



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

January 2023

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**Cuyama Basin  
Groundwater  
Sustainability Agency**

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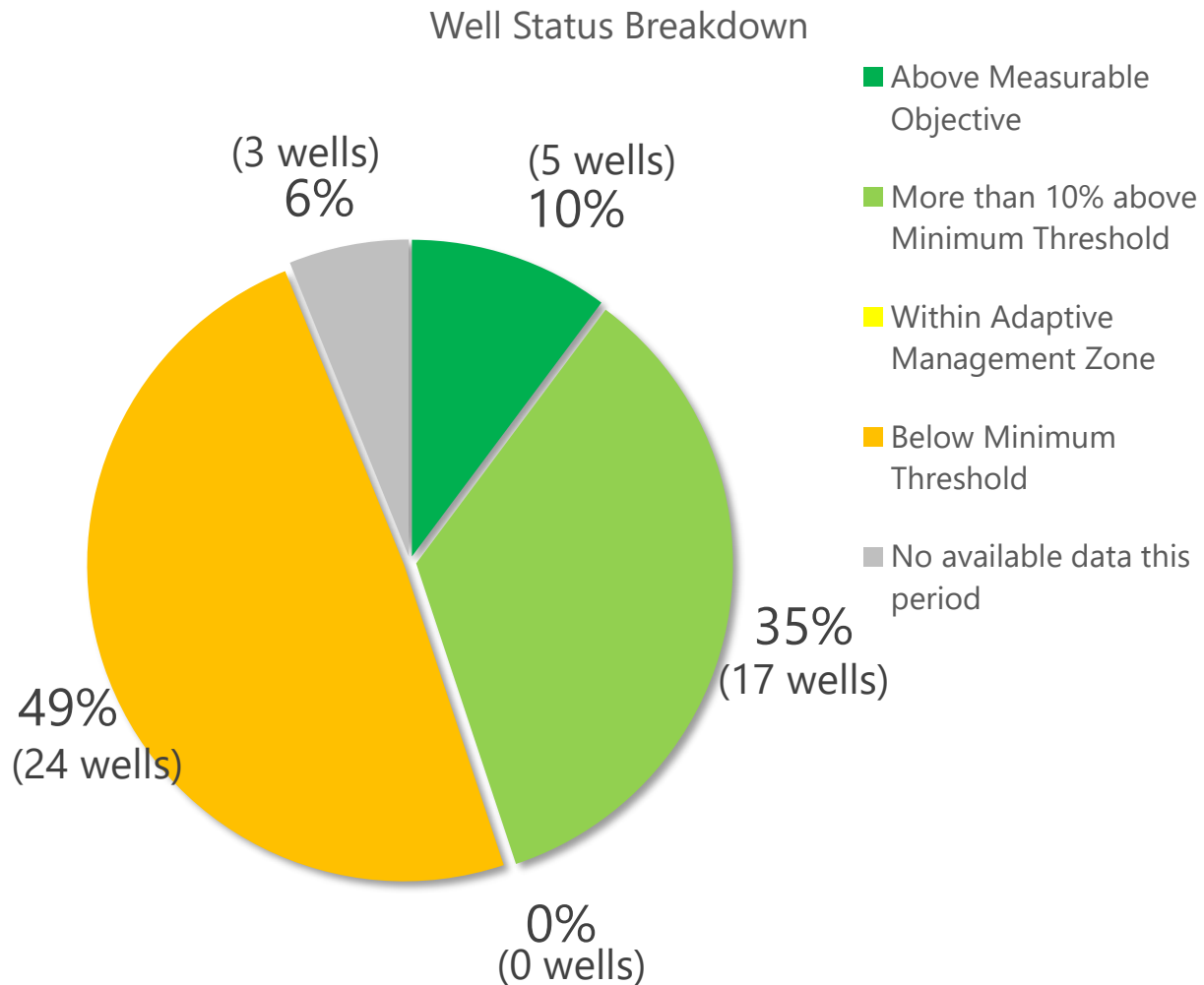
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## 1. INTRODUCTION

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 (SGMA).

## 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 20 or more 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	Jul-22	Oct-22	Jan-23	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	2010	2014	2036	2022	Jan-22	14
74	Central	1932	1939	1949	1919	Jan-22	30
77	Central	1772	1779	1808	1814	Jan-22	-6
91	Central	1812	1805	1807	1812	Jan-22	-5
95	Central	1841	1851	-	1848	Jan-22	-
96	Central	2270	2269	2270	2271	Jan-22	-1
98	Central	-	-	-	-	-	-
99	Central	2178	2158	2160	2222	Jan-22	-62
102	Central	-	1622	-	1622	Jan-22	-
103	Central	2014	2032	2041	1997	Jan-22	44
112	Central	2053	2053	-	2054	Jan-22	-
114	Central	1878	1877	-	-	-	-
316	Central	1811	1803	1806	1812	Jan-22	-6
317	Central	1813	-	-	1812	Jan-22	-
322	Central	2169	2156	2155	2220	Jan-22	-65
324	Central	2187	2178	2181	2218	Jan-22	-37
325	Central	2201	2200	2203	2220	Jan-22	-17
420	Central	1768	1725	1807	1803	Jan-22	4
421	Central	1789	1787	1806	1800	Jan-22	6
474	Central	2203	2203	2206	2204	Jan-22	2

