



# GROUNDWATER CONDITIONS REPORT – CUYAMA VALLEY GROUNDWATER BASIN

April 2021

801 T Street  
Sacramento, CA.  
916.999.8700

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

COMMITMENT & INTEGRITY DRIVE RESULTS

**Cuyama Basin  
Groundwater  
Sustainability Agency**

## TABLE OF CONTENTS

SECTION	PAGE NO.
1. INTRODUCTION.....	3
2. SUMMARY STATISTICS.....	3
3. CURRENT CONDITIONS .....	3
4. HYDROGRAPHS.....	10
5. MONITORING NETWORK UPDATES .....	17

## TABLES

Table 1: Recent Groundwater Levels for Representative Monitoring Network.....	4
Table 2: Well Status Related to Thresholds.....	7

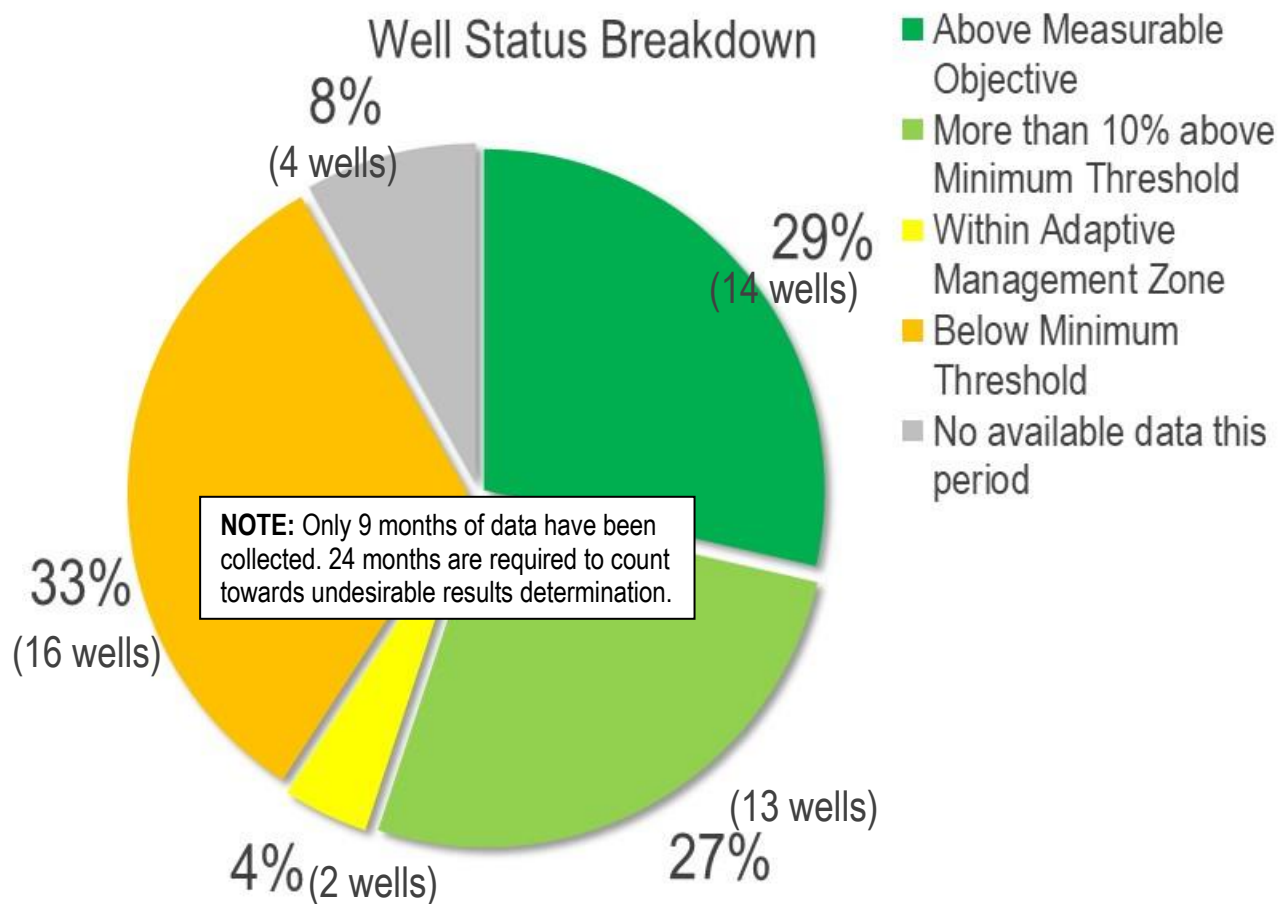
## FIGURES

Figure 1: Groundwater Level Representative Wells and Status.....	10
Figure 2: Southeast Region – Well 89 .....	11
Figure 3: Eastern Region – Well 62 .....	12
Figure 4: Central Region – Well 91 .....	13
Figure 5: Central Region – Well 74 .....	14
Figure 6: Western Region – Well 571 .....	15
Figure 7: Northwestern Region – Well 841 .....	16
Figure 8: Threshold Regions in the Cuyama Groundwater Basin .....	17

