



# GROUNDWATER CONDITIONS REPORT – CUYAMA VALLEY GROUNDWATER BASIN

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801 T Street  
Sacramento, CA.  
916.999.8700

[woodardcurran.com](http://woodardcurran.com)

COMMITMENT & INTEGRITY DRIVE RESULTS

**Cuyama Basin  
Groundwater  
Sustainability Agency**

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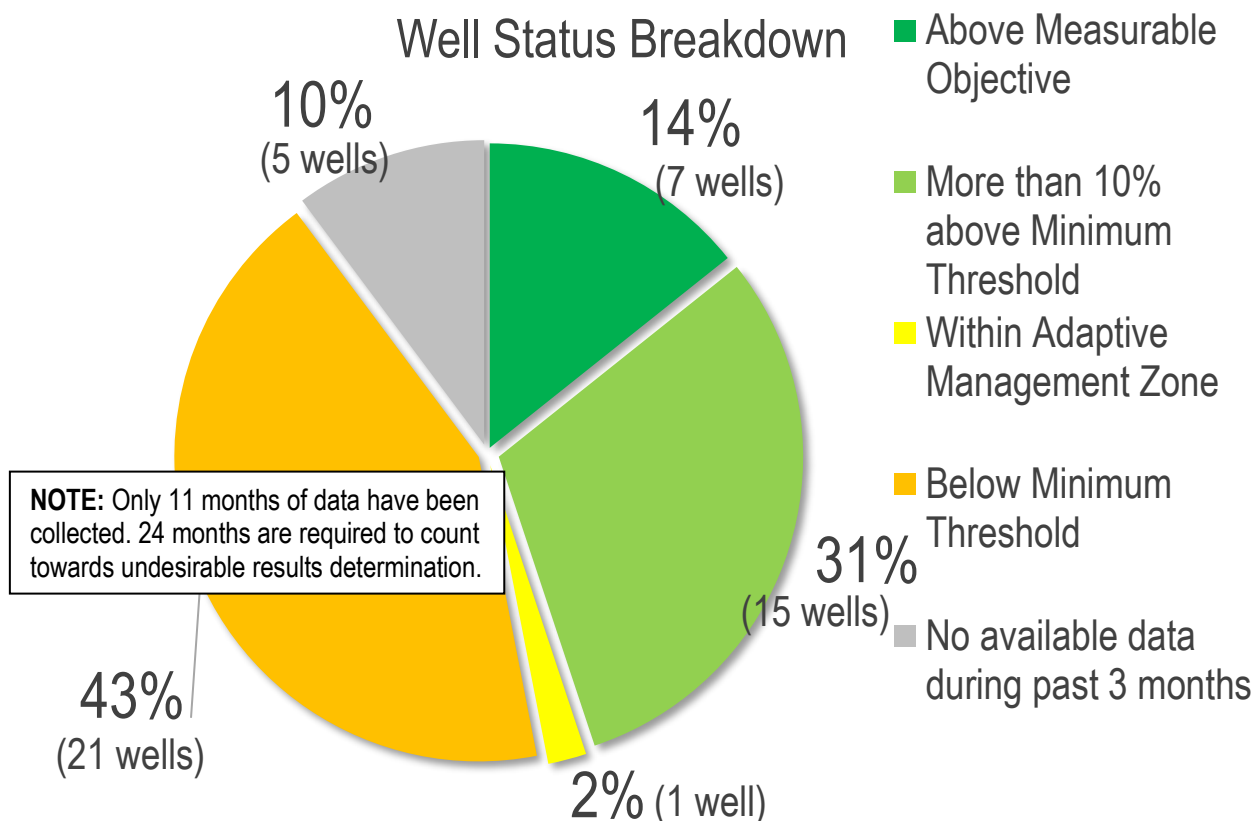
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## 1. INTRODUCTION

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.

## 2. SUMMARY STATISTICS



The pie chart shows the well status for the most recent groundwater elevation measurement (during the past 3 months) in each well. Five wells have not had a successful measurement during this period.

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).

## 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	May-21	Jun-21	Jul-21	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	2009	1816	1999			
74	Central	1935	1927	1943			
77	Central	1799	1783	1776			
91	Central	1821	1815	1811			
95	Central	1852	1850	1848			
96	Central	2272	2272	2272			
98	Central	-	-	-			
99	Central	2203	2196	2155			
102	Central	1773	1764	1711			
103	Central	1974	1970	1976			
112	Central	2054	2054	2054			
114	Central	1879	-	1879			
316	Central	1820	1817	1813			
317	Central	1820	1817	1813			
322	Central	2202	2193	2146			
324	Central	2207	2199	2169			
325	Central	2214	2204	2204			
420	Central	1787	1775	1763			
421	Central	1794	1784	1776			
474	Central	2202	2203	2204			

Well	Region	May-21	Jun-21	Jul-21	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
568	Central	1868	1867	1867			
604	Central	1651	1643	-			
608	Central	1772	-	-			
609	Central	-	1738	-			
610	Central	1819	1816	1813			
612	Central	1799	1796	1811			
613	Central	1815	1812	1809			
615	Central	1816	1817	1817			
629	Central	-	-	-			
633	Central	-	-	-			
62	Eastern	2765	2764	2763			
85	Eastern	2847	2848	2847			
100	Eastern	2854	2854	2852			
101	Eastern	2618	2614	2617			
841	Northwestern	1682	1680	1667			
845	Northwestern	1647	1645	1640			
2	Southeastern	-	-	-			
89	Southeastern	3430	3429	3428			
106	Western	2183	2183	2184			
107	Western	2394	2395	2393			
117	Western	-	-	1946			

