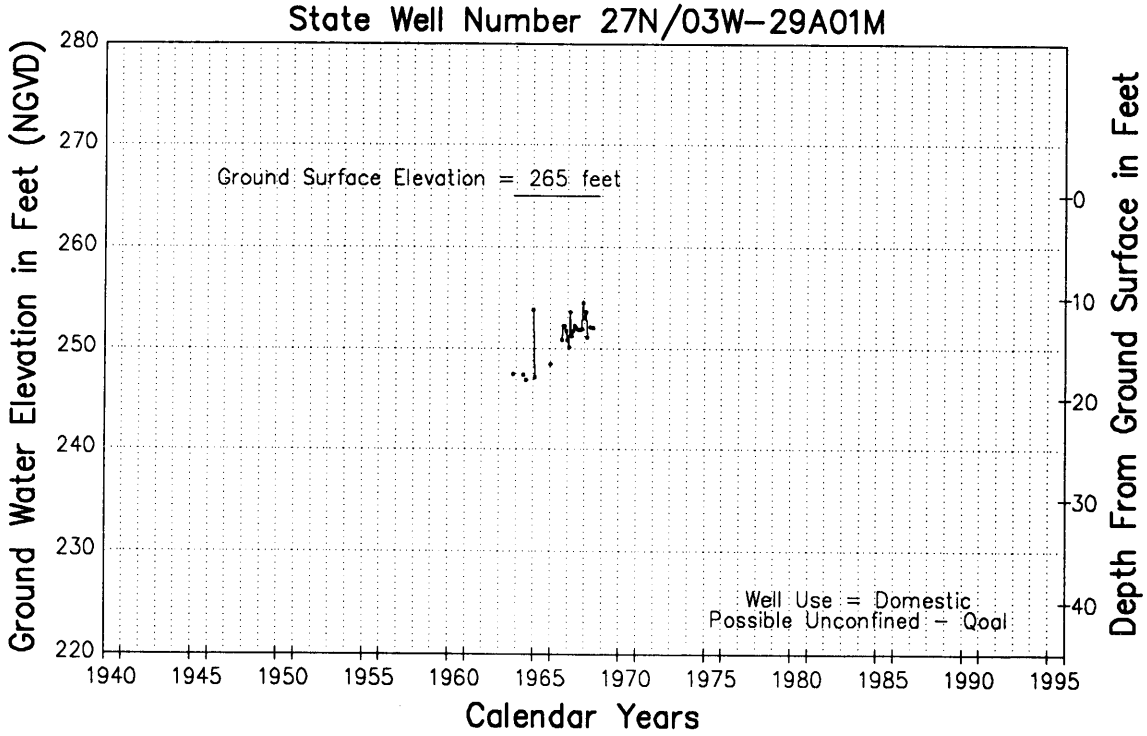
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County

