



GROUNDWATER CONDITIONS REPORT – CUYAMA VALLEY GROUNDWATER BASIN

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COMMITMENT & INTEGRITY DRIVE RESULTS

Cuyama Valley
Groundwater
Sustainability Agency

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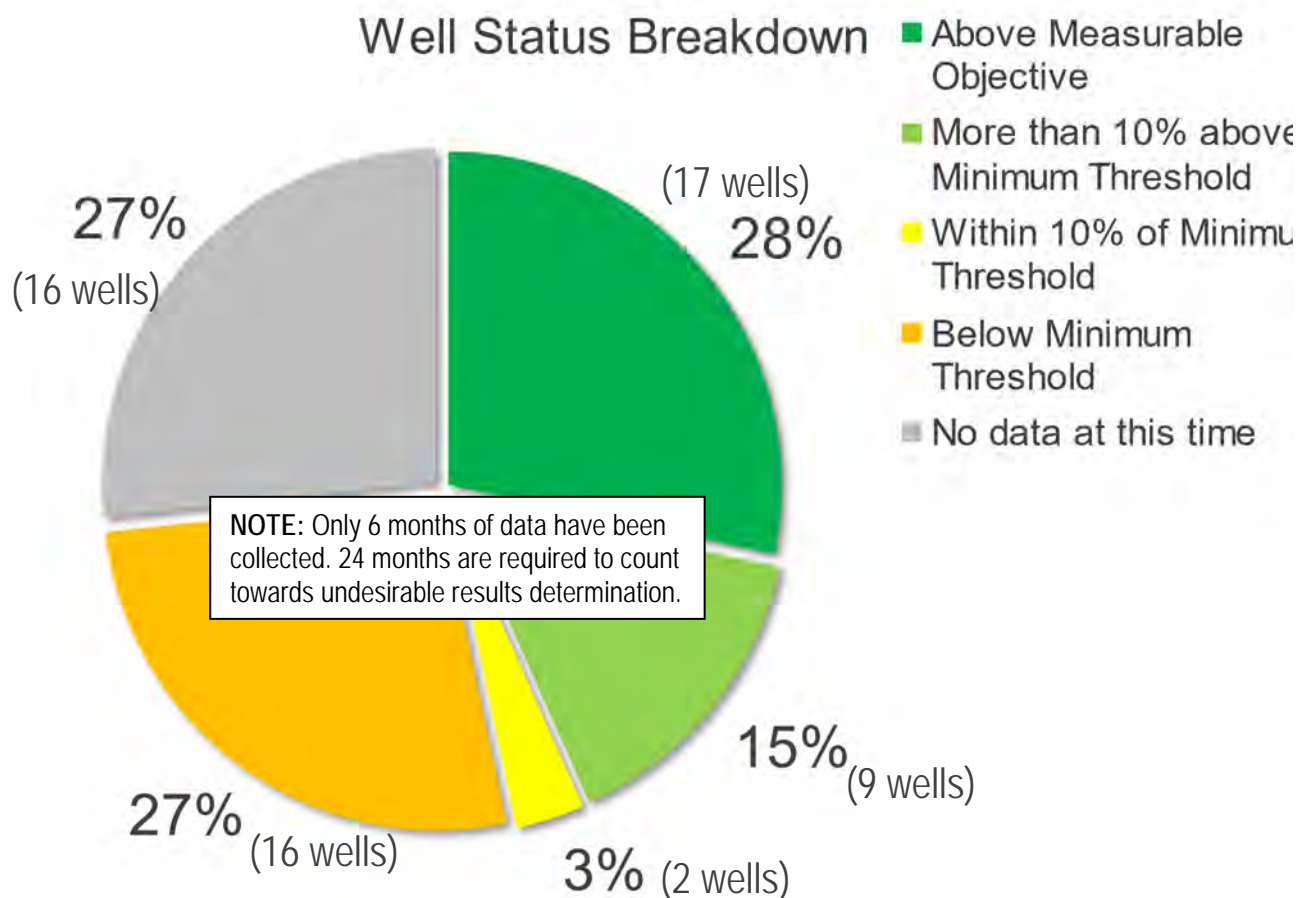
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1. INTRODUCTION

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 Groundwater Sustainability Agency, 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. The change in elevation is from approximately one year previous to the most current measurement. Table 2 includes all of the wells and their current status in relation to the thresholds applied to each well, while Figure 1 shows the all wells and their statuses.

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	Nov-20	Dec-20	Jan-20	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	-	-	-			
74	Central	1939	1940	1945			
77	Central	1793	1819	1822			
91	Central	1816	1794	1822			
95	Central	1852	1854	1854			
96	Central	2271	2272	2272			
98	Central	-	-	-			
99	Central	2161	2219	2222			
102	Central	-	-	1776			
103	Central	1960	1988	1994			
112	Central	2055	-	-			
114	Central	1754	-	-			
316	Central	1811	1818	1820			
317	Central	1811	1819	1820			
322	Central	2158	2221	2222			
324	Central	2174	2219	2220			
325	Central	2197	2221	2222			
420	Central	1792	1818	1821			
421	Central	1796	1816	1819			
422	Central	1830	-	-			