Well	Region	May-21	Jun-21	Jul-21	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
118	Western	2212	2211	2217			
124	Western	-	-	-			
571	Western	2186	2180	2183			
573	Western	2014	-	2013			
830	Far-West Northwestern	1513	1513	-			
832	Far-West Northwestern	1592	1592	1592			
833	Far-West Northwestern	-	-	1429			
836	Far-West Northwestern	1449	1449	1448			

Note: Previous year values and annual elevation changes will be reported after the CBGSA monitoring program has completed a full year of monitoring.

**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)	Month/Year						
72	Central	172	7/29/2021	169	165	124	790	Below Minimum Threshold (2 months)	No
74	Central	250	7/27/2021	256	255	243		More than 10% above Minimum Threshold	No
77	Central	510	7/29/2021	450	445	400	980	Below Minimum Threshold (11 months)	No
91	Central	663	7/29/2021	625	620	576	980	Below Minimum Threshold (11 months)	No
95	Central	601	7/27/2021	573	570	538	805	Below Minimum Threshold (12 months)	No
96	Central	334	7/27/2021	333	332	325	500	Below Minimum Threshold (8 months)	No
98	Central	-	N/A	450	449	439	750	No available data this period (No available data in past 3 months)	No
99	Central	358	7/29/2021	311	310	300	750	Below Minimum Threshold (2 months)	No
102	Central	335	7/28/2021	235	231	197		Below Minimum Threshold (7 months)	No
103	Central	313	7/29/2021	290	285	235	1030	Below Minimum Threshold (4 months)	No
112	Central	85	7/29/2021	87	87	85	441	Above Measurable Objective	No
114	Central	46	7/29/2021	47	47	45	58	More than 10% above Minimum Threshold	No
316	Central	661	7/29/2021	623	618	574	830	Below Minimum Threshold (11 months)	No
317	Central	661	7/29/2021	623	618	573	700	Below Minimum Threshold (11 months)	No
322	Central	367	7/29/2021	307	306	298	850	Below Minimum Threshold (3 months)	No
324	Central	344	7/29/2021	311	310	299	560	Below Minimum Threshold (2 months)	No
325	Central	309	7/29/2021	300	299	292	380	Below Minimum Threshold (2 months)	No
420	Central	523	7/29/2021	450	445	400	780	Below Minimum Threshold (11 months)	No
421	Central	510	7/29/2021	446	441	398	620	Below Minimum Threshold (11 months)	No

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Month/Year						
474	Central	165	7/29/2021	188	186	169	213	Above Measurable Objective	No
568	Central	38	7/29/2021	37	37	36	188	Below Minimum Threshold (2 months)	No
604	Central	-	7/27/2021	526	522	487	924	No available data this period (Above MO in Jun 2021)	No
608	Central	-	7/27/2021	436	433	407	745	No available data this period (Below MT in May 2021)	No
609	Central	-	7/27/2021	458	454	421	970	No available data this period (>10% above MT in Jun 2021)	No
610	Central	629	7/27/2021	621	618	591	780	Below Minimum Threshold (3 months)	No
612	Central	455	7/27/2021	463	461	440	1070	More than 10% above Minimum Threshold	No
613	Central	521	7/27/2021	503	500	475	830	Below Minimum Threshold (9 months)	No
615	Central	510	7/29/2021	500	497	468	865	Below Minimum Threshold (8 months)	No
629	Central	-	7/27/2021	559	556	527	1000	No available data this period (No available data in past 3 months)	No
633	Central	-	7/27/2021	547	542	493	1000	No available data this period (No available data in past 3 months)	No
62	Eastern	158	7/27/2021	182	178	142	212	More than 10% above Minimum Threshold	No
85	Eastern	200	7/27/2021	233	225	147	233	More than 10% above Minimum Threshold	No
100	Eastern	152	7/27/2021	181	175	125	284	More than 10% above Minimum Threshold	No
101	Eastern	124	7/27/2021	111	108	81	200	Below Minimum Threshold (3 months)	No
841	Northwestern	94	7/29/2021	203	198	153	600	Above Measurable Objective	No
845	Northwestern	72	7/29/2021	203	198	153	380	Above Measurable Objective	No
2	Southeastern	-	N/A	72	70	55	73	No available data this period (No available data in past 3 months)	No