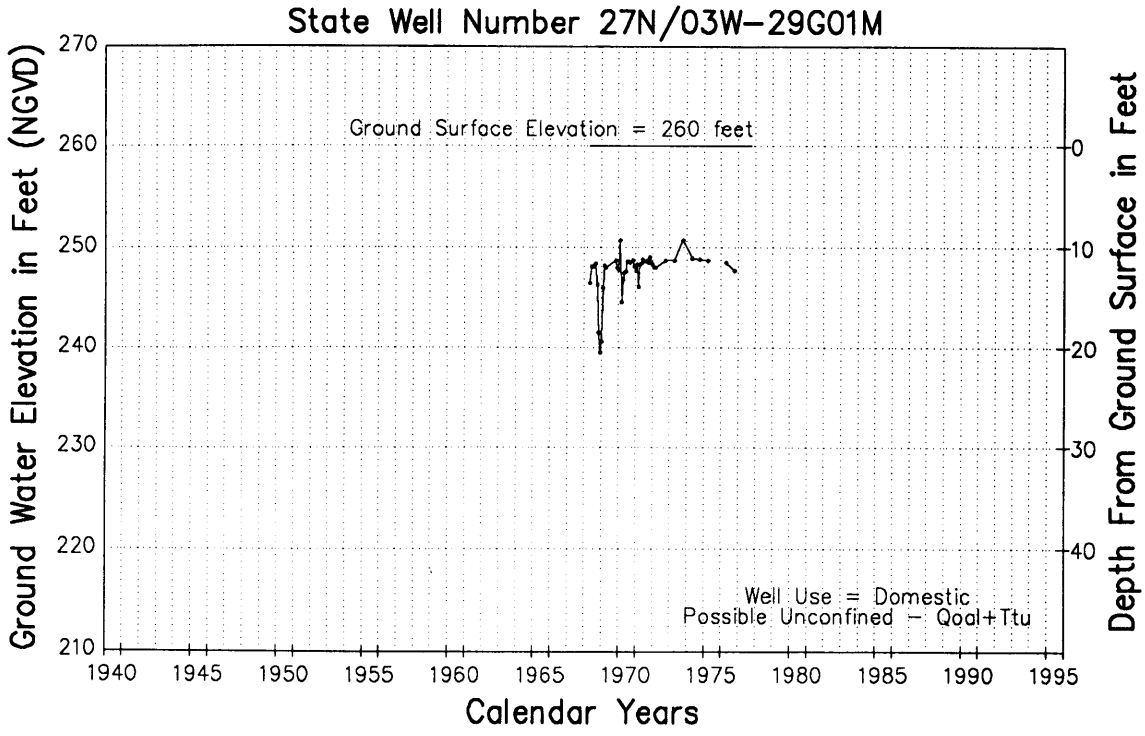


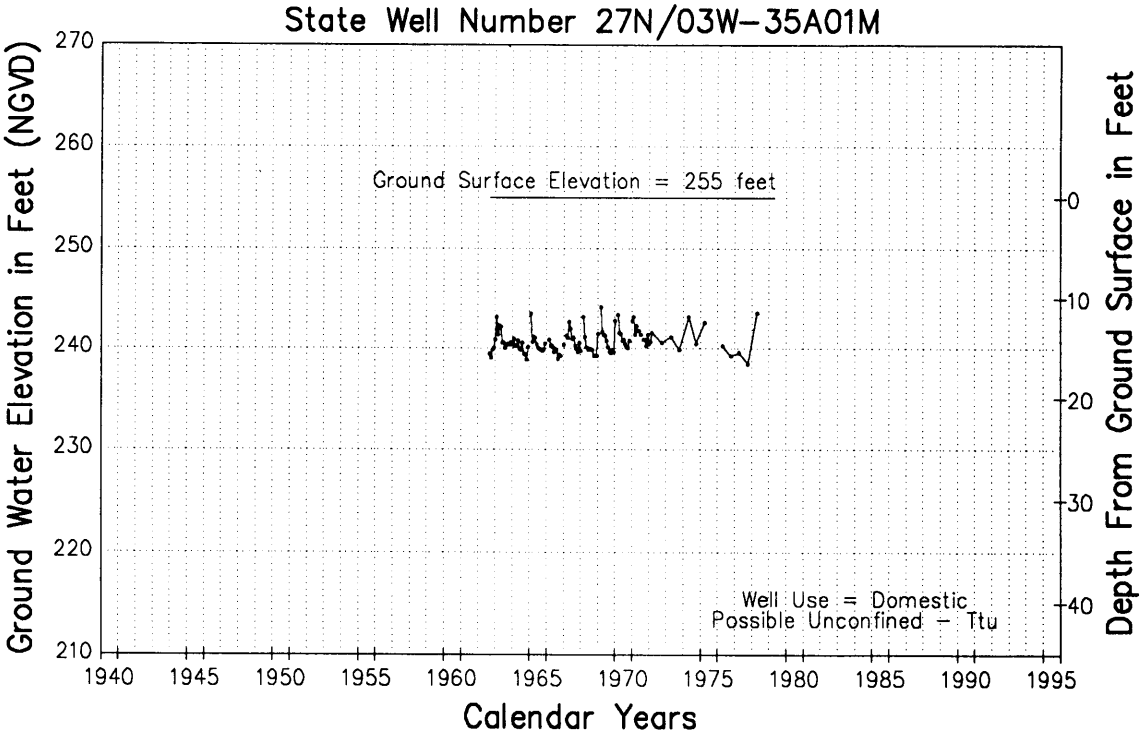


·····Water surface elevation in well ••••• Questionable measurement

Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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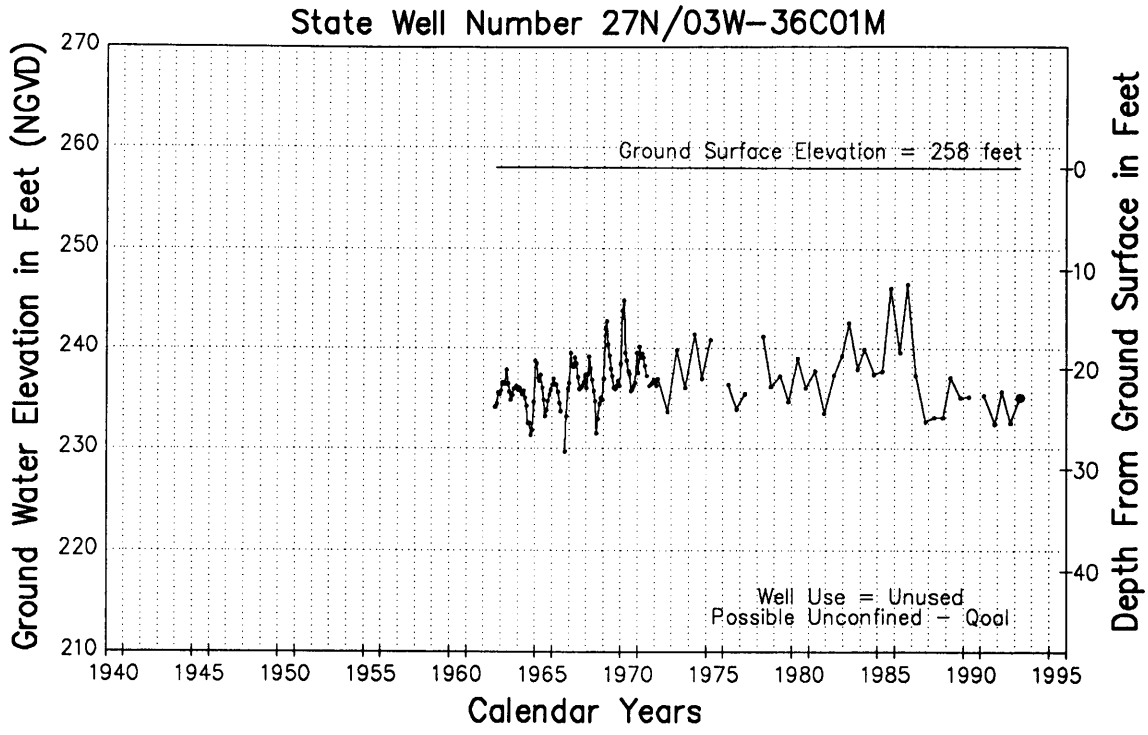

