

### Attachment 3 Supplemental Documentation

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**Attachment 3a**  
**CID Maximum Yield Table**

**Consolidated Irrigation District**  
**Max Potential Yield - Adams and Academy Site**  
(Includes Kings River Floodwater and Fish Flows)

MAXIMUM PROJECT DIVERSION = 40 CFS  
TOTAL DIVERSION = 40 CFS  
BASIN CAPACITY = 113 AF  
BASIN INFILTRATION RATE = 0.5 FT/DAY  
BASIN ACREAGE = 37.5 ACRES  
BASIN WATER DEPTH = 3.0 FT  
DAILY RECHARGE VOLUME = 18.75 AF/DAY  
EXTRACTION CAPACITY = 11 AF/DAY

MONTHLY MAXIMUM DIVERSIONS IN ACRE-FEET (BASED ON FLOWRATE ABOVE)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
Days	31	30	31	31	28	31	30	31	30	31	31	30	365
Project Diversion Vol.	2460	2381	2460	2460	2222	2460	2381	2460	2381	2460	2460	2381	28,966
Infiltration	581	563	581	581	525	581	563	581	563	581	581	563	6,844
Storage + Infiltration	694	675	694	694	638	694	675	694	675	694	694	675	8,194

Year	% KR Water	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Totals
1955	66%	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	153%	694	563	581	581	525	581	0	0	0	0	0	0	3,525
1957	74%	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	149%	694	563	581	581	525	581	563	581	563	581	0	0	5,813
1959	48%	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	42%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1961	34%	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	110%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1963	112%	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	52%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1965	117%	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	72%	694	563	0	694	525	0	0	0	0	0	0	0	2,475
1967	196%	0	0	694	0	0	0	675	581	563	581	0	0	3,094
1968	50%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1969	258%	0	0	0	694	525	581	563	581	563	581	581	0	4,669
1970	78%	694	563	581	581	525	581	0	0	0	0	0	0	3,525
1971	69%	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	50%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1973	125%	0	0	0	0	0	0	0	0	139	0	0	0	139
1974	123%	694	563	581	581	525	0	675	581	563	0	0	0	4,763
1975	93%	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	32%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1977	23%	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	203%	694	563	581	581	525	581	563	581	563	176	0	0	5,407
1979	102%	0	0	0	0	397	218	563	581	563	337	0	0	2,658
1980	179%	694	563	581	581	525	581	563	581	563	581	0	0	5,813
1981	61%	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	183%	694	0	0	694	525	0	675	581	563	581	8	0	4,321
1983	263%	0	675	581	581	525	581	563	581	563	581	581	563	6,375
1984	116%	581	563	581	581	525	581	200	0	0	0	0	0	3,613
1985	74%	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	192%	694	563	581	581	525	581	563	581	563	0	0	0	5,231
1987	46%	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	49%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1989	53%	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	40%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1991	63%	0	0	0	0	0	0	0	0	0	0	0	0	0
1992	41%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1993	150%	0	0	0	0	0	0	0	0	0	0	0	0	0
1994	51%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
1995	203%	0	0	0	0	0	694	563	581	563	581	581	0	3,563
1996	123%	694	563	581	581	525	581	0	694	464	0	0	0	4,683
1997	156%	0	0	694	581	525	581	0	0	0	0	0	0	2,381
1998	182%	694	0	0	694	525	581	563	581	563	581	0	0	4,781
1999	74%	0	675	581	0	0	0	0	0	0	0	0	0	1,256
2000	90%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
2001	59%	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	67%	694	563	581	581	525	0	0	0	0	0	0	0	2,944
2003	84%	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	62%	0	0	0	0	0	0	0	0	0	0	0	0	0

<b>Total</b>	16,538	13,725	14,756	16,144	14,572	7,887	7,288	7,669	7,353	5,163	1,752	563	113,408
<b>Min</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Max</b>	694	675	694	694	525	694	675	694	563	581	581	563	6,375
<b>Avg</b>	331	275	295	323	291	158	146	153	147	103	35	11	2,268
<b>*Avg</b>	345	272	295	310	282	140	128	136	130	83	12	0	2,076

\* Excludes 1969, 1983, 1998

Losses	10%
Estimated Yield	2041
Estimated Yield*	1869

**Attachment 3b**  
**CID Operations Table**

**Consolidated Irrigation District**  
**Estimation of Basin Site Yield - Adams and Academy Site**

Extraction Capacity = 11.0 AF/DAY  
Days of Groundwater Extraction = 120 DAYS  
Maximum Available in Storage, assumed to be 90% of maximum annual diversion capacity = 7,374 AF

	Same As	CVP % Water Year	Supply Available (1)	Delivery to Basin (2)	Direct Recharge (3)	Available for Extraction (4)	Storage at Start of Year (5)	Project Extraction (6)	Storage at End of Year (7)
1	55	66%	0	0	0	0	0	0	0
2	56	153%	139,502	3,525	353	3,173	3,173	0	3,173
3	57	74%	0	0	0	0	3,173	1,320	1,853
4	58	149%	206,415	5,813	581	5,231	7,084	1,320	5,764
5	59	48%	0	0	0	0	5,764	1,320	4,444
6	60	42%	0	2,944	294	2,649	7,093	1,320	5,773
7	61	34%	0	0	0	0	5,773	1,320	4,453
8	62	110%	0	2,944	294	2,649	7,103	1,320	5,783
9	63	112%	0	0	0	0	5,783	1,320	4,463
10	64	52%	0	2,944	294	2,649	7,112	1,320	5,792
11	65	117%	0	0	0	0	5,792	1,320	4,472
12	66	72%	0	2,475	248	2,228	6,699	1,320	5,379
13	67	196%	312,903	3,094	309	2,784	7,374	1,320	6,054
14	68	50%	0	2,944	294	2,649	7,374	1,320	6,054
15	69	258%	723,180	4,669	467	4,202	7,374	1,320	6,054
16	70	78%	95,091	3,525	353	3,173	7,374	1,320	6,054
17	71	69%	0	0	0	0	6,054	1,320	4,734
18	72	50%	0	2,944	294	2,649	7,374	1,320	6,054
19	73	125%	213	139	14	125	6,179	1,320	4,859
20	74	123%	124,621	4,763	476	4,286	7,374	1,320	6,054
21	75	93%	0	0	0	0	6,054	1,320	4,734
22	76	32%	0	2,944	294	2,649	7,374	1,320	6,054
23	77	23%	0	0	0	0	6,054	1,320	4,734
24	78	203%	435,352	5,407	541	4,867	7,374	1,320	6,054
25	79	102%	17,975	2,658	266	2,392	7,374	1,320	6,054
26	80	179%	626,812	5,813	581	5,231	7,374	1,320	6,054
27	81	61%	0	0	0	0	6,054	1,320	4,734
28	82	183%	316,636	4,321	432	3,888	7,374	1,320	6,054
29	83	263%	1,296,577	6,375	638	5,738	7,374	1,320	6,054
30	84	116%	559,373	3,613	361	3,251	7,374	1,320	6,054
31	85	74%	0	0	0	0	6,054	1,320	4,734
32	86	192%	497,057	5,231	523	4,708	7,374	1,320	6,054
33	87	46%	0	0	0	0	6,054	1,320	4,734
34	88	49%	0	2,944	294	2,649	7,374	1,320	6,054
35	89	53%	0	0	0	0	6,054	1,320	4,734
36	90	40%	0	2,944	294	2,649	7,374	1,320	6,054
37	91	63%	0	0	0	0	6,054	1,320	4,734
38	92	41%	0	2,944	294	2,649	7,374	1,320	6,054
39	93	150%	0	0	0	0	6,054	1,320	4,734
40	94	51%	0	2,944	294	2,649	7,374	1,320	6,054
41	95	203%	427,245	3,563	356	3,206	7,374	1,320	6,054
42	96	123%	103,527	4,683	468	4,214	7,374	1,320	6,054
43	97	156%	326,636	2,381	238	2,143	7,374	1,320	6,054
44	98	182%	593,379	4,781	478	4,303	7,374	1,320	6,054
45	99	74%	30,657	1,256	126	1,131	7,185	1,320	5,865
46	00	90%	0	2,944	294	2,649	7,374	1,320	6,054
47	01	59%	0	0	0	0	6,054	1,320	4,734
48	02	67%	0	2,944	294	2,649	7,374	1,320	6,054
49	03	84%	0	0	0	0	6,054	1,320	4,734
50	04	62%	0	0	0	0	4,734	1,320	3,414
<b>Avg</b>			136,663	2,268	227	2,041	6,525	1,267	5,257
<b>Avg (8)</b>				3,544	354	3,190	6,658	1,320	5,365
<b>Total</b>				113,408	11,341	102,067		63,360	

- Notes: 1) Supply Available is the water supply for the project from MaxPotDiv1000Base-10PCT (10% of available flows).  
2) Delivery to Basin is the amount of water diverted to the basin. Amount is limited by the available supply and is set not to exceed the Maximum Available in Storage minus the Storage at Year End.  
3) Direct Recharge is the total annual amount of water that will be recharged in the project that will be left behind and not extracted. 10% of delivered.  
4) Available for Extraction is the amount of water delivered to the basin minus the amount left behind for recharge.  
5) Storage at Start of Year is the sum of the Storage at the End of the previous year and the Available for Extraction for the current year.  
6) Project Extraction is the amount of water extracted based on the extraction capacity multiplied by the number of days considered for extraction.  
7) Storage at Start of Year is the Available for Extraction at the start of the year minus the Project Extraction for that  
8) Average of years when water is actually delivered to or extracted from basin.

