



GROUNDWATER
CONDITIONS
REPORT –
CUYAMA VALLEY
GROUNDWATER
BASIN

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COMMITMENT & INTEGRITY DRIVE RESULTS

Cuyama Valley
Groundwater
Sustainability Agency

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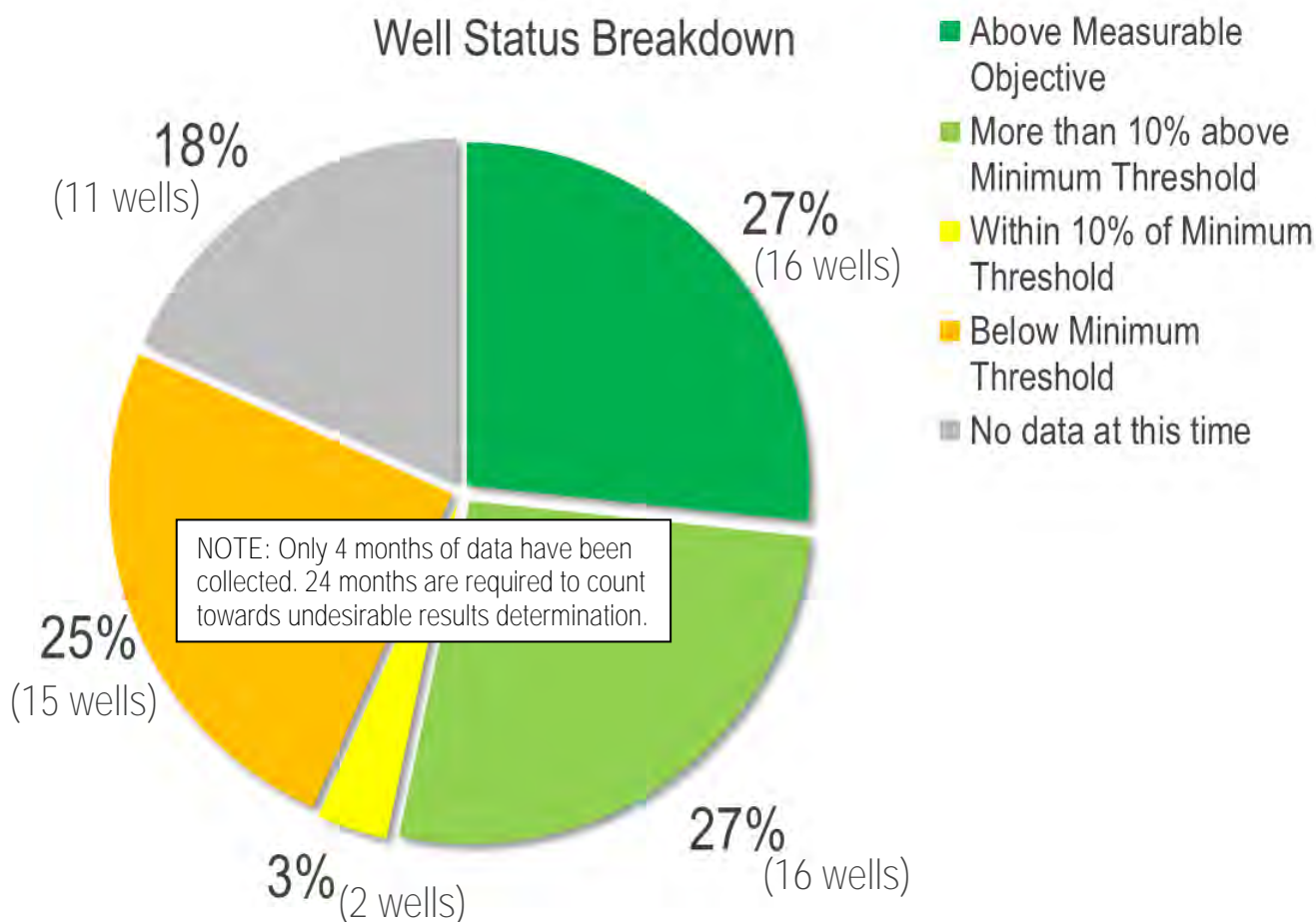
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1. INTRODUCTION

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	Sep-20	Oct-20	Nov-20	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	-	-	-	2006	10/9/2019	-
74	Central	1940	1939	1941	1955	3/18/2019	-14
77	Central	1775	1793	1815	1803	10/9/2019	12
91	Central	1817	1816	1818	1824	10/9/2019	-6
95	Central	1852	1852	1854	1872	3/22/2019	-18
96	Central	2272	2271	2357	2276	3/26/2019	81
98	Central	-	-	-	2239	3/26/2019	-
99	Central	2213	2161	2219	2151	10/2/2019	68
102	Central	-	-	1718	1805	3/18/2019	-87
103	Central	1965	1960	1970	1980	10/9/2019	-10
112	Central	2054	2055	2055	-	-	-
114	Central	1878	1879	1879	-	-	-
316	Central	1817	1811	1817	-	-	-
317	Central	1817	1811	1817	-	-	-
322	Central	2213	2158	2218	-	-	-
324	Central	2214	2174	2217	-	-	-
325	Central	2218	2197	2219	-	-	-
420	Central	1773	1792	1813	-	-	-
421	Central	1788	1796	1810	-	-	-
422	Central	-	1830	-	-	-	-