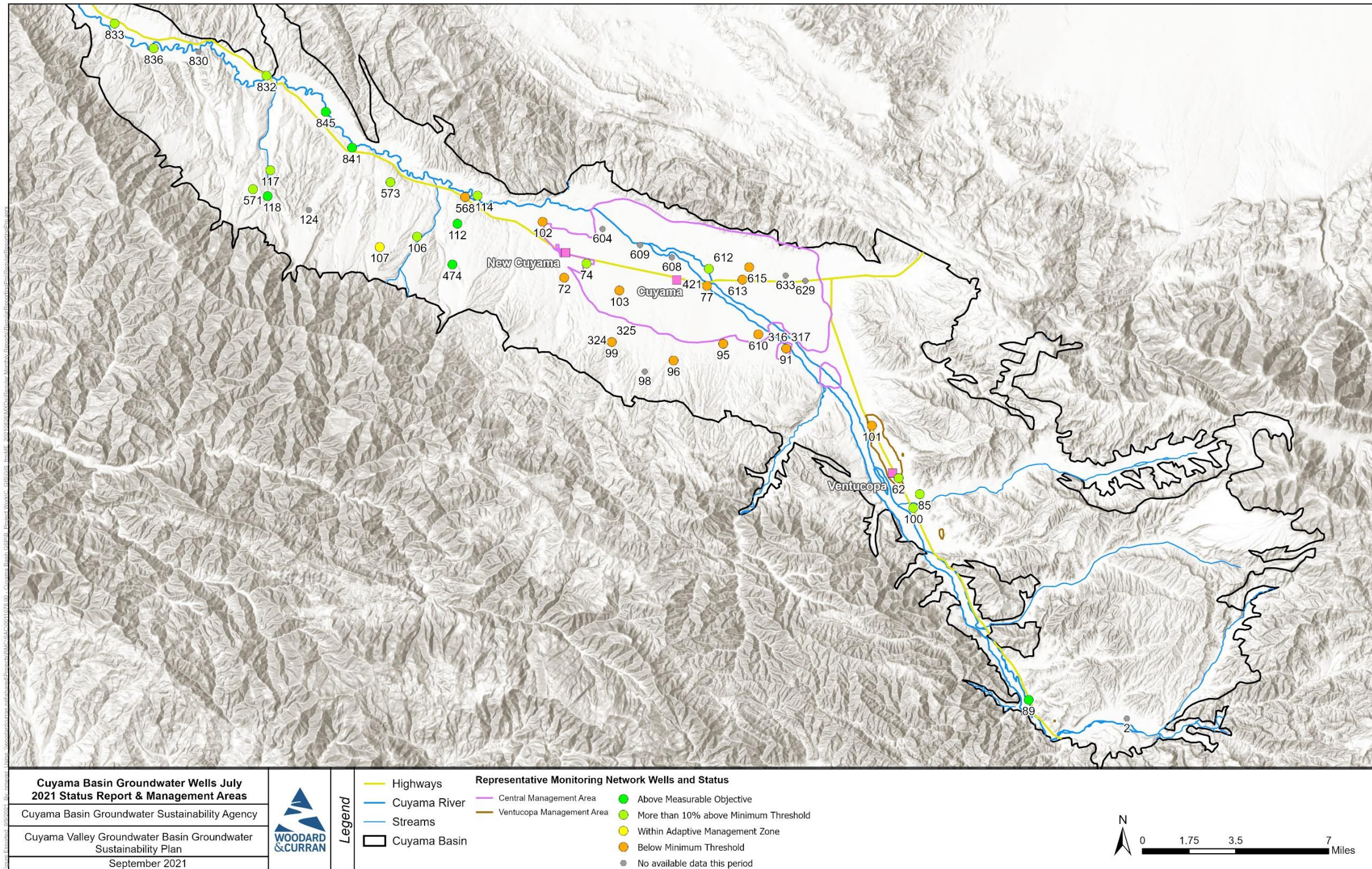


Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Month/Year						
89	Southeastern	33	7/27/2021	64	62	44	125	Above Measurable Objective	No
106	Western	143	7/29/2021	154	153	141	228	More than 10% above Minimum Threshold	No
107	Western	89	7/29/2021	91	89	72	200	Within Adaptive Management Zone	No
117	Western	152	7/29/2021	160	159	151	212	More than 10% above Minimum Threshold	No
118	Western	53	7/29/2021	124	117	57	500	Above Measurable Objective	No
124	Western	-	N/A	73	71	57	161	No available data this period (No available data in past 3 months)	No
571	Western	124	7/29/2021	144	142	121	280	More than 10% above Minimum Threshold	No
573	Western	71	7/29/2021	118	113	68	404	More than 10% above Minimum Threshold	No
830	Far-West Northwestern	-	7/29/2021	59	59	56	77	No available data this period (>10% above MT in Jun 2021)	No
832	Far-West Northwestern	38	7/29/2021	45	44	30	132	More than 10% above Minimum Threshold	No
833	Far-West Northwestern	28	7/29/2021	96	89	24	504	More than 10% above Minimum Threshold	No
836	Far-West Northwestern	38	7/29/2021	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**