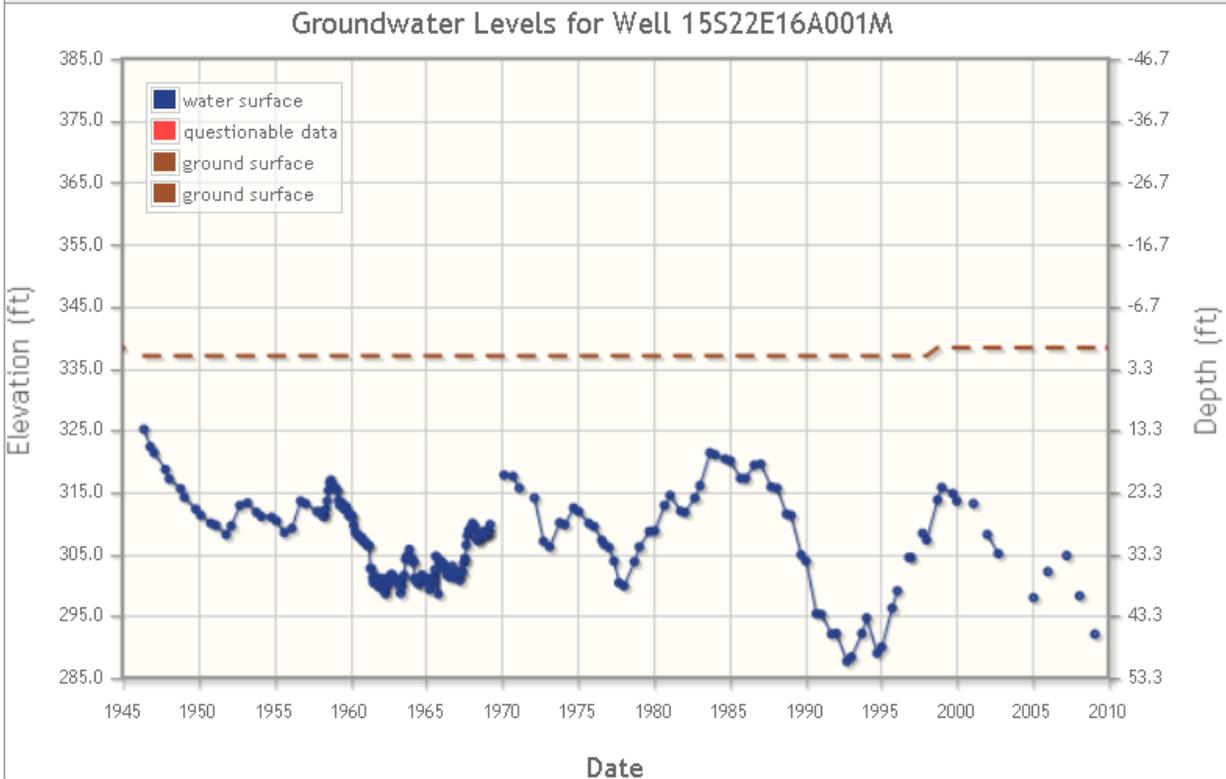
Total "Project Extraction" for the 50-year period may be less than the total "Available for Extraction" if the sum of the annual "Storage at End of Year" and "Available for Extraction" exceeds the assumed "Maximum Available in

**Attachment 3c**  
**CID Groundwater Depth**

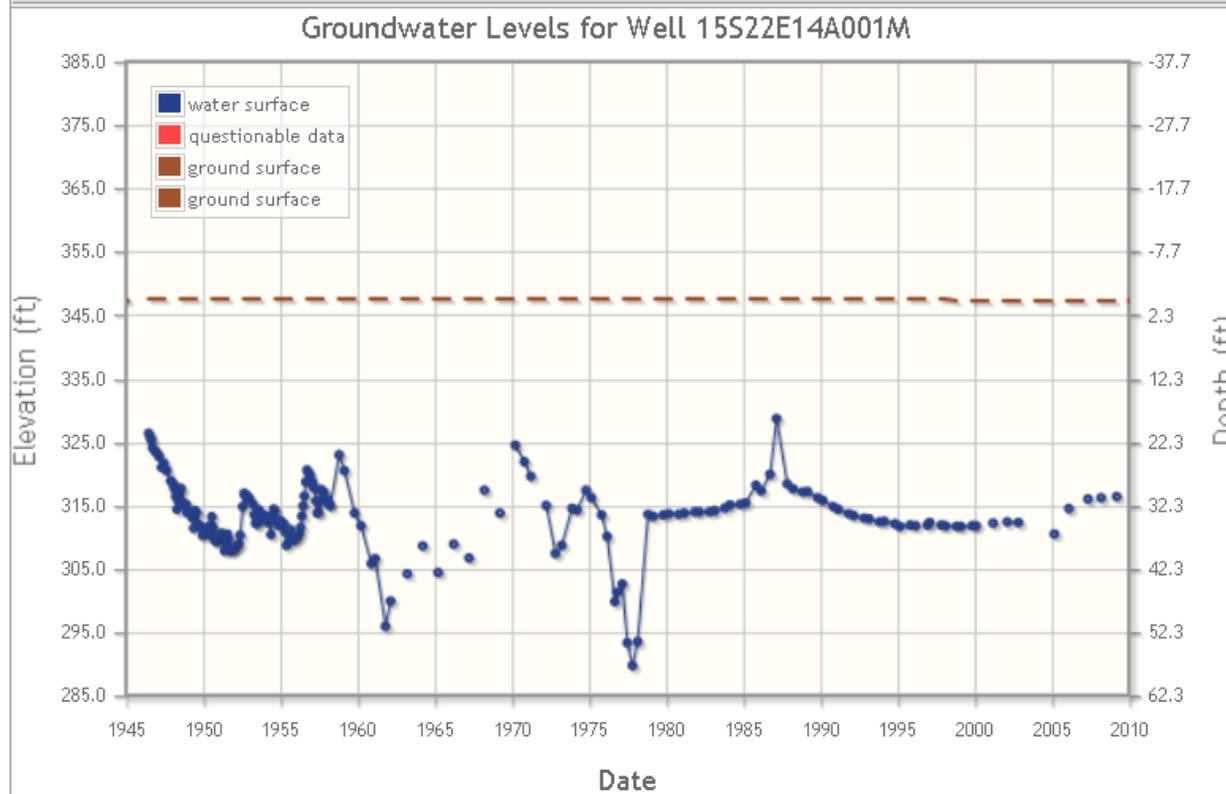
# Depth to Groundwater

## Consolidated Irrigation District Vicinity Monitoring Wells

Station Data    Recent Groundwater Level Data    **Historical Groundwater Level Data**