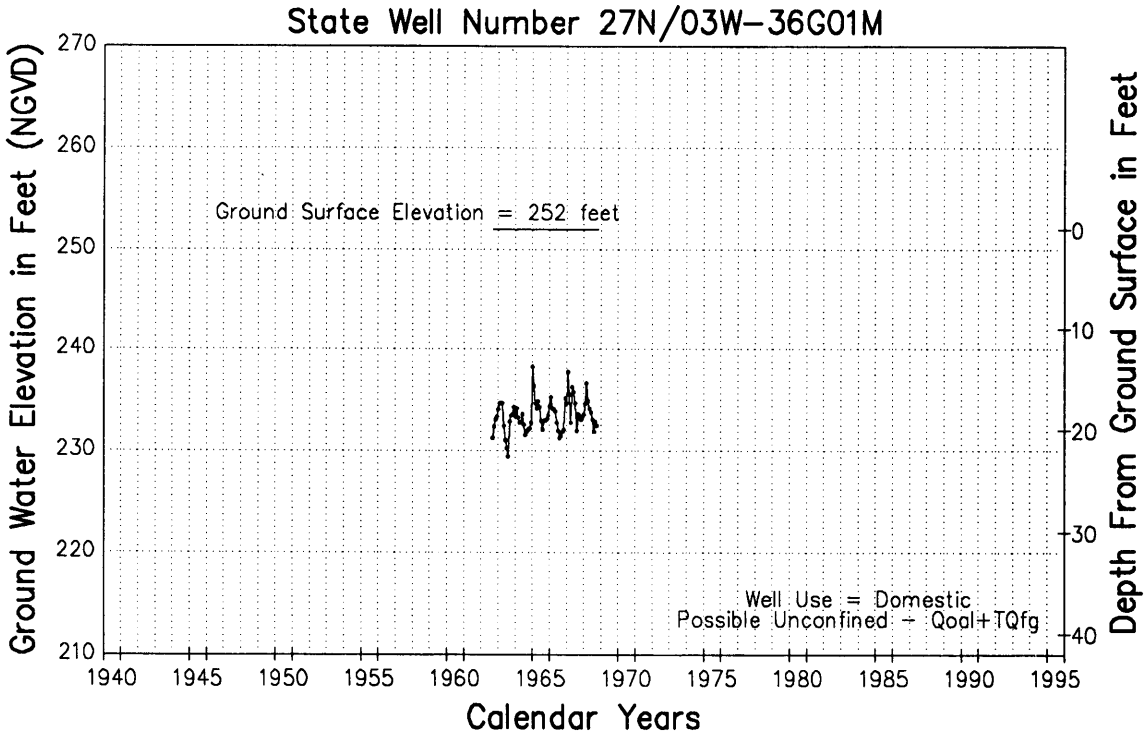

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