



**GROUNDWATER  
CONDITIONS  
REPORT –  
CUYAMA VALLEY  
GROUNDWATER  
BASIN**

July 2022

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**Cuyama Basin  
Groundwater  
Sustainability Agency**

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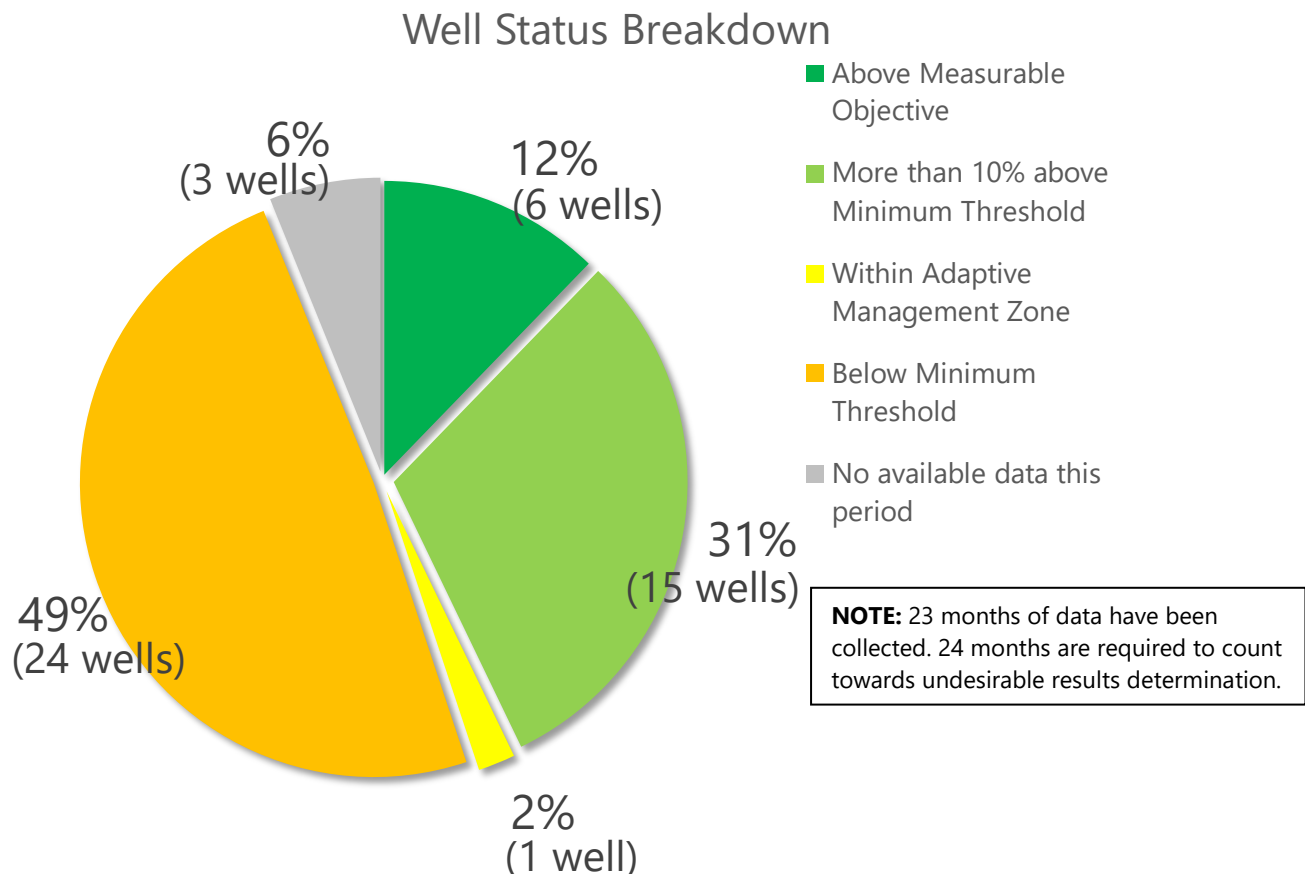
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## 1. INTRODUCTION

This report is intended to provide an update on the current groundwater level conditions in the Cuyama Valley Groundwater Basin. This work is completed by the Cuyama Basin Groundwater Sustainability Agency (CBGSA), in compliance with the Sustainable Groundwater Management Act (SGMA).

## 2. SUMMARY STATISTICS



As outlined in the GSP, undesirable results for the chronic lowering of groundwater levels occurs, “when 30 percent of representative monitoring wells... fall below their minimum groundwater elevation threshold for two consecutive years.” (Cuyama GSP, pg. 3-2). Currently, 30% of representative monitoring wells (i.e. 15 wells) have been below the minimum threshold for 14 or more consecutive months.

## 3. CURRENT CONDITIONS

Table 1 includes the most recent groundwater level measurements taken in the Cuyama Basin from representative wells included in the Cuyama GSP Groundwater Level Monitoring Network, as well as the previous two measurements. Table 2 includes all of the wells and their current status in relation to the thresholds applied to each well. This information is also shown on Figure 1.

All measurements have also been incorporated into the Cuyama DMS, which may be accessed at <https://opti.woodardcurran.com/cuyama/login.php>.