Well	Region	Jul-22	Oct-22	Jan-23	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
568	Central	1852	1851	1828	1867	Jan-22	-39
604	Central	-	-	1655	1674	Jan-22	-19
608	Central	-	1782	-	1779	Jan-22	-
609	Central	1692	1707	1713	1789	Jan-22	-76
610	Central	1801	1808	1812	1814	Jan-22	-2
612	Central	-	1786	1792	1795	Jan-22	-3
613	Central	1792	1794	1798	1814	Jan-22	-16
615	Central	1795	1814	1816	1814	Jan-22	1
629	Central	-	1812	1819	1813	Jan-22	6
633	Central	-	1792	1805	1815	Jan-22	-10
62	Eastern	2760	2757	2761	2765	Jan-22	-4
85	Eastern	2846	2841	2845	2847	Jan-22	-1
100	Eastern	2849	2846	2850	2850	Jan-22	-1
101	Eastern	-	-	-	2635	Jan-22	-
841	Northwestern	1653	1661	1672	1674	Jan-22	-2
845	Northwestern	1633	1638	1644	1646	Jan-22	-2
2	Southeastern	-	-	-	-	-	-
89	Southeastern	3445	3422	3438	3427	Jan-22	11
106	Western	2183	2182	-	2183	Jan-22	-
107	Western	2392	2390	-	2370	Jan-22	-
117	Western	1945	1945	-	1947	Jan-22	-

Well	Region	Jul-22	Oct-22	Jan-23	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
118	Western	2210	2212	2212	2211	Jan-22	2
124	Western	-	-	-	-	-	-
571	Western	2181	2182	2183	2185	Jan-22	-2
573	Western	2012	2012	-	2013	Jan-22	-
830	Far-West Northwestern	1509	1508	1510	-	-	-
832	Far-West Northwestern	1590	1588	1589	1590	Jan-22	-1
833	Far-West Northwestern	1423	-	-	1432	Jan-22	-
836	Far-West Northwestern	1447	1447	1450	1448	Jan-22	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	135	1/23/2023	169	165	124	790	More than 10% above Minimum Threshold	No
74	Central	244	1/23/2023	256	255	243		More than 10% above Minimum Threshold	No
77	Central	478	1/23/2023	450	445	400	980	Below Minimum Threshold (29 months)	No
91	Central	667	1/24/2023	625	620	576	980	Below Minimum Threshold (29 months)	No
95	Central	-	-	573	570	538	805	No available data this period (below MT in Oct 2022, 29 months)	No
96	Central	336	1/24/2023	333	332	325	500	Below Minimum Threshold (26 months)	No
98	Central	-	-	450	449	439	750	No available data this period (no available data in past 18 months)	No
99	Central	353	1/24/2023	311	310	300	750	Below Minimum Threshold (7 months)	No
102	Central	-	-	235	231	197		No available data this period (below MT in Apr 2022, 25 months)	No
103	Central	248	1/24/2023	290	285	235	1030	More than 10% above Minimum Threshold	No
112	Central	-	-	87	87	85	441	No available data this period (>10% above MT in Oct 2022)	No
114	Central	-	-	47	47	45	58	No available data this period (below MT in Oct 2022, 10 months)	No
316	Central	668	1/24/2023	623	618	574	830	Below Minimum Threshold (29 months)	No



Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
317	Central	-	-	623	618	573	700	No available data this period (below MT in Jul 2022, 29 months)	No
322	Central	358	1/24/2023	307	306	298	850	Below Minimum Threshold (7 months)	No
324	Central	331	1/24/2023	311	310	299	560	Below Minimum Threshold (7 months)	No
325	Central	310	1/24/2023	300	299	292	380	Below Minimum Threshold (7 months)	No
420	Central	479	1/23/2023	450	445	400	780	Below Minimum Threshold (29 months)	No
421	Central	480	1/23/2023	446	441	398	620	Below Minimum Threshold (29 months)	No
474	Central	163	1/24/2023	188	186	169	213	Above Measurable Objective	No
568	Central	76	1/23/2023	37	37	36	188	Below Minimum Threshold (20 months)	No
604	Central	469	1/23/2023	526	522	487	924	Above Measurable Objective	No
608	Central	-	1/23/2023	436	433	407	745	No available data this period (below MT in Oct 2022, 4 months)	No
609	Central	454	1/23/2023	458	454	421	970	More than 10% above Minimum Threshold	No
610	Central	630	1/24/2023	621	618	591	780	Below Minimum Threshold (21 months)	No
612	Central	474	1/23/2023	463	461	440	1070	Below Minimum Threshold (13 months)	No
613	Central	533	1/23/2023	503	500	475	830	Below Minimum Threshold (27 months)	No
615	Central	512	1/23/2023	500	497	468	865	Below Minimum Threshold (26 months)	No
629	Central	560	1/23/2023	559	556	527	1000	Below Minimum Threshold (22 months)	No