## 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

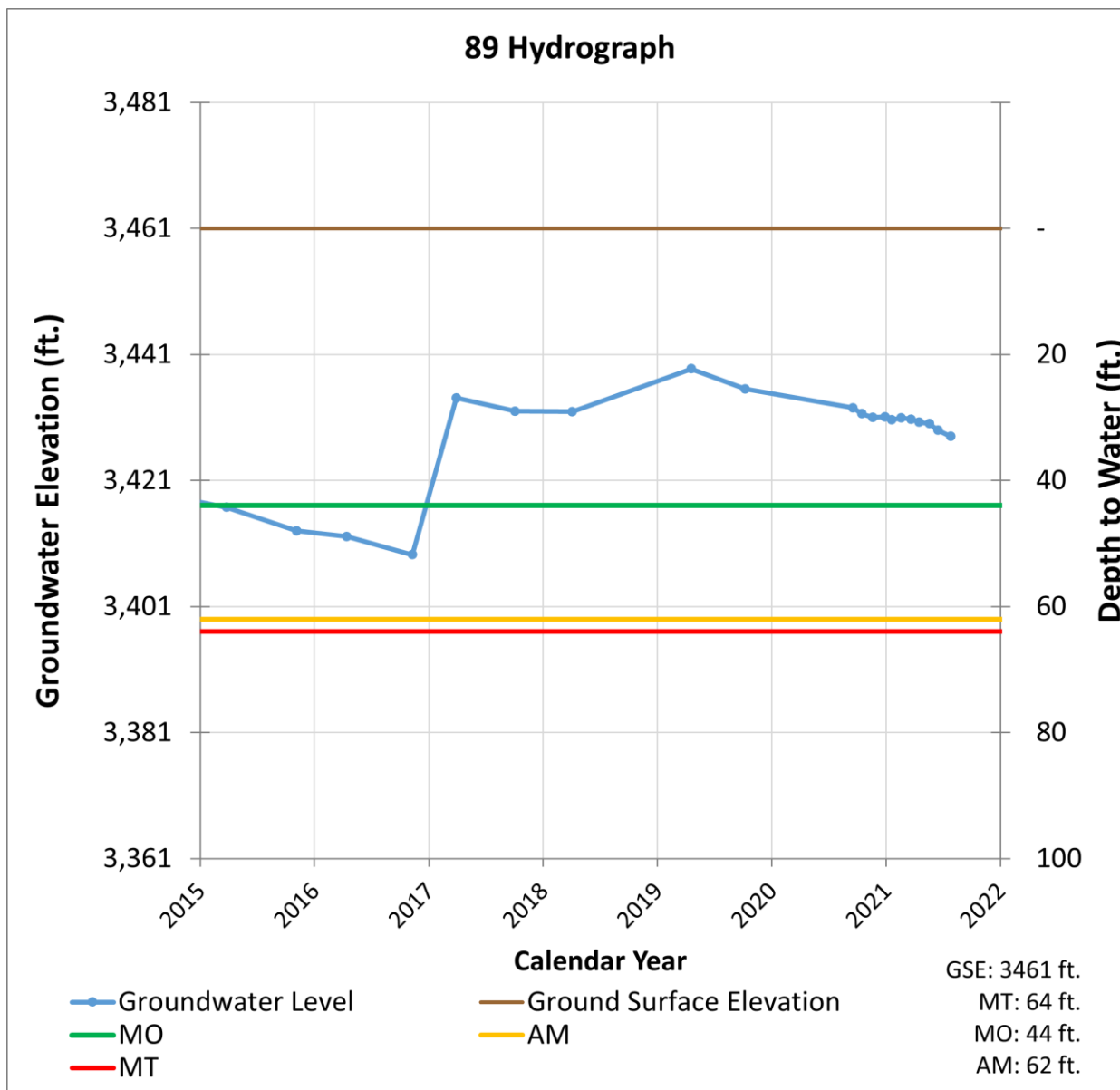