Well	Region	Sep-20	Oct-20	Nov-20	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
474	Central	2196	2197	2199	-	-	-
568	Central	-	1867	1867	-	-	-
604	Central	1658	1641	1634	-	-	-
608	Central	1810	1809	1784	-	-	-
609	Central	1733	1791	1787	-	-	-
610	Central	1812	1813	1816	-	-	-
612	Central	1851	1808	1806	-	-	-
613	Central	-	-	1814	-	-	-
615	Central	1842	1818	1837	-	-	-
620	Central	1815	1836	1816	-	-	-
629	Central	1864	1882	1820	-	-	-
633	Central	1807	-	1800	-	-	-
62	Eastern	2760	2764	2761	-	-	-
85	Eastern	2844	2844	2843	-	-	-
100	Eastern	2852	2852	2850	-	-	-
101	Eastern	-	-	2631	-	-	-
840	Northwestern	-	-	-	1648	12/31/2019	-
841	Northwestern	-	-	1674	1689	12/31/2019	-15
843	Northwestern	-	-	-	1673	12/31/2019	-
845	Northwestern	-	-	1646	1654	12/31/2019	-8
849	Northwestern	-	-	-	-	-	-



Well	Region	Sep-20	Oct-20	Nov-20	Last Year		Annual Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
2	Southeastern	3691	3695	3690	-	-	-
89	Southeastern	3433	3432	3431	-	-	-
106	Western	-	2184	2184	-	-	-
107	Western	-	2399	2399	-	-	-
108	Western	-	2498	-	-	-	-
117	Western	-	-	-	-	-	-
118	Western	-	2215	2214	2212	10/10/2019	2
123	Western	-	-	-	2158	10/10/2019	-
124	Western	-	-	-	2243	10/10/2019	-
127	Western	-	-	-	2333	10/10/2019	-
571	Western	2180	2178	2187	-	-	-
573	Western	2013	2014	2014	-	-	-
830	Far-West Northwestern	-	-	1515	1514	3/26/2019	1
831	Far-West Northwestern	-	-	1519	1513	10/10/2019	6
832	Far-West Northwestern	-	1593	1592	1592	10/9/2019	0
833	Far-West Northwestern	-	1405	1430	1429	10/9/2019	1



Well	Region	Sep-20	Oct-20	Nov-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	-	1468	-	-	-
835	Far-West Northwestern	1520	-	1519	1525	10/10/2019	-6
836	Far-West Northwestern	1450	-	1449	1451	10/10/2019	-2



Table 2: Well Status Related to Thresholds

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Status	GSA Action Required?
		GWL (DTW)	Month/Year					
72	Central	-	-	169	165	124	No available data this period	No
74	Central	252	11/18/2020	256	255	243	More than 10% above Minimum Threshold	No
77	Central	471	11/18/2020	450	445	400	Below Minimum Threshold (3 months)	No
91	Central	656	11/18/2020	625	620	576	Below Minimum Threshold (3 months)	No
95	Central	595	11/18/2020	573	570	538	Below Minimum Threshold (4 months)	No
96	Central	249	11/18/2020	333	332	325	Above Measurable Objective	No
98	Central	-	-	450	449	439	No available data this period	No
99	Central	294	11/18/2020	311	310	300	Above Measurable Objective	No
102	Central	328	11/14/2020	235	231	197	Below Minimum Threshold (1 month)	No
103	Central	319	11/18/2020	290	285	235	Below Minimum Threshold (4 months)	No
112	Central	84	11/16/2020	87	87	85	Above Measurable Objective	No
114	Central	46	11/16/2020	47	47	45	More than 10% above Minimum Threshold	No
316	Central	657	11/18/2020	623	618	574	Below Minimum Threshold (3 months)	No
317	Central	657	11/18/2020	623	618	573	Below Minimum Threshold (3 months)	No
322	Central	295	11/18/2020	307	306	298	Above Measurable Objective	No
324	Central	296	11/18/2020	311	310	299	Above Measurable Objective	No
325	Central	294	11/18/2020	300	299	292	More than 10% above Minimum Threshold	No
420	Central	473	11/18/2020	450	445	400	Below Minimum Threshold (3 months)	No
421	Central	476	11/18/2020	446	441	398	Below Minimum Threshold (3 months)	No
422	Central	-	-	444	439	397	No available data this period	No



Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Status	GSA Action Required?
		GWL (DTW)	Month/Year					
474	Central	170	11/16/2020	188	186	169	More than 10% above Minimum Threshold	No
568	Central	38	11/16/2020	37	37	36	Below Minimum Threshold (2 months)	No
604	Central	491	11/16/2020	526	522	487	More than 10% above Minimum Threshold	No
608	Central	440	11/16/2020	436	433	407	Below Minimum Threshold (1 month)	No
609	Central	380	11/16/2020	458	454	421	Above Measurable Objective	No
610	Central	626	11/18/2020	621	618	591	Below Minimum Threshold (4 months)	No
612	Central	460	11/16/2020	463	461	440	More than 10% above Minimum Threshold	No
613	Central	516	11/16/2020	503	500	475	Below Minimum Threshold (1 month)	No
615	Central	490	11/16/2020	500	497	468	More than 10% above Minimum Threshold	No
620	Central	616	11/18/2020	606	602	566	Below Minimum Threshold (1 month)	No
629	Central	559	11/16/2020	559	556	527	Within Adaptive Management Zone	No
633	Central	564	11/16/2020	547	542	493	Below Minimum Threshold (4 months)	No
62	Eastern	160	11/19/2020	182	178	142	More than 10% above Minimum Threshold	No
85	Eastern	204	11/19/2020	233	225	147	More than 10% above Minimum Threshold	No
100	Eastern	154	11/19/2020	181	175	125	More than 10% above Minimum Threshold	No
101	Eastern	110	11/19/2020	111	108	81	Within Adaptive Management Zone	No
840	Northwestern	-	-	203	198	153	No available data this period	No
841	Northwestern	87	11/15/2020	203	198	153	Above Measurable Objective	No
843	Northwestern	-	-	203	198	153	No available data this period	No
845	Northwestern	66	11/15/2020	203	198	153	Above Measurable Objective	No