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
633	Central	559	1/23/2023	547	542	493	1000	Below Minimum Threshold (22 months)	No
62	Eastern	160	1/23/2023	182	178	142	212	More than 10% above Minimum Threshold	No
85	Eastern	202	1/23/2023	233	225	147	233	More than 10% above Minimum Threshold	No
100	Eastern	154	1/23/2023	181	175	125	284	More than 10% above Minimum Threshold	No
101	Eastern	-	1/23/2023	111	108	81	200	No available data this period (>10% above MT in Jan 2022)	No
841	Northwestern	89	1/23/2023	203	198	153	600	Above Measurable Objective	No
845	Northwestern	68	1/23/2023	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	24	1/23/2023	64	62	44	125	Above Measurable Objective	No
106	Western	-	1/24/2023	154	153	141	228	No available data this period (>10% above MT in Oct 2022)	No
107	Western	-	-	91	89	72	200	No available data this period (below MT in Oct 2022, 4 months)	No
117	Western	-	1/24/2023	160	159	151	212	No available data this period (>10% above MT in Oct 2022)	No
118	Western	58	1/24/2023	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	124	1/24/2023	144	142	121	280	More than 10% above Minimum Threshold	No
573	Western	-	-	118	113	68	404	No available data this period (>10% above MT in Oct 2022)	No

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
830	Far-West Northwestern	61	1/24/2023	59	59	56	77	Below Minimum Threshold (19 months)	No
832	Far-West Northwestern	41	1/24/2023	45	44	30	132	More than 10% above Minimum Threshold	No
833	Far-West Northwestern	-	1/24/2023	96	89	24	504	No available data this period (> 10% above MT in Jul 2022)	No
836	Far-West Northwestern	36	1/24/2023	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.