Figure 3: Eastern Region – Well 62

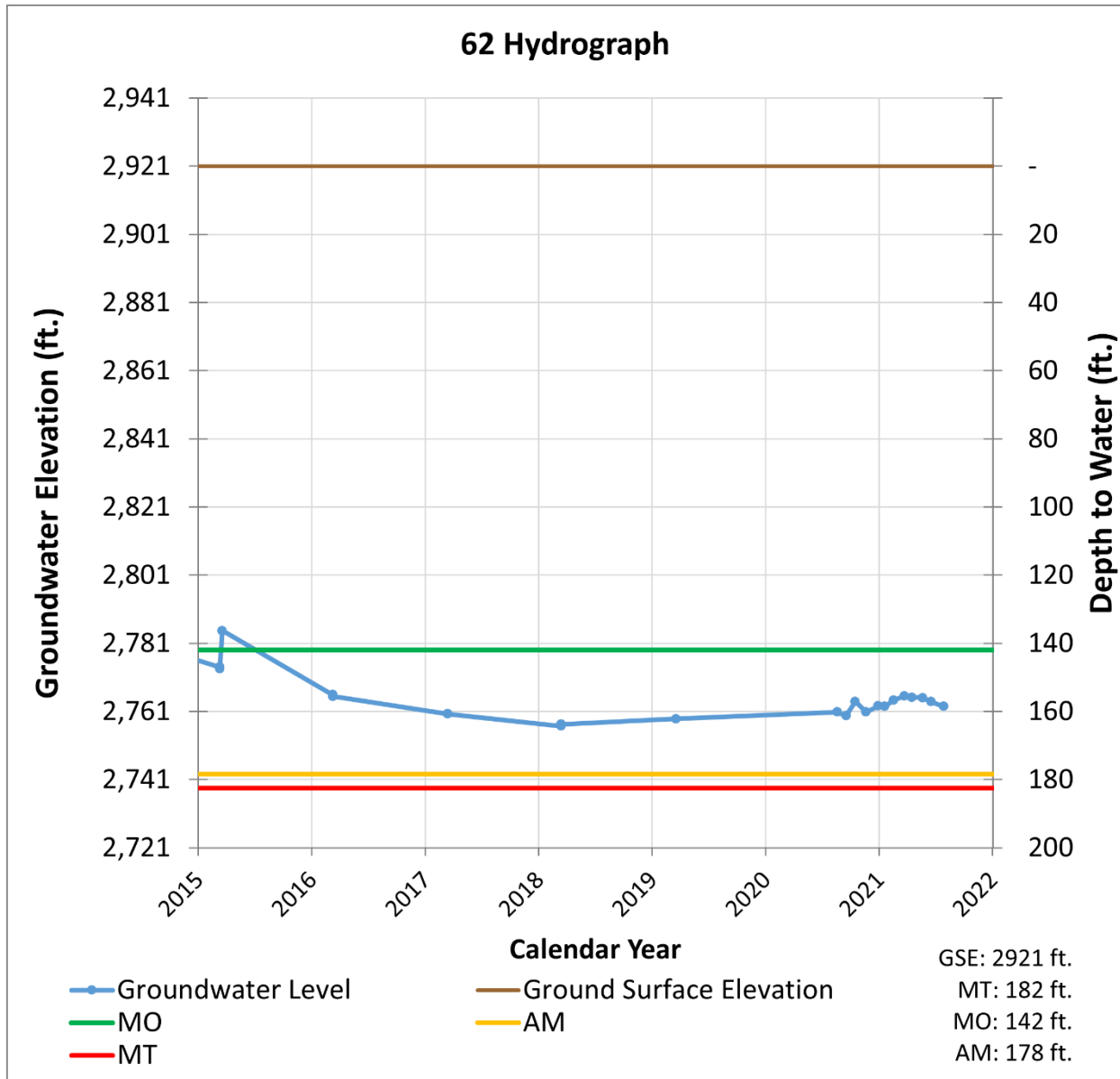


Figure 4: Central Region – Well 91

