



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

April 2022

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**Cuyama Basin
Groundwater
Sustainability Agency**

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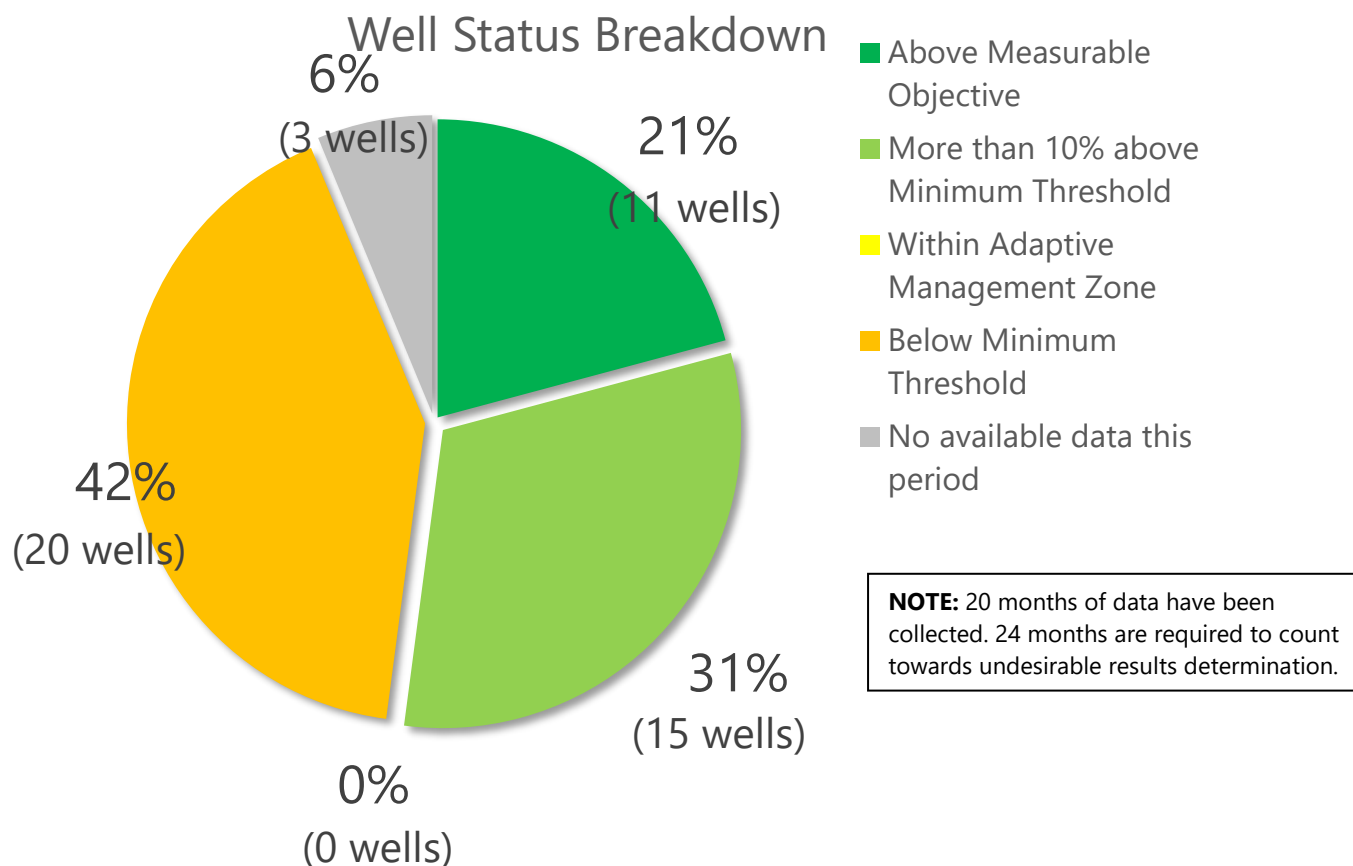
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1. INTRODUCTION

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.

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 11 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	Oct-21	Jan-22	Apr-22	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	1994	2022	2021	2022	Apr-21	-1
74	Central	1941	1919	1928	1933	Apr-21	-5
77	Central	1787	1814	1803	1813	Apr-21	-11
91	Central	1809	1812	1813	1818	Apr-21	-5
95	Central	1845	1848	1847	1855	Apr-21	-8
96	Central	2273	2271	2271	2272	Apr-21	-1
98	Central	-	-	-	-	-	-
99	Central	2154	2222	2223	2224	Apr-21	-1
102	Central	1668	1622	1622	1711	Apr-21	-89
103	Central	1962	1997	2007	1992	Apr-21	16
112	Central	2054	2054	2053	2054	Apr-21	-1
114	Central	1879	-	1878	1878	Apr-21	0
316	Central	1809	1812	1813	1820	Apr-21	-7
317	Central	1809	1812	1813	1820	Apr-21	-7
322	Central	2144	2220	2222	2223	Apr-21	-2
324	Central	2165	2218	2220	2221	Apr-21	-1
325	Central	2199	2220	2222	2223	Apr-21	-1
420	Central	1775	1803	1792	1803	Apr-21	-11
421	Central	1779	1800	1793	1804	Apr-21	-11
474	Central	2205	2204	2204	2202	Apr-21	2