#### 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**

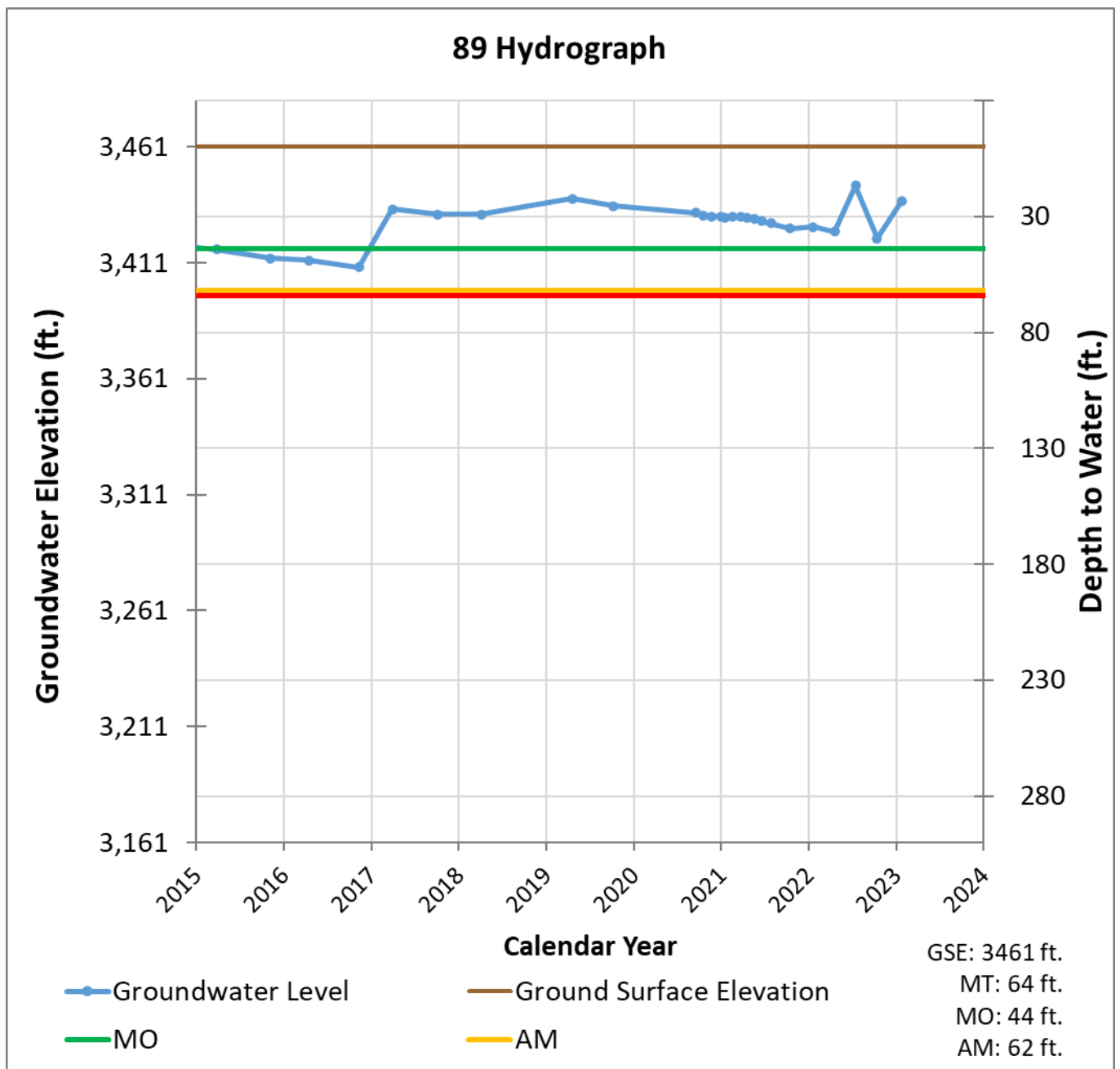


Figure 3: Eastern Region – Well 62

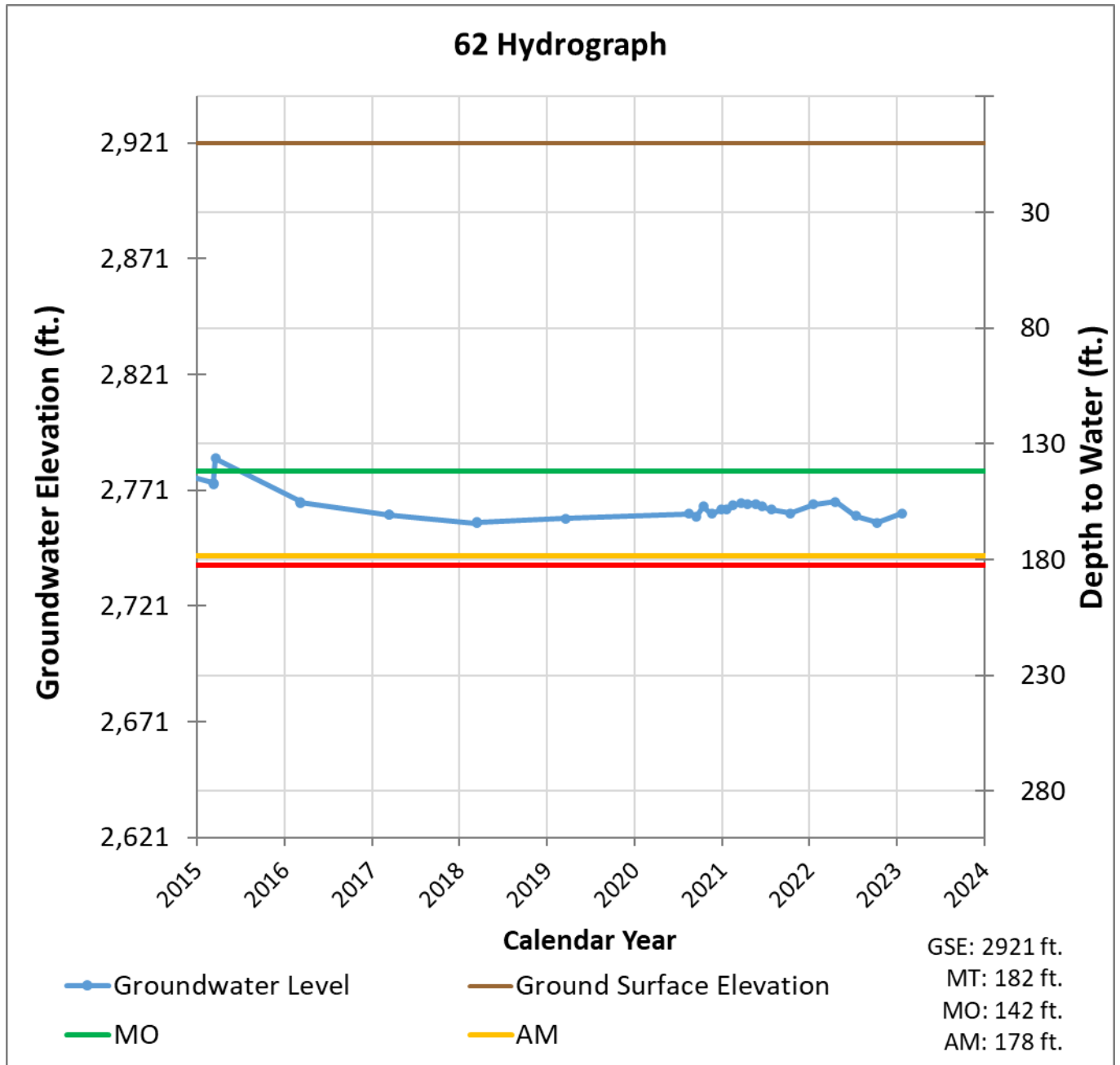


Figure 4: Central Region – Well 91