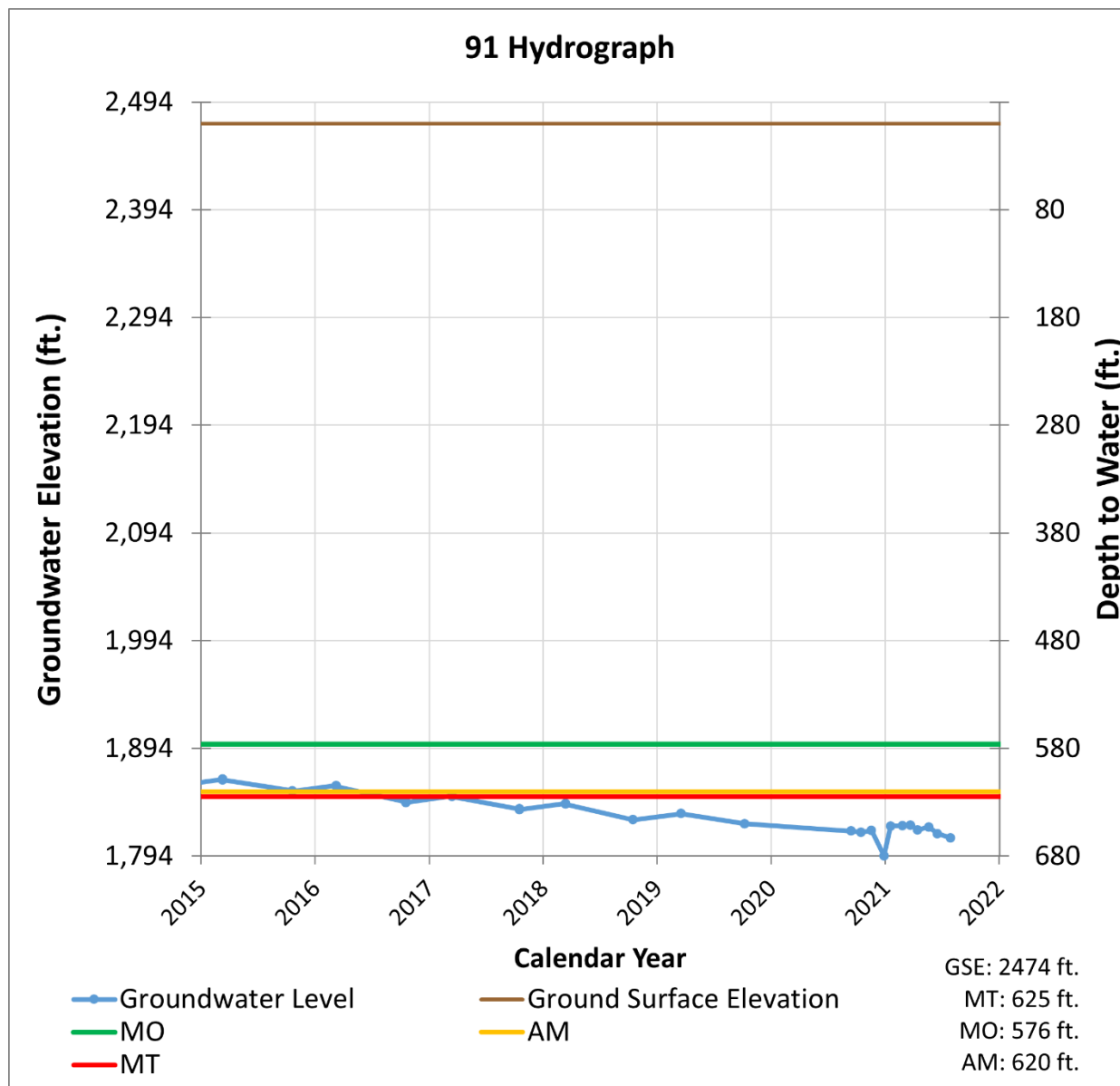


Figure 5: Central Region – Well 74

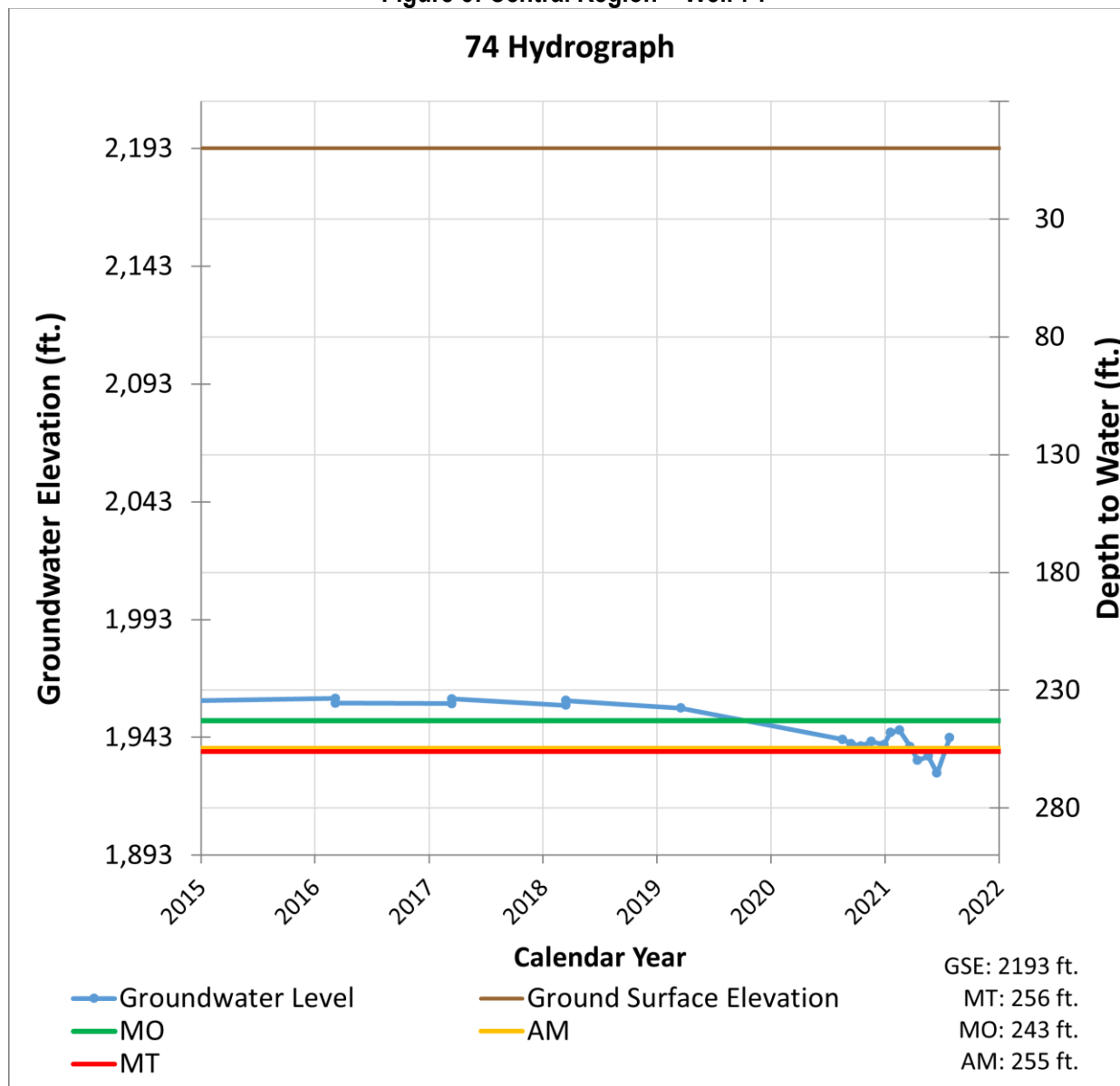