## 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



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 be 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	Feb-21	Mar-21	Apr-21	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	2025	1982	2022			
74	Central	1946	1939	1933			
77	Central	1823	1821	1813			
91	Central	1822	1823	1818			
95	Central	1842	1855	1855			
96	Central	2272	2272	2272			
98	Central	-	-	-			
99	Central	2213	2181	2224			
102	Central	1774	1774	1711			
103	Central	2003	2004	1992			
112	Central	2055	2054	2054			
114	Central	1879	1879	1878			
316	Central	1821	1822	1820			
317	Central	1822	1822	1820			
322	Central	2213	2182	2223			
324	Central	2213	2186	2221			
325	Central	2217	2206	2223			
420	Central	1821	1820	1803			
421	Central	1820	1818	1804			
474	Central	2204	2201	2202			

Well	Region	Feb-21	Mar-21	Apr-21	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
568	Central	1869	1869	1869			
604	Central	1659	1665	1663			
608	Central	1795	1791	1783			
609	Central	1805	1795	1784			
610	Central	1823	1820	1822			
612	Central	1801	1801	1806			
613	Central	1804	1804	1819			
615	Central	1820	1819	1818			
629	Central	1823	1821	1816			
633	Central	1806	1798	1794			
62	Eastern	2764	2766	2765			
85	Eastern	2846	2847	2847			
100	Eastern	2853	2854	2854			
101	Eastern	2636	2635	2634			
841	Northwestern	1688	1689	1688			
845	Northwestern	1651	1651	1650			
2	Southeastern	3690	-	-			
89	Southeastern	3431	3431	3431			
106	Western	2184	2183	2185			
107	Western	2395	2395	2395			
117	Western	-	-	-			

Well	Region	Feb-21	Mar-21	Apr-21	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
118	Western	2214	2213	2213			
124	Western	-	-	-			
571	Western	2188	2187	2185			
573	Western	2014	2013	2013			
830	Far-West Northwestern	-	1515	1513			
832	Far-West Northwestern	1591	1592	1592			
833	Far-West Northwestern	-	1430	1425			
836	Far-West Northwestern	1450	1449	1450			

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	149	4/15/2021	169	165	124	790	More than 10% above Minimum Threshold	No
74	Central	260	4/15/2021	256	255	243		Below Minimum Threshold (1 month)	No
77	Central	473	4/15/2021	450	445	400	980	Below Minimum Threshold (8 months)	No
91	Central	656	4/15/2021	625	620	576	980	Below Minimum Threshold (8 months)	No
95	Central	594	4/15/2021	573	570	538	805	Below Minimum Threshold (9 months)	No
96	Central	334	4/15/2021	333	332	325	500	Below Minimum Threshold (5 months)	No
98	Central	-	-	450	449	439	750	No available data this period	No
99	Central	289	4/15/2021	311	310	300	750	Above Measurable Objective	No
102	Central	335	4/15/2021	235	231	197		Below Minimum Threshold (4 months)	No
103	Central	297	4/15/2021	290	285	235	1030	Below Minimum Threshold (1 month)	No
112	Central	85	4/15/2021	87	87	85	441	Above Measurable Objective	No
114	Central	47	4/15/2021	47	47	45	58	Within Adaptive Management Zone	No
316	Central	654	4/15/2021	623	618	574	830	Below Minimum Threshold (8 months)	No
317	Central	654	4/15/2021	623	618	573	700	Below Minimum Threshold (8 months)	No
322	Central	290	4/15/2021	307	306	298	850	Above Measurable Objective	No
324	Central	292	4/15/2021	311	310	299	560	Above Measurable Objective	No
325	Central	290	4/16/2021	300	299	292	380	Above Measurable Objective	No
420	Central	483	4/15/2021	450	445	400	780	Below Minimum Threshold (8 months)	No
421	Central	482	4/15/2021	446	441	398	620	Below Minimum Threshold (8 months)	No
474	Central	167	4/15/2021	188	186	169	213	Above Measurable Objective	No