Well	Region	Oct-21	Jan-22	Apr-22	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
568	Central	1866	1867	1868	1869	Apr-21	-1
604	Central	1644	1674	-	1663	Apr-21	-
608	Central	1762	1779	1817	1783	Apr-21	35
609	Central	-	1789	1760	1784	Apr-21	-24
610	Central	1811	1814	1814	1822	Apr-21	-8
612	Central	-	1795	1793	1806	Apr-21	-14
613	Central	1806	1814	1809	1819	Apr-21	-9
615	Central	1814	1814	1813	1818	Apr-21	-5
629	Central	1801	1813	1807	1816	Apr-21	-9
633	Central	1785	1815	1794	1794	Apr-21	0
62	Eastern	2761	2765	2766	2765	Apr-21	1
85	Eastern	2847	2847	2847	2847	Apr-21	0
100	Eastern	2851	2850	2850	2854	Apr-21	-4
101	Eastern	2631	2635	-	2634	Apr-21	-
841	Northwestern	1663	1674	1676	1682	Apr-21	-14
845	Northwestern	1642	1646	1645	1645	Apr-21	0
2	Southeastern	-	-	-	-	-	-
89	Southeastern	3426	3427	3425	3431	Apr-21	-6
106	Western	2183	2183	2183	2185	Apr-21	-2
107	Western	2392	2370	2383	2395	Apr-21	-12
117	Western	-	1947	1946	-	-	-

Well	Region	Oct-21	Jan-22	Apr-22	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
118	Western	2211	2211	2210	2213	Apr-21	-3
124	Western	-	-	-	-	-	-
571	Western	2183	2185	2182	2185	Apr-21	-3
573	Western	2013	2013	2013	2013	Apr-21	0
830	Far-West Northwestern	1511	-	1510	1513	Apr-21	-3
832	Far-West Northwestern	1591	1590	1590	1592	Apr-21	-3
833	Far-West Northwestern	1431	1432	-	1425	Apr-21	-
836	Far-West Northwestern	1448	1448	1448	1450	Apr-21	-2

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	151	4/18/2022	169	165	124	790	More than 10% above Minimum Threshold	No
74	Central	265	4/18/2022	256	255	243		Below Minimum Threshold (4 months)	No
77	Central	483	4/19/2022	450	445	400	980	Below Minimum Threshold (20 months)	No
91	Central	661	4/19/2022	625	620	576	980	Below Minimum Threshold (20 months)	No
95	Central	602	4/19/2022	573	570	538	805	Below Minimum Threshold (20 months)	No
96	Central	335	4/19/2022	333	332	325	500	Below Minimum Threshold (17 months)	No
98	Central	-		450	449	439	750	No available data this period (no available data in past 12 months)	No
99	Central	290	4/18/2022	311	310	300	750	Above Measurable Objective	No
102	Central	425	4/19/2022	235	231	197		Below Minimum Threshold (16 months)	No
103	Central	281	4/19/2022	290	285	235	1030	More than 10% above Minimum Threshold	No
112	Central	86	4/19/2022	87	87	85	441	More than 10% above Minimum Threshold	No
114	Central	47	4/19/2022	47	47	45	58	Below Minimum Threshold (1 months)	No
316	Central	661	4/19/2022	623	618	574	830	Below Minimum Threshold (20 months)	No
317	Central	661	4/19/2022	623	618	573	700	Below Minimum Threshold (20 months)	No
322	Central	291	4/18/2022	307	306	298	850	Above Measurable Objective	No