Figure 6: Western Region – Well 571

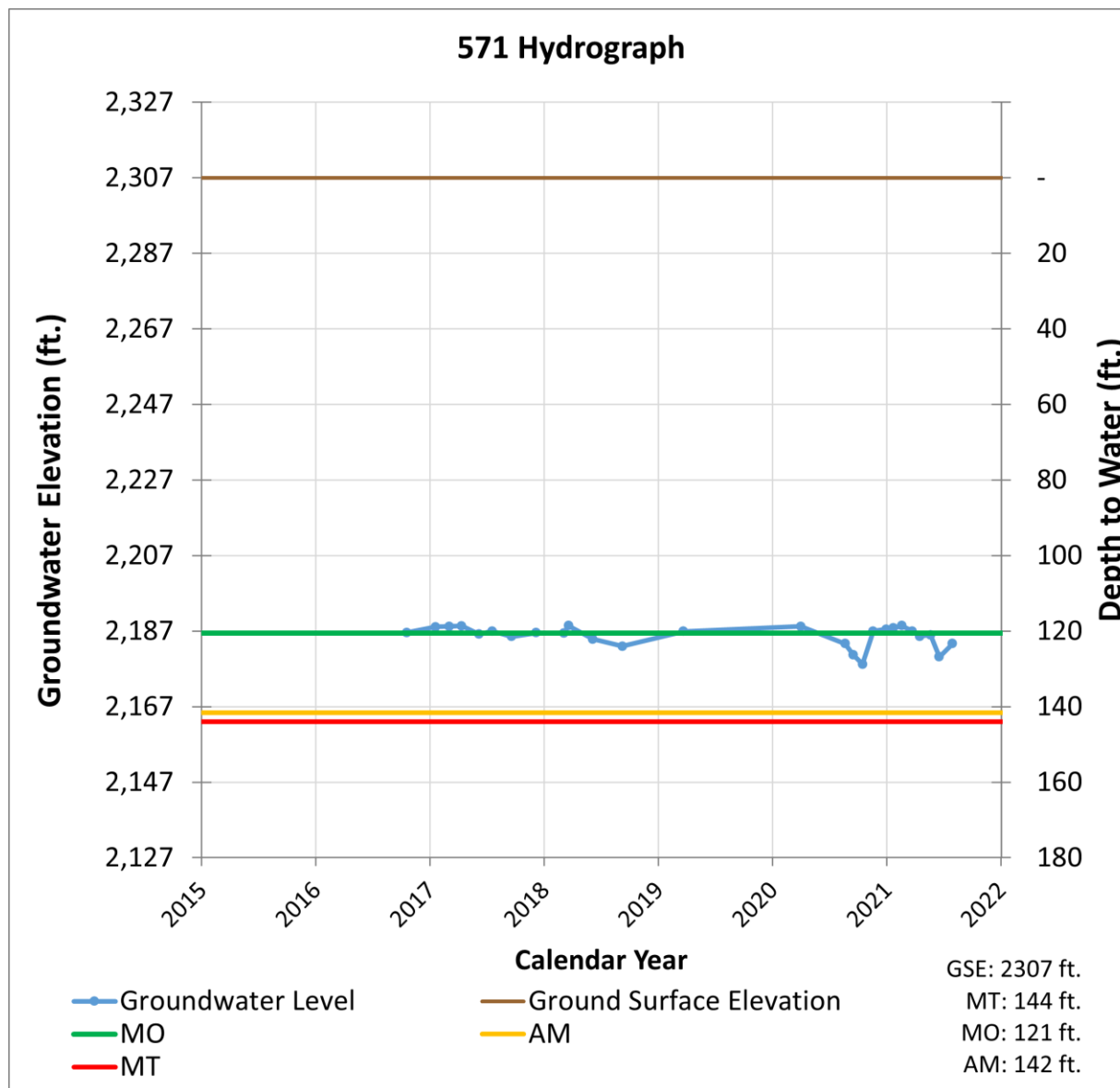
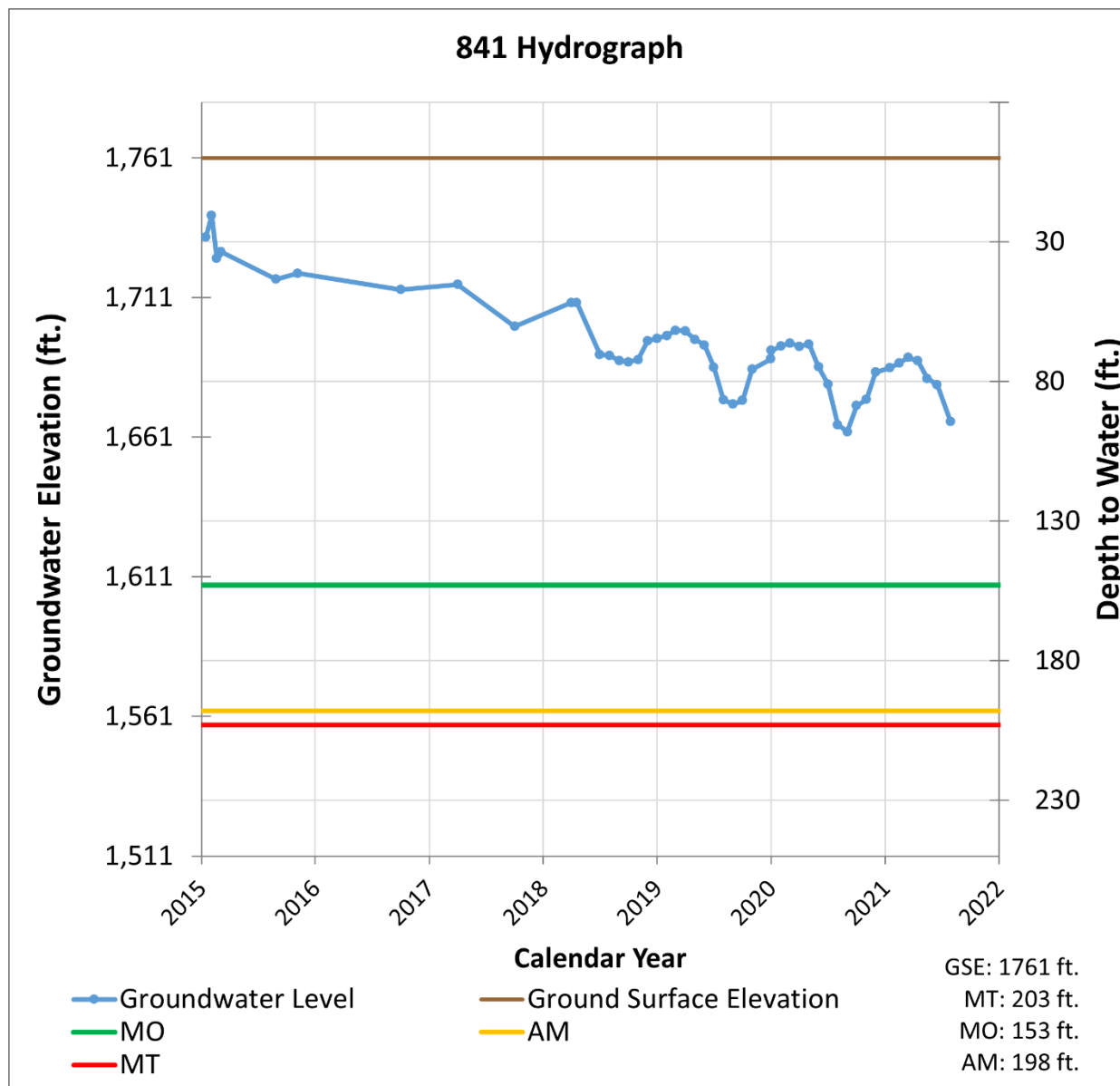