Well	Region	Nov-20	Dec-20	Jan-20	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
474	Central	2197	-	-			
568	Central	1867	1868	1869			
604	Central	1641	1646	1654			
608	Central	1809	1788	1790			
609	Central	1791	1802	1807			
610	Central	1813	1820	1818			
612	Central	1808	1800	1801			
613	Central	-	1816	1804			
615	Central	1818	1822	1821			
620	Central	1836	1814	1814			
629	Central	1882	1823	1822			
633	Central	-	1803	1801			
62	Eastern	2764	2763	2763			
85	Eastern	2844	2845	2845			
100	Eastern	2852	2852	2853			
101	Eastern	-	2633	2634			
840	Northwestern	-	-	-			
841	Northwestern	1761	1684	1686			
843	Northwestern	-	-	-			
845	Northwestern	1712	1649	1650			
849	Northwestern	-	-	-			

Well	Region	Nov-20	Dec-20	Jan-20	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
2	Southeastern	3695	3689	3690			
89	Southeastern	3432	3432	3431			
106	Western	2184	2184	2184			
107	Western	2399	2399	2399			
108	Western	2498	-	-			
117	Western	-	-	-			
118	Western	2215	2214	2214			
123	Western	-	-	-			
124	Western	-	-	-			
127	Western	-	-	-			
571	Western	2178	2187	2188			
573	Western	2014	-	-			
830	Far-West Northwestern	-	1515	1515			
831	Far-West Northwestern	-	1505	1494			
832	Far-West Northwestern	1593	1592	1593			
833	Far-West Northwestern	1405	-	-			

Well	Region	Nov-20	Dec-20	Jan-20	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
834	Far-West Northwestern	-	1467	1467			
835	Far-West Northwestern	-	1518	1519			
836	Far-West Northwestern	-	1448	1450			

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	-	-	169	165	124	790	No available data this period	No
74	Central	248	1/18/2021	256	255	243	n/a	More than 10% above Minimum Threshold	No
77	Central	464	1/19/2021	450	445	400	980	Below Minimum Threshold (5 months)	No
91	Central	652	1/18/2021	625	620	576	980	Below Minimum Threshold (5 months)	No
95	Central	595	1/18/2021	573	570	538	805	Below Minimum Threshold (6 months)	No
96	Central	334	1/18/2021	333	332	325	500	Below Minimum Threshold (2 months)	No
98	Central	-	-	450	449	439	750	No available data this period	No
99	Central	291	1/19/2021	311	310	300	750	Above Measurable Objective	No
102	Central	270	1/18/2021	235	231	197	n/a	Below Minimum Threshold (1 month)	No
103	Central	295	1/18/2021	290	285	235	1030	Below Minimum Threshold (6 months)	No
112	Central	-	-	87	87	85	441	No available data this period	No
114	Central	-	-	47	47	45	58	No available data this period	No
316	Central	654	1/19/2021	623	618	574	830	Below Minimum Threshold (5 months)	No
317	Central	654	1/19/2021	623	618	573	700	Below Minimum Threshold (5 months)	No
322	Central	291	1/19/2021	307	306	298	850	Above Measurable Objective	No
324	Central	293	1/19/2021	311	310	299	560	Above Measurable Objective	No
325	Central	291	1/19/2021	300	299	292	380	Above Measurable Objective	No
420	Central	465	1/19/2021	450	445	400	780	Below Minimum Threshold (5 months)	No
421	Central	467	1/19/2021	446	441	398	620	Below Minimum Threshold (5 months)	No
422	Central	-	1/19/2021	444	439	397	460	No available data this period	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	-	-	188	186	169	213	No available data this period	No
568	Central	36	1/18/2021	37	37	36	188	Above Measurable Objective	No
604	Central	471	1/18/2021	526	522	487	924	Above Measurable Objective	No
608	Central	434	1/18/2021	436	433	407	745	Within Adaptive Management Zone	No
609	Central	360	1/18/2021	458	454	421	970	Above Measurable Objective	No
610	Central	624	1/18/2021	621	618	591	780	Below Minimum Threshold (6 months)	No
612	Central	465	1/18/2021	463	461	440	1070	Below Minimum Threshold (2 months)	No
613	Central	526	1/18/2021	503	500	475	830	Below Minimum Threshold (3 months)	No
615	Central	506	1/18/2021	500	497	468	865	Below Minimum Threshold (2 months)	No
620	Central	618	1/21/2021	606	602	566	1035	Below Minimum Threshold (3 months)	No
629	Central	557	1/18/2021	559	556	527	1000	Within Adaptive Management Zone	No
633	Central	563	1/18/2021	547	542	493	1000	Below Minimum Threshold (6 months)	No
62	Eastern	158	1/18/2021	182	178	142	212	More than 10% above Minimum Threshold	No
85	Eastern	202	1/18/2021	233	225	147	233	More than 10% above Minimum Threshold	No
100	Eastern	151	1/18/2021	181	175	125	284	More than 10% above Minimum Threshold	No
101	Eastern	107	1/18/2021	111	108	81	200	More than 10% above Minimum Threshold	No
840	Northwestern	-	-	203	198	153	900	No available data this period	No
841	Northwestern	75	1/15/2021	203	198	153	600	Above Measurable Objective	No
843	Northwestern	-	-	203	198	153	620	No available data this period	No
845	Northwestern	62	1/15/2021	203	198	153	380	Above Measurable Objective	No