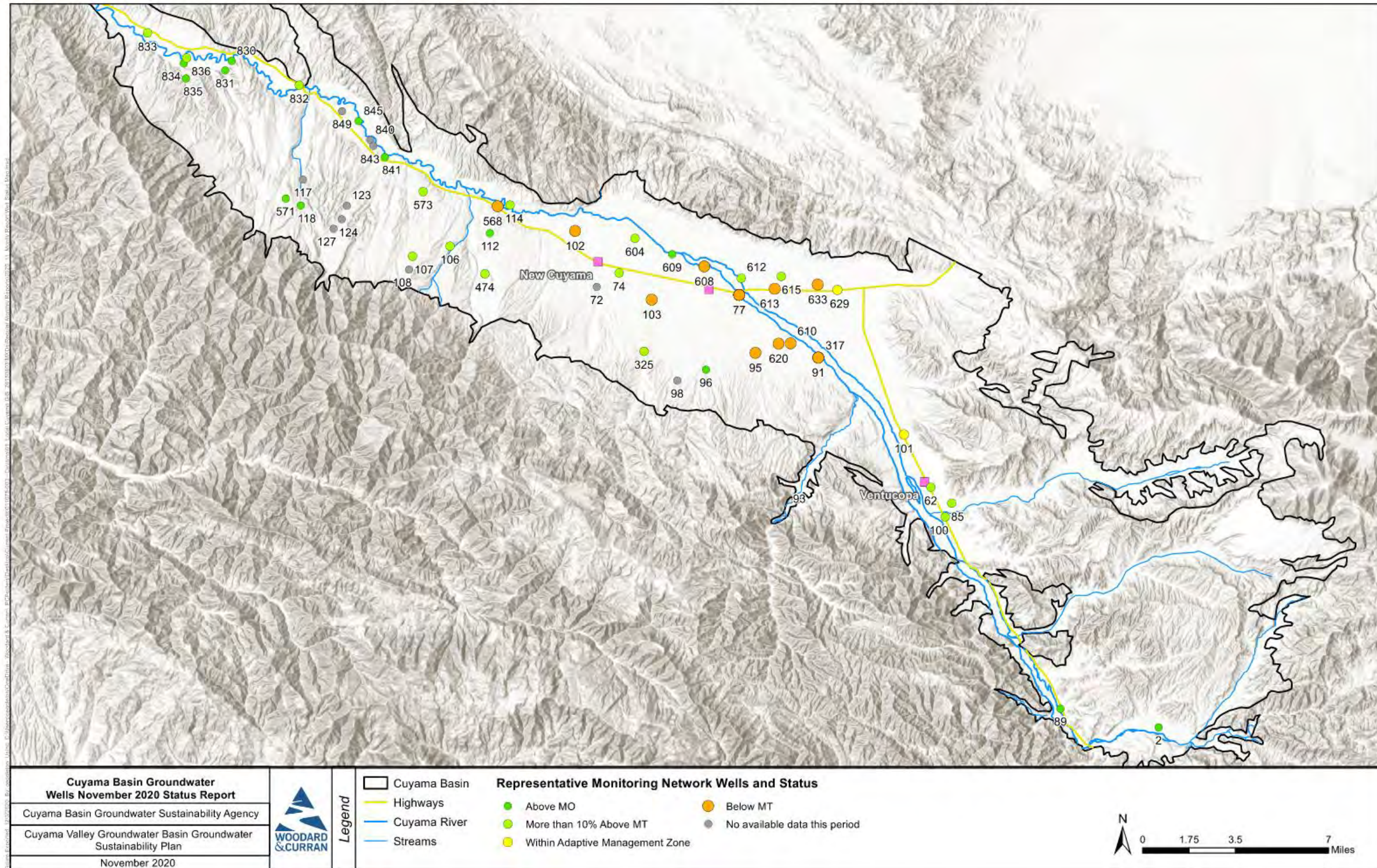
Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Status	GSA Action Required?
		GWL (DTW)	Month/Year					
849	Northwestern	-	-	203	198	153	No available data this period	No
2	Southeastern	30	11/19/2020	72	70	55	Above Measurable Objective	No
89	Southeastern	30	11/19/2020	64	62	44	Above Measurable Objective	No
106	Western	143	11/18/2020	154	153	141	More than 10% above Minimum Threshold	No
107	Western	83	11/18/2020	91	89	72	More than 10% above Minimum Threshold	No
108	Western	-	-	165	162	136	No available data this period	No
117	Western	-	-	160	159	151	No available data this period	No
118	Western	56	11/18/2020	124	117	57	Above Measurable Objective	No
123	Western	-	-	31	29	13	No available data this period	No
124	Western	-	-	73	71	57	No available data this period	No
127	Western	-	-	42	41	32	No available data this period	No
571	Western	120	11/18/2020	144	142	121	Above Measurable Objective	No
573	Western	70	11/16/2020	118	113	68	More than 10% above Minimum Threshold	No
830	Far-West Northwestern	56	11/18/2020	59	59	56	Above Measurable Objective	No
831	Far-West Northwestern	38	11/18/2020	77	75	52	Above Measurable Objective	No
832	Far-West Northwestern	38	11/18/2020	45	44	30	More than 10% above Minimum Threshold	No
833	Far-West Northwestern	27	11/18/2020	96	89	24	More than 10% above Minimum Threshold	No



Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Status	GSA Action Required?
		GWL (DTW)	Month/Year					
834	Far-West Northwestern	40	11/18/2020	84	80	42	Above Measurable Objective	No
835	Far-West Northwestern	36	11/18/2020	55	53	36	Above Measurable Objective	No
836	Far-West Northwestern	37	11/18/2020	79	75	36	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 provided an overview of conditions in each of the six areas threshold regions identified in the GSP.