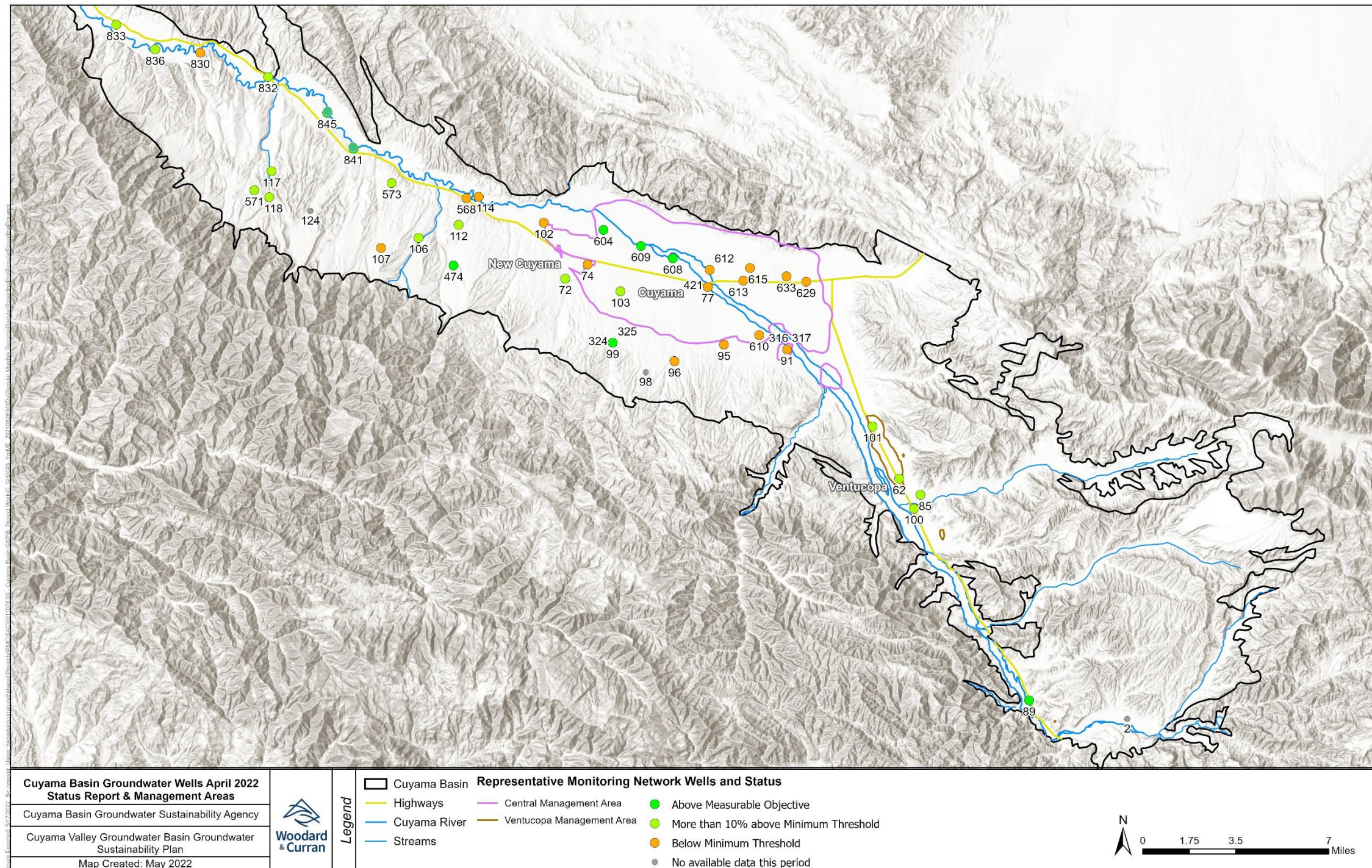
Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
324	Central	292	4/18/2022	311	310	299	560	Above Measurable Objective	No
325	Central	291	4/18/2022	300	299	292	380	Above Measurable Objective	No
420	Central	494	4/19/2022	450	445	400	780	Below Minimum Threshold (20 months)	No
421	Central	493	4/19/2022	446	441	398	620	Below Minimum Threshold (20 months)	No
474	Central	165	4/19/2022	188	186	169	213	Above Measurable Objective	No
568	Central	37	4/19/2022	37	37	36	188	Below Minimum Threshold (11 months)	No
604	Central	-	4/19/2022	526	522	487	924	No available data this period (above MO in Jan 2022)	No
608	Central	407	4/19/2022	436	433	407	745	Above Measurable Objective	No
609	Central	407	4/19/2022	458	454	421	970	Above Measurable Objective	No
610	Central	628	4/19/2022	621	618	591	780	Below Minimum Threshold (12 months)	No
612	Central	474	4/18/2022	463	461	440	1070	Below Minimum Threshold (4 months)	No
613	Central	521	4/19/2022	503	500	475	830	Below Minimum Threshold (18 months)	No
615	Central	514	4/19/2022	500	497	468	865	Below Minimum Threshold (17 months)	No
629	Central	571	4/18/2022	559	556	527	1000	Below Minimum Threshold (13 months)	No
633	Central	570	4/18/2022	547	542	493	1000	Below Minimum Threshold (13 months)	No
62	Eastern	155	4/19/2022	182	178	142	212	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						
85	Eastern	200	4/19/2022	233	225	147	233	More than 10% above Minimum Threshold	No
100	Eastern	154	4/19/2022	181	175	125	284	More than 10% above Minimum Threshold	No
101	Eastern	-	4/19/2022	111	108	81	200	No available data this period (>10% above MT in Jan 2022)	No
841	Northwestern	85	4/19/2022	203	198	153	600	Above Measurable Objective	No
845	Northwestern	67	4/19/2022	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	37	4/19/2022	64	62	44	125	Above Measurable Objective	No
106	Western	144	4/19/2022	154	153	141	228	More than 10% above Minimum Threshold	No
107	Western	99	4/19/2022	91	89	72	200	Below Minimum Threshold (4 months)	No
117	Western	152	4/18/2022	160	159	151	212	More than 10% above Minimum Threshold	No
118	Western	60	4/18/2022	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	125	4/18/2022	144	142	121	280	More than 10% above Minimum Threshold	No
573	Western	71	4/19/2022	118	113	68	404	More than 10% above Minimum Threshold	No
830	Far-West Northwestern	61	4/18/2022	59	59	56	77	Below Minimum Threshold (10 months)	No
832	Far-West Northwestern	40	4/18/2022	45	44	30	132	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						
833	Far-West Northwestern	-		96	89	24	504	No available data this period (> 10% above MT in Jan 2022)	No
836	Far-West Northwestern	38	4/18/2022	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 April 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