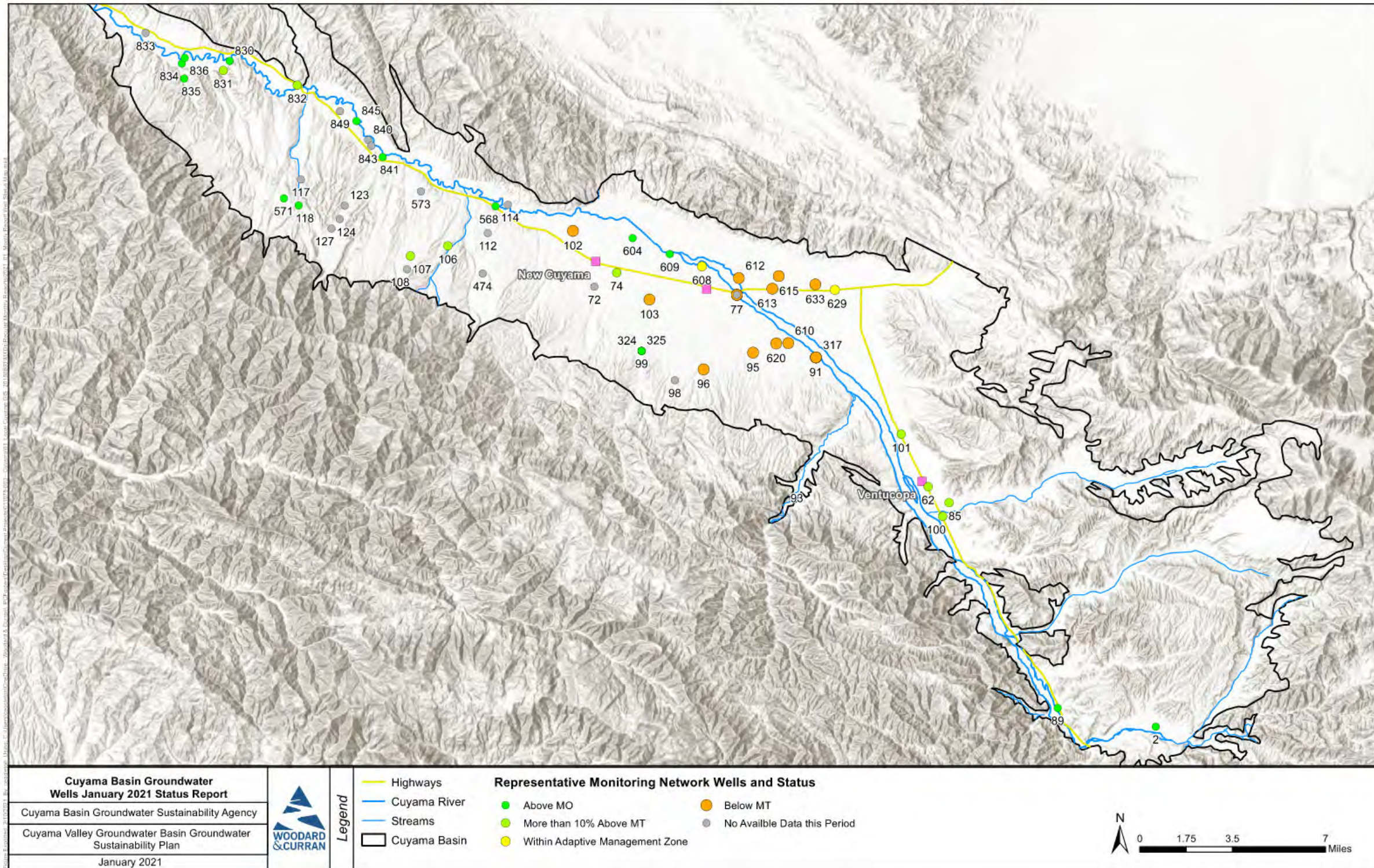
Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Month/Year						
849	Northwestern	-	-	203	198	153	570	No available data this period	No
2	Southeastern	30	1/18/2021	72	70	55	73	Above Measurable Objective	No
89	Southeastern	30	1/18/2021	64	62	44	125	Above Measurable Objective	No
106	Western	143	1/19/2021	154	153	141	228	More than 10% above Minimum Threshold	No
107	Western	83	1/19/2021	91	89	72	200	More than 10% above Minimum Threshold	No
108	Western	-	-	165	162	136	329	No available data this period	No
117	Western	-	-	160	159	151	212	No available data this period	No
118	Western	56	1/21/2021	124	117	57	500	Above Measurable Objective	No
123	Western	-	-	31	29	13	138	No available data this period	No
124	Western	-	-	73	71	57	161	No available data this period	No
127	Western	-	-	42	41	32	100	No available data this period	No
571	Western	119	1/21/2021	144	142	121	280	Above Measurable Objective	No
573	Western	-	-	118	113	68	404	No available data this period	No
830	Far-West Northwestern	56	1/19/2021	59	59	56	77	Above Measurable Objective	No
831	Far-West Northwestern	63	1/19/2021	77	75	52	214	More than 10% above Minimum Threshold	No
832	Far-West Northwestern	37	1/19/2021	45	44	30	132	More than 10% above Minimum Threshold	No
833	Far-West Northwestern	-	-	96	89	24	504	No available data this period	No



Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Month/Year						
834	Far-West Northwestern	41	1/21/2021	84	80	42	320	Above Measurable Objective	No
835	Far-West Northwestern	36	1/21/2021	55	53	36	162	Above Measurable Objective	No
836	Far-West Northwestern	36	1/21/2021	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 provided an overview of conditions in each of the six areas threshold regions identified in the GSP.