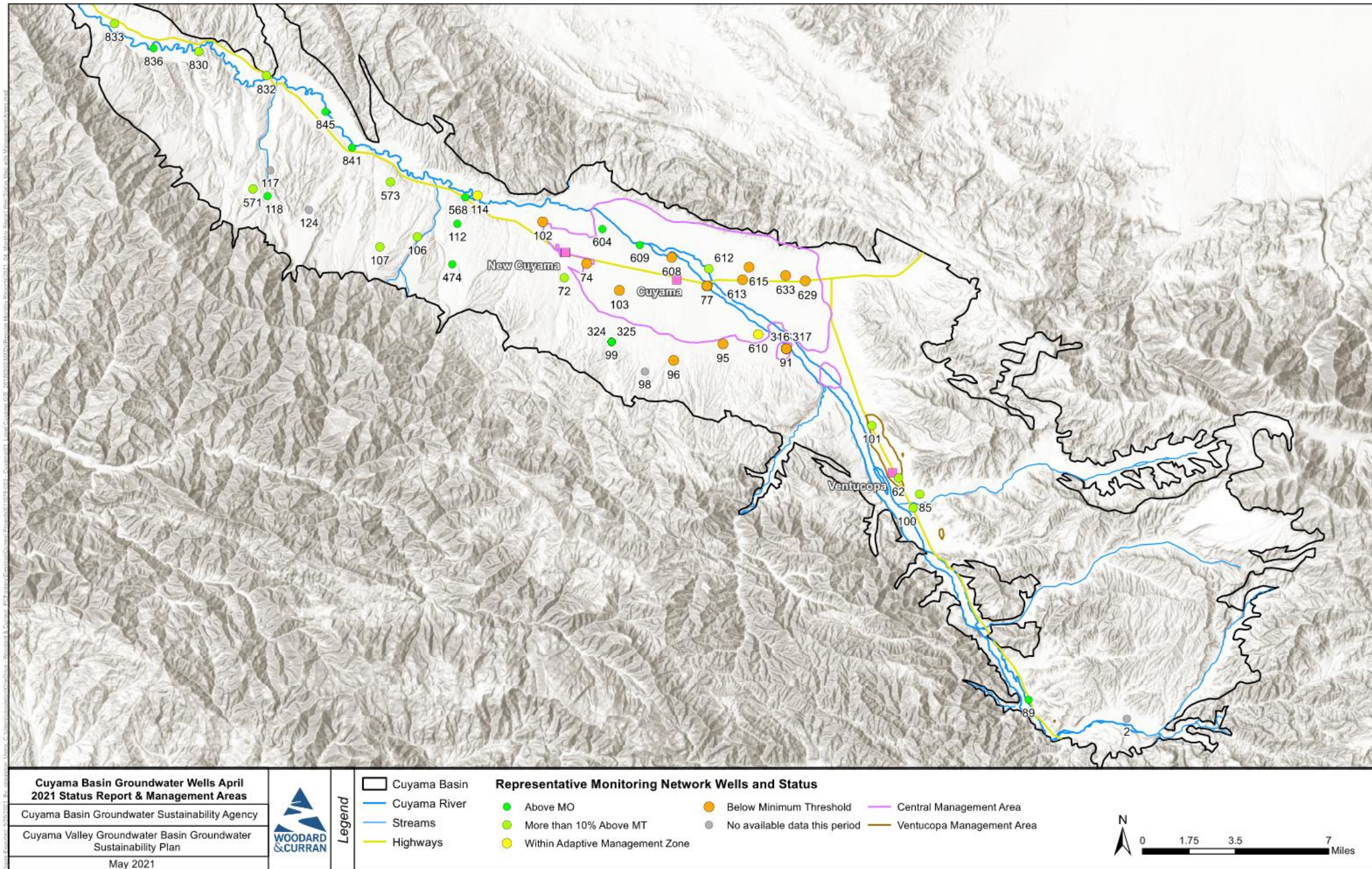
Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Month/Year						
568	Central	36	4/15/2021	37	37	36	188	Above Measurable Objective	No
604	Central	462	4/16/2021	526	522	487	924	Above Measurable Objective	No
608	Central	441	4/16/2021	436	433	407	745	Below Minimum Threshold (1 month)	No
609	Central	383	4/16/2021	458	454	421	970	Above Measurable Objective	No
610	Central	620	4/16/2021	621	618	591	780	Within Adaptive Management Zone	No
612	Central	460	4/16/2021	463	461	440	1070	More than 10% above Minimum Threshold	No
613	Central	511	4/16/2021	503	500	475	830	Below Minimum Threshold (6 months)	No
615	Central	509	4/16/2021	500	497	468	865	Below Minimum Threshold (5 months)	No
629	Central	563	4/16/2021	559	556	527	1000	Below Minimum Threshold (1 month)	No
633	Central	570	4/16/2021	547	542	493	1000	Below Minimum Threshold (9 months)	No
62	Eastern	156	4/15/2021	182	178	142	212	More than 10% above Minimum Threshold	No
85	Eastern	200	4/16/2021	233	225	147	233	More than 10% above Minimum Threshold	No
100	Eastern	150	4/16/2021	181	175	125	284	More than 10% above Minimum Threshold	No
101	Eastern	107	4/16/2021	111	108	81	200	More than 10% above Minimum Threshold	No
841	Northwestern	73	N/A	203	198	153	600	Above Measurable Objective	No
845	Northwestern	62	N/A	203	198	153	380	Above Measurable Objective	No
2	Southeastern	-	N/A	72	70	55	73	No available data this period	No
89	Southeastern	30	4/16/2021	64	62	44	125	Above Measurable Objective	No
106	Western	142	4/15/2021	154	153	141	228	More than 10% above Minimum Threshold	No
107	Western	87	4/15/2021	91	89	72	200	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)	Month/Year						
117	Western	-	N/A	160	159	151	212	No available data this period	No
118	Western	57	4/15/2021	124	117	57	500	Above Measurable Objective	No
124	Western	-	N/A	73	71	57	161	No available data this period	No
571	Western	122	4/15/2021	144	142	121	280	More than 10% above Minimum Threshold	No
573	Western	71	4/15/2021	118	113	68	404	More than 10% above Minimum Threshold	No
830	Far-West Northwestern	58	4/15/2021	59	59	56	77	More than 10% above Minimum Threshold	No
832	Far-West Northwestern	38	4/15/2021	45	44	30	132	More than 10% above Minimum Threshold	No
833	Far-West Northwestern	32	4/15/2021	96	89	24	504	More than 10% above Minimum Threshold	No
836	Far-West Northwestern	36	4/15/2021	79	75	36	325	Above Measurable Objective	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