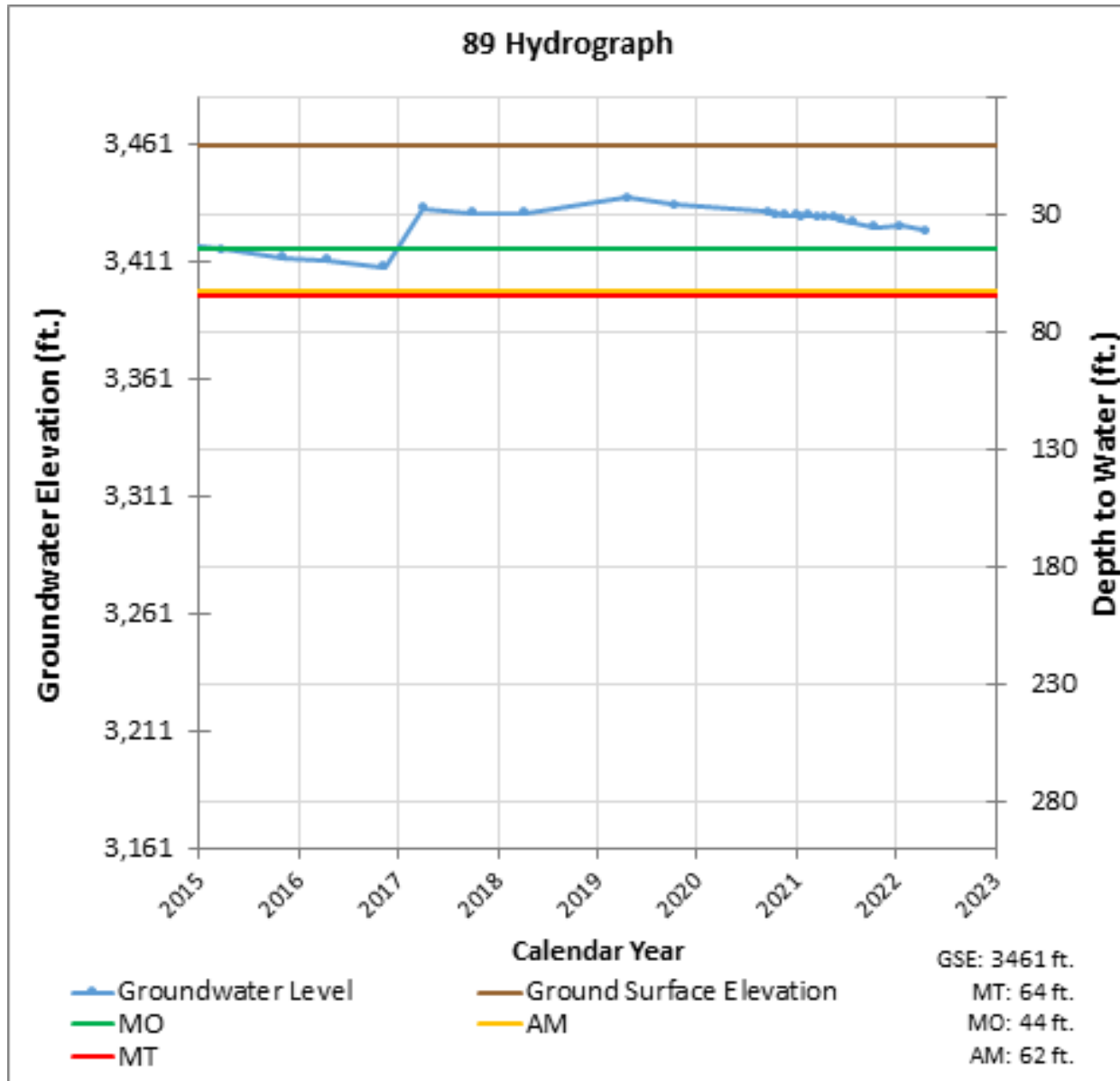


Figure 3: Eastern Region – Well 62

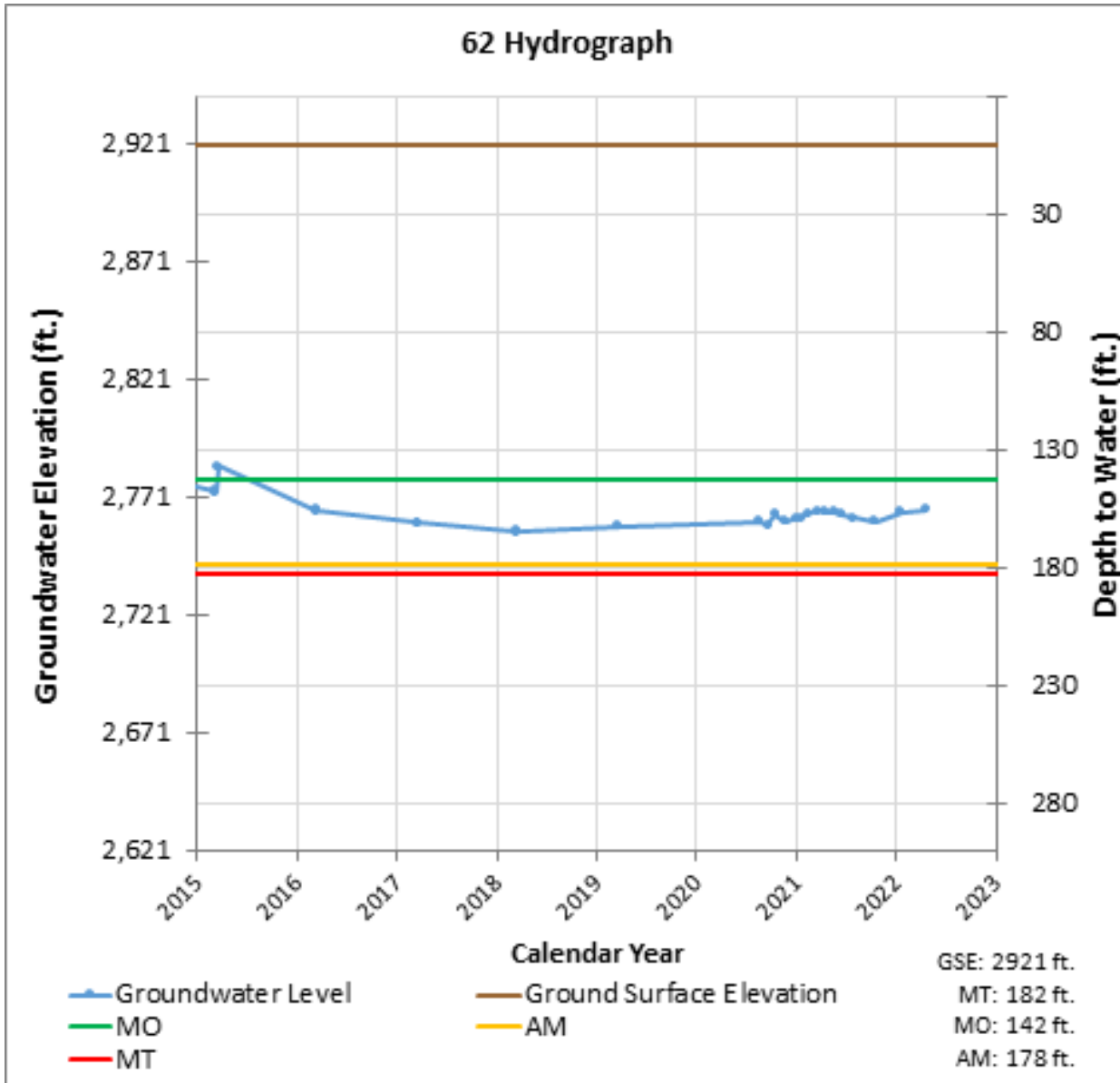