Figure 2: Southeast Region – Well 89

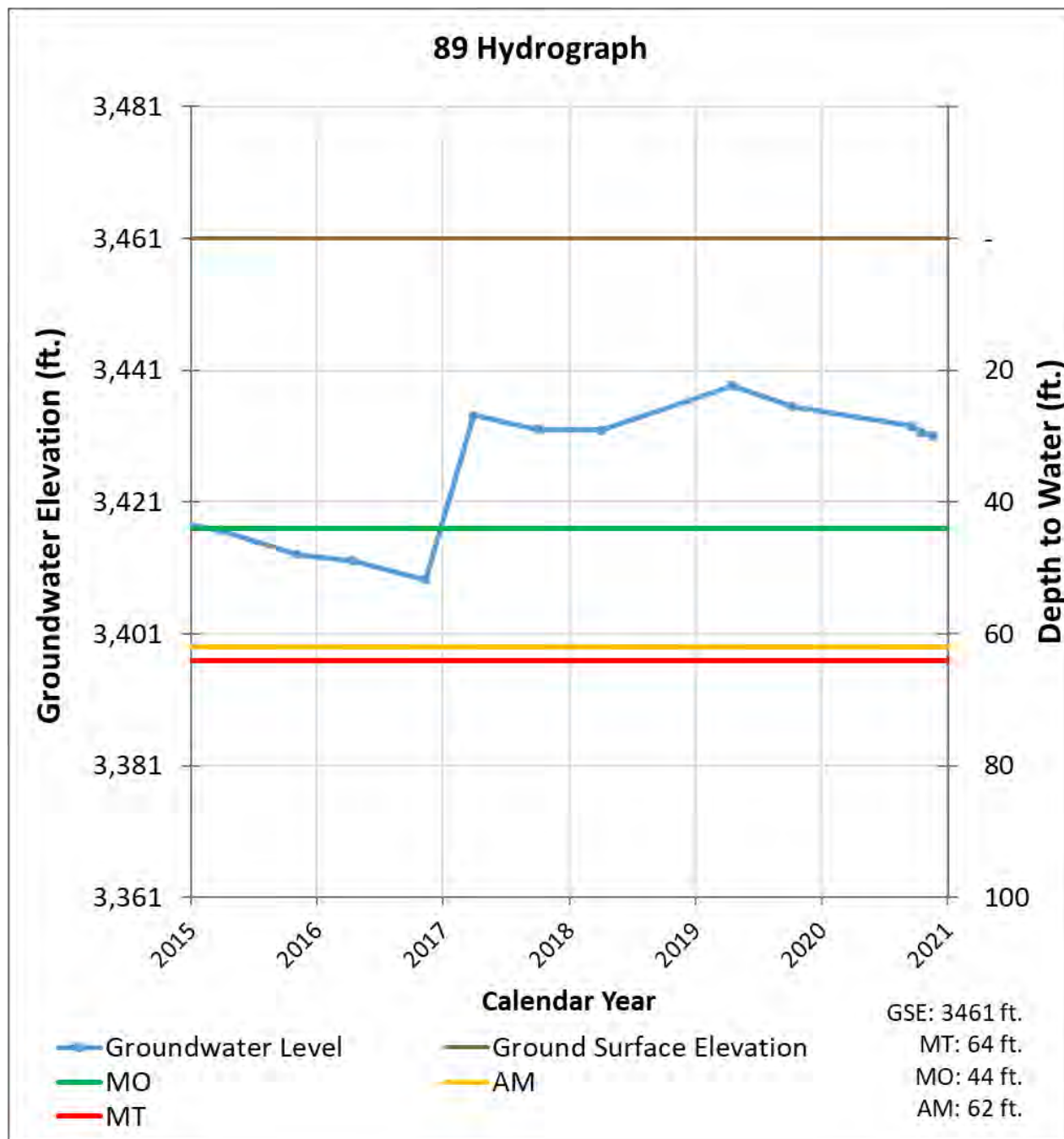


Figure 3: Eastern Region – Well 62