**Table 1: Recent Groundwater Levels for Representative Monitoring Network**

Well	Region	Jan-22	Apr-22	Jul-22	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	2022	2021	2010	1999	Jul-21	11
74	Central	1919	1928	1932	1943	Jul-21	-11
77	Central	1814	1803	1772	1776	Jul-21	-4
91	Central	1812	1813	1812	1811	Jul-21	1
95	Central	1848	1847	1841	1848	Jul-21	-7
96	Central	2271	2271	2270	2272	Jul-21	-2
98	Central	-	-	-	-	-	-
99	Central	2222	2223	2178	2155	Jul-21	23
102	Central	1622	1622	-	1711	Jul-21	-
103	Central	1997	2007	2014	1976	Jul-21	37
112	Central	2054	2053	2053	2054	Jul-21	-1
114	Central	-	1878	1878	1879	Jul-21	-1
316	Central	1812	1813	1811	1813	Jul-21	-2
317	Central	1812	1813	1813	1813	Jul-21	0
322	Central	2220	2222	2169	2146	Jul-21	23
324	Central	2218	2220	2187	2169	Jul-21	18
325	Central	2220	2222	2201	2204	Jul-21	-3
420	Central	1803	1792	1768	1763	Jul-21	5
421	Central	1800	1793	1789	1776	Jul-21	13
474	Central	2204	2204	2203	2204	Jul-21	0

Well	Region	Jan-22	Apr-22	Jul-22	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
568	Central	1867	1868	1852	1867	Jul-21	-14
604	Central	1674	-	-	-	-	-
608	Central	1779	1817	-	-	-	-
609	Central	1789	1760	1692	-	-	-
610	Central	1814	1814	1801	1813	Jul-21	-12
612	Central	1795	1793	-	1811	Jul-21	-
613	Central	1814	1809	1792	1809	Jul-21	-17
615	Central	1814	1813	1795	1817	Jul-21	-22
629	Central	1813	1807	-	-	-	-
633	Central	1815	1794	-	-	-	-
62	Eastern	2765	2766	2760	2763	Jul-21	-3
85	Eastern	2847	2847	2846	2847	Jul-21	-1
100	Eastern	2850	2850	2849	2852	Jul-21	-3
101	Eastern	2635	-	-	2617	Jul-21	-
841	Northwestern	1674	1676	1653	1667	Jul-21	-14
845	Northwestern	1646	1645	1633	1640	Jul-21	-7
2	Southeastern	-	-	-	-	-	-
89	Southeastern	3427	3425	3445	3428	Jul-21	16
106	Western	2183	2183	2183	2184	Jul-21	-1
107	Western	2370	2383	2392	2393	Jul-21	-2
117	Western	1947	1946	1945	1946	Jul-21	-1

Well	Region	Jan-22	Apr-22	Jul-22	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
118	Western	2211	2210	2210	2217	Jul-21	-7
124	Western	-	-	-	-	-	-
571	Western	2185	2182	2181	2183	Jul-21	-2
573	Western	2013	2013	2012	2013	Jul-21	-1
830	Far-West Northwestern	-	1510	1509	-	-	-
832	Far-West Northwestern	1590	1590	1590	1592	Jul-21	-2
833	Far-West Northwestern	1432	-	1423	1429	Jul-21	-6
836	Far-West Northwestern	1448	1448	1447	1448	Jul-21	-1

**Table 2: Well Status Related to Thresholds**

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
72	Central	162	7/14/2022	169	165	124	790	More than 10% above Minimum Threshold	No
74	Central	261	7/14/2022	256	255	243		Below Minimum Threshold (7 months)	No
77	Central	514	7/14/2022	450	445	400	980	Below Minimum Threshold (23 months)	No
91	Central	662	7/14/2022	625	620	576	980	Below Minimum Threshold (23 months)	No
95	Central	608	7/13/2022	573	570	538	805	Below Minimum Threshold (23 months)	No
96	Central	336	7/13/2022	333	332	325	500	Below Minimum Threshold (20 months)	No
98	Central	-		450	449	439	750	No available data this period (no available data in past 12 months)	No
99	Central	335	7/14/2022	311	310	300	750	Below Minimum Threshold (1 month)	No
102	Central	-		235	231	197		No available data this period (below MT in Apr 2022, 19 months)	No
103	Central	275	7/14/2022	290	285	235	1030	More than 10% above Minimum Threshold	No
112	Central	86	7/14/2022	87	87	85	441	More than 10% above Minimum Threshold	No
114	Central	47	7/14/2022	47	47	45	58	Below Minimum Threshold (4 months)	No
316	Central	663	7/13/2022	623	618	574	830	Below Minimum Threshold (23 months)	No
317	Central	661	7/13/2022	623	618	573	700	Below Minimum Threshold (23 months)	No

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
322	Central	344	7/14/2022	307	306	298	850	Below Minimum Threshold (1 month)	No
324	Central	325	7/14/2022	311	310	299	560	Below Minimum Threshold (1 month)	No
325	Central	312	7/14/2022	300	299	292	380	Below Minimum Threshold (1 month)	No
420	Central	518	7/13/2022	450	445	400	780	Below Minimum Threshold (23 months)	No
421	Central	497	7/13/2022	446	441	398	620	Below Minimum Threshold (23 months)	No
474	Central	165	7/14/2022	188	186	169	213	Above Measurable Objective	No
568	Central	53	7/14/2022	37	37	36	188	Below Minimum Threshold (14 months)	No
604	Central	-		526	522	487	924	No available data this period (above MO in Jan 2022)	No
608	Central	-		436	433	407	745	No available data this period (above MO in Apr 2022)	No
609	Central	475	7/15/2022	458	454	421	970	Below Minimum Threshold (1 month)	No
610	Central	641	7/13/2022	621	618	591	780	Below Minimum Threshold (15 months)	No
612	Central	-		463	461	440	1070	No available data this period (below MT in Apr 2022, 7 months)	No
613	Central	538	7/13/2022	503	500	475	830	Below Minimum Threshold (21 months)	No
615	Central	532	7/13/2022	500	497	468	865	Below Minimum Threshold (20 months)	No
629	Central	-		559	556	527	1000	No available data this period (below MT in Apr 2022, 16 months)	No