Figure 4: Central Region – Well 91

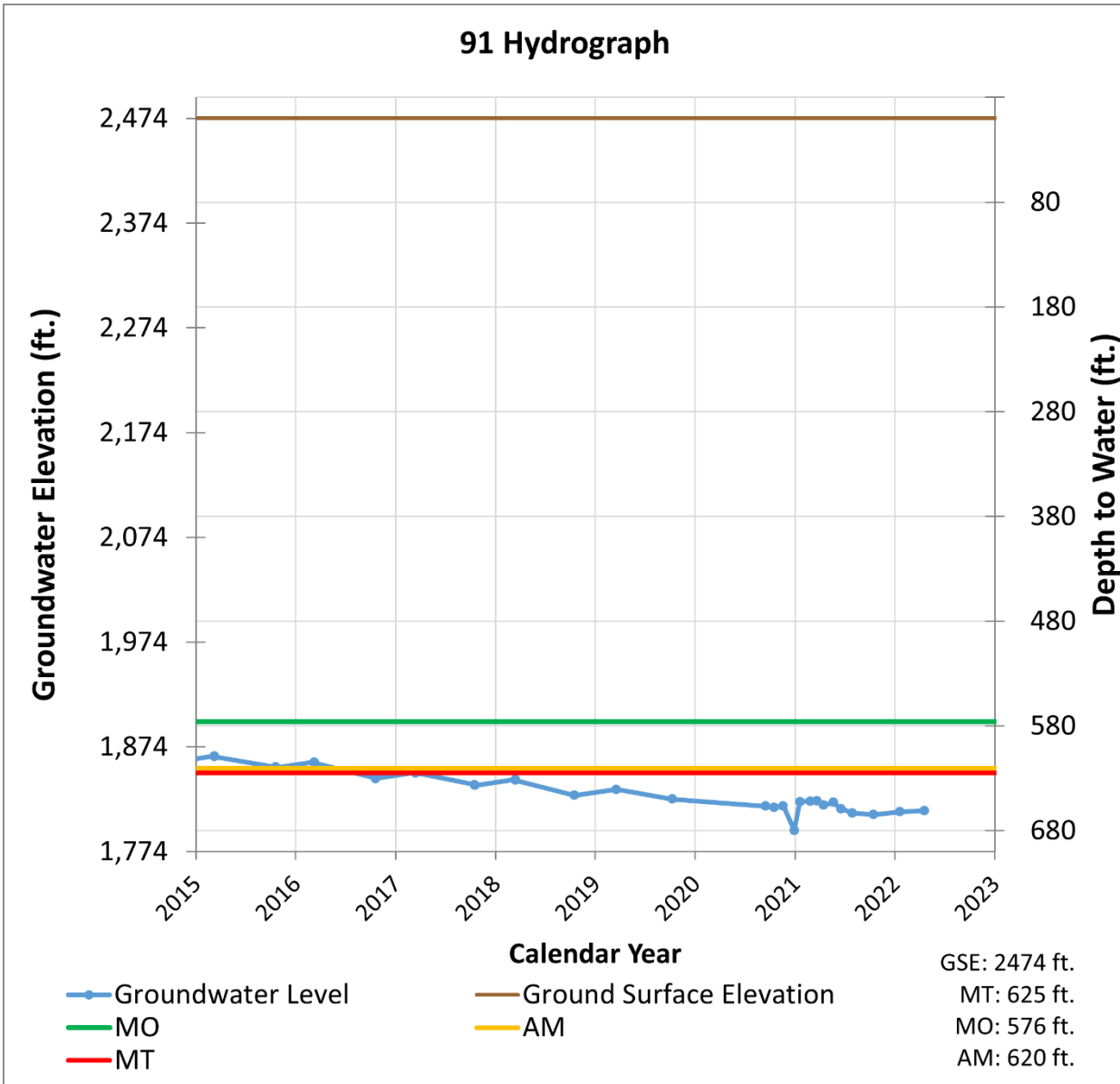