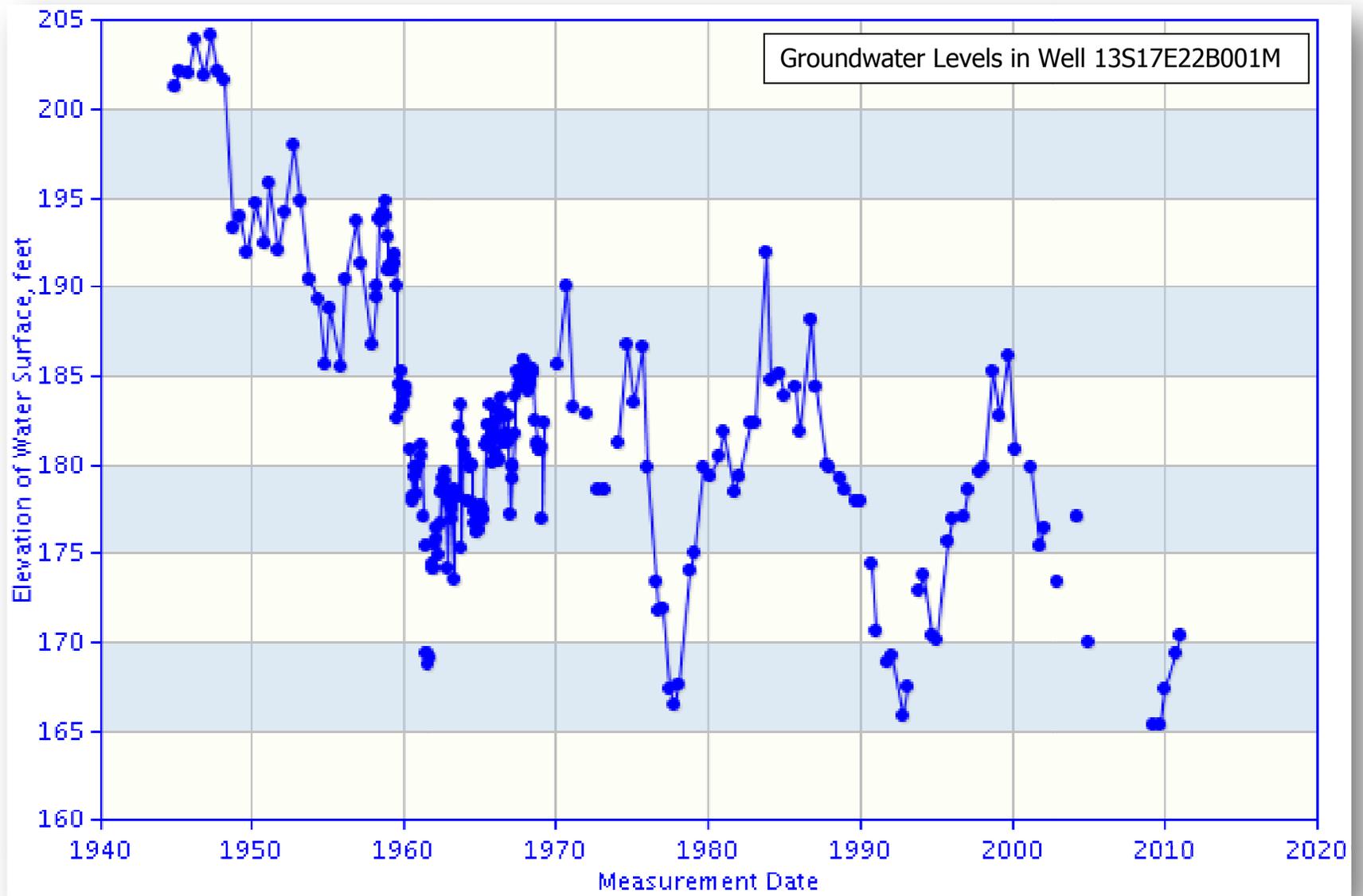
Station Data    Recent Groundwater Level Data    **Historical Groundwater Level Data**



**Attachment 3d**

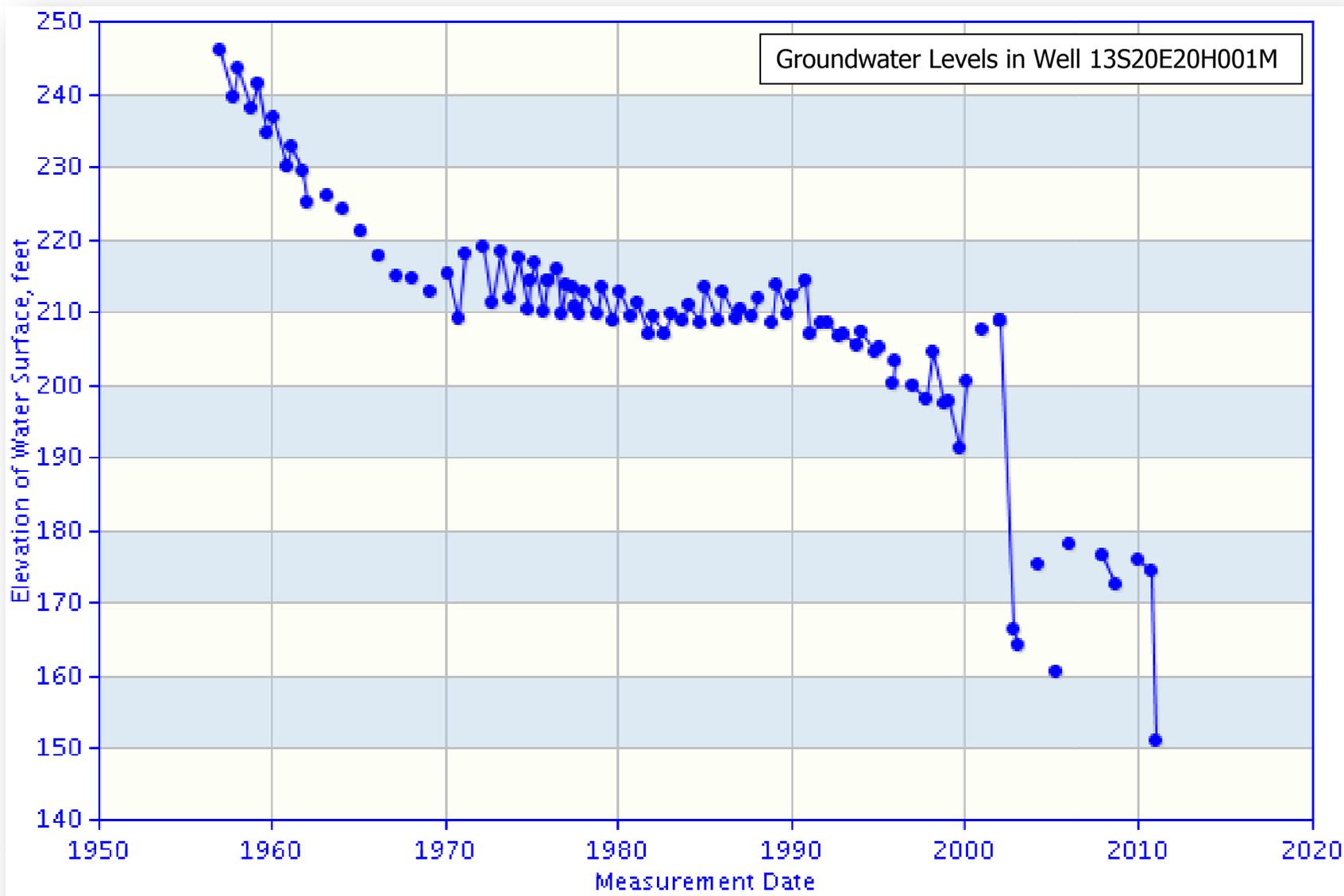
**Fresno Metropolitan Area Groundwater Depth**

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data



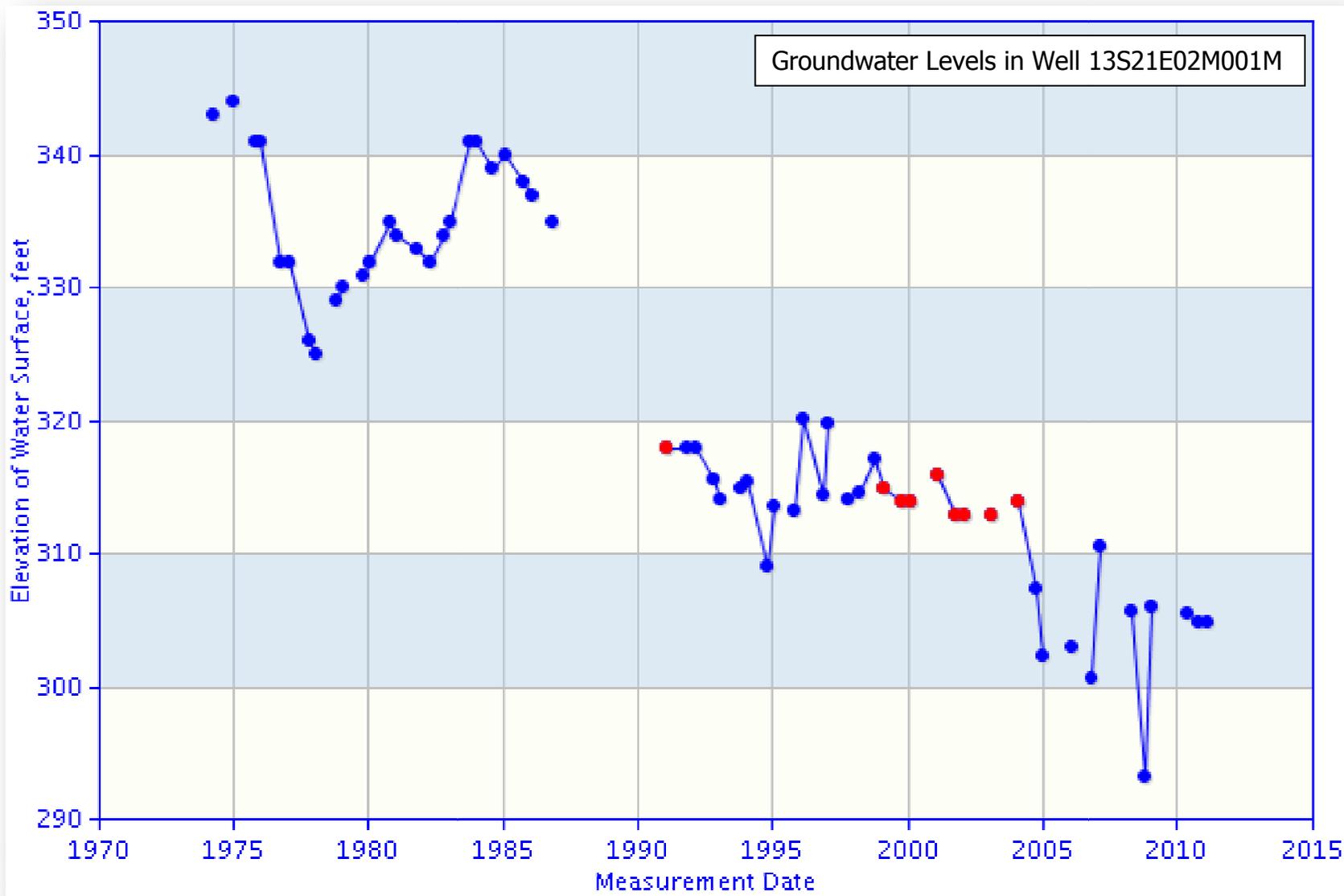
NOTE: red circles denote questionable measurements.