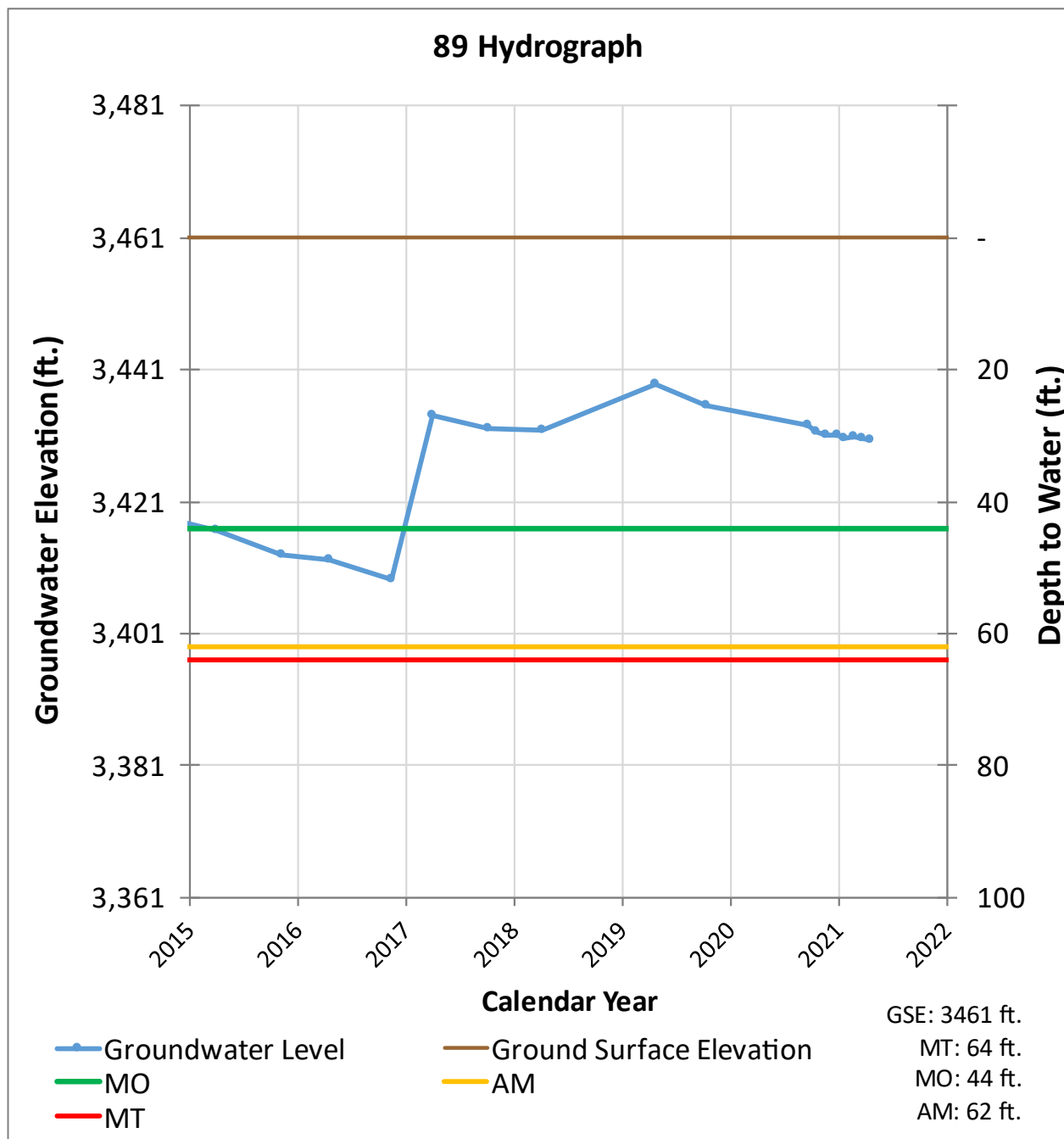


Figure 3: Eastern Region – Well 62

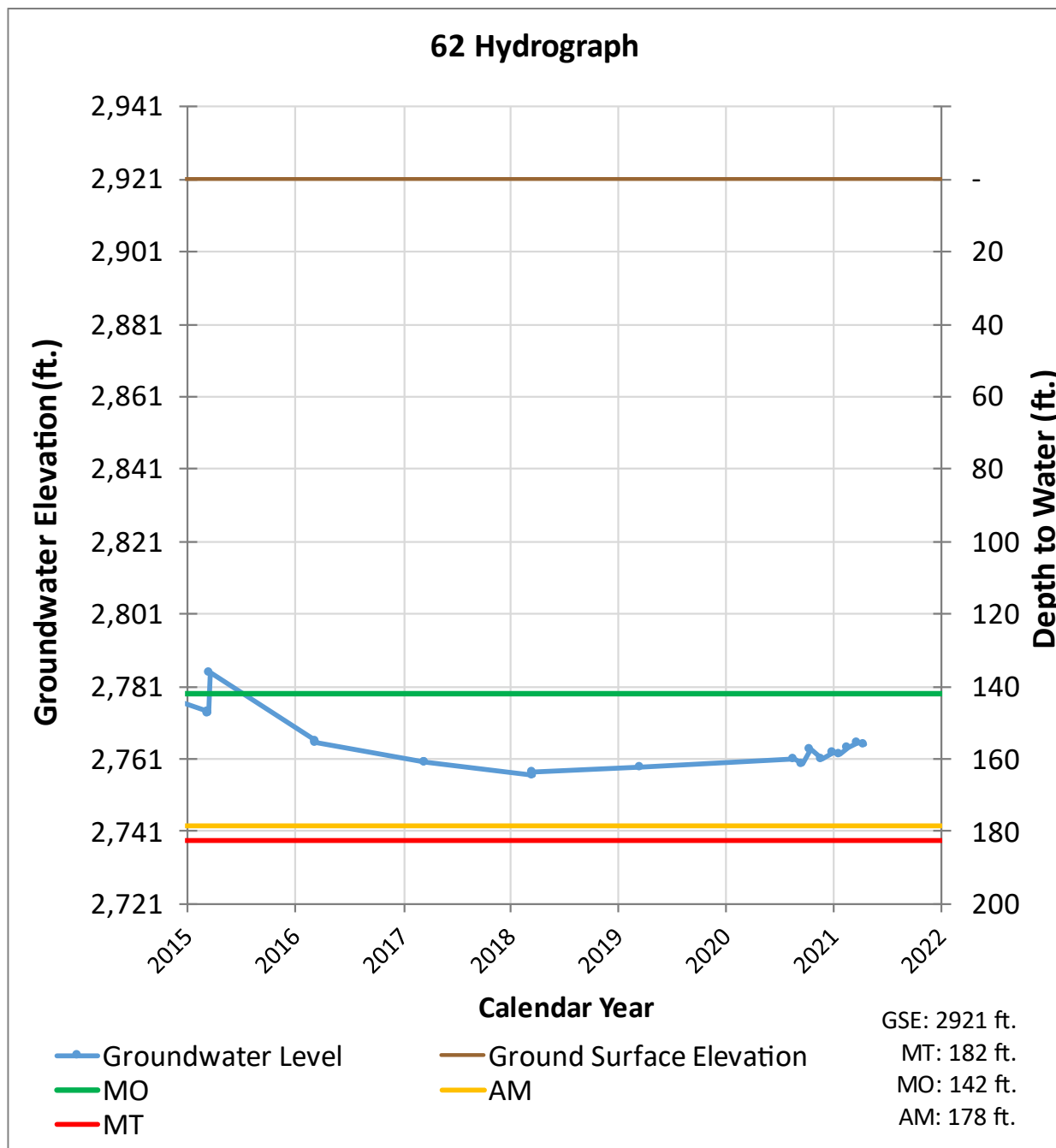