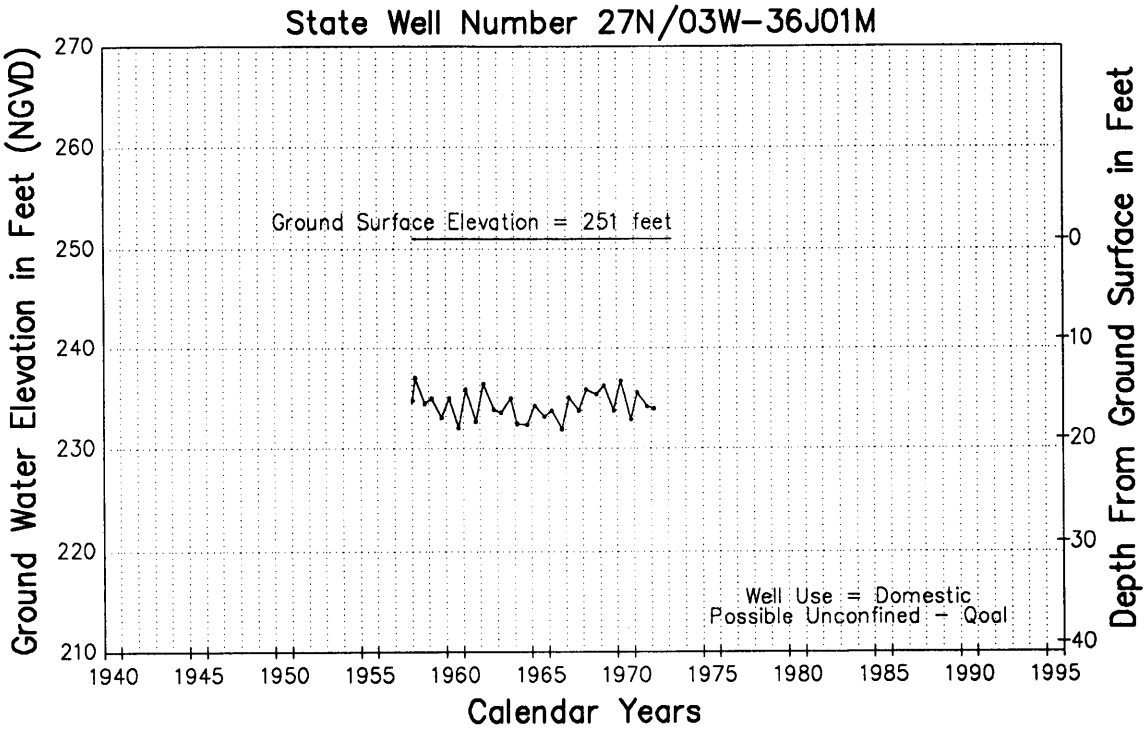
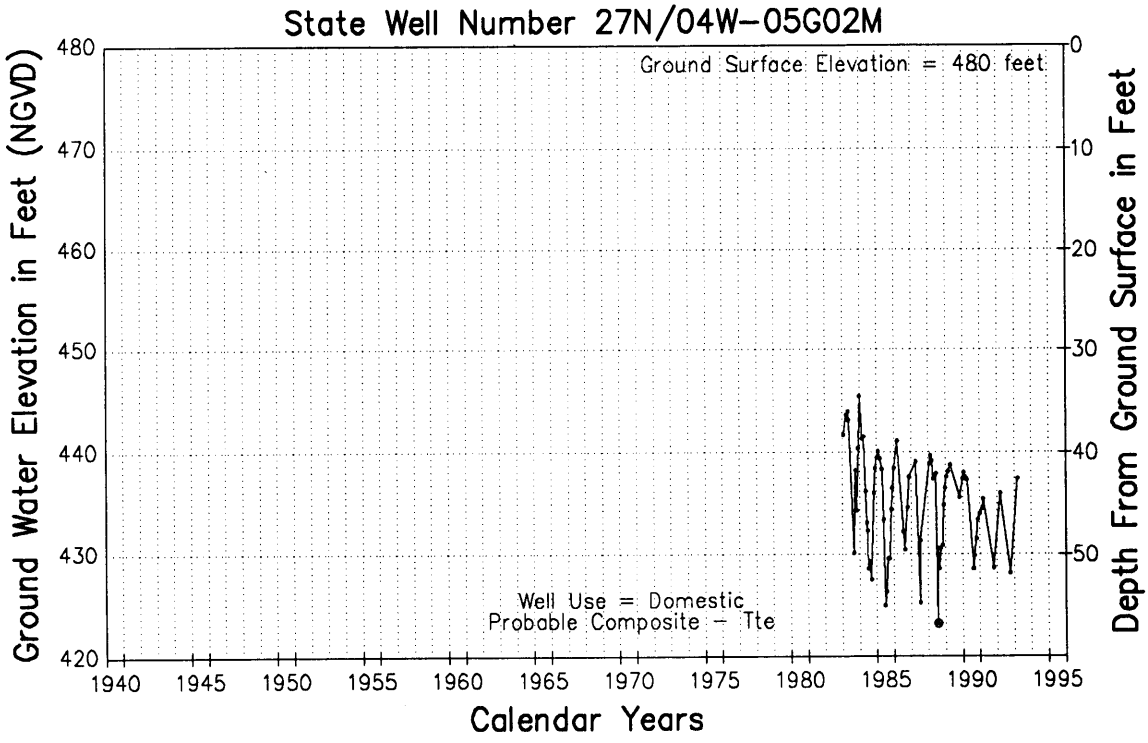
Department of Water Resources, Northern District