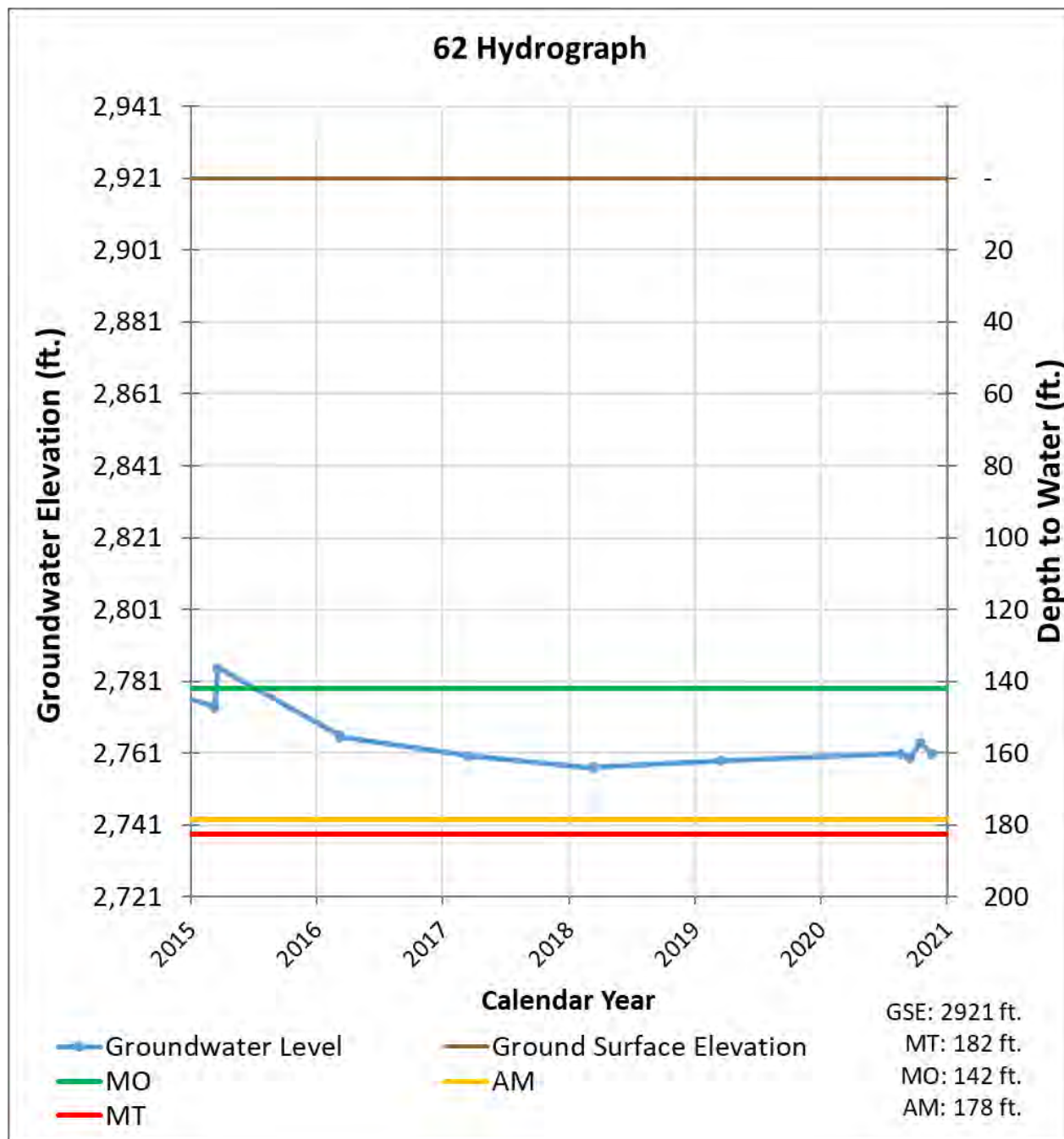


Figure 4: Central Region – Well 91

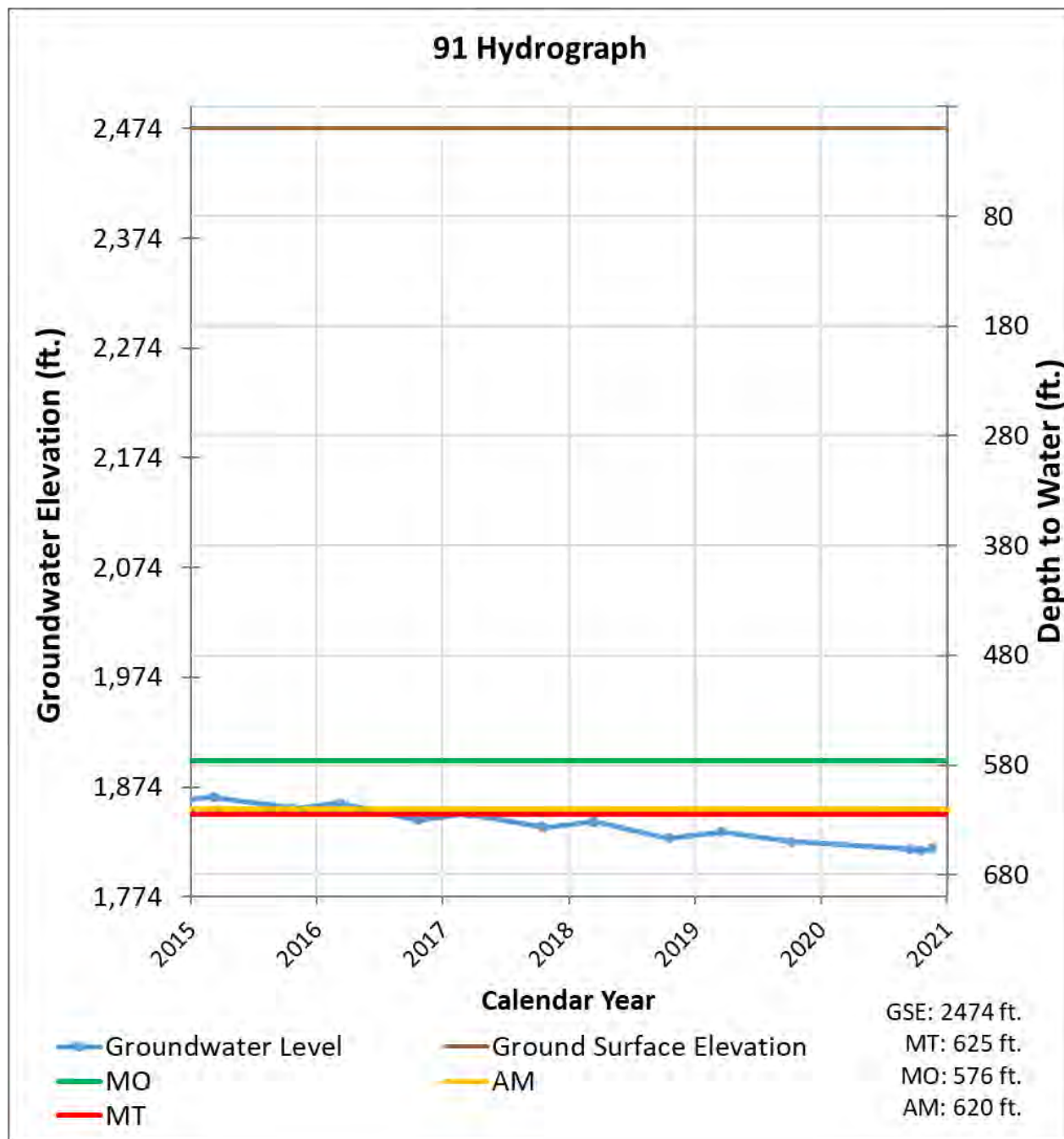