Figure 4: Central Region – Well 91

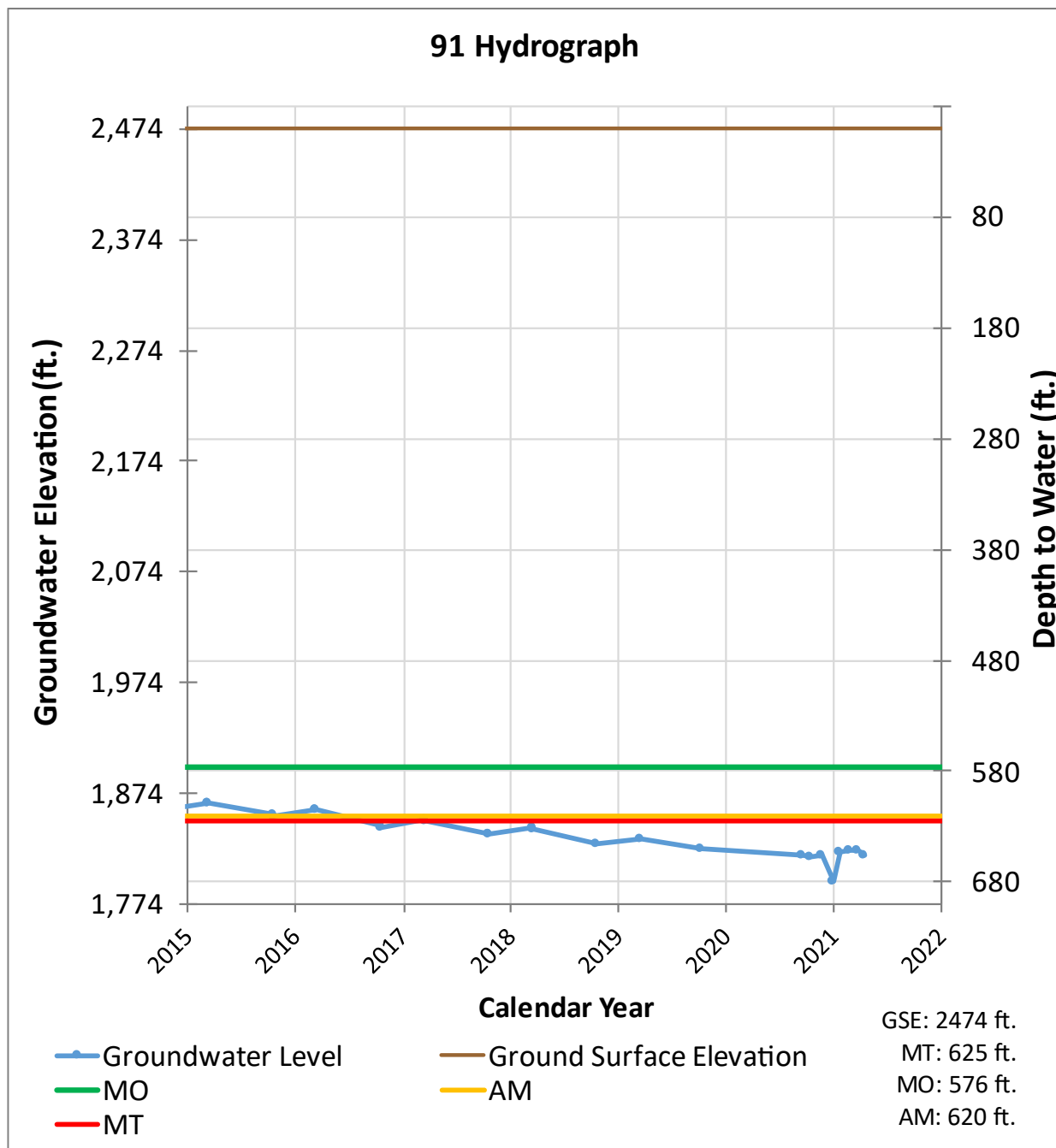