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data



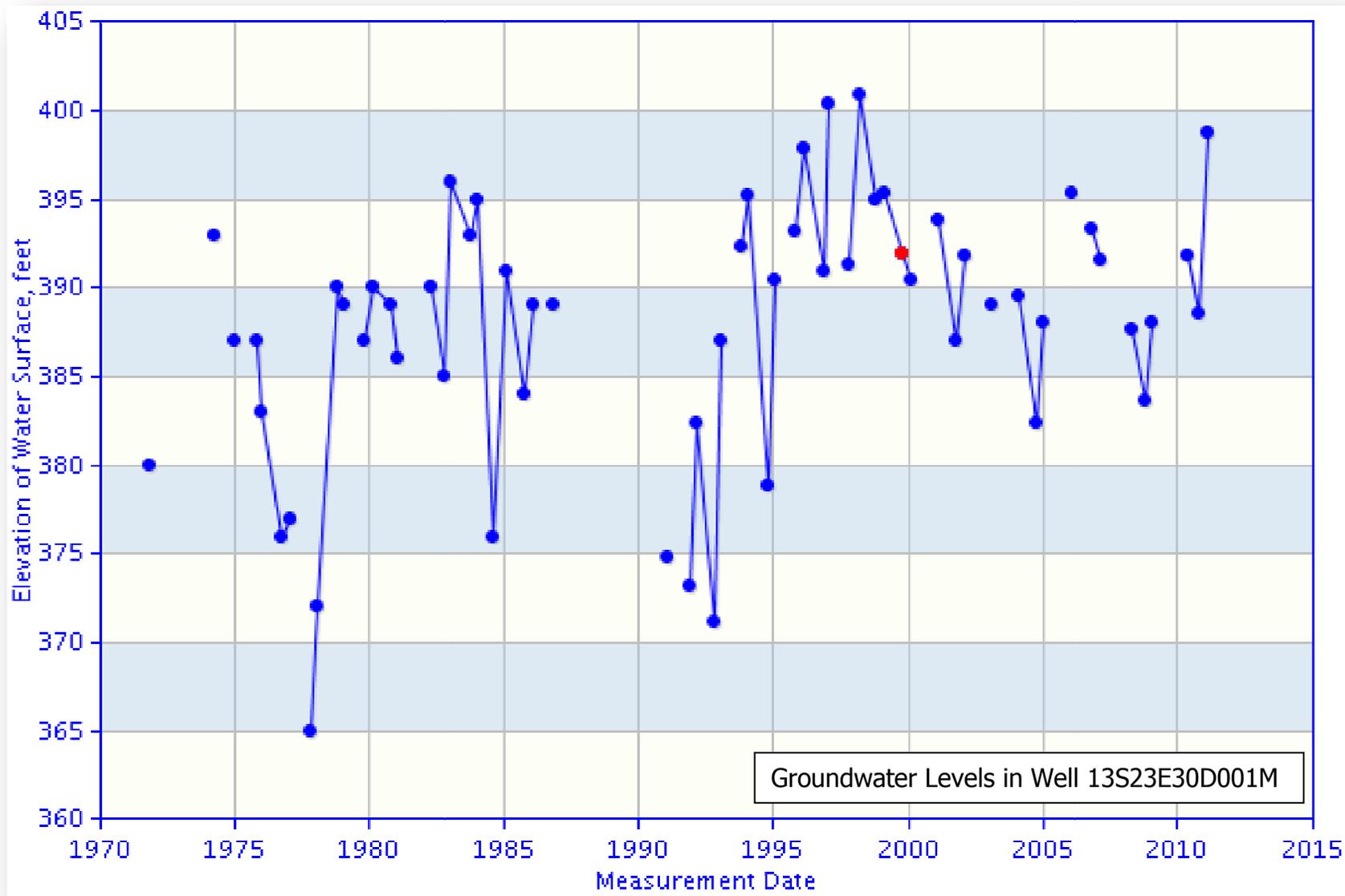
NOTE: red circles denote questionable measurements.

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data



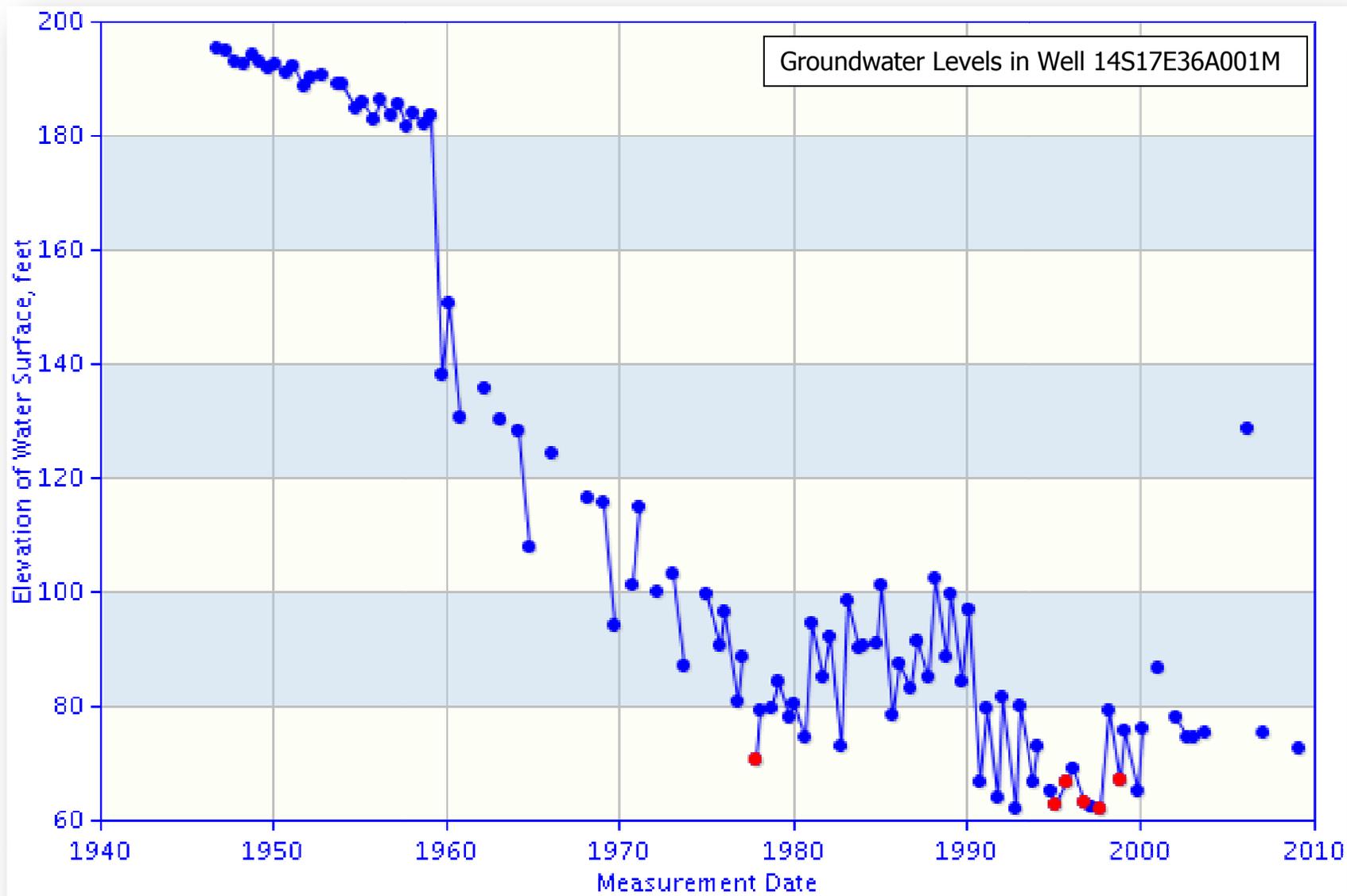
NOTE: red circles denote questionable measurements.

