



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

January 2024

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**Cuyama Basin
Groundwater
Sustainability Agency**

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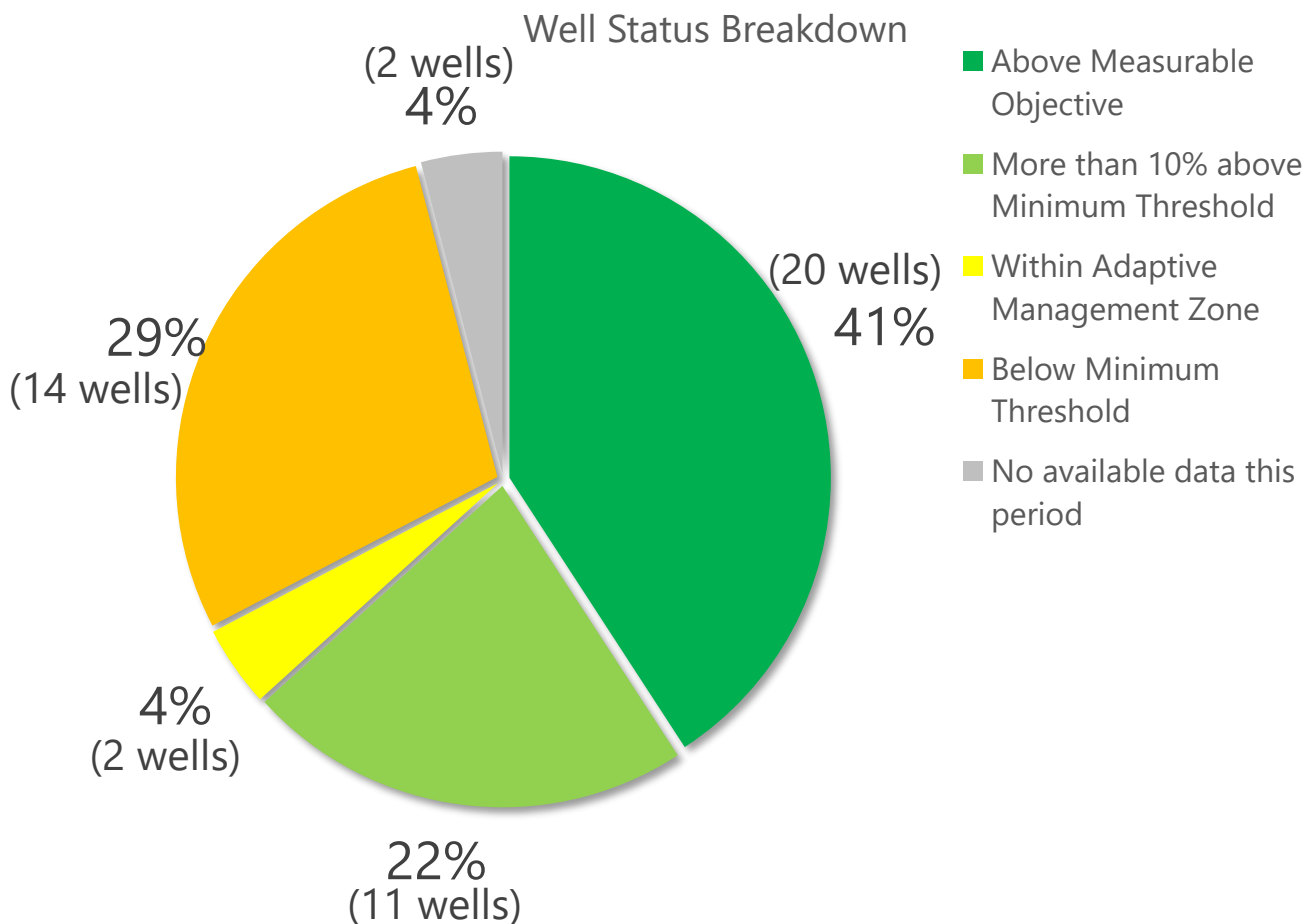
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1. INTRODUCTION

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



There are currently 14 wells with groundwater levels exceeding minimum thresholds. 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, less than 30% of representative monitoring wells (i.e. 15 wells) are below the minimum threshold.