Figure 2: Southeast Region – Well 89

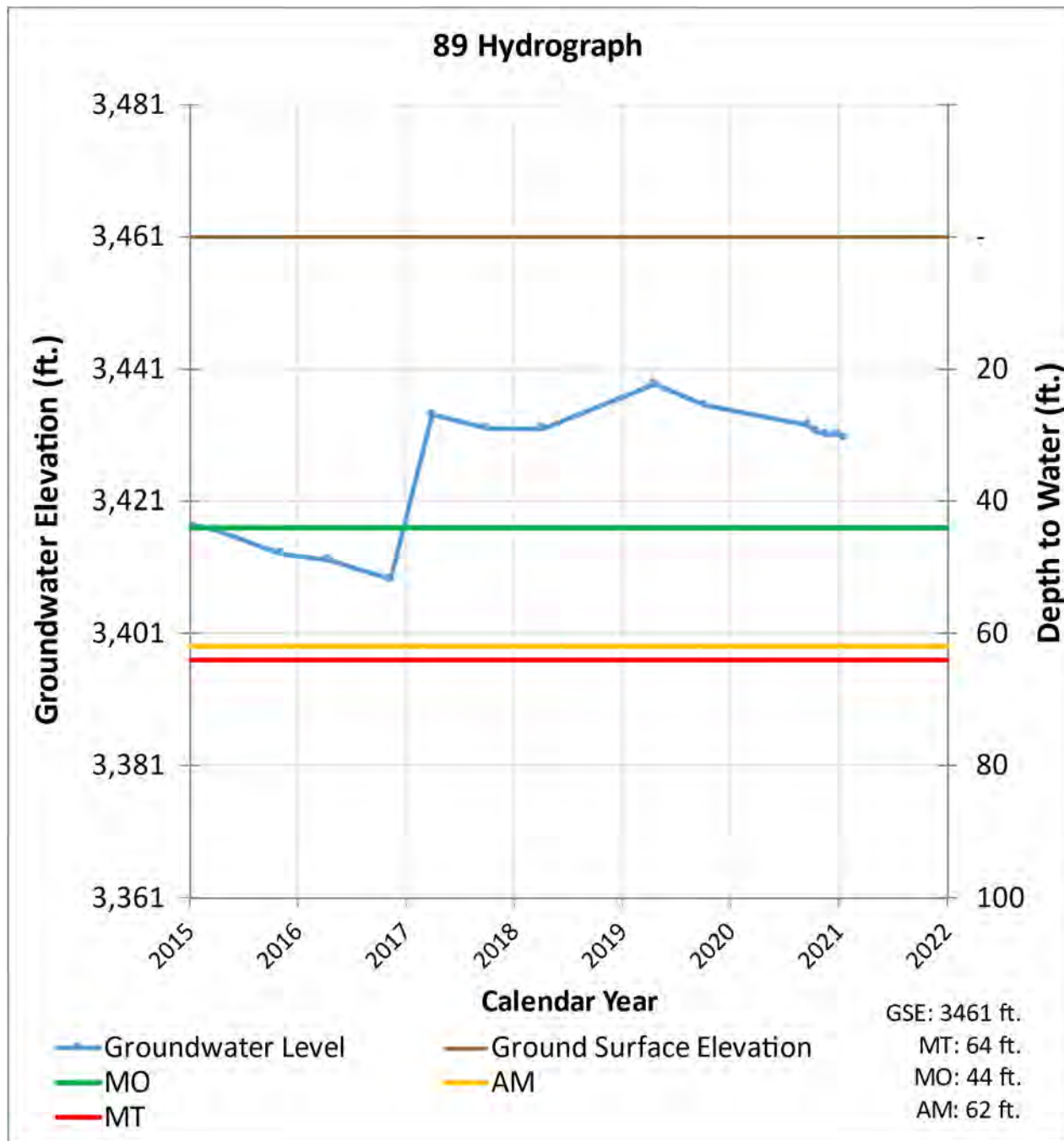


Figure 3: Eastern Region – Well 62