Figure 5: Central Region – Well 74

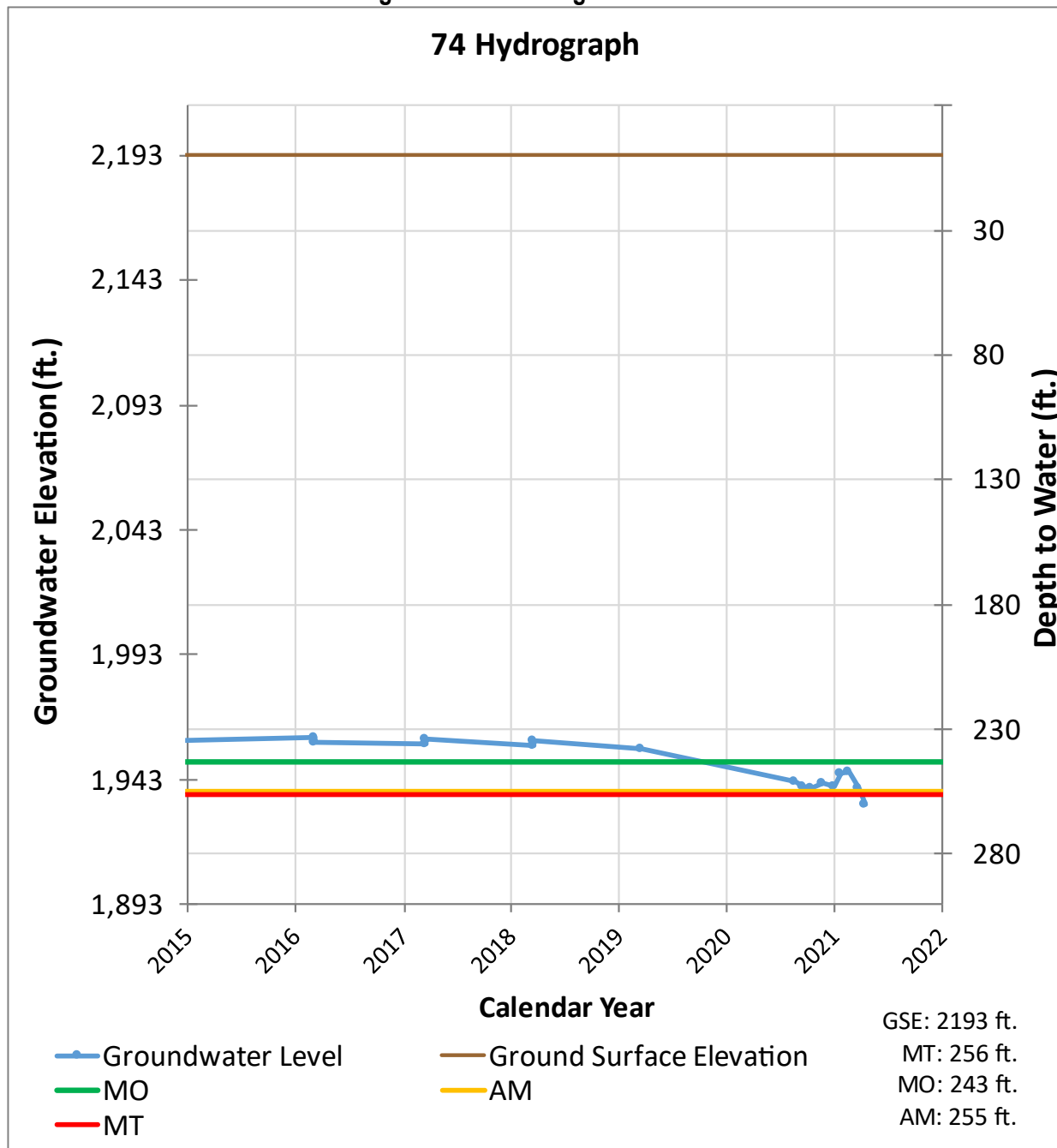


Figure 6: Western