Sacramento Valley Ground Water Basin
Tehama County





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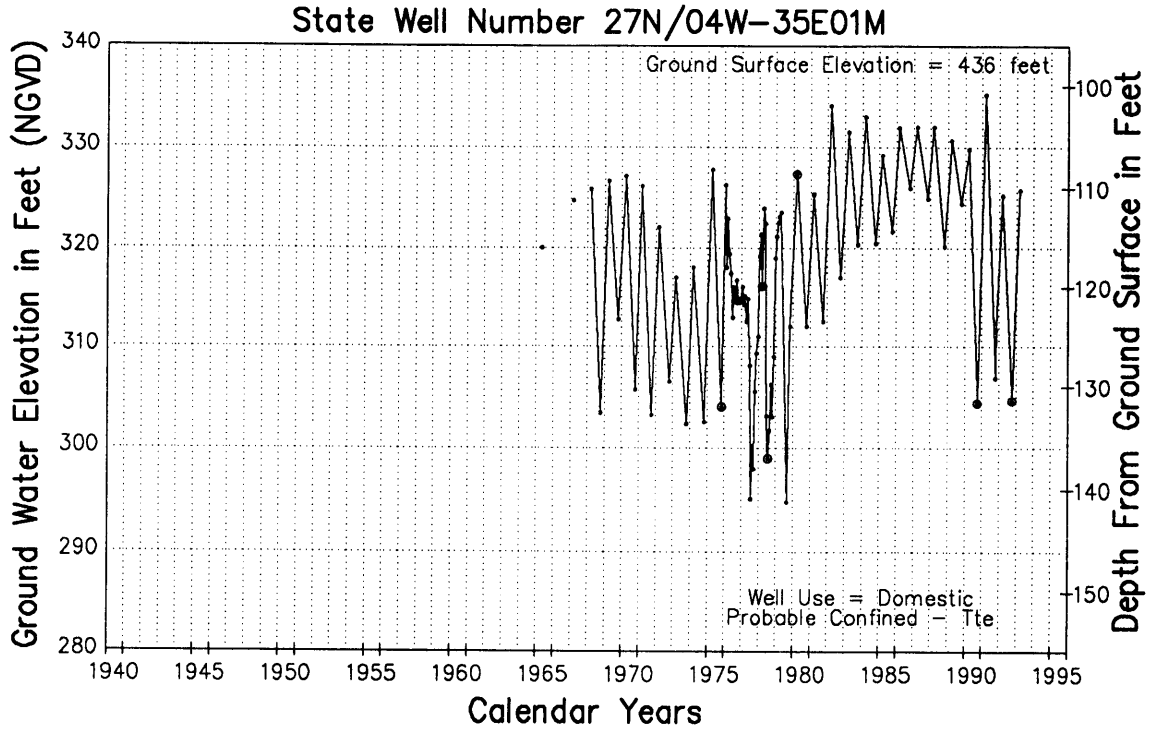
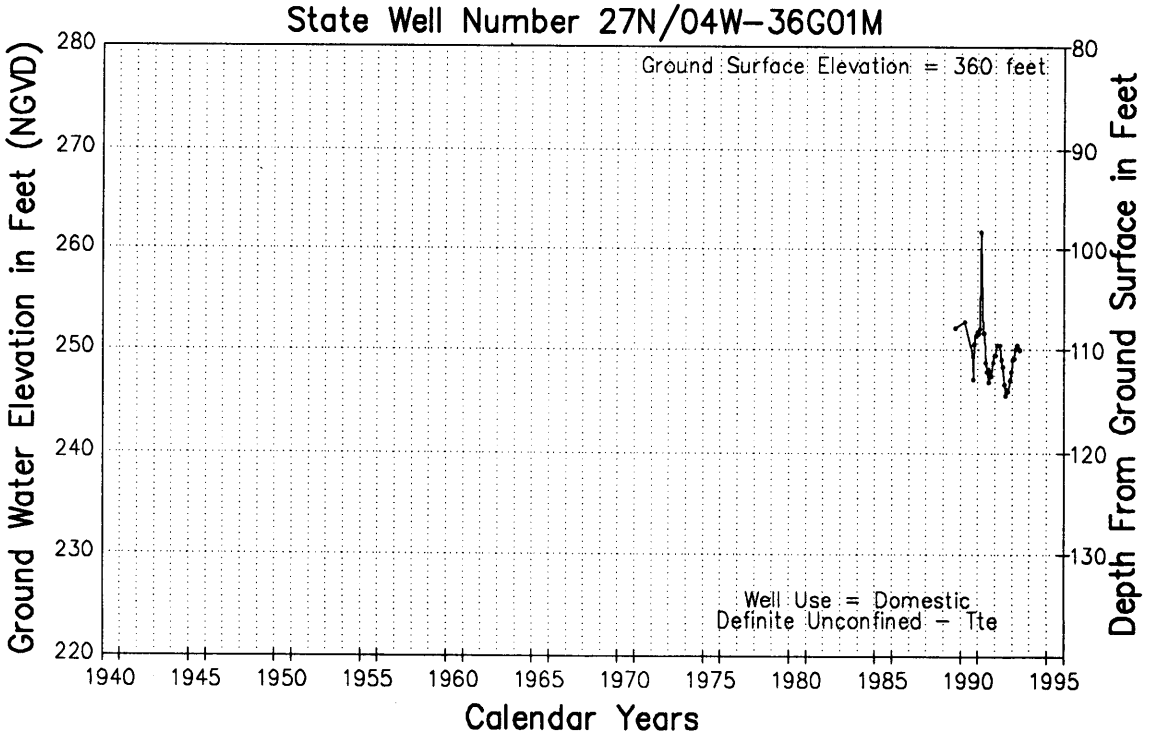
Sacramento Valley Ground Water Basin
Tehama County