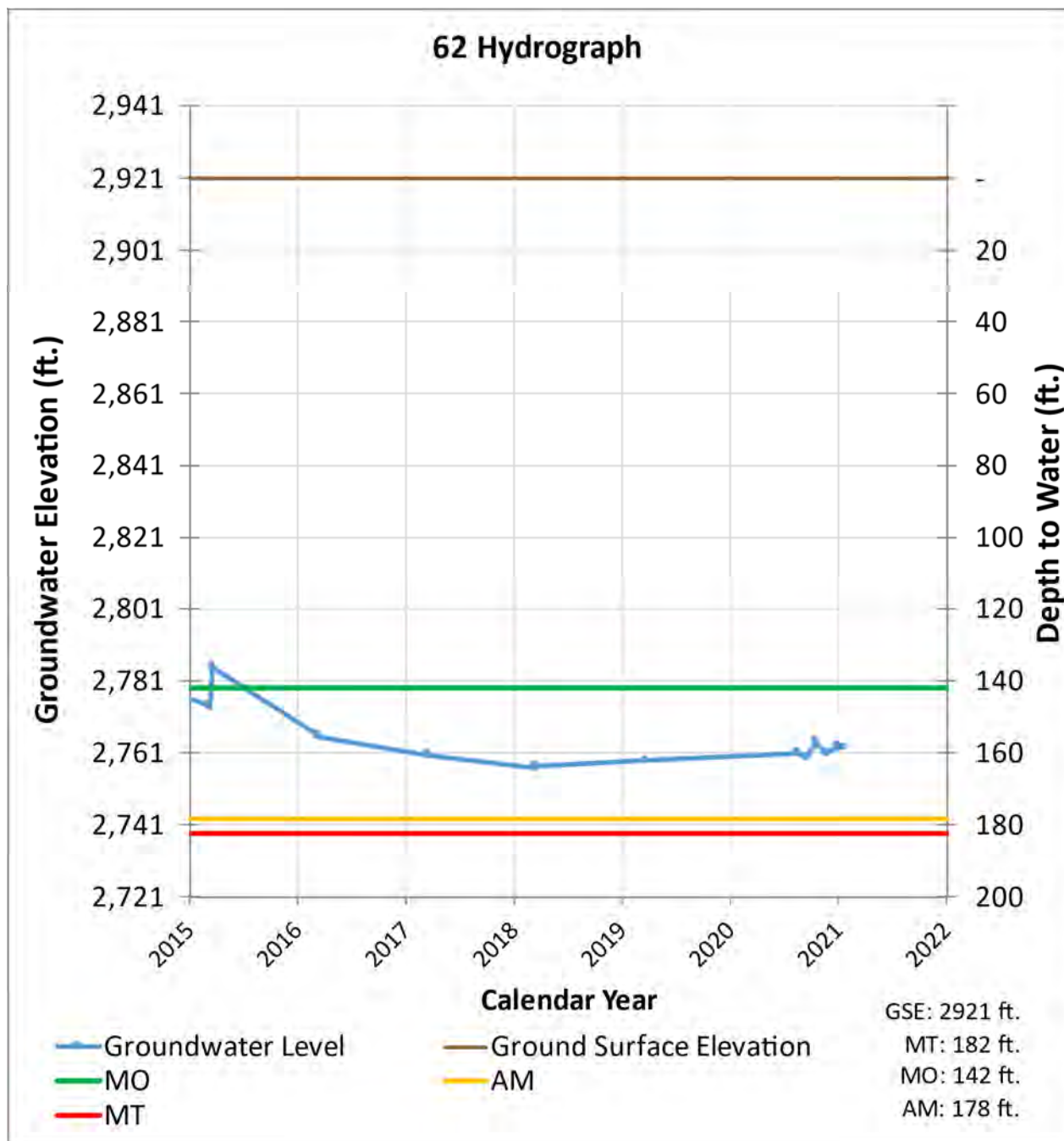


Figure 4: Central Region – Well 91

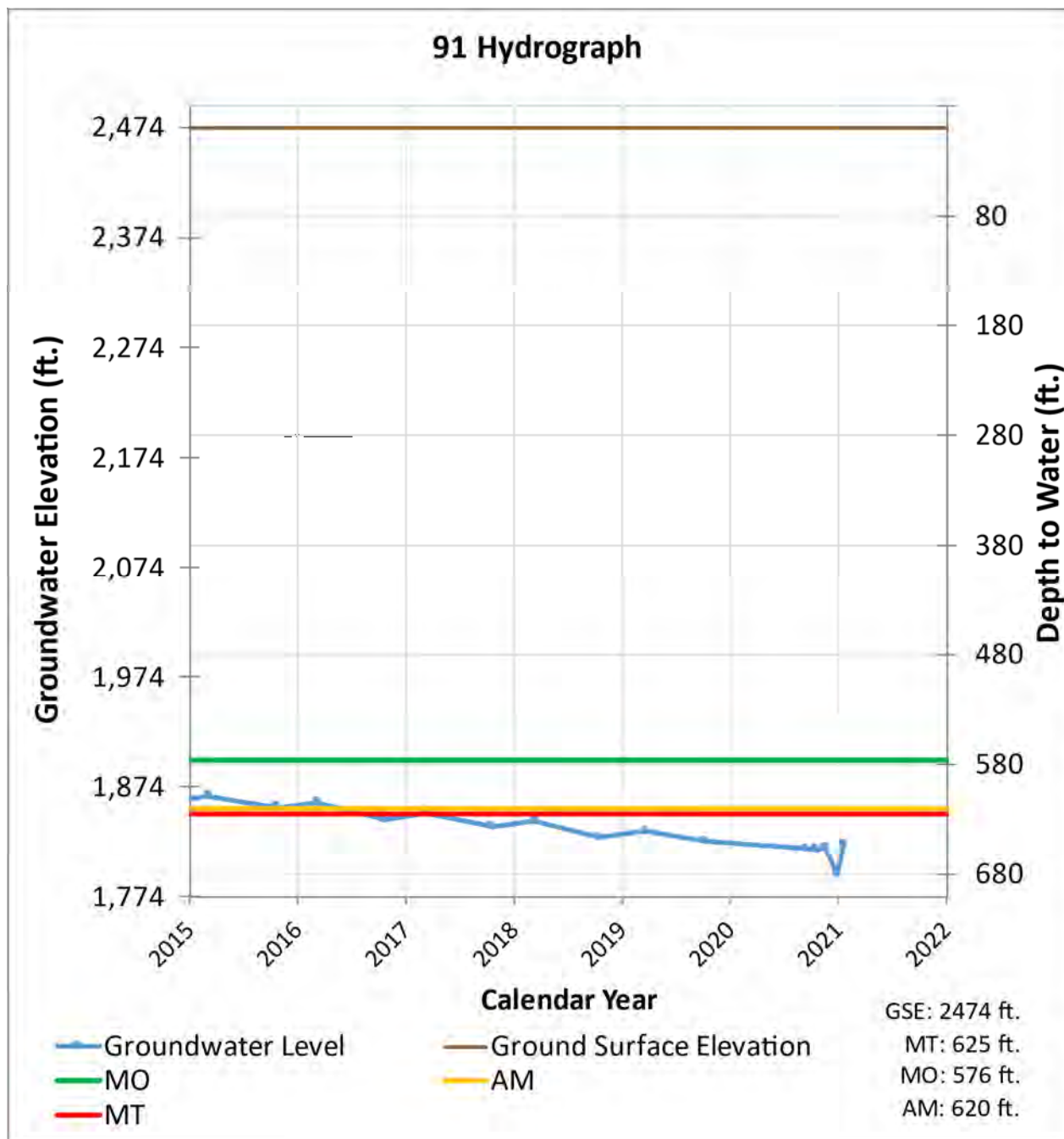