Figure 5: Central Region – Well 74

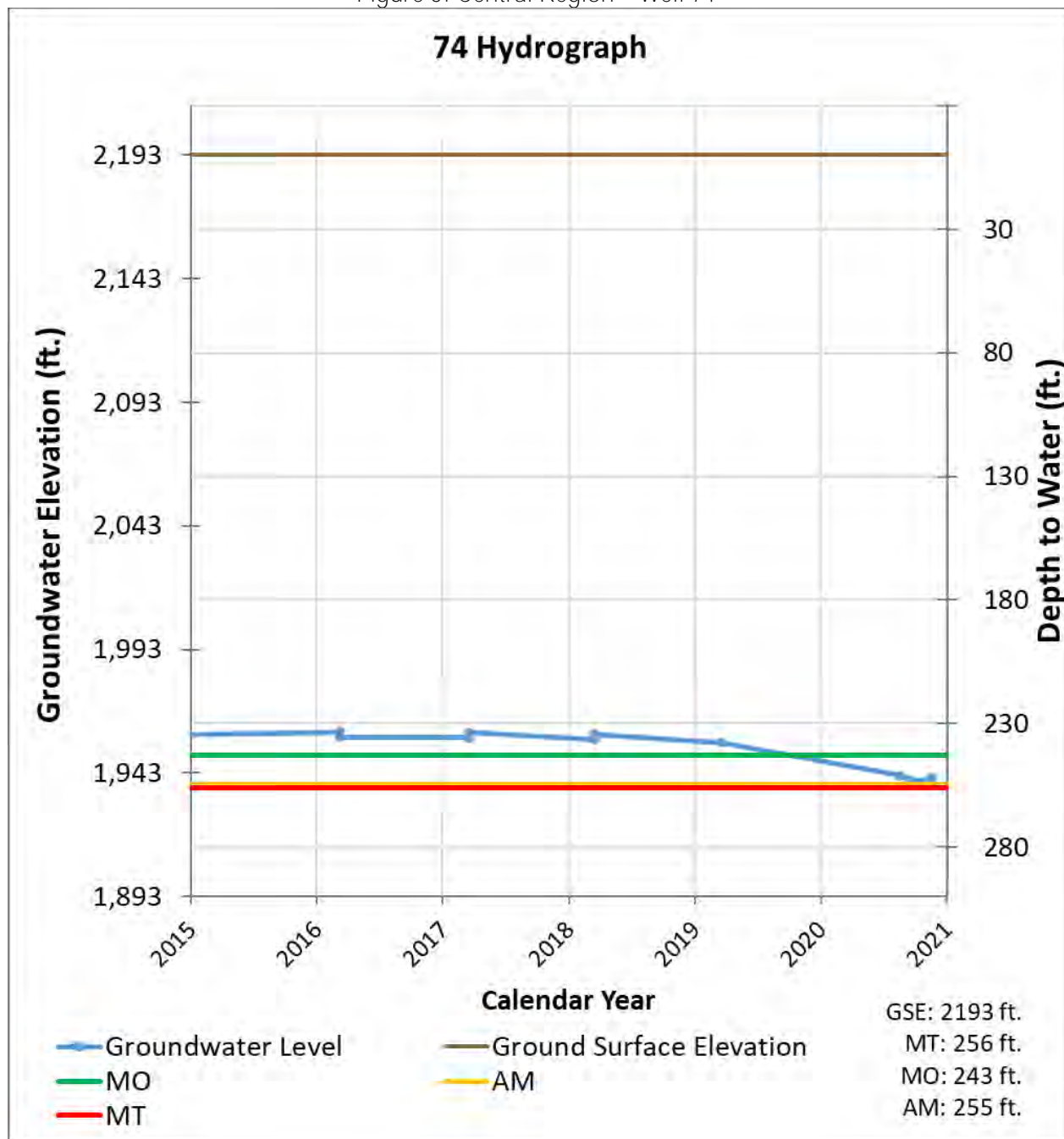