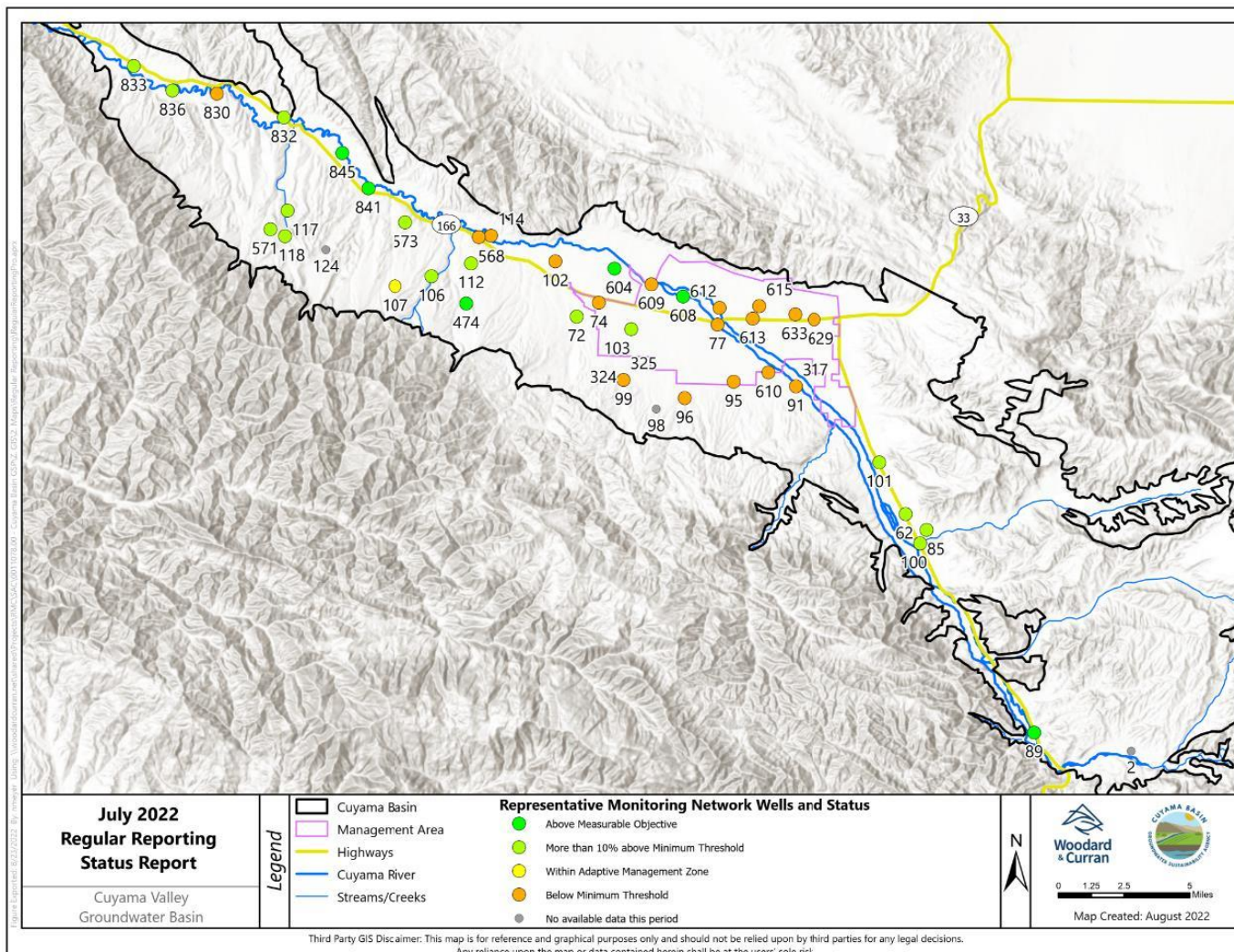


Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
633	Central	-		547	542	493	1000	No available data this period (below MT in Apr 2022, 16 months)	No
62	Eastern	161	7/14/2022	182	178	142	212	More than 10% above Minimum Threshold	No
85	Eastern	201	7/15/2022	233	225	147	233	More than 10% above Minimum Threshold	No
100	Eastern	155	7/14/2022	181	175	125	284	More than 10% above Minimum Threshold	No
101	Eastern	-		111	108	81	200	No available data this period (>10% above MT in Jan 2022)	No
841	Northwestern	108	7/14/2022	203	198	153	600	Above Measurable Objective	No
845	Northwestern	78	7/14/2022	203	198	153	380	Above Measurable Objective	No
2	Southeastern	-		72	70	55	73	No available data this period (no available data in past 12 months)	No
89	Southeastern	17	7/14/2022	64	62	44	125	Above Measurable Objective	No
106	Western	144	7/14/2022	154	153	141	228	More than 10% above Minimum Threshold	No
107	Western	91	7/14/2022	91	89	72	200	Within Adaptive Management Zone	No
117	Western	153	7/13/2022	160	159	151	212	More than 10% above Minimum Threshold	No
118	Western	60	7/13/2022	124	117	57	500	More than 10% above Minimum Threshold	No
124	Western	-		73	71	57	161	No available data this period (no available data in past 12 months)	No
571	Western	126	7/13/2022	144	142	121	280	More than 10% above Minimum Threshold	No

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
573	Western	72	7/14/2022	118	113	68	404	More than 10% above Minimum Threshold	No
830	Far-West Northwestern	62	7/14/2022	59	59	56	77	Below Minimum Threshold (13 months)	No
832	Far-West Northwestern	40	7/13/2022	45	44	30	132	More than 10% above Minimum Threshold	No
833	Far-West Northwestern	34	7/14/2022	96	89	24	504	More than 10% above Minimum Threshold	No
836	Far-West Northwestern	39	7/13/2022	79	75	36	325	More than 10% above Minimum Threshold	No

Note: Wells only count towards the identification of undesirable results if the level measurement is below the minimum threshold for 24 consecutive months.