Figure 5: Central Region – Well 74

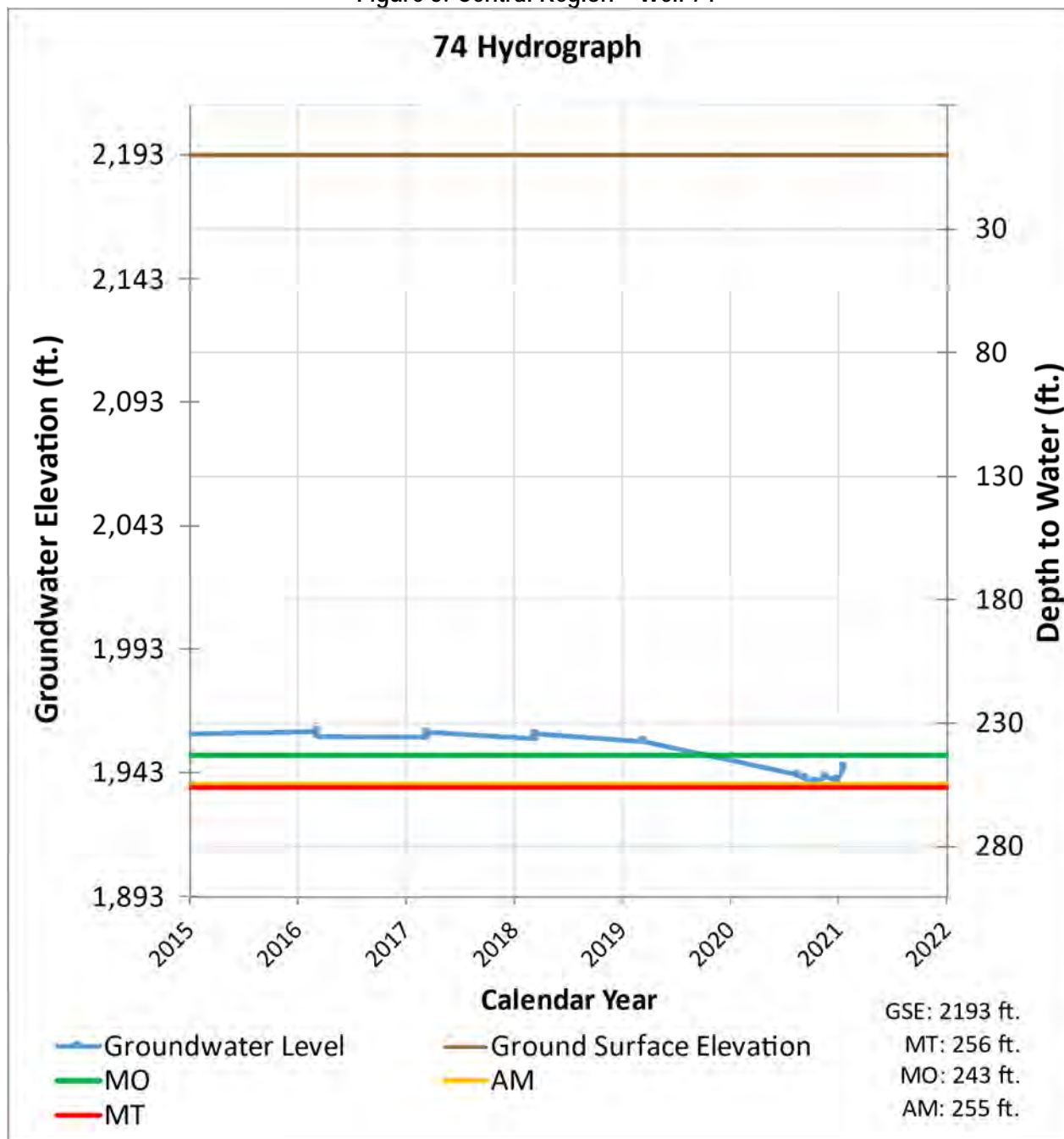