Figure 5: Central Region – Well 74

74 Hydrograph

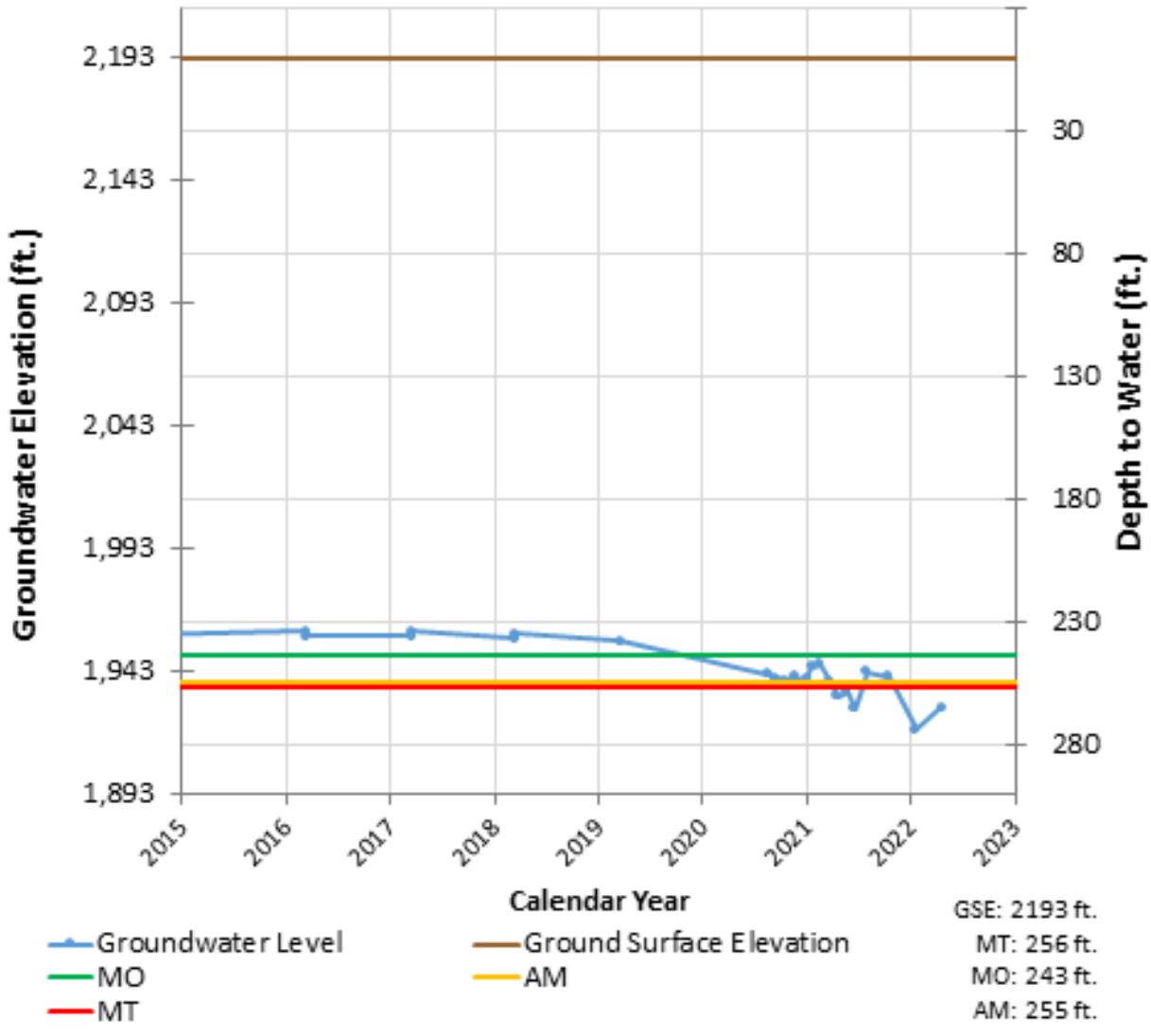


Figure 6: Western