**Figure 1: Groundwater Level Representative Wells and Status in July 2022**



#### 4. HYDROGRAPHS

The following hydrographs provide an overview of conditions in each of the six areas threshold regions identified in the GSP.

**Figure 2: Southeast Region – Well 89**

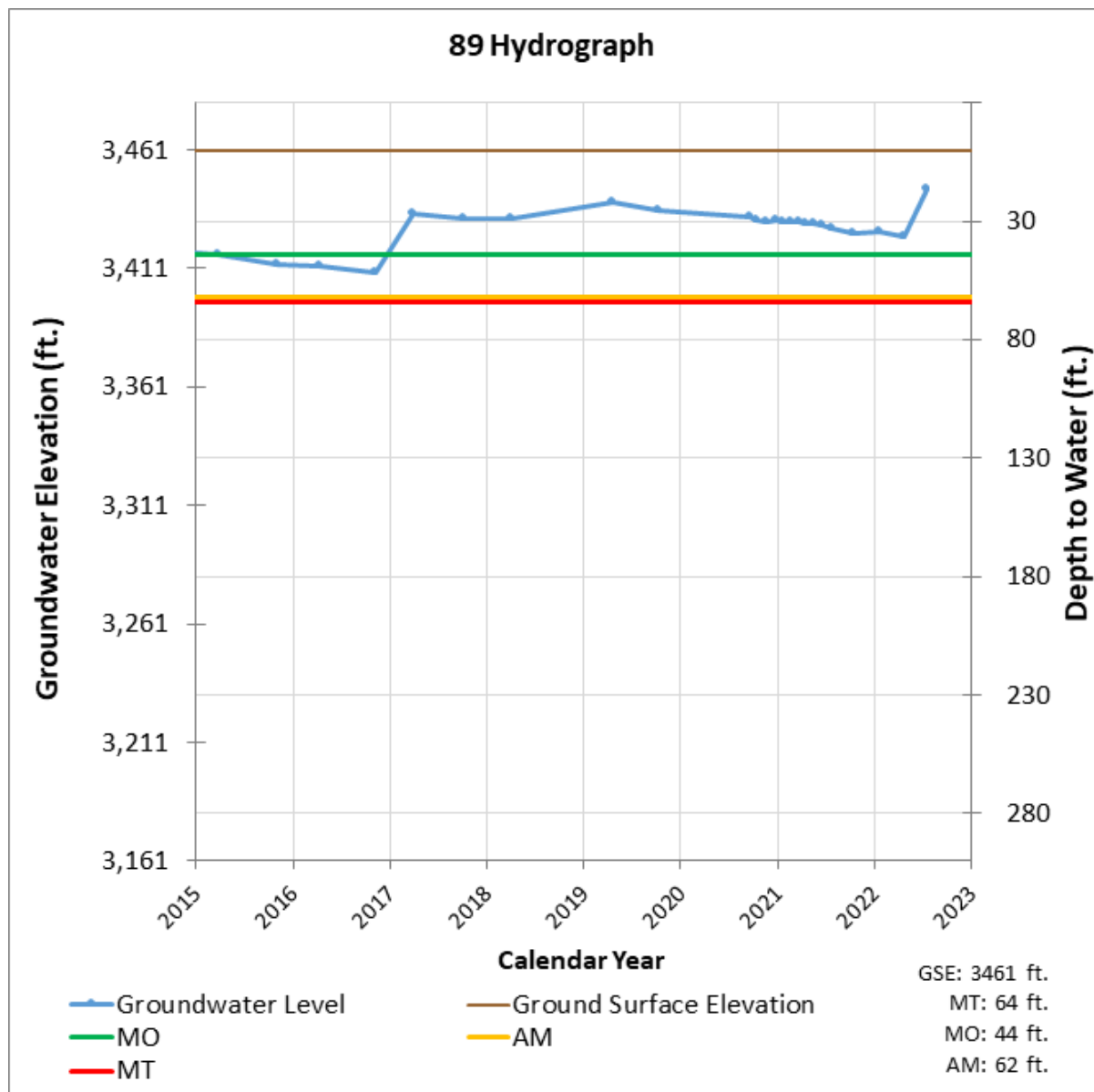


Figure 3: Eastern Region – Well 62