Figure 6: Western Region – Well 108

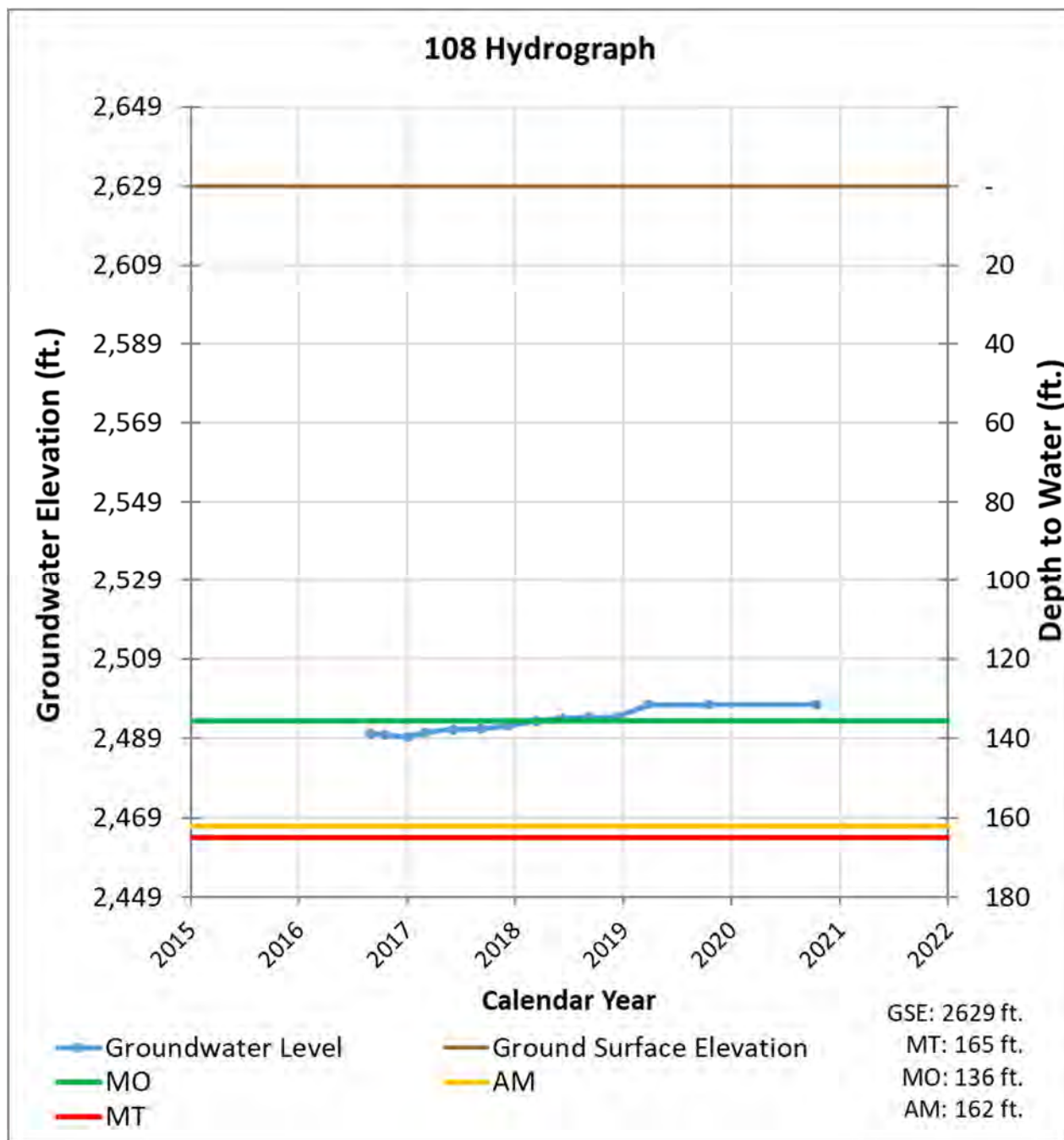
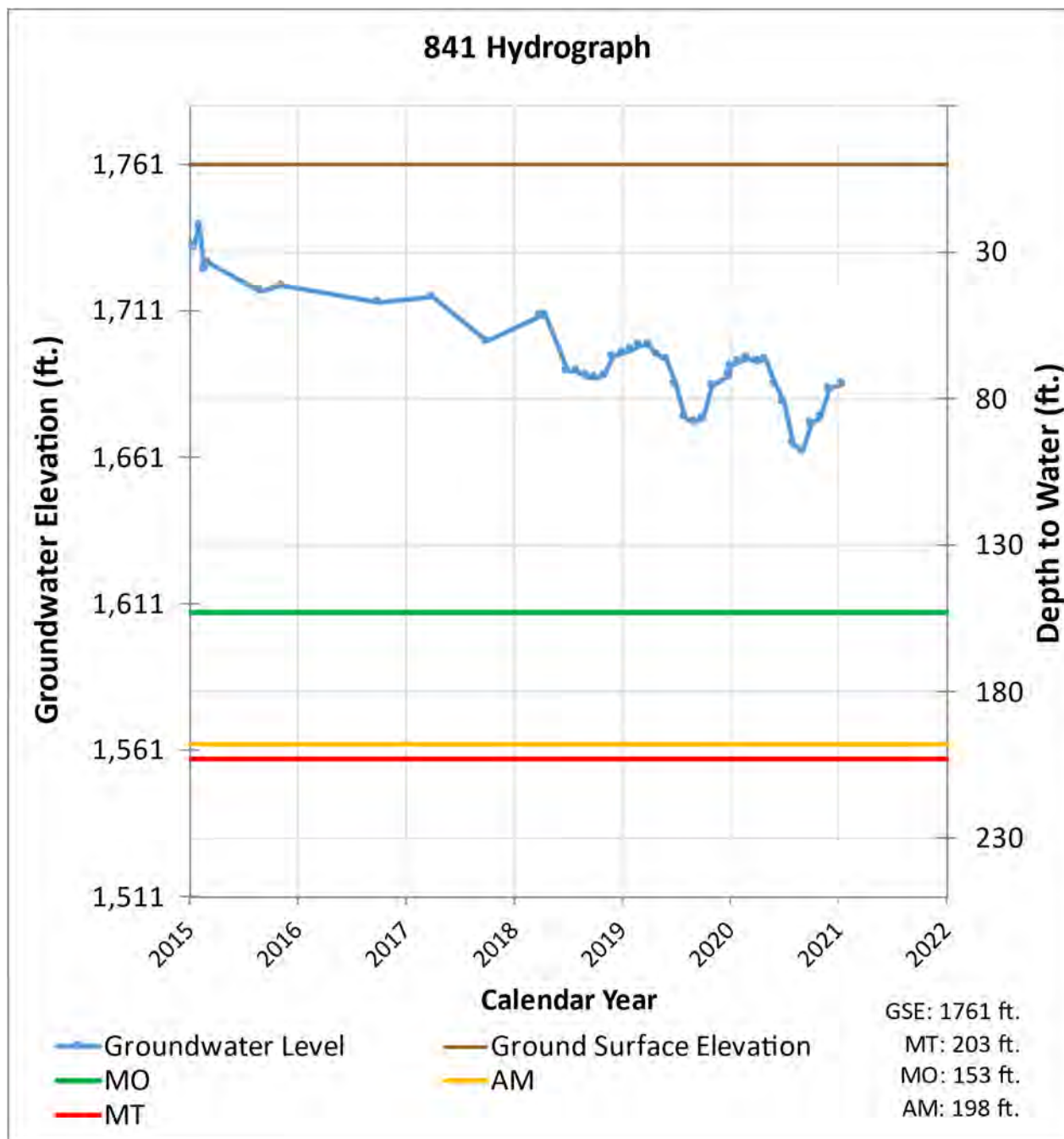