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 are also 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-23	Oct-23	Jan-24	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	2016	2017	2027	2036	Jan-23	-10
74	Central	1949	1940	1940	1949	Jan-23	-9
77	Central	1781	1793	1804	1808	Jan-23	-4
91	Central	1802	1800	1811	1807	Jan-23	4
95	Central	1837	1841	1850	-	-	-
96	Central	2269	2270	2273	2270	Jan-23	3
98	Central	-	-	-	-	-	-
99	Central	2181	2223	2216	2160	Jan-23	56
102	Central	1598	1758	-	-	-	-
103	Central	2035	2044	2046	2041	Jan-23	5
112	Central	2053	2053	2041	-	-	-
114	Central	-	-	1879	-	-	-
316	Central	1803	1799	1810	1806	Jan-23	4
317	Central	1805	1801	1811	-	-	-
322	Central	2174	2222	2216	2155	Jan-23	61
324	Central	2189	2221	2215	2181	Jan-23	33
325	Central	2202	2222	2215	2203	Jan-23	12
420	Central	1780	1792	1803	1807	Jan-23	-4
421	Central	1787	1793	1802	1806	Jan-23	-4
474	Central	2206	-	2228	2206	Jan-23	22

Well	Region	Jul-23	Oct-23	Jan-24	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
568	Central	1869	1867	1874	1828	Jan-23	46
604	Central	1669	1684	1655	1655	Jan-23	0
608	Central	1799	1790	-	-	-	-
609	Central	1727	1725	1721	1713	Jan-23	9
610	Central	1806	1805	1808	1812	Jan-23	-4
612	Central	1779	1788	1797	1792	Jan-23	5
613	Central	1780	1801	1799	1798	Jan-23	1
615	Central	1812	1809	1808	1816	Jan-23	-8
629	Central	1845	1848	1817	1819	Jan-23	-2
633	Central	1851	1798	1796	1805	Jan-23	-9
62	Eastern	2783	2789	2793	2761	Jan-23	33
85	Eastern	2848	2870	2883	2845	Jan-23	38
100	Eastern	2911	2909	2911	2850	Jan-23	62
101	Eastern	2634	2635	2653	-	-	-
841	Northwestern	1680	1692	1706	1672	Jan-23	34
845	Northwestern	1638	1637	1641	1644	Jan-23	-3
2	Southeastern	3702	3698	3697	-	-	-
89	Southeastern	3440	3432	3390	3438	Jan-23	-48
106	Western	2184	2185	2175	-	-	-
107	Western	2414	-	2422	-	-	-
117	Western	1947	1946	1947	-	-	-

Well	Region	Jul-23	Oct-23	Jan-24	Last Year		Annual Elevation Change (ft)
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/ Year	
118	Western	2216	2217	2211	2212	Jan-23	-1
124	Western	-	-	-	-	-	-
571	Western	2238	2235	2240	2183	Jan-23	57
573	Western	2015	2015	2010	-	-	-
830	Far-West Northwestern	1523	1522	1512	1510	Jan-23	2
832	Far-West Northwestern	1596	1595	1604	1589	Jan-23	15
833	Far-West Northwestern	1427	1434	1433	-	-	-
836	Far-West Northwestern	1459	1456	1479	1450	Jan-23	29