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data



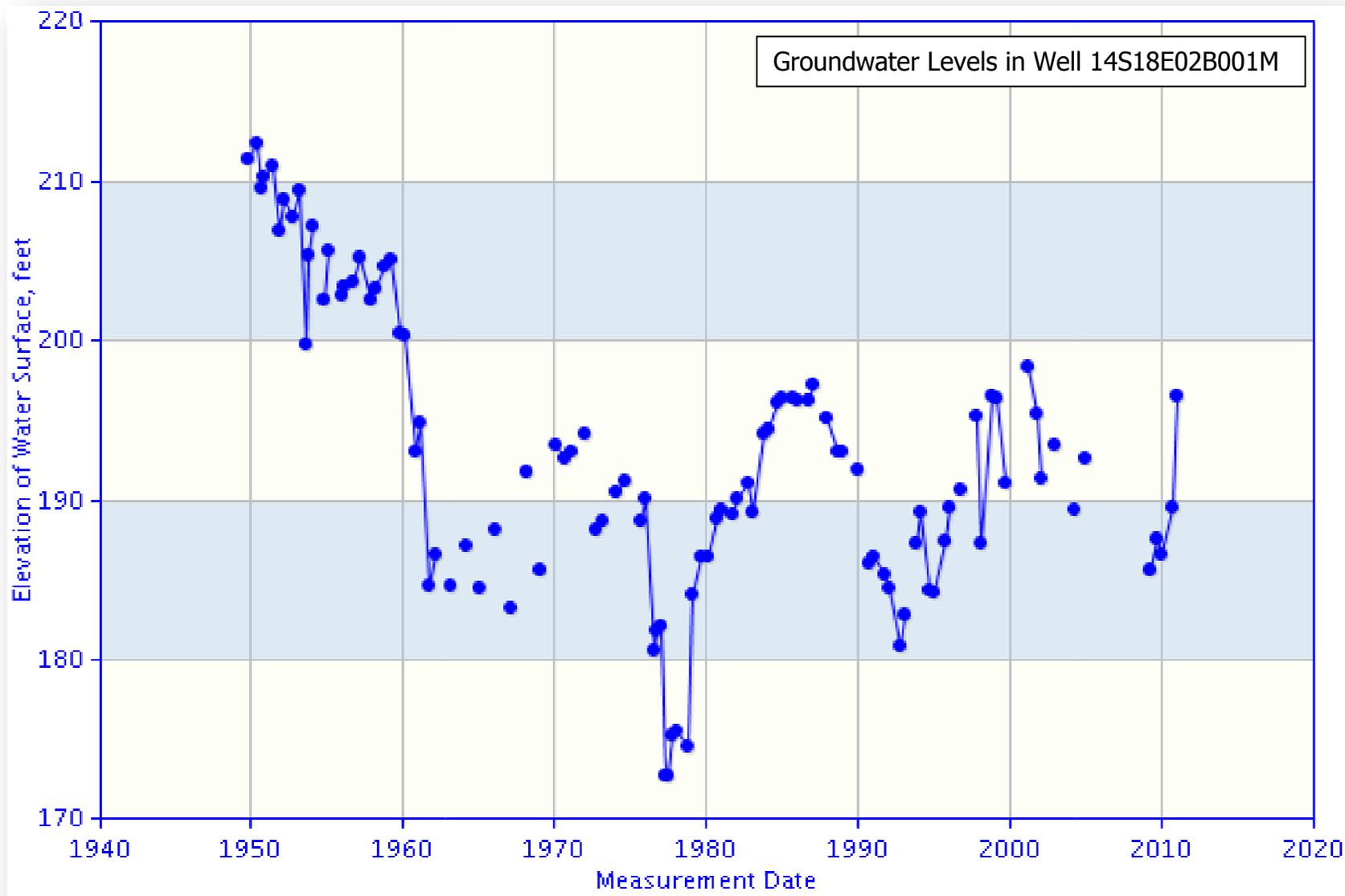
NOTE: red circles denote questionable measurements.

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data



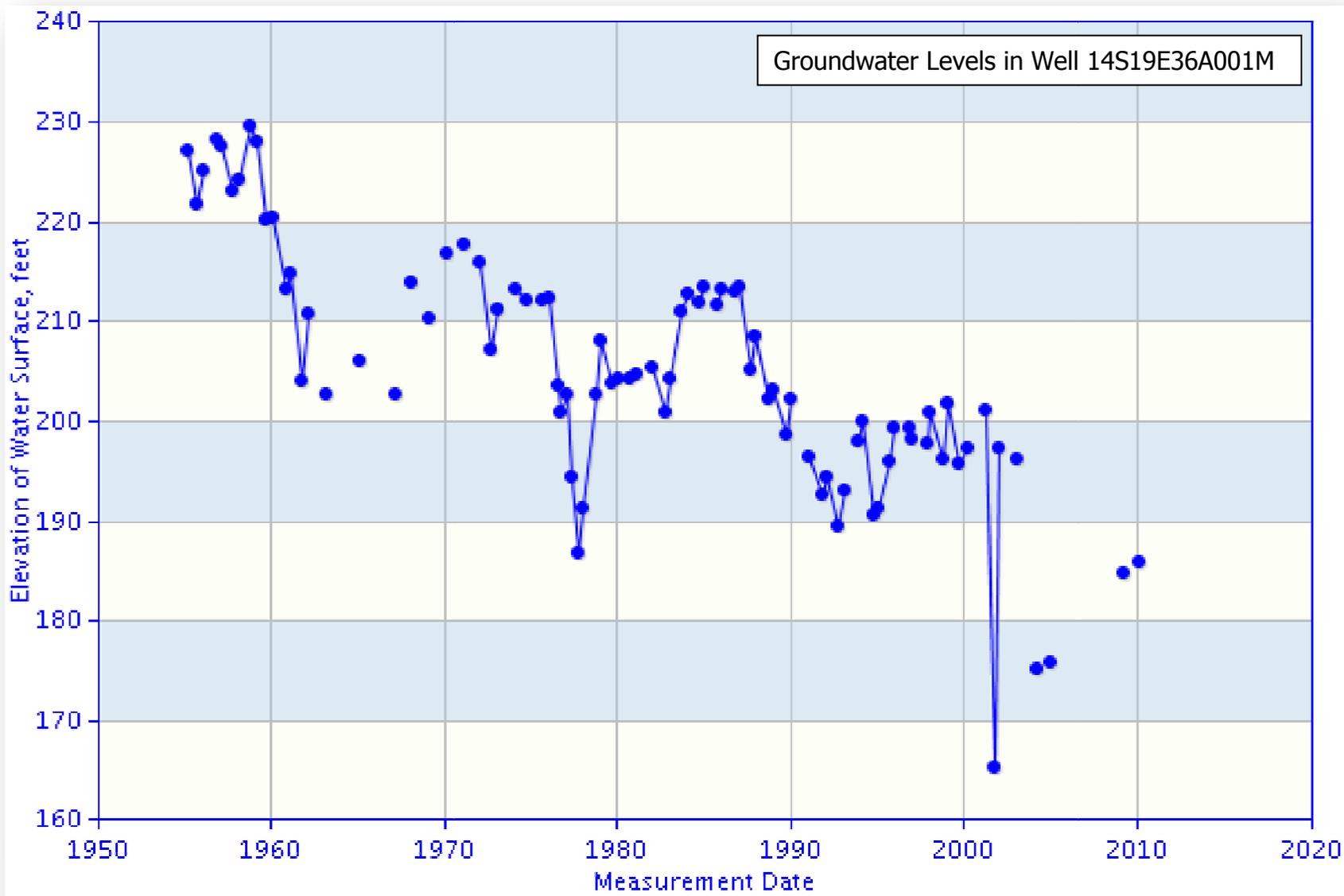
NOTE: red circles denote questionable measurements.