Figure 7: Northwestern Region – Well 841



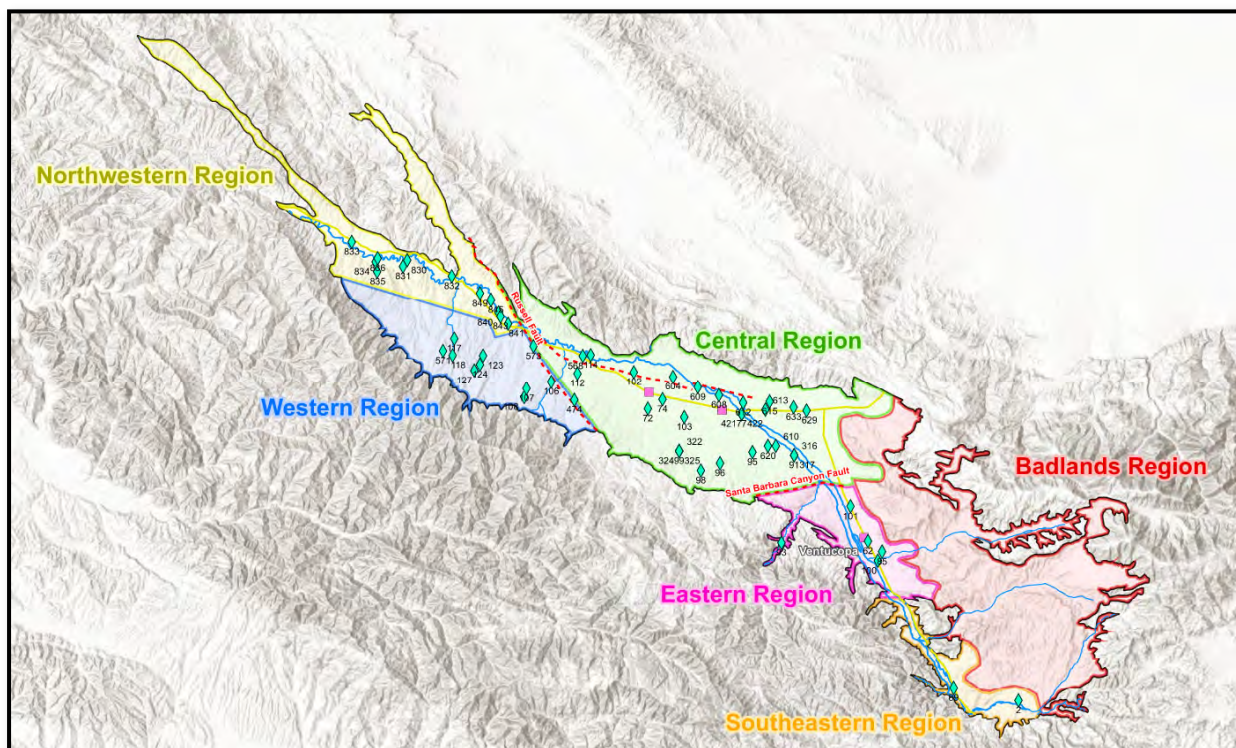


Figure 8: Threshold Regions in the Cuyama Groundwater Basin

5. MONITORING NETWORK UPDATES

As shown in the Summary Statistics Section, there are 16 wells without current measurements. These “no measurement codes” can generally be caused by four different reasons as shown 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 72, 98, 117, 123, 124, 127, 840, 843, 849
- Well transducer data is not yet available:
 - None
- Measurement was not possible at the time when the field technician went to take measurements:
 - 108, 112, 114, 474, 573, 833
- Wells that have gone dry:
 - 422



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