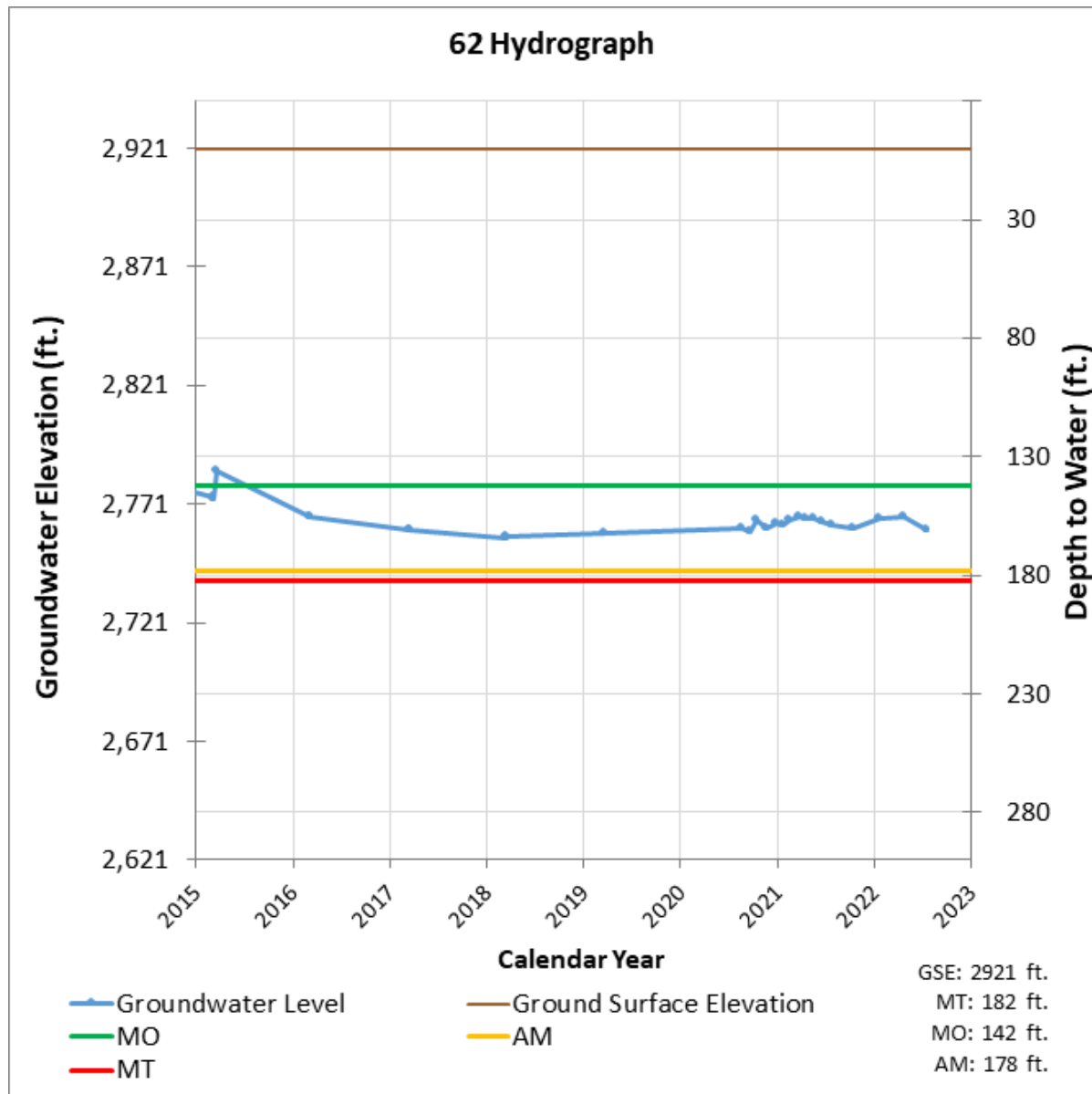


Figure 4: Central Region – Well 91

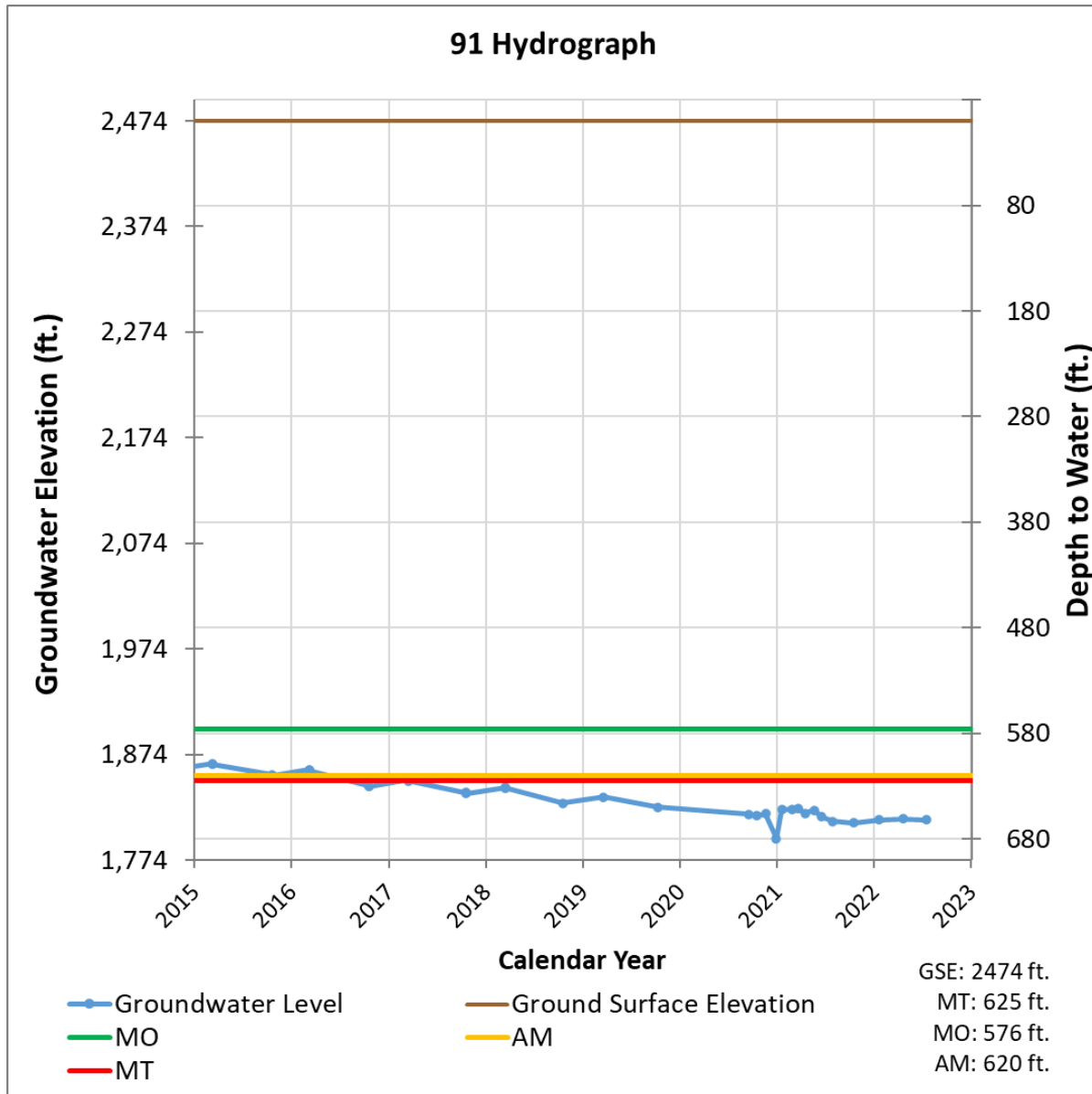
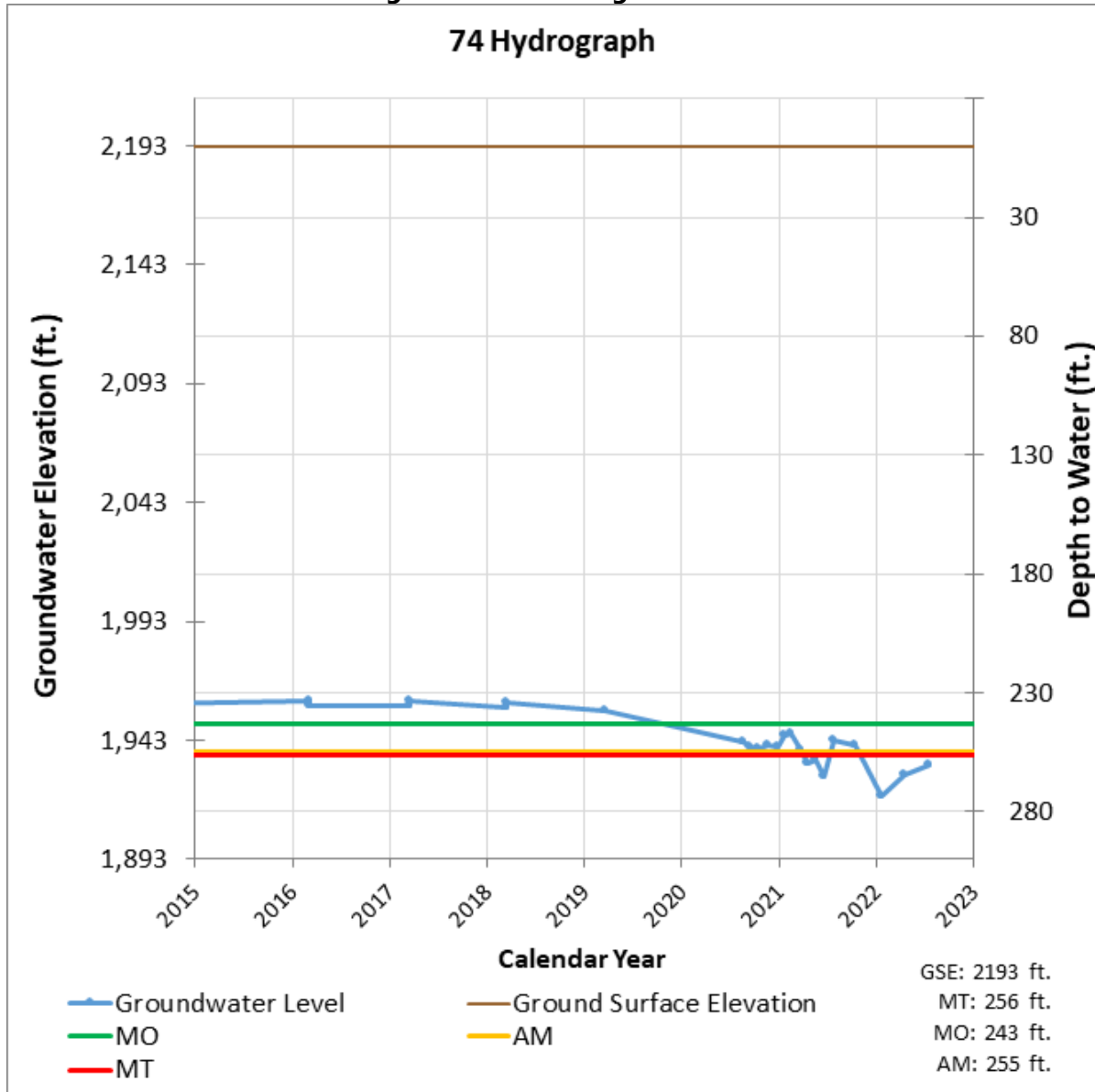