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data



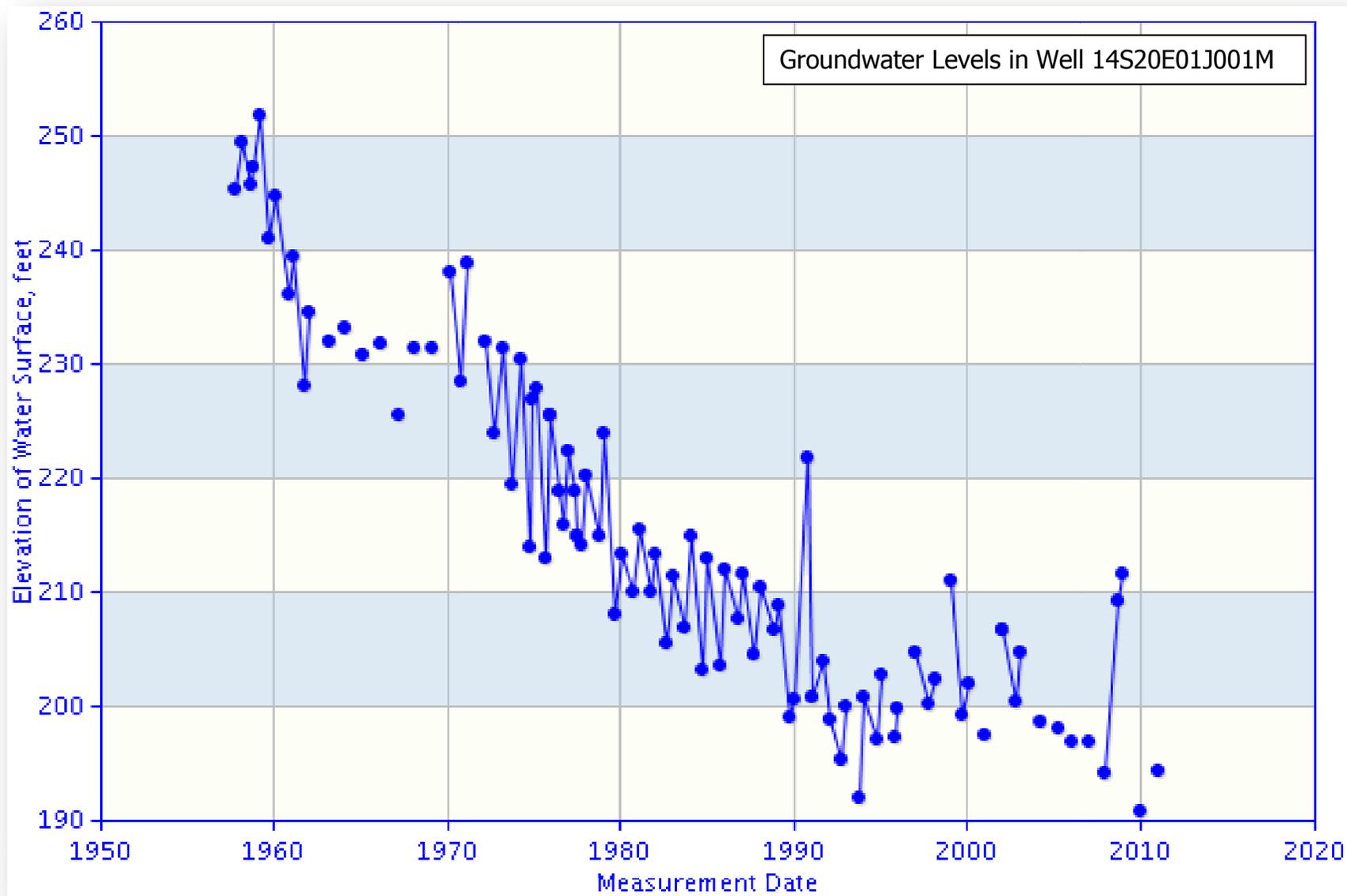
NOTE: red circles denote questionable measurements.

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data



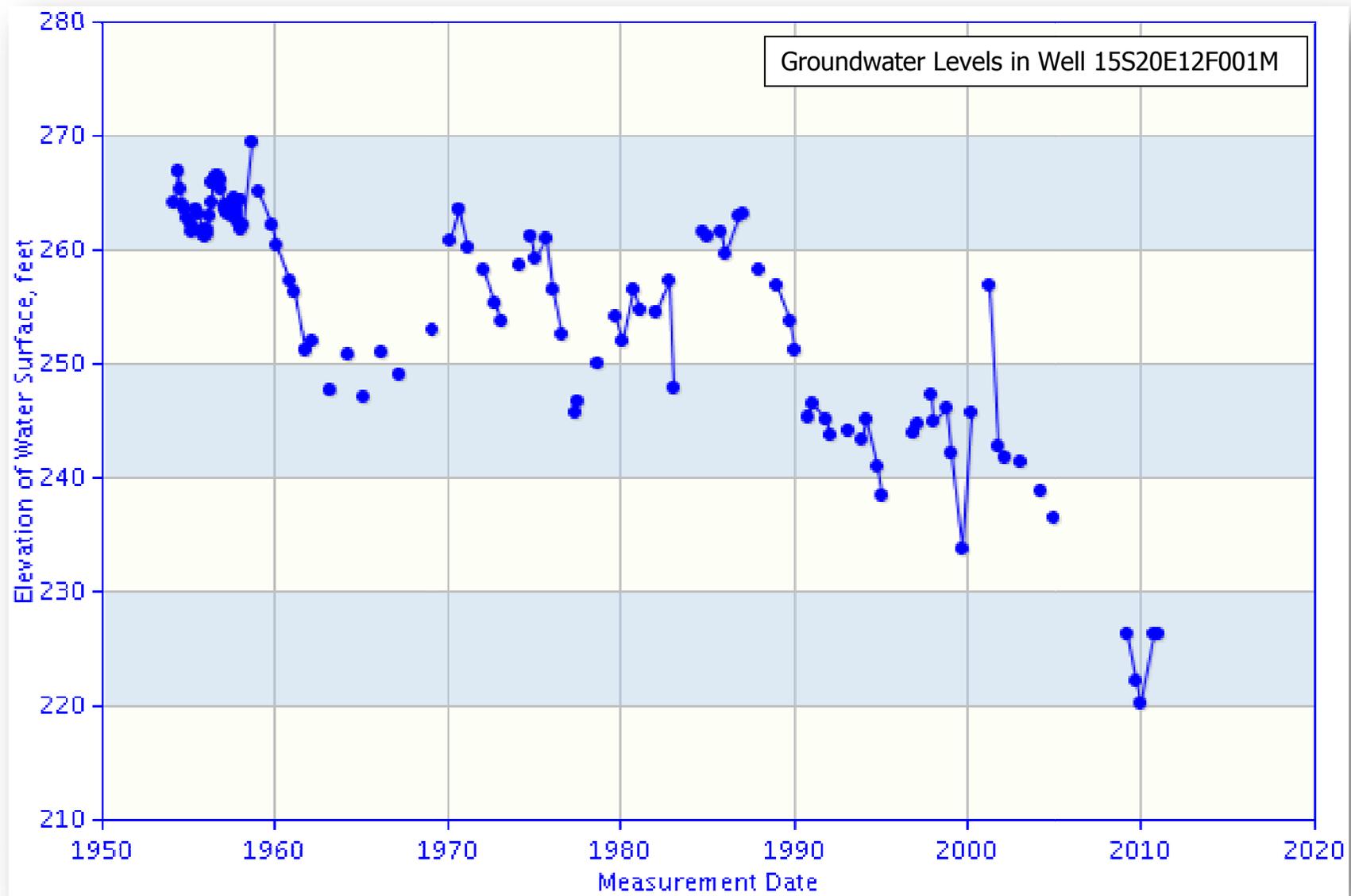
NOTE: red circles denote questionable measurements.

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data



NOTE: red circles denote questionable measurements.

San Joaquin Valley (Kings Basin), Source: CA DWR Groundwater Level Data

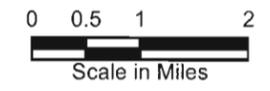


NOTE: red circles denote questionable measurements.

**Attachment 3e**

**Fresno Metropolitan Area Groundwater Contamination Plumes**

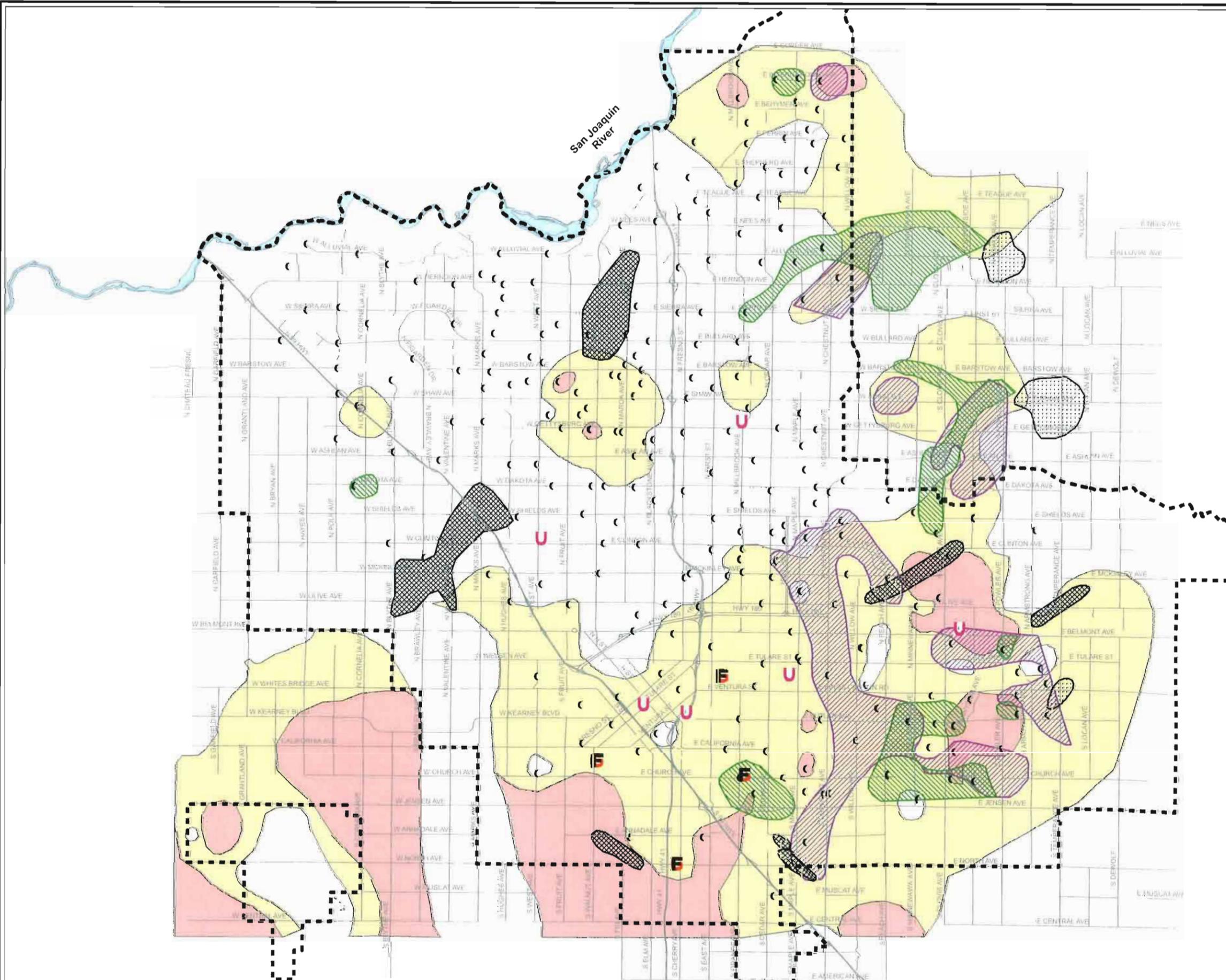
**City of Fresno  
Metropolitan Water Resources  
Management Plan Update  
REGIONAL GROUNDWATER  
CONTAMINATION**