Figure 7: Northwestern Region – Well 841





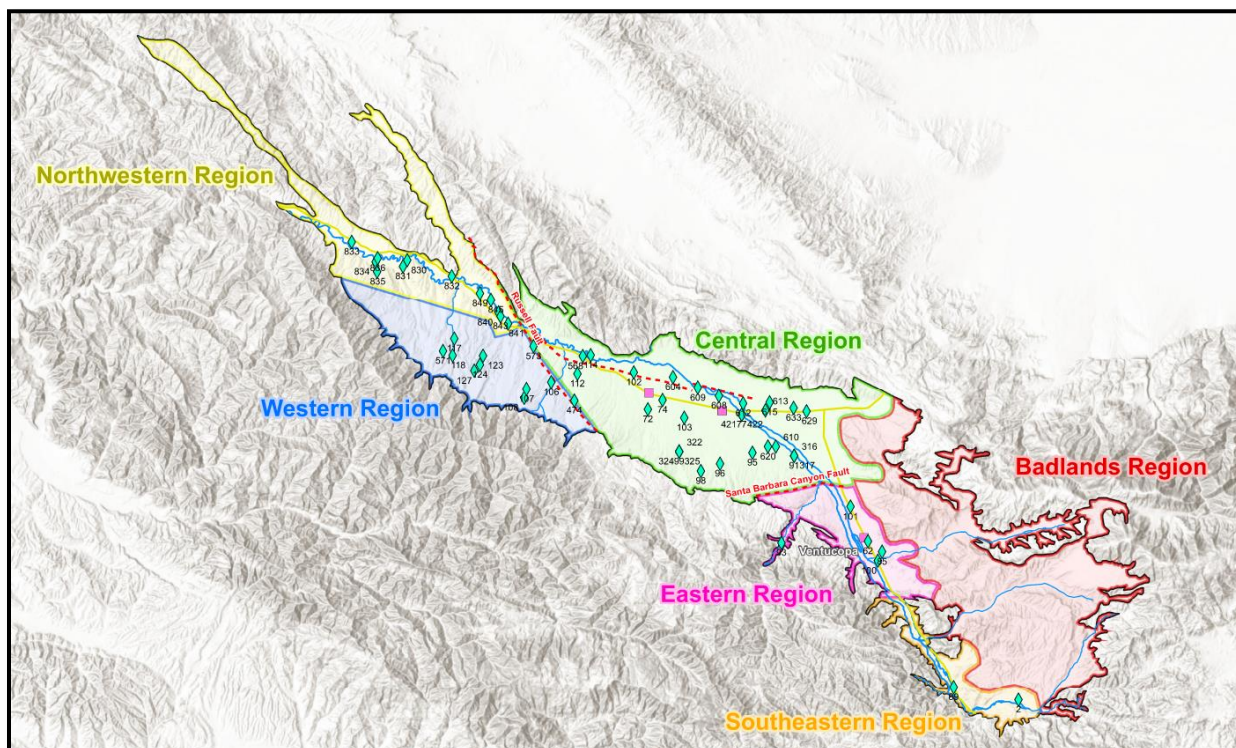


Figure 8: Threshold Regions in the Cuyama Groundwater Basin

## 5. MONITORING NETWORK UPDATES

As shown in the Summary Statistics Section, there are 9 wells without current measurements. These “no measurement codes” can have different causes as described below.

- Access agreements have not yet been established with the landowner, access has not been granted yet, or no access at time of measurement:
  - Wells 2, 98, 124
- Measurement was not possible at the time when the field technician went to take measurements:
  - Wells 604, 608, 609, 629, 633, 830



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