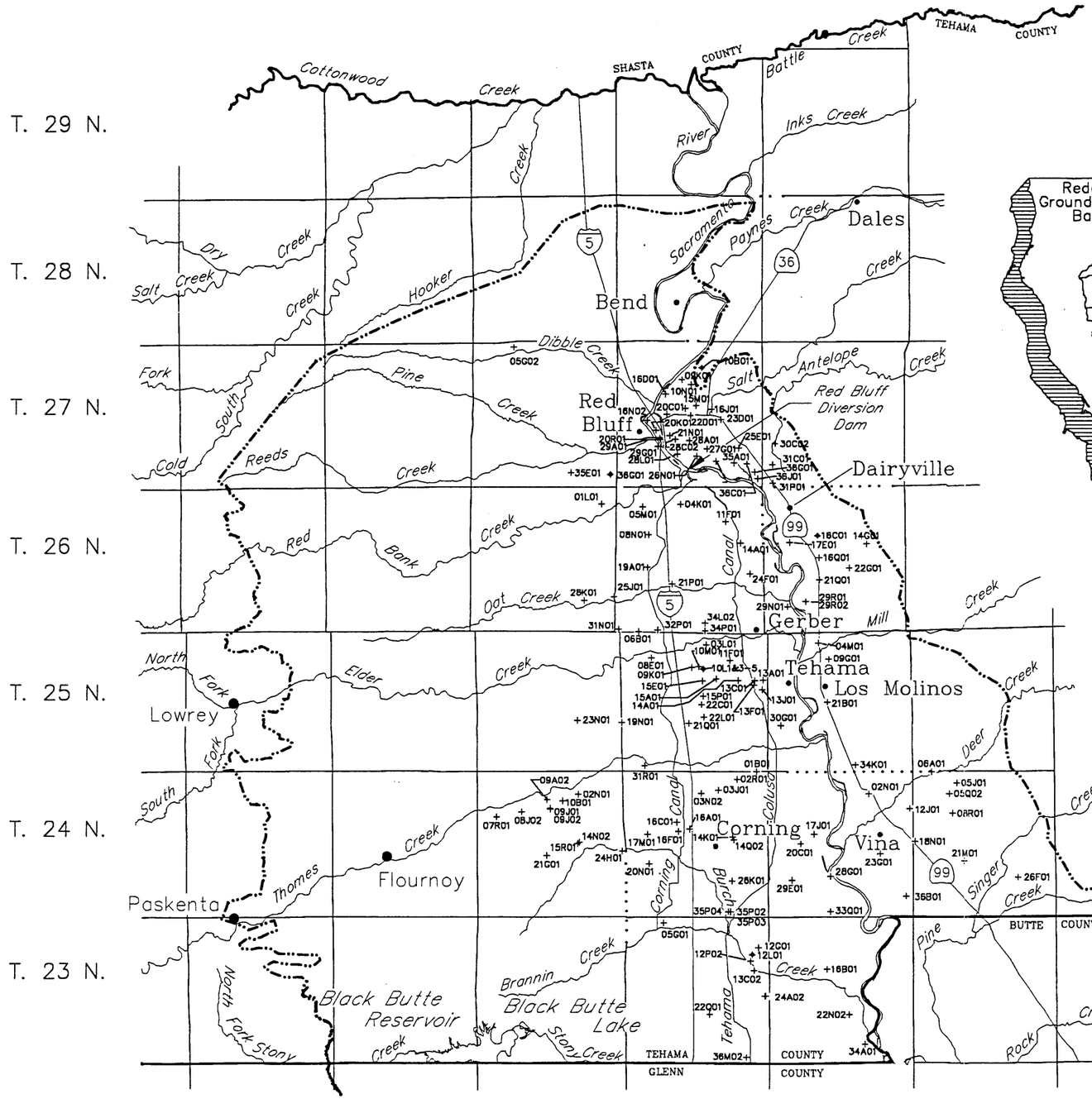


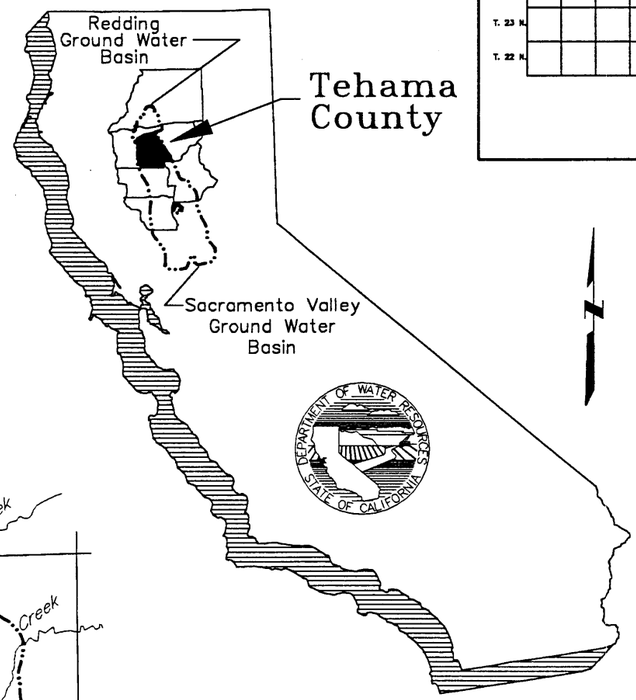


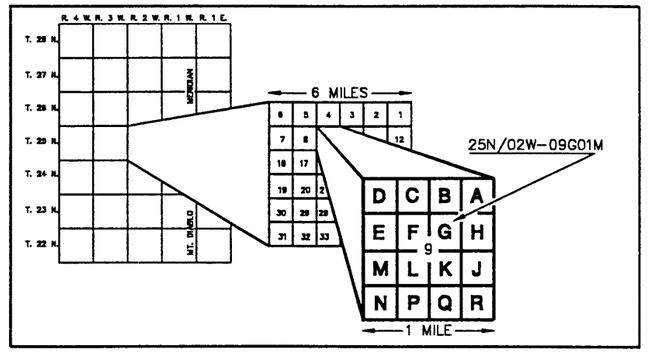
·····Water surface elevation in well ••••• Questionable measurement

Department of Water Resources, Northern District

Plate 1
Location of Ground Water Level Monitoring Wells in Tehama County







State Well Numbering System

EXPLANATION

- \+ Semi-Annually Monitored Well
- • Monthly Monitored Well
- 09A01 Section Number, Tract, and Sequence Number of State Well Number. Combined with the Township and Range to Determine the Entire State Well Number.
- —— County Lines
- . . . Township and Range Lines projected
- —•—•— Sacramento Valley Ground Water Basin Boundary

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
NORTHERN DISTRICT

Ground Water Levels in the Sacramento Valley Basin Tehama County

LOCATION OF GROUND WATER LEVEL MONITORING WELLS September 1993

0 2 4 6 8 10
Miles