Region – Well 571

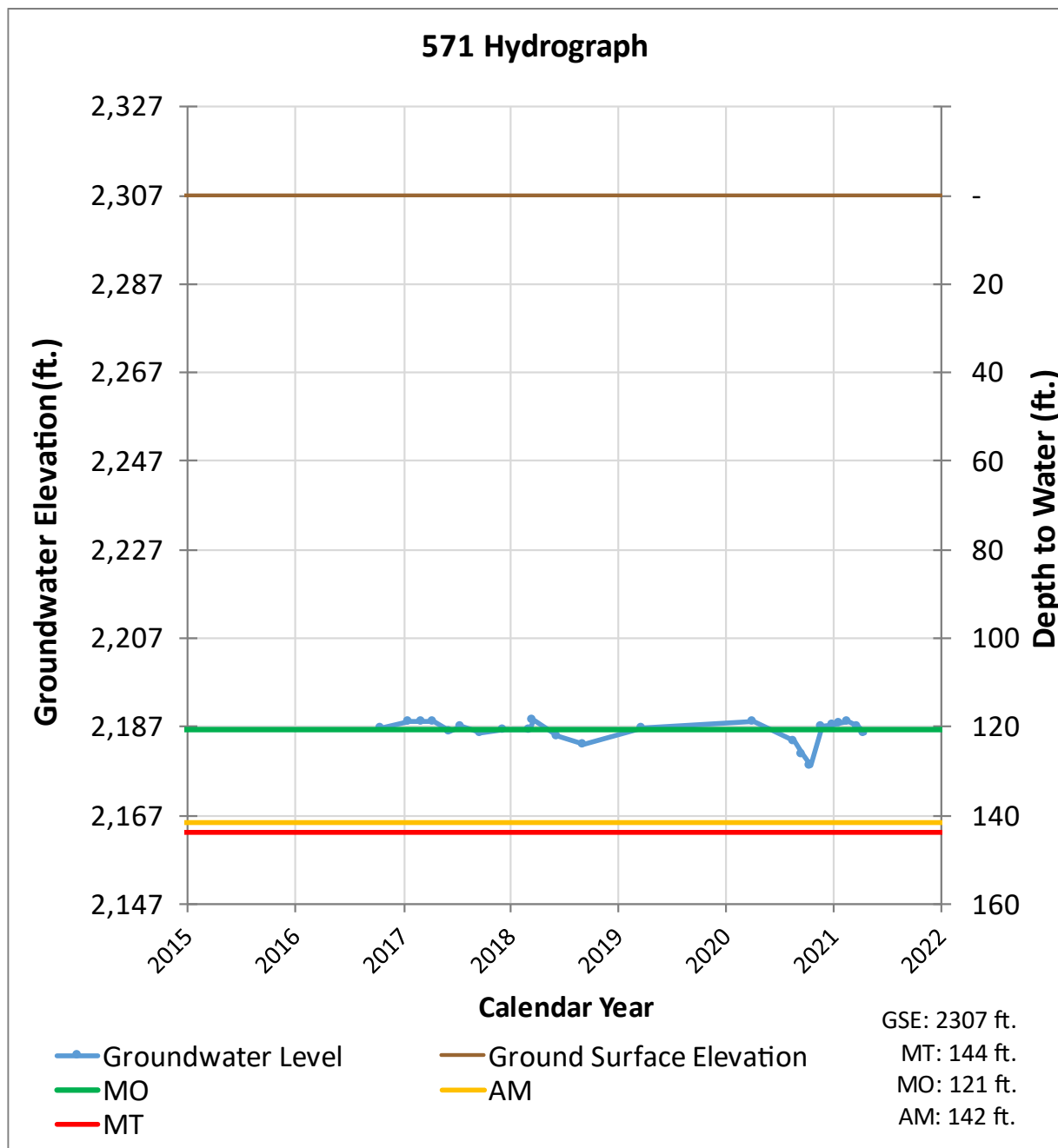
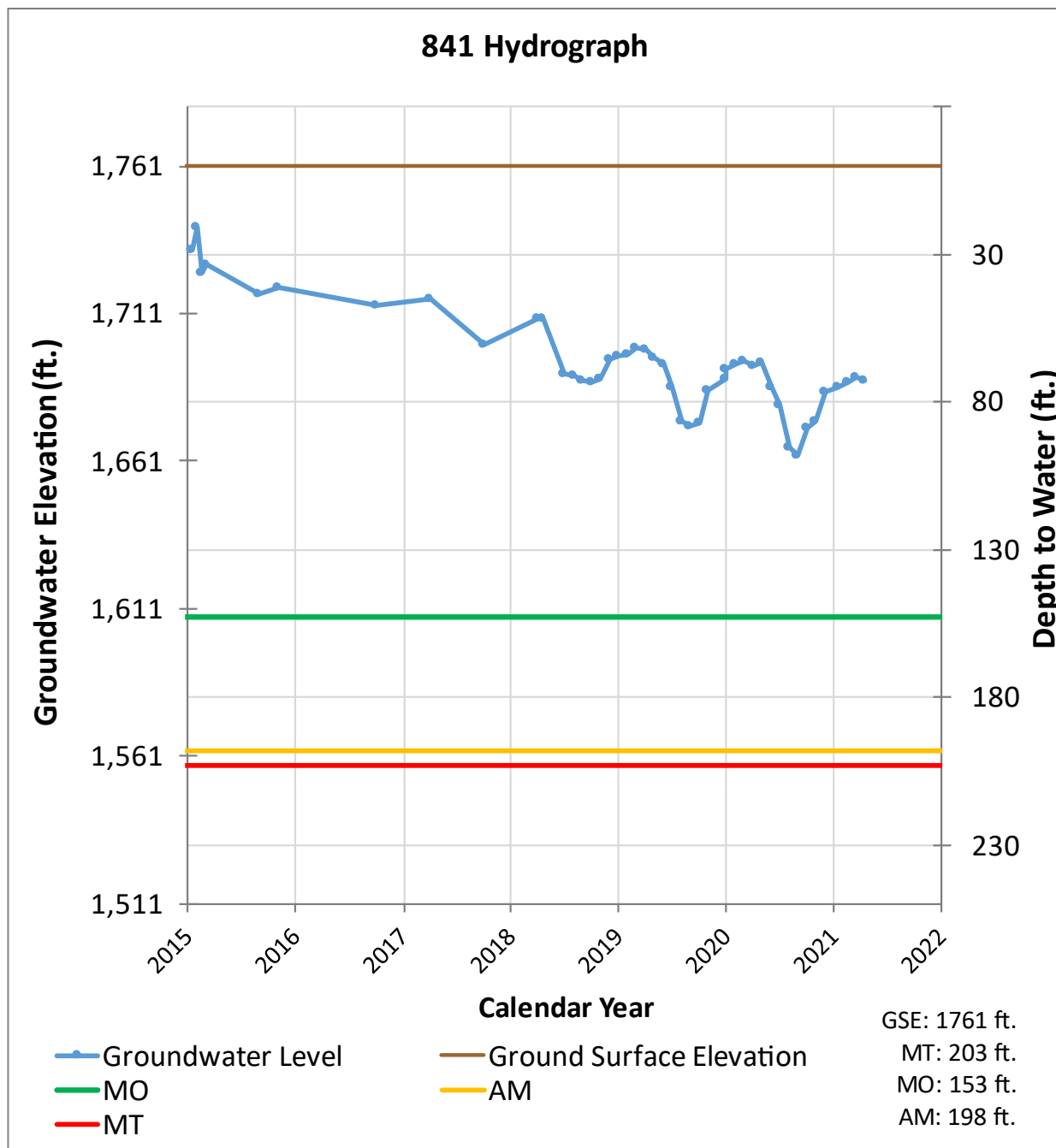