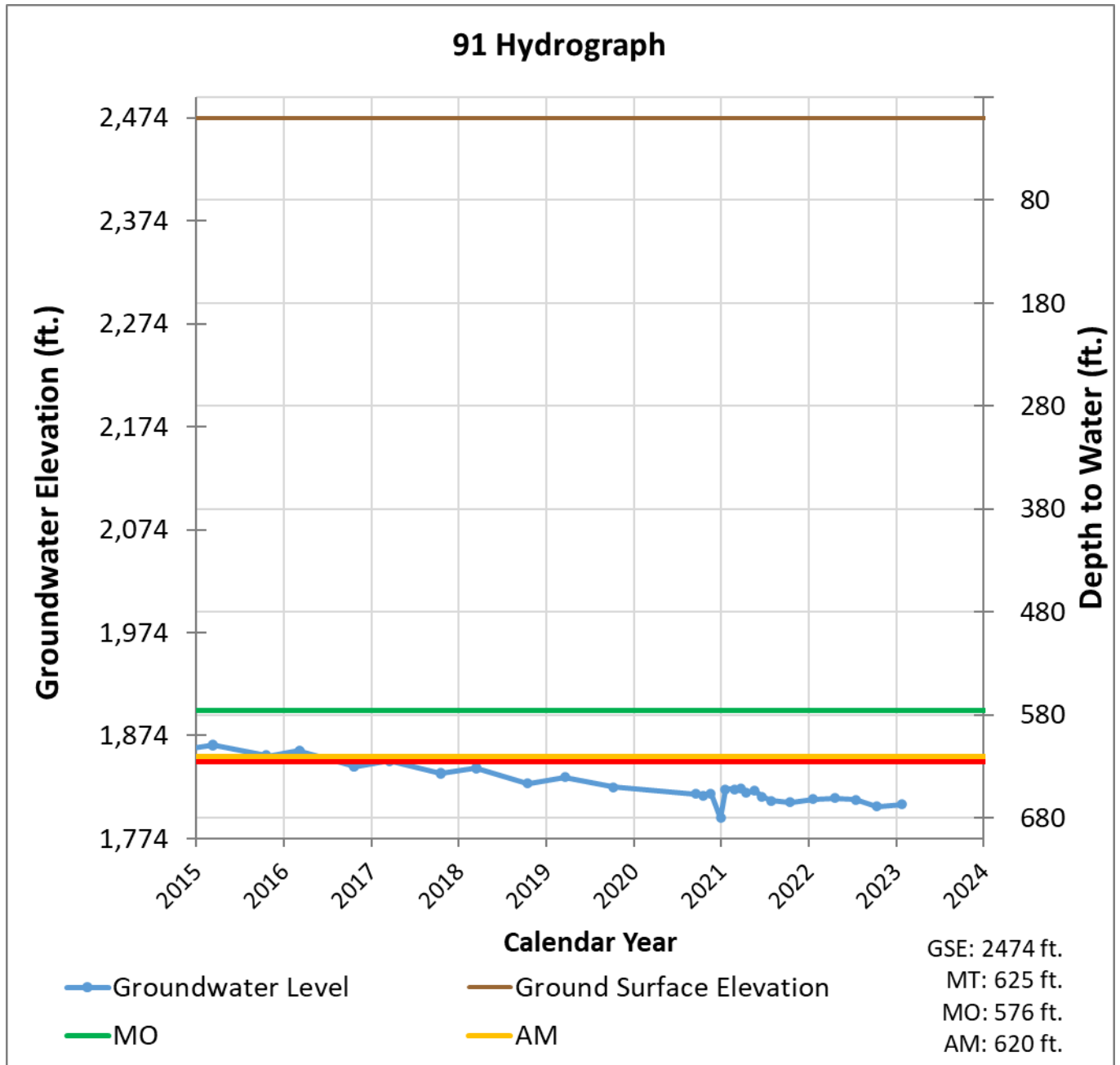


Figure 5: Central Region – Well 74

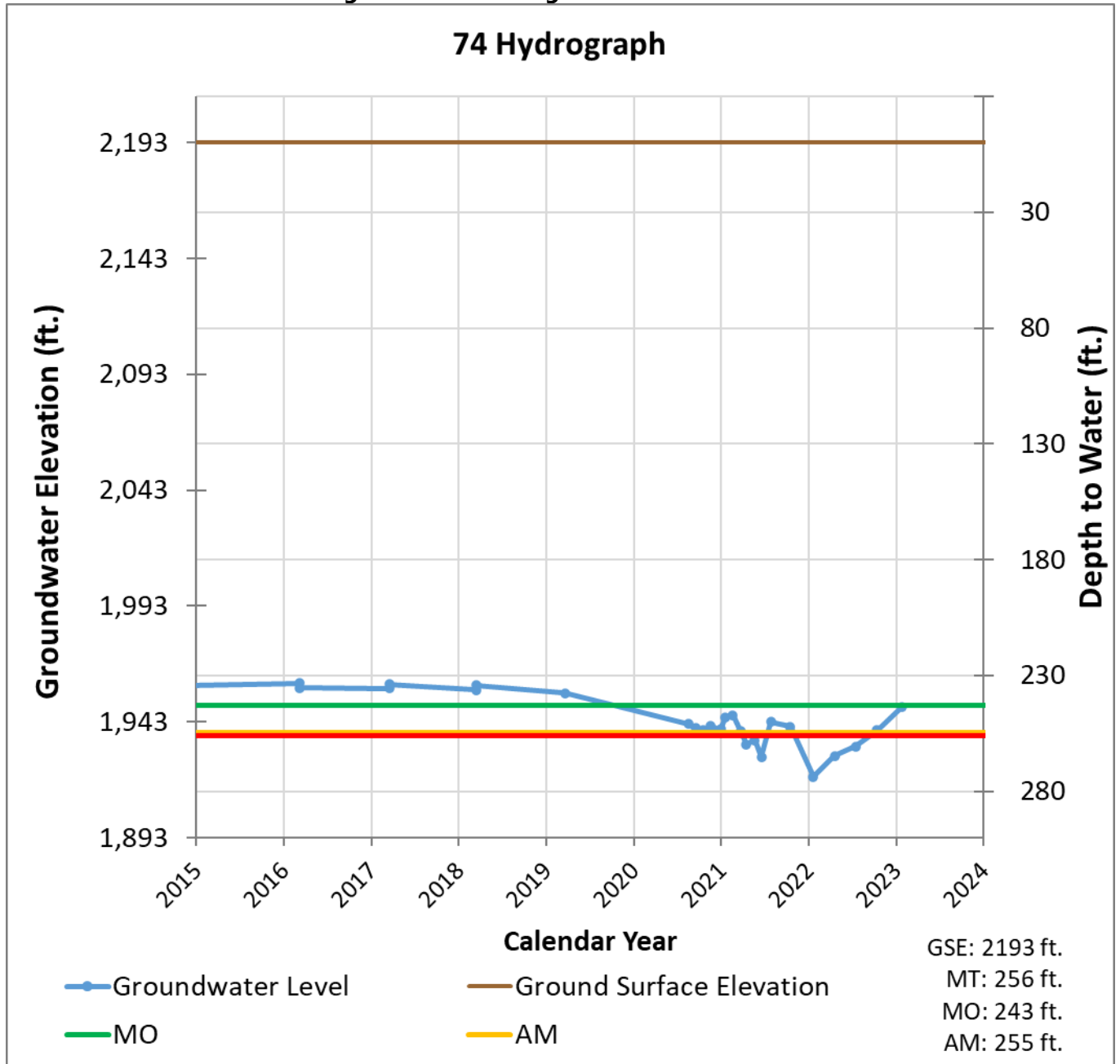




Figure 6: Western Region – Well 571

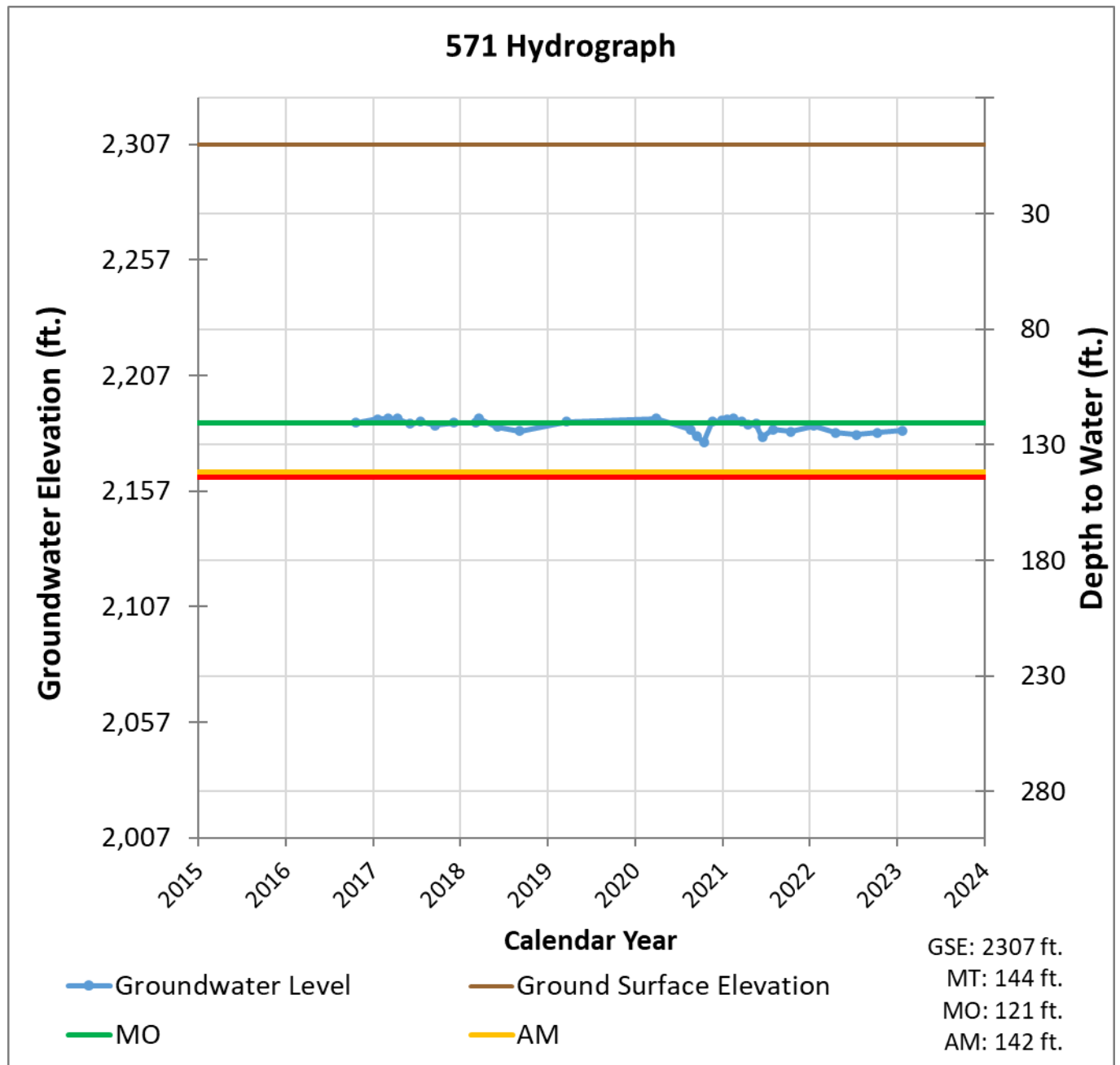
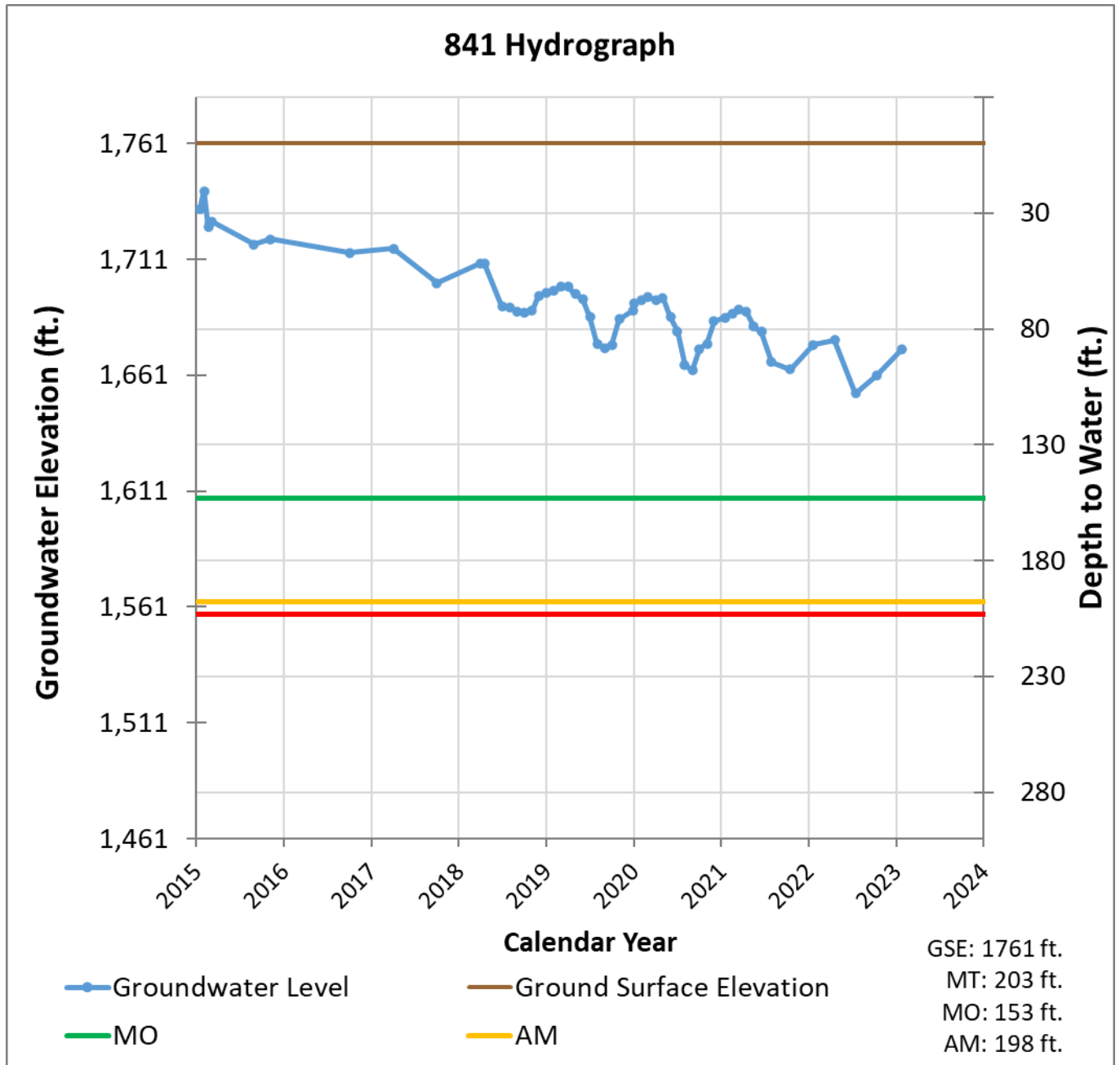