Region – Well 571

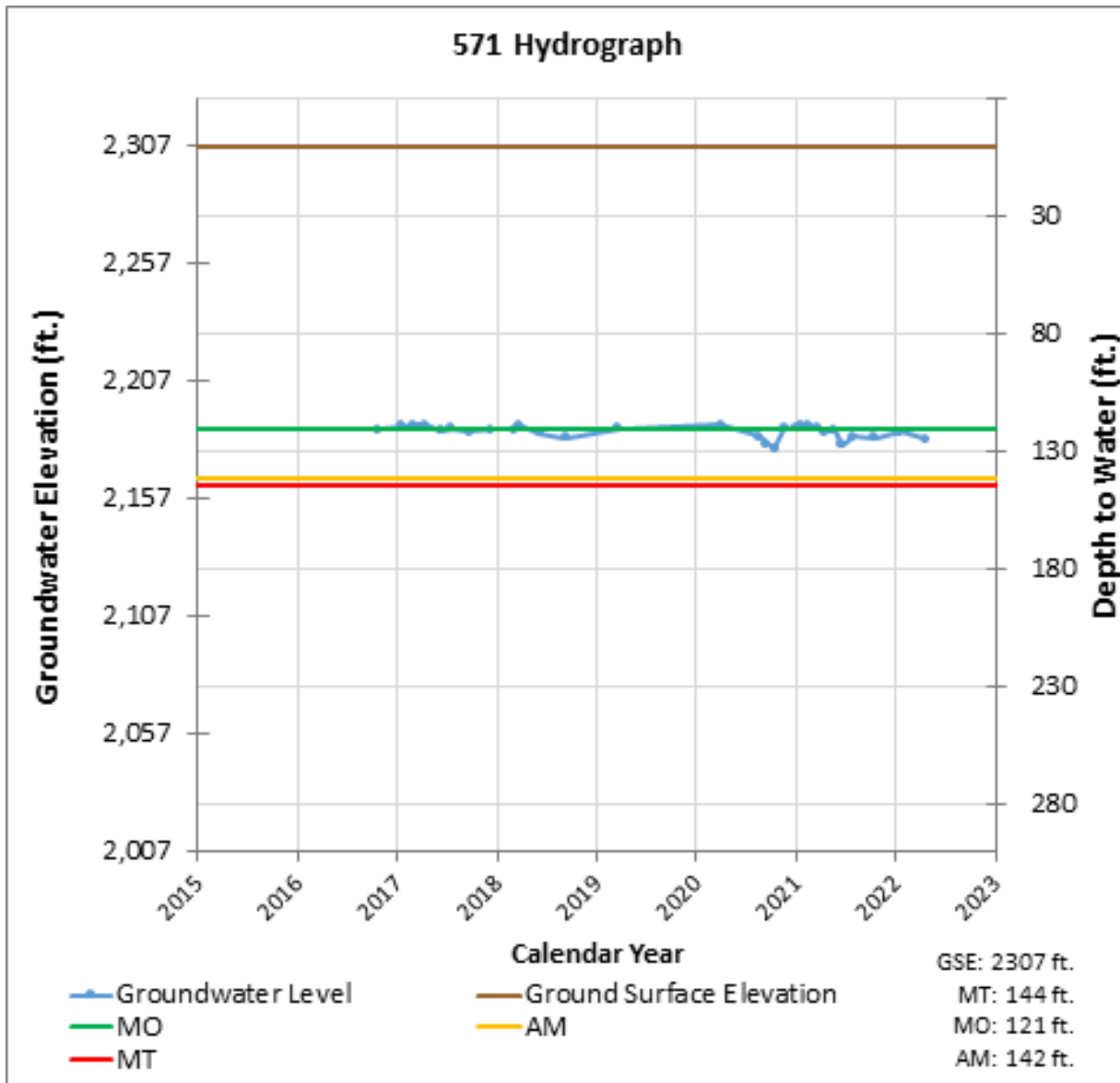
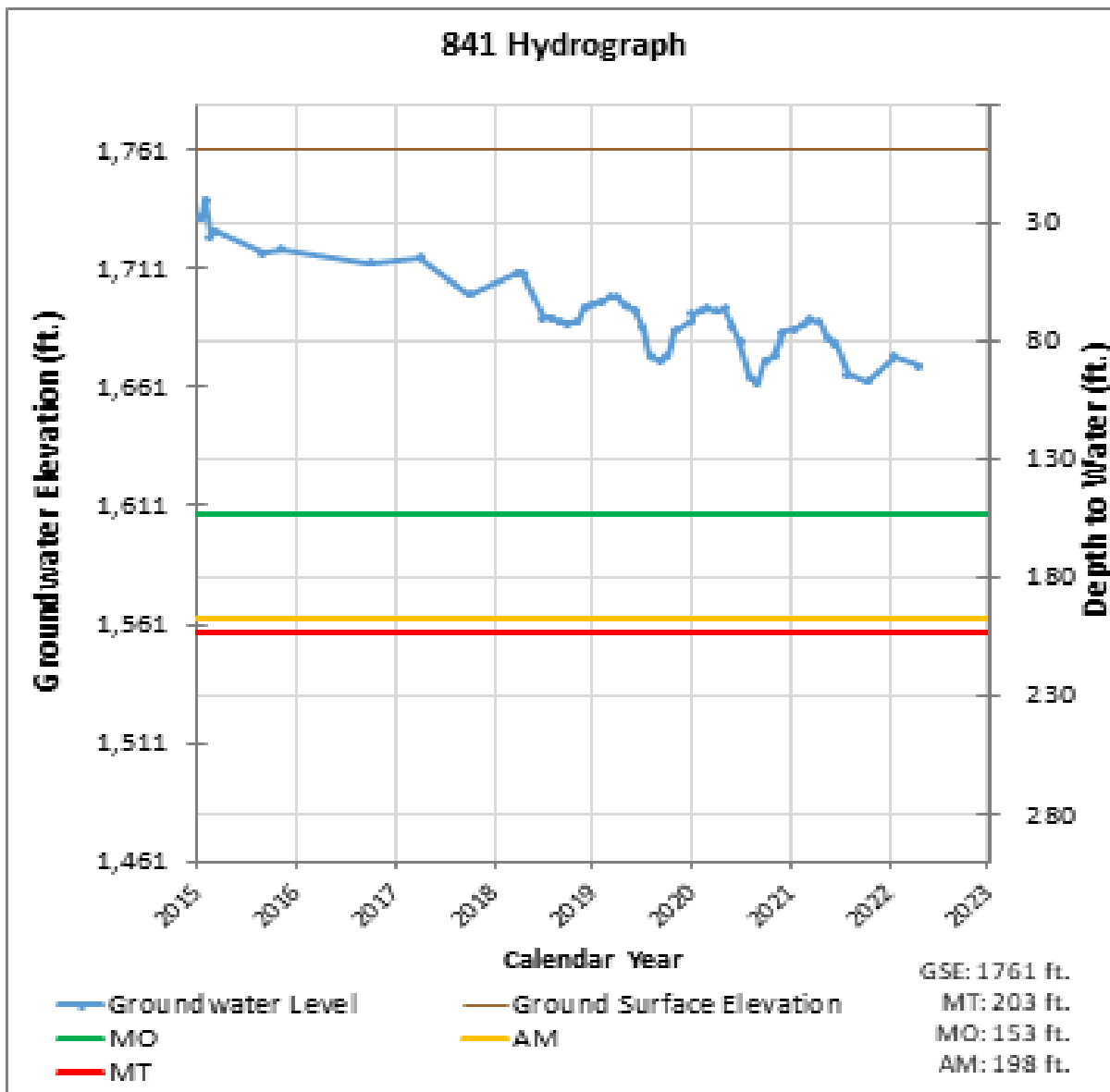