Figure 7: Northwestern Region – Well 841





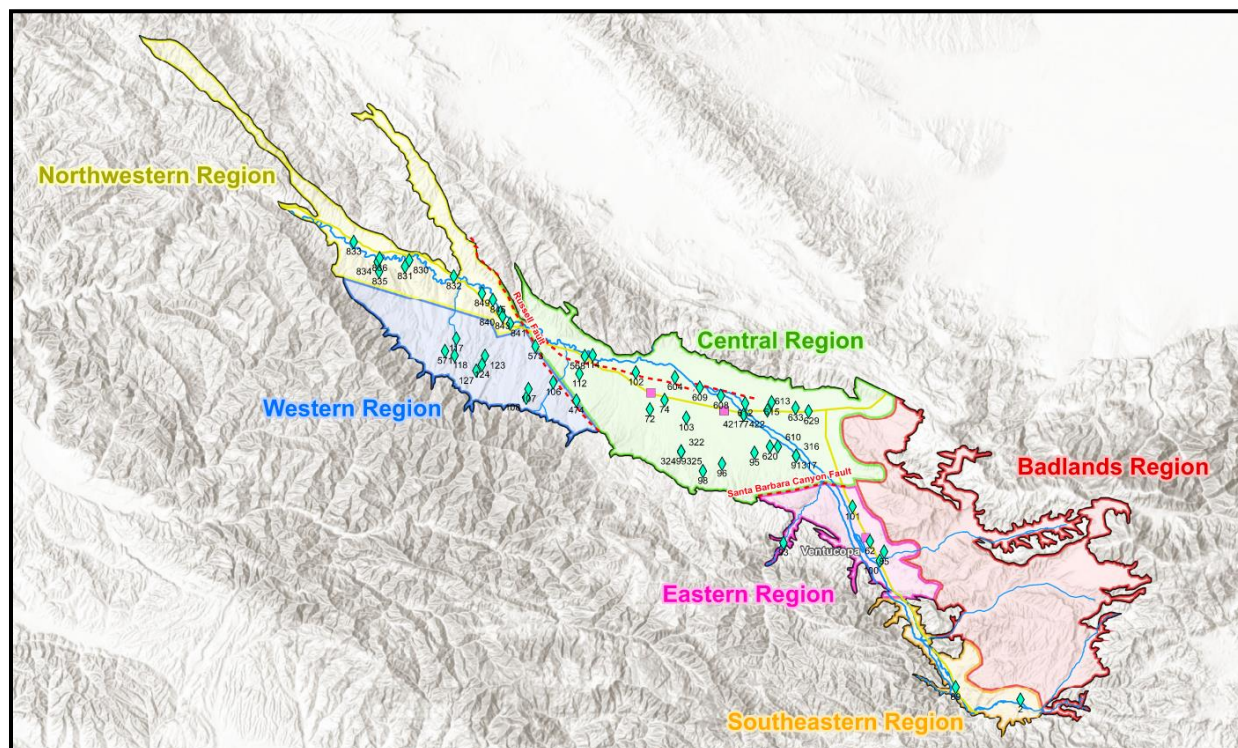


Figure 8: Threshold Regions in the Cuyama Groundwater Basin

## 5. MONITORING NETWORK UPDATES

As shown in the Summary Statistics Section, there are 4 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, 117, 124



[woodardcurran.com](http://woodardcurran.com)  
COMMITMENT & INTEGRITY DRIVE RESULTS