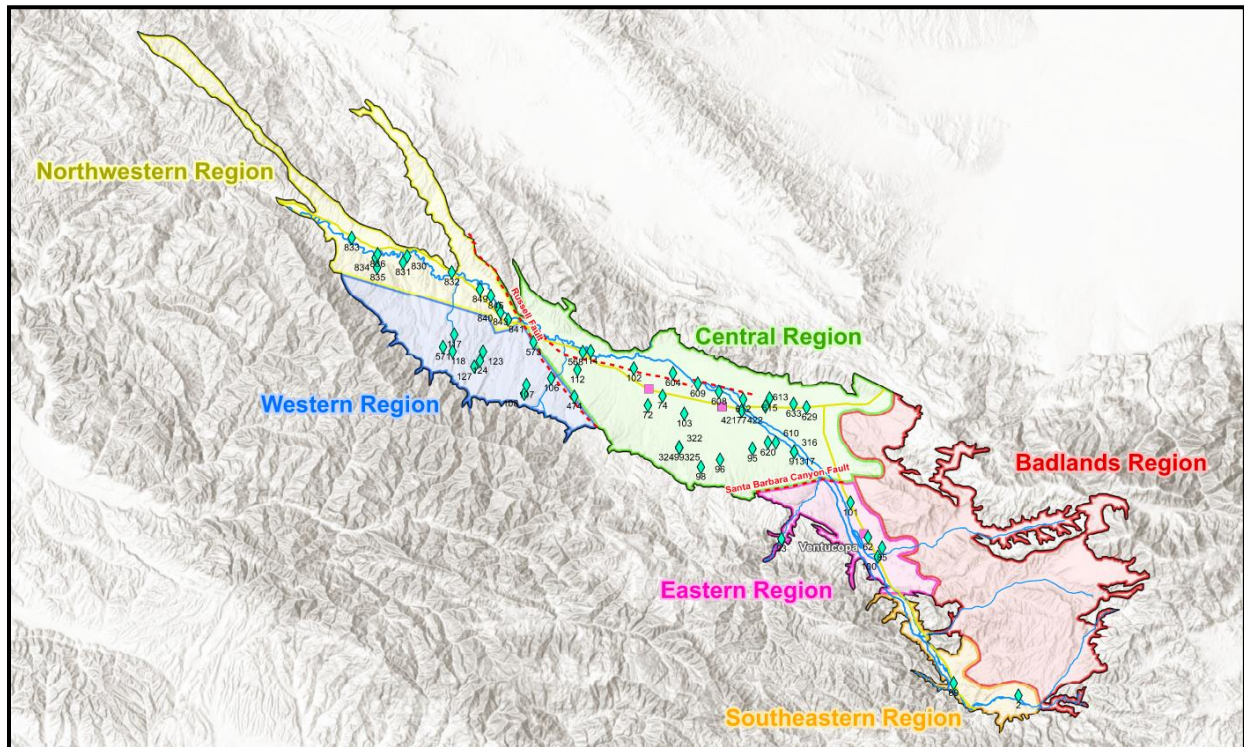


Figure 7: Northwestern Region – Well 841





**Figure 8: Threshold Regions in the Cuyama Groundwater Basin**

## 5. MONITORING NETWORK UPDATES

As shown in Table 2, there are 15 wells with no measurement during the current monitoring period. These “no measurement codes” can have different causes as described below.

- Access agreements have not been established with the landowner:
  - Wells 2, 98, 124
- Transducer data was not able to be downloaded:
  - Wells 102, 317
- Measurement was not possible at the time when the field technician went to take measurements:
  - Wells 95, 101, 106, 107, 112, 114, 117, 573, 608, 833



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