Figure 7: Northwestern Region – Well 841



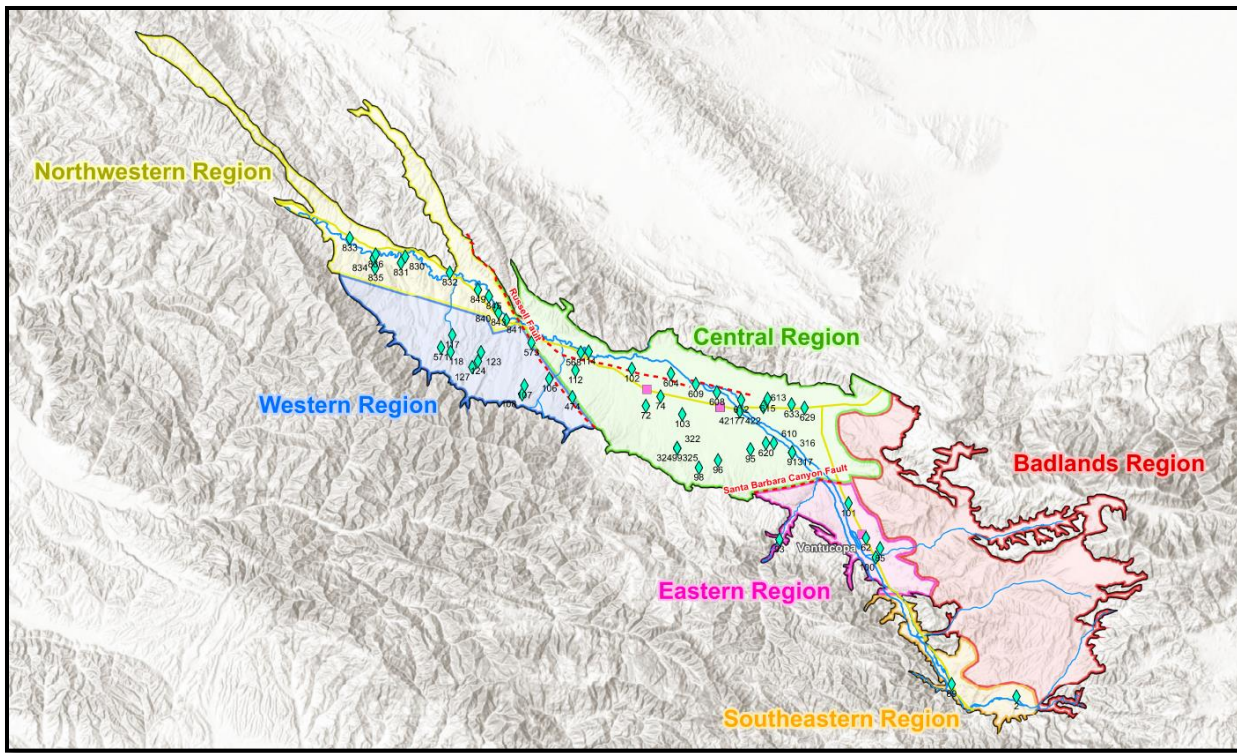


Figure 8: Threshold Regions in the Cuyama Groundwater Basin

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:
 - Wells 2, 98, 124
- Measurement was not possible at the time when the field technician went to take measurements:
 - Wells 101, 604, 833



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