Figure 6: Western Region – Well 108

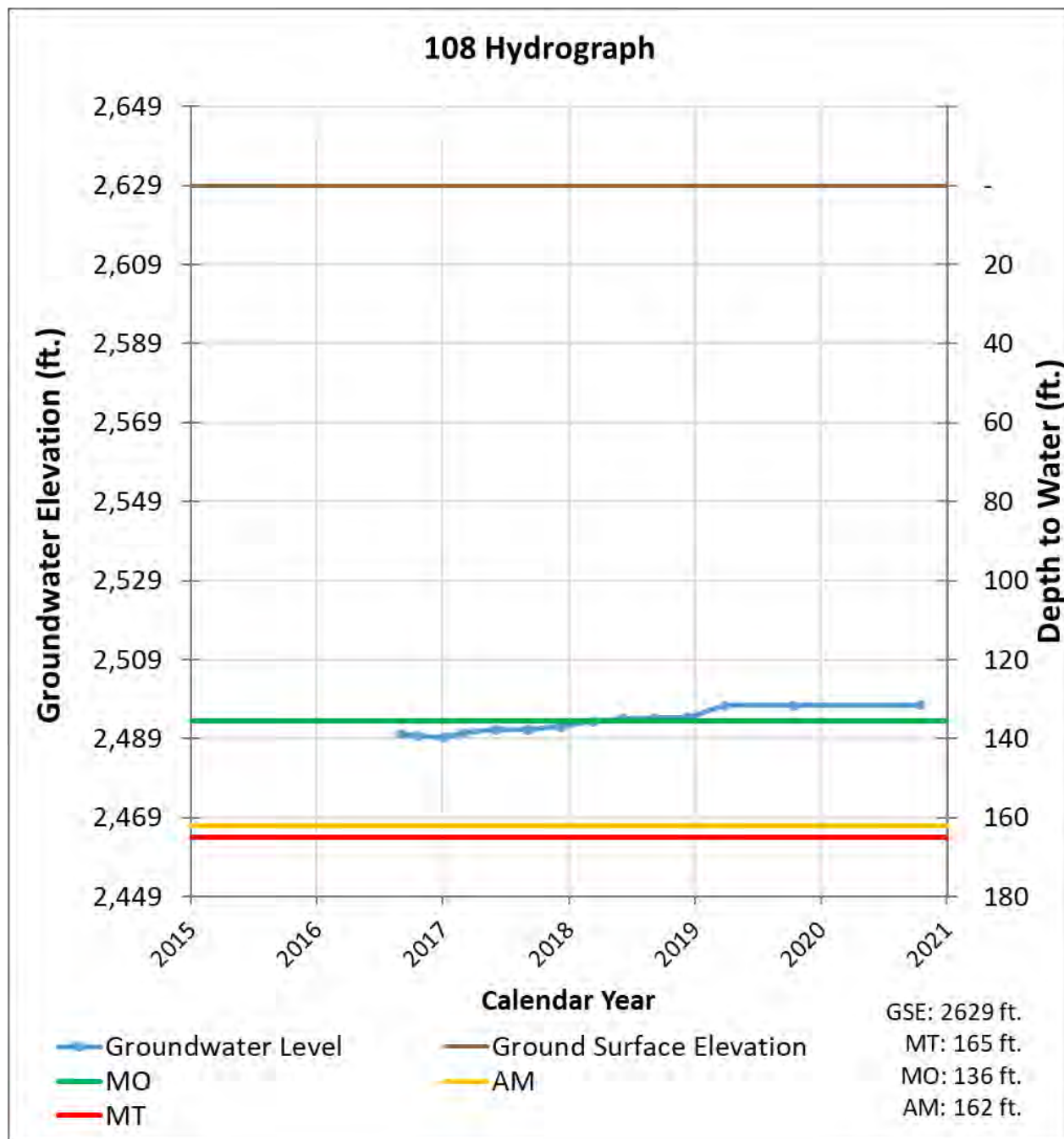
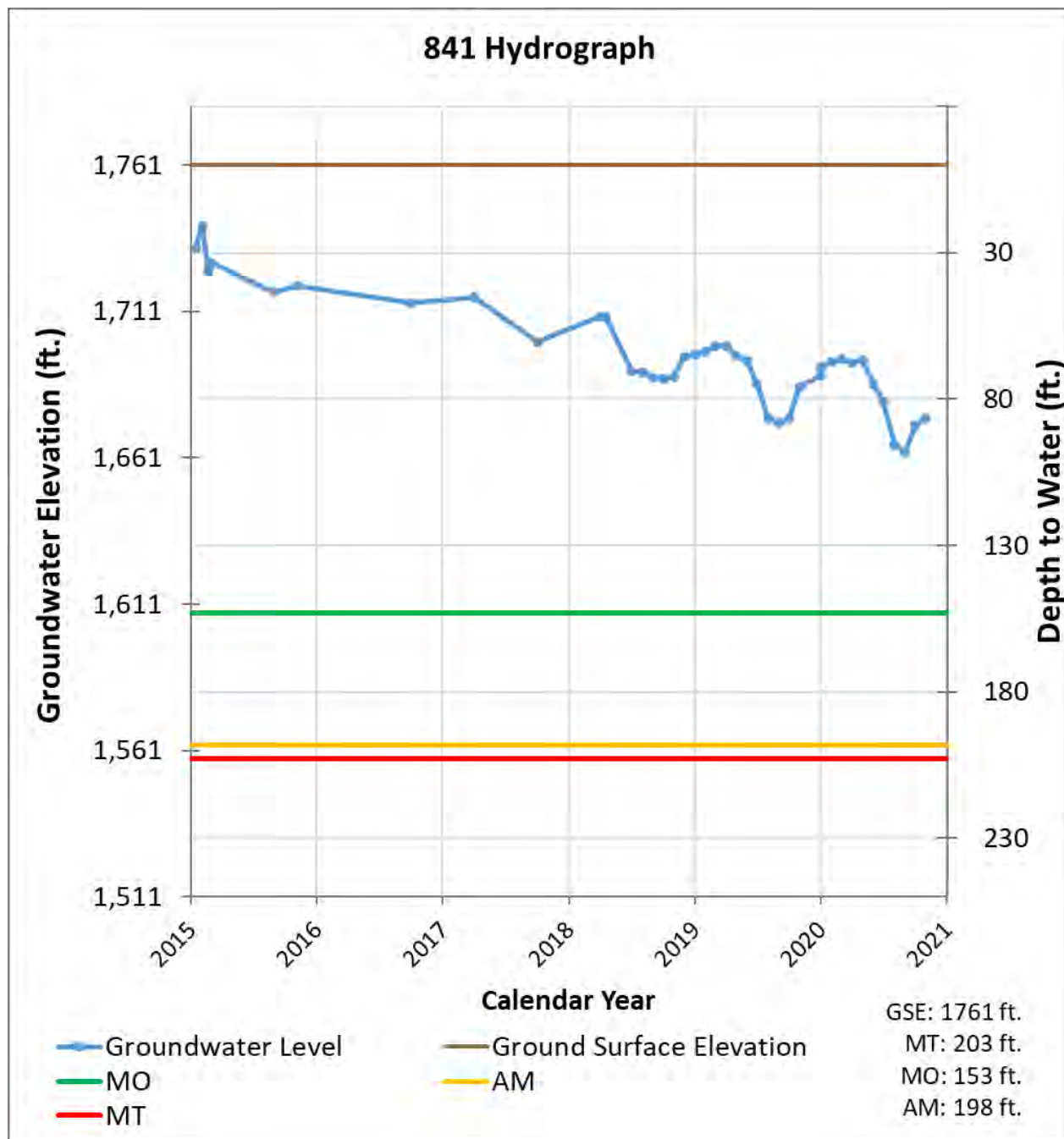