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	139	1/17/2024	169	165	124	790	More than 10% above Minimum Threshold	No
74	Central	247	1/18/2024	256	255	243		More than 10% above Minimum Threshold	No
77	Central	481	1/18/2024	450	445	400	980	Below Minimum Threshold (41 months)	No
91	Central	670	1/18/2024	625	620	576	980	Below Minimum Threshold (41 months)	No
95	Central	606	1/18/2024	573	570	538	805	Below Minimum Threshold (41 months)	No
96	Central	333	1/18/2024	333	332	325	500	No data available this period (Within AMZ in Oct 2023)	No
98	Central	-	-	450	449	439	750	No available data this period	No
99	Central	289	1/18/2024	311	310	300	750	Above Measurable Objective	No
102	Central	-	-	235	231	197		No data available this period (Below MT in Oct 2023, 34 months)	No
103	Central	238	1/18/2024	290	285	235	1030	More than 10% above Minimum Threshold	No
112	Central	85	1/18/2024	87	87	85	441	Above Measurable Objective	No
114	Central	46	1/18/2024	47	47	45	58	More than 10% above Minimum Threshold	No
316	Central	671	1/18/2024	623	618	574	830	Below Minimum Threshold (41 months)	No
317	Central	669	1/18/2024	623	618	573	700	Below Minimum Threshold (41 months)	No

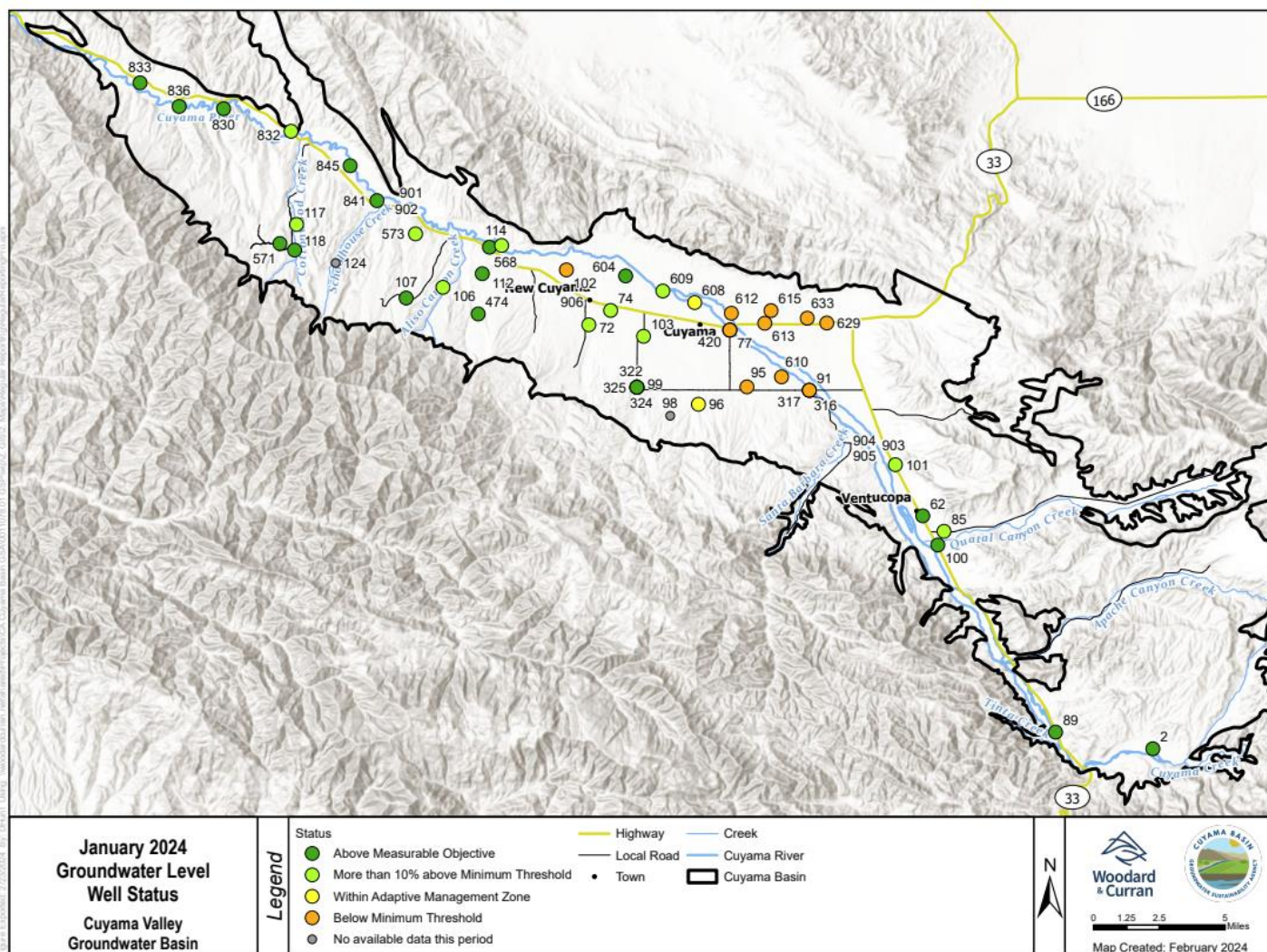
Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
322	Central	290	1/18/2024	307	306	298	850	Above Measurable Objective	No
324	Central	291	1/18/2024	311	310	299	560	Above Measurable Objective	No
325	Central	291	1/18/2024	300	299	292	380	Above Measurable Objective	No
420	Central	482	1/18/2024	450	445	400	780	Below Minimum Threshold (41 months)	No
421	Central	483	1/18/2024	446	441	398	620	Below Minimum Threshold (41 months)	No
474	Central	134	1/18/2024	188	186	169	213	Above Measurable Objective	No
568	Central	34	1/17/2024	37	37	36	188	Above Measurable Objective	No
604	Central	461	1/18/2024	526	522	487	924	Above Measurable Objective	No
608	Central	-	-	436	433	407	745	Within Adaptive Management Zone	No
609	Central	436	1/18/2024	458	454	421	970	More than 10% above Minimum Threshold	No
610	Central	629	1/18/2024	621	618	591	780	Below Minimum Threshold (33 months)	No
612	Central	472	1/18/2024	463	461	440	1070	Below Minimum Threshold (25 months)	No
613	Central	526	1/18/2024	503	500	475	830	Below Minimum Threshold (39 months)	No
615	Central	513	1/18/2024	500	497	468	865	Below Minimum Threshold (38 months)	No
629	Central	561	1/18/2024	559	556	527	1000	Below Minimum Threshold (1 month)	No
633	Central	568	1/18/2024	547	542	493	1000	Below Minimum Threshold (4 months)	No

Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
62	Eastern	124	1/17/2024	182	178	142	212	Above Measurable Objective	No
85	Eastern	164	1/17/2024	233	225	147	233	More than 10% above Minimum Threshold	No
100	Eastern	95	1/17/2024	181	175	125	284	Above Measurable Objective	No
101	Eastern	93	1/17/2024	111	108	81	200	More than 10% above Minimum Threshold	No
841	Northwestern	53	1/20/2024	203	198	153	600	Above Measurable Objective	No
845	Northwestern	68	1/20/2024	203	198	153	380	Above Measurable Objective	No
2	Southeastern	23	1/17/2024	72	70	55	73	Above Measurable Objective	No
89	Southeastern	4	1/17/2024	64	62	44	125	Above Measurable Objective	No
106	Western	142	1/18/2024	154	153	141	228	More than 10% above Minimum Threshold	No
107	Western	69	1/18/2024	91	89	72	200	Above Measurable Objective	No
117	Western	151	1/17/2024	160	159	151	212	More than 10% above Minimum Threshold	No
118	Western	51	1/17/2024	124	117	57	500	Above Measurable Objective	No
124	Western	-	-	73	71	57	161	No available data this period	No
571	Western	74	1/17/2024	144	142	121	280	Above Measurable Objective	No
573	Western	68	1/18/2024	118	113	68	404	More than 10% above Minimum Threshold	No
830	Far-West Northwestern	48	1/17/2024	59	59	56	77	Above Measurable Objective	No
832	Far-West Northwestern	33	1/17/2024	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	21	1/18/2024	96	89	24	504	Above Measurable Objective	No
836	Far-West Northwestern	28	1/18/2024	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 in January 2024