Figure 5: Central Region – Well 74



**Figure 6: Western Region – Well 571**

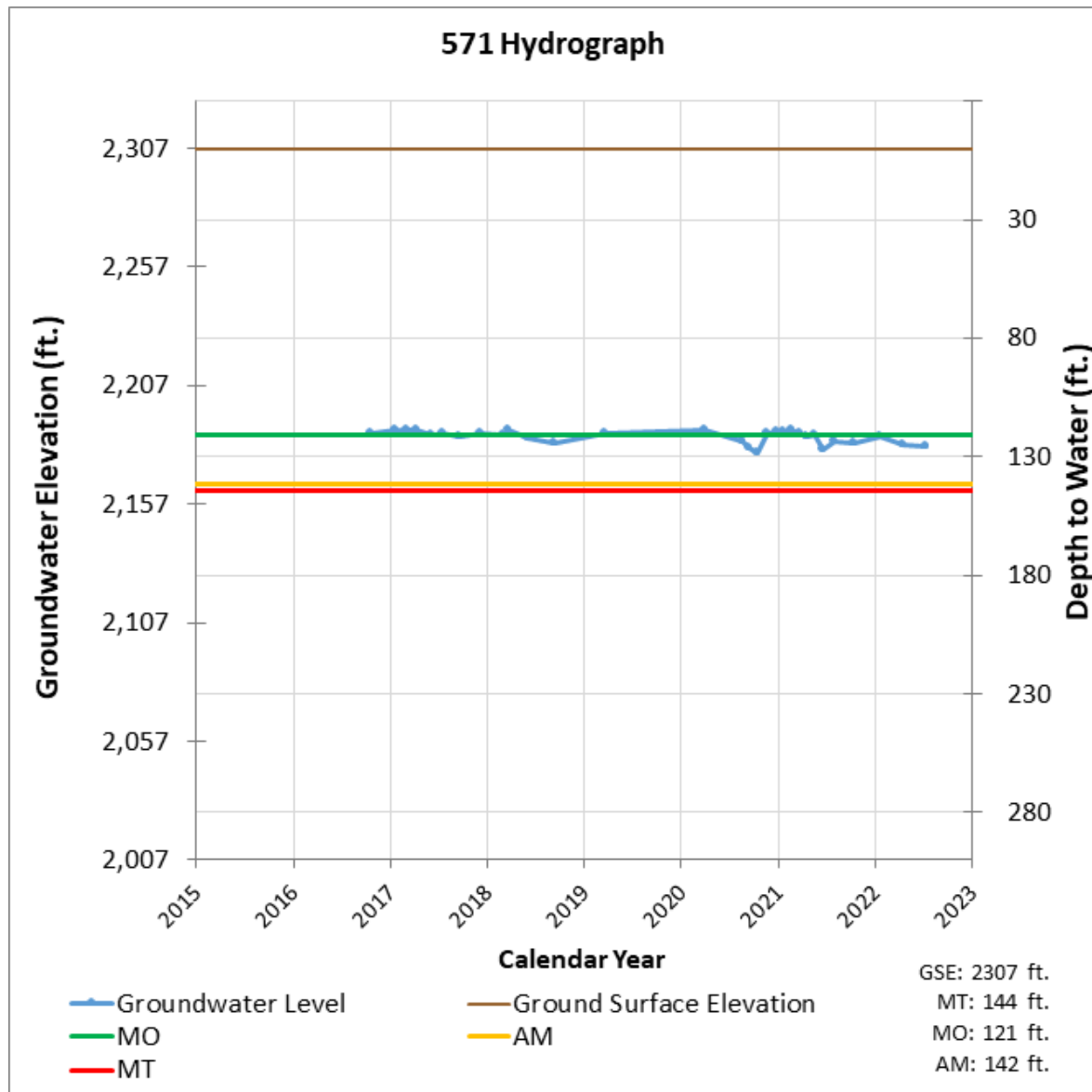
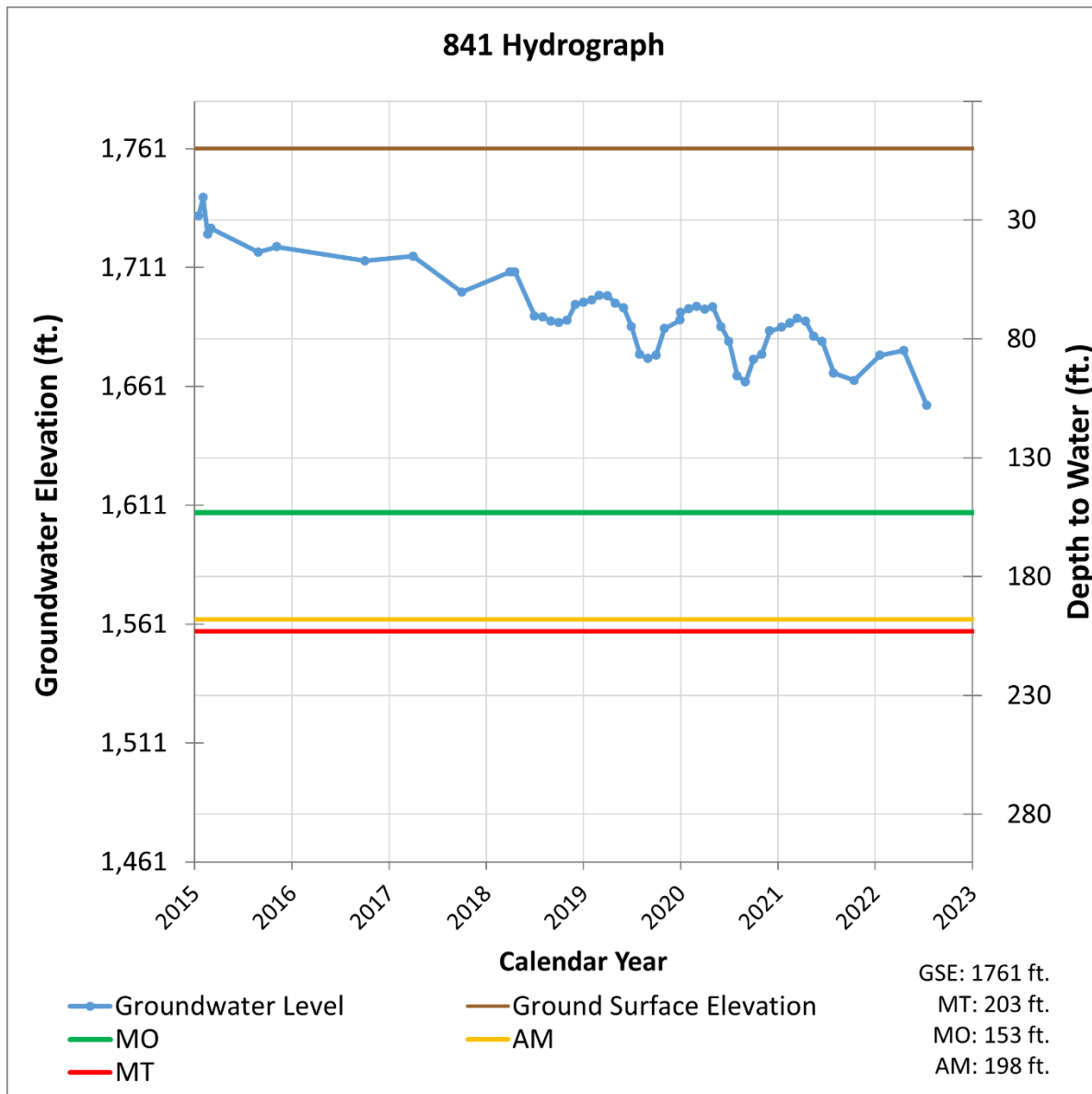
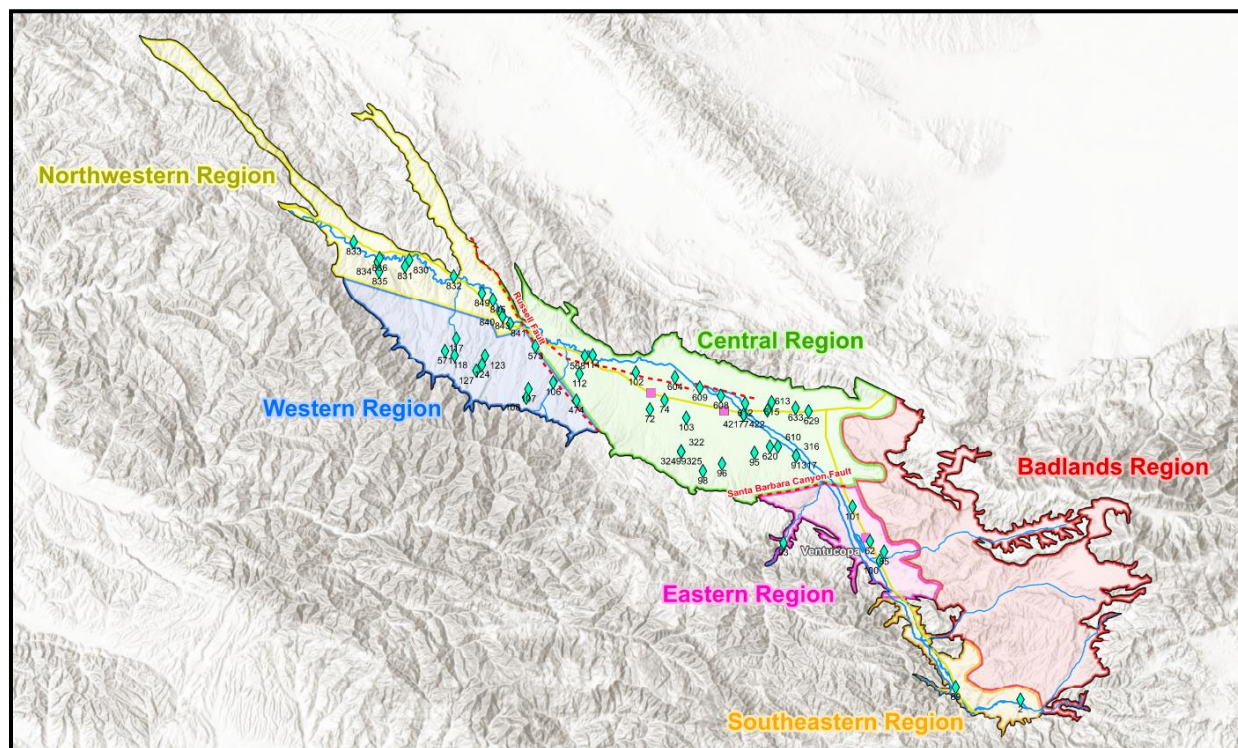




Figure 7: Northwestern Region – Well 841



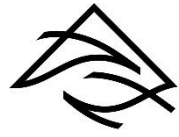


**Figure 8: Threshold Regions in the Cuyama Groundwater Basin**

## 5. MONITORING NETWORK UPDATES

As shown in Table 2, there are 10 wells without measurements in July. These “no measurement codes” can have different causes as described below.

- Access agreements have not been established with the landowner:
  - Wells 2, 98, 124
- Transducer data was not available:
  - 102
- Measurement was not possible at the time when the field technician went to take measurements:
  - Wells 101, 604, 608, 612, 629, 633



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