**NOTES:**

**LEGEND:**

- City of Fresno Sphere of Influence
  - Active City Wells
  - Superfund Site (Old)
  - Gasoline Case (Old)
  - EDB Plume (Old)
  - Point Source Plume (Old)
  - DBCP Plume (> 0.1 ppb)
  - TCP Plume (> 0.01 ppb)
- Nitrates**
- Nitrate > 20 mg/L
  - Nitrate > 40 mg/L



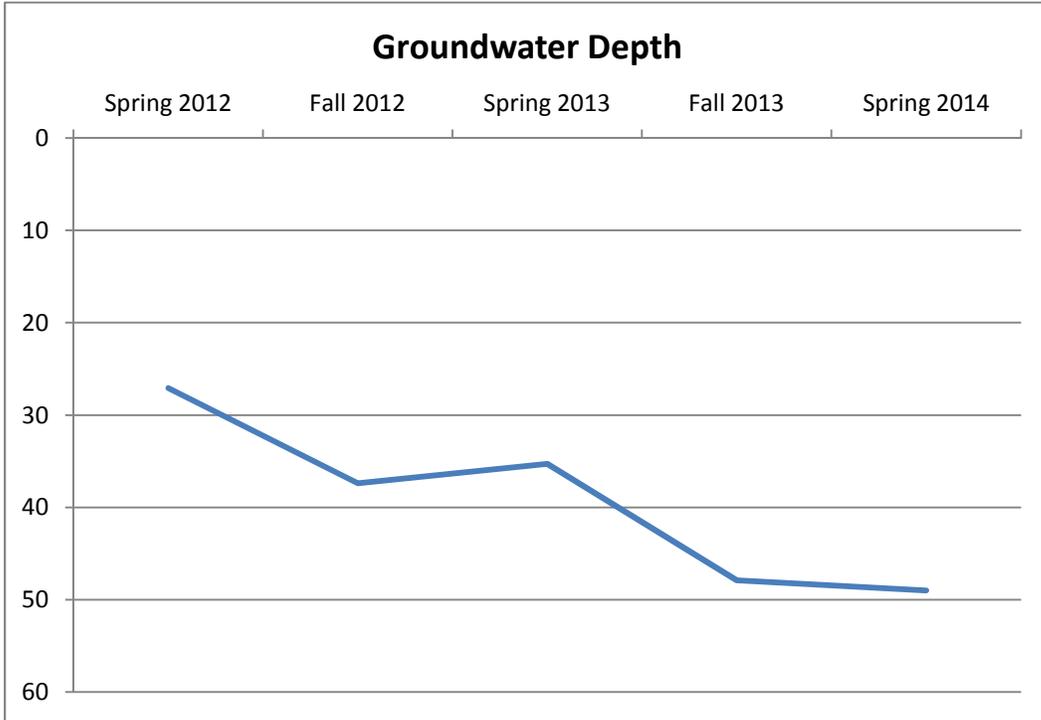
**Attachment 3f**  
**FMFCD Recharge Calculations**

**FMFCD Regional Groundwater Recharge Project**  
**Estimate of Annual Recharge**  
7/14/14

<b>Basin</b>	<b>Total Basin Area (Ac)</b>	<b>Basin Wetted Area (Ac) <sup>1</sup></b>	<b>Percolation Rate (ft/day) <sup>2</sup></b>	<b>Current % Excavated <sup>3</sup></b>	<b>Recharge Days <sup>4</sup></b>	<b>Annual Recharge <sup>5</sup></b>
AN	12.70	9.53	0.30	65%	180	334
Armstrong	13.00	9.75	0.10	100%	135	132
BG	17.20	12.90	0.50	25%	180	290
BK	5.90	4.43	0.50	100%	135	299
Briggs	14.40	10.80	0.10	100%	135	146
BS	22.10	16.58	0.25	10%	180	75
CI	10.00	7.50	0.30	100%	180	405
DE	23.10	4.09	0.50	95%	180	350
DO	30.50	22.88	0.10	55%	135	170
PP	9.40	7.05	0.20	100%	135	190
<b>Total =</b>						<b>2390</b>
Notes: 1) 75% of Total Basin Area. Basin DE assumes only 17.7% because limited to low flow area. 2) Estimate provided by Brent Sunamoto, FMFCD 3) Current amount of excavation completed, used to reduce total wetted area. 4) BK, DO, PP, Armstrong and Briggs mid-April through the end of August. AN, BG, BS, CI, and DE mid-April through mid-October. 5) (Basin Wetted Area) x (Percolation Rate) x (Current % Excavated) x (Recharge Days)						

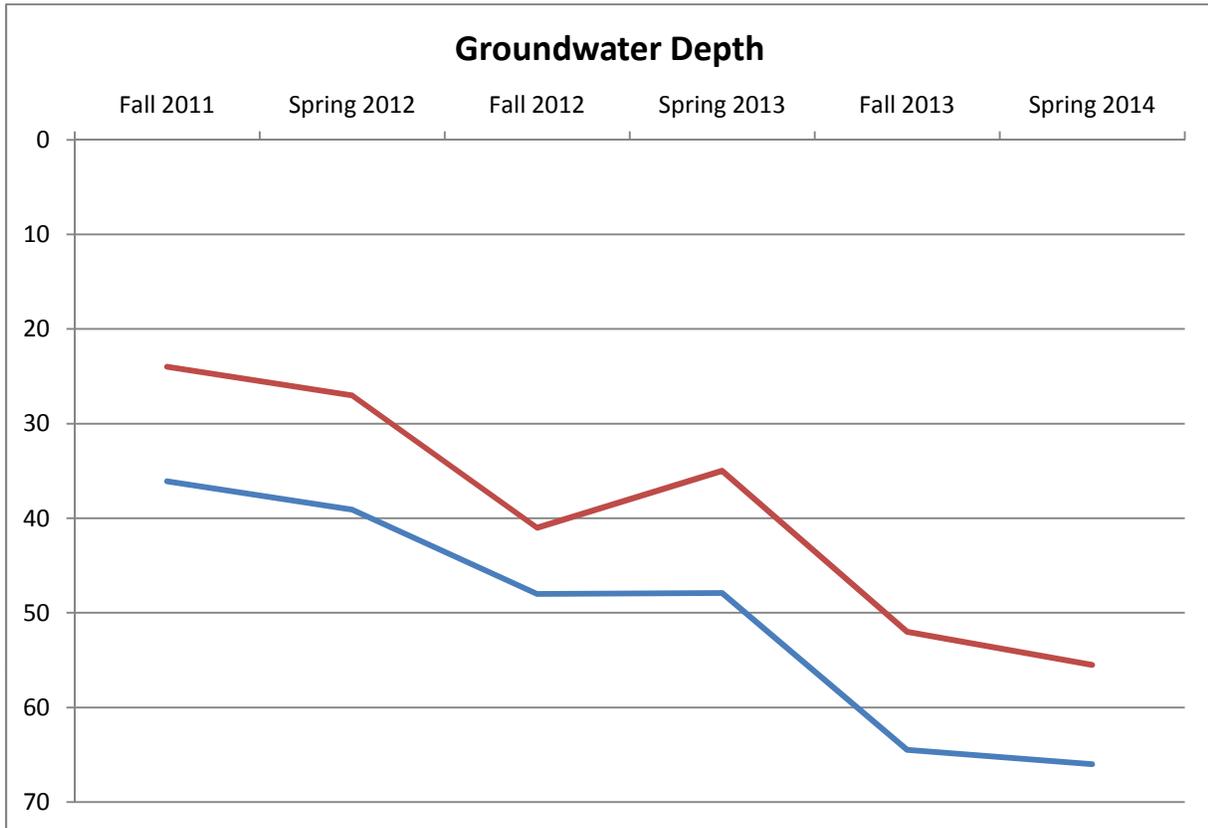
**Attachment 3g**  
**EOCSD Groundwater Depth**