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

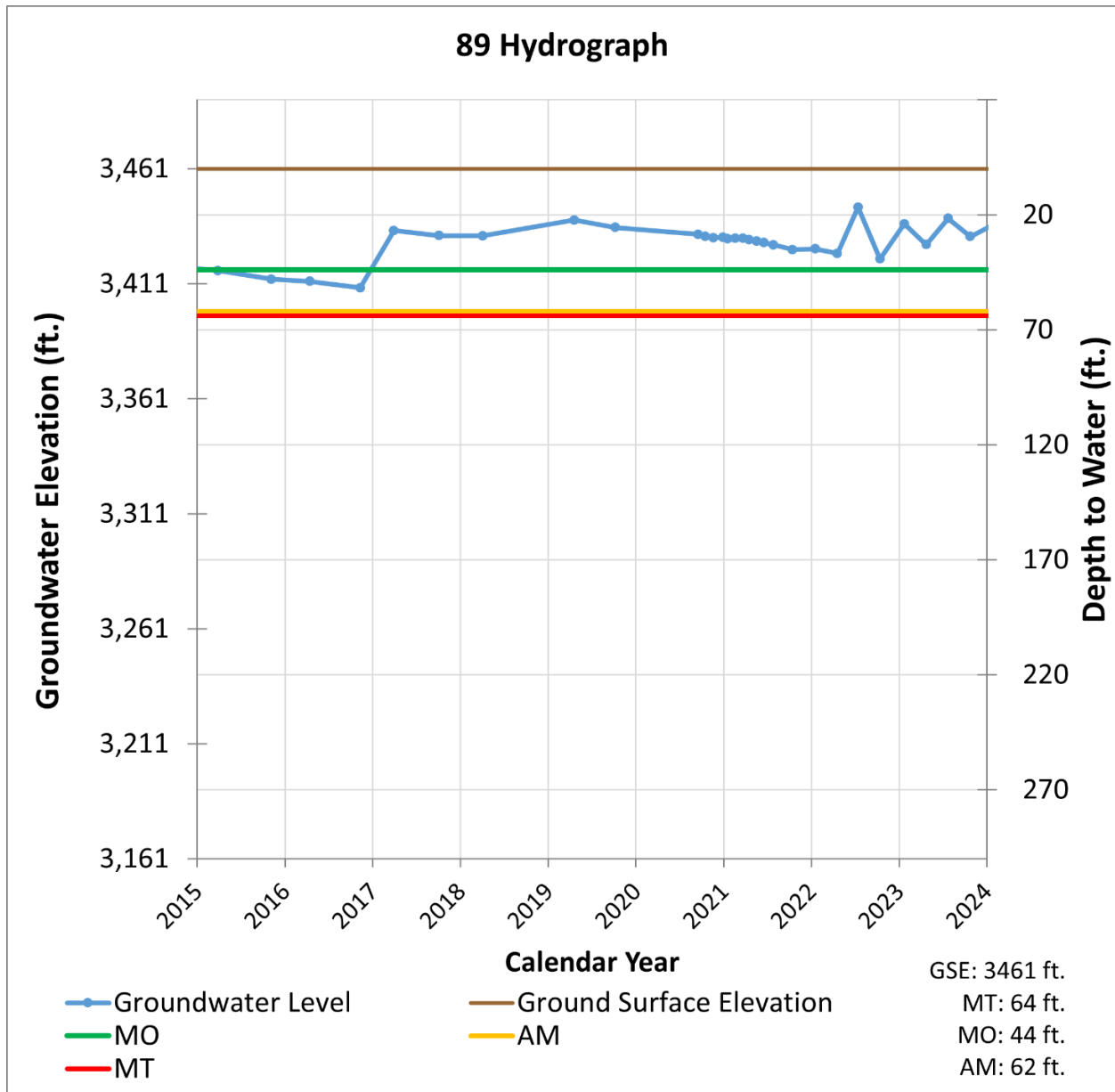


Figure 3: Eastern Region – Well 62