Figure 7: Northwestern Region – Well 841



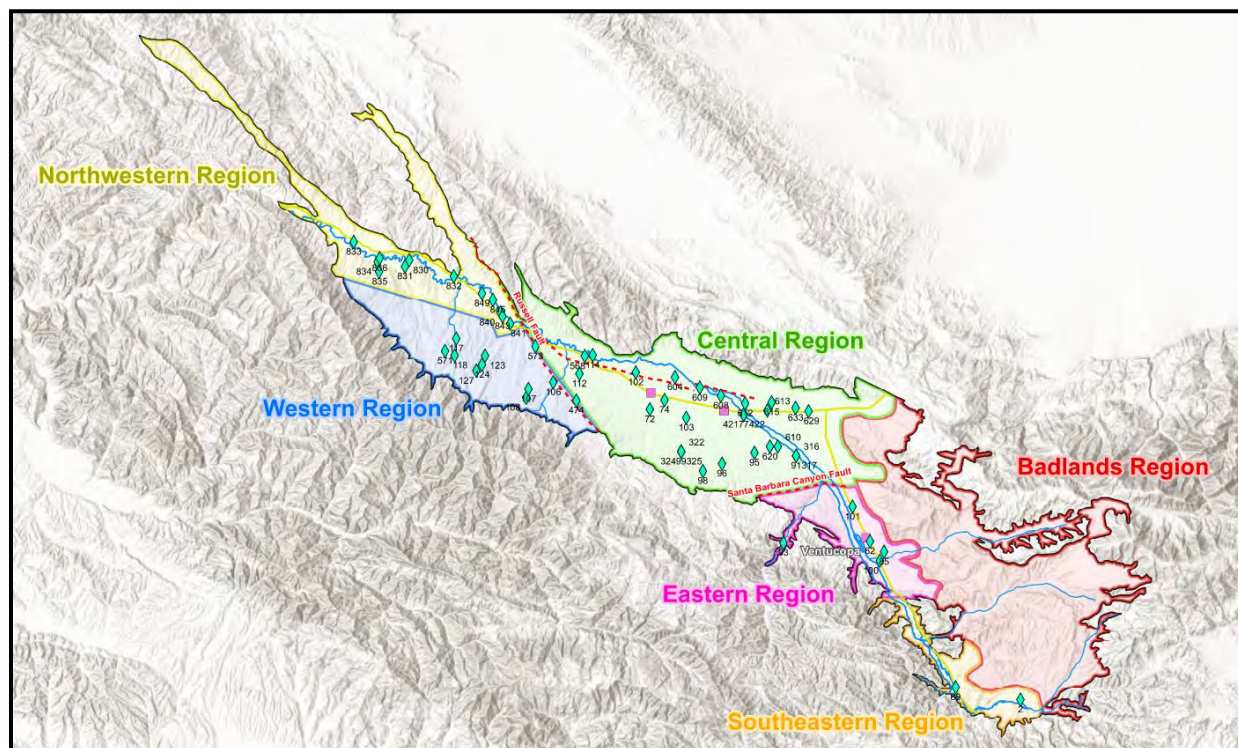


Figure 8: Threshold Regions in the Cuyama Groundwater Basin

5. MONITORING NETWORK UPDATES

As shown in the Summary Statistics Section, there are 11 wells without **current measurements**. These “no measurement codes” can generally be caused for three different reasons. Additionally, three wells are recommended to be removed from the monitoring network at this time as described below.

- Access agreements have not yet been established with the landowner, or no access at time of measurement:
 - Wells 72, 98, 108, 117, 123, 124, 127, 422, 840, 843, and 849
- Measurement was not possible due to pumping when the field technician went to take measurements:
 - None
- Wells that are have data but that we recommended to be removed:
 - None



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