Depth to Groundwater East Orosi CSD Vicinity Monitoring Well					
Well No.	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014
T143A	27.1	37.4	35.3	47.9	49



**Attachment 3h**  
**SCSD Groundwater Depth**

Depth to Groundwater Sultana CSD Vicinity Monitoring Well						
Well No.	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014
M115A	36.1	39.1	48	47.9	64.5	66
O114A	24	27	41	35	52	55.5



**Attachment 3i**  
**Energy Reduction Calculations**

**Consolidated Irrigation District**  
**Adams and Academy Banking Project**  
**Groundwater Pumping Savings from Groundwater Recharge**

Annual Recharge	230	AF
Assumed Area Benefitting from Recharge	6	square miles
	3,840	acres
Local Groundwater Pumping	2	AF/acre
Annual Groundwater Pumping in Area Benefitting from Recharge	7,680	AF
Specific Yield	0.08	
Annual Rise in Groundwater Levels	1	ft
Pumping Cost	\$0.23	\$/AF/ft
Assumed Period of Benefit before Recharged Water is Pumped and Used	2	years
Energy Savings	20,700	kwh
Greenhouse Gas Equivalencies	0.00070555	CO <sub>2</sub> tons/kwh
Greenhouse Gas Reduction	14.6	metric tons of CO <sub>2</sub>
Estimated Annual Savings	<b>\$3,000</b>	

**City of Fresno**  
**Nielsen Basin Recharge Project**  
**Groundwater Pumping Savings from Groundwater Recharge**

Annual Recharge	2,096	AF
Assumed Area Benefitting from Recharge	6	square miles
	3,840	acres
Local Groundwater Pumping	2	AF/acre
Annual Groundwater Pumping in Area Benefitting from Recharge	7,680	AF
Specific Yield	0.08	
Annual Rise in Groundwater Levels	7	ft
Pumping Cost	\$0.23	\$/AF/ft
Assumed Period of Benefit before Recharged Water is Pumped and Used	2	years
Energy Savings	188,640	kwh
Greenhouse Gas Equivalencies	0.00070555	CO <sub>2</sub> tons/kwh
Greenhouse Gas Reduction	133.1	metric tons of CO <sub>2</sub>
Estimated Annual Savings	<b>\$25,000</b>	

**Fresno Metropolitan Flood Control District**  
**Regional Groundwater Recharge Project**  
**Groundwater Pumping Savings from Groundwater Recharge**

Annual Recharge	2,925	AF
Assumed Area Benefitting from Recharge	6	square miles
	3,840	acres
Local Groundwater Pumping	2	AF/acre
Annual Groundwater Pumping in Area Benefitting from Recharge	7,680	AF
Specific Yield	0.08	
Annual Rise in Groundwater Levels	10	ft
Pumping Cost	\$0.23	\$/AF/ft
Assumed Period of Benefit before Recharged Water is Pumped and Used	2	years
Energy Savings	263,250	kwh
Greenhouse Gas Equivalencies	0.00070555	CO <sub>2</sub> tons/kwh
Greenhouse Gas Reduction	185.7	metric tons of CO <sub>2</sub>
Estimated Annual Savings	<b>\$34,000</b>	

**Attachment 3j**  
**Greenhouse Gas Equivalencies**



## Clean Energy

You are here: [EPA Home](#) » [Climate Change](#) » [Clean Energy](#) » [Clean Energy Resources](#) » Greenhouse Gas Equivalencies Calculator

<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>  
Last updated on Wednesday, April 16, 2014

# Greenhouse Gas Equivalencies Calculator



### About This Calculator

Last Updated: April 2014

- Latest updates and revision history
- Calculations and References

### Other Calculators

There are a number of other web-based calculators that can estimate greenhouse gas emission reductions for

- Individuals and households
- Waste, and
- Transportation.

For basic information and details on greenhouse gas emissions, visit the Emissions section of EPA's climate change site.

Did you ever wonder what reducing carbon dioxide (CO<sub>2</sub>) emissions by 1 million metric tons means in everyday terms? The greenhouse gas equivalencies calculator can help you understand just that, translating abstract measurements into concrete terms you can understand, such as "equivalent to avoiding the carbon dioxide emissions of 183,000 cars annually."

This calculator may be useful in communicating your greenhouse gas reduction strategy, reduction targets, or other initiatives aimed at reducing greenhouse gas emissions.

## Enter Your Data

There are two options for entering reduction data into this calculator.

**If You Have Energy Data**

**If You Have Emissions Data**

Please note that these estimates are approximate and should not be used for emission inventory or formal carbon footprinting exercises. Read more about the caveats and explanations on the [Calculations and References page](#)



**Calculate**

### Equivalency Results

The sum of the greenhouse gas emissions you entered above is **0.0007**

**Metric Tons** of Carbon Dioxide Equivalent. This is equivalent to:

### Annual greenhouse gas emissions from

**Attachment 3k**  
**East Orosi CSD Household Size**



ARIZON NEW MEXICO

OKLAHOMA

ARKANSAS

TENNESSEE

NORTH CAROLINA

SOUTH CAROLINA

QT-P11

Households and Families: 2010

2010 Census Summary File 1

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://www.census.gov/prod/cen2010/doc/sf1.pdf>.

**Geography: East Oroshi CDP, California**

Subject	Number	Percent
<b>HOUSEHOLD TYPE</b>		
Total households	112	100.0
Family households [1]	93	83.0
Male householder	66	58.9
Female householder	27	24.1
Nonfamily households [2]	19	17.0
Male householder	12	10.7
Living alone	8	7.1
Female householder	7	6.3
Living alone	3	2.7
<b>HOUSEHOLD SIZE</b>		
Total households	112	100.0
1-person household	11	9.8
2-person household	12	10.7
3-person household	14	12.5
4-person household	18	16.1
5-person household	26	23.2
6-person household	18	16.1
7-or-more-person household	13	11.6
Average household size	4.42	( X )
Average family size	4.73	( X )
<b>FAMILY TYPE AND PRESENCE OF RELATED AND OWN CHILDREN</b>		
Families [3]	93	100.0
With related children under 18 years	72	77.4
With own children under 18 years	62	66.7
Under 6 years only	13	14.0
Under 6 and 6 to 17 years	23	24.7
6 to 17 years only	26	28.0
Husband-wife families	57	100.0
With related children under 18 years	43	75.4
With own children under 18 years	38	66.7
Under 6 years only	2	3.5
Under 6 and 6 to 17 years	16	28.1
6 to 17 years only	20	35.1
Female householder, no husband present families	19	100.0
With related children under 18 years	15	78.9
With own children under 18 years	13	68.4
Under 6 years only	7	36.8
Under 6 and 6 to 17 years	3	15.8
6 to 17 years only	3	15.8

**Attachment 31**  
**Sultana CSD Household Size**



QT-P11

Households and Families: 2010

2010 Census Summary File 1

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://www.census.gov/prod/cen2010/doc/sf1.pdf>.

**Geography: Sultana CDP, California**

Subject	Number	Percent
<b>HOUSEHOLD TYPE</b>		
Total households	220	100.0
Family households [1]	165	75.0
Male householder	102	46.4
Female householder	63	28.6
Nonfamily households [2]	55	25.0
Male householder	35	15.9
Living alone	26	11.8
Female householder	20	9.1
Living alone	14	6.4
<b>HOUSEHOLD SIZE</b>		
Total households	220	100.0
1-person household	40	18.2
2-person household	41	18.6
3-person household	26	11.8
4-person household	45	20.5
5-person household	37	16.8
6-person household	15	6.8
7-or-more-person household	16	7.3
Average household size	3.52	( X )
Average family size	4.12	( X )
<b>FAMILY TYPE AND PRESENCE OF RELATED AND OWN CHILDREN</b>		
Families [3]	165	100.0
With related children under 18 years	123	74.5
With own children under 18 years	109	66.1
Under 6 years only	18	10.9
Under 6 and 6 to 17 years	38	23.0
6 to 17 years only	53	32.1
Husband-wife families	109	100.0
With related children under 18 years	81	74.3
With own children under 18 years	73	67.0
Under 6 years only	11	10.1
Under 6 and 6 to 17 years	26	23.9
6 to 17 years only	36	33.0
Female householder, no husband present families	36	100.0
With related children under 18 years	29	80.6
With own children under 18 years	25	69.4
Under 6 years only	4	11.1
Under 6 and 6 to 17 years	9	25.0
6 to 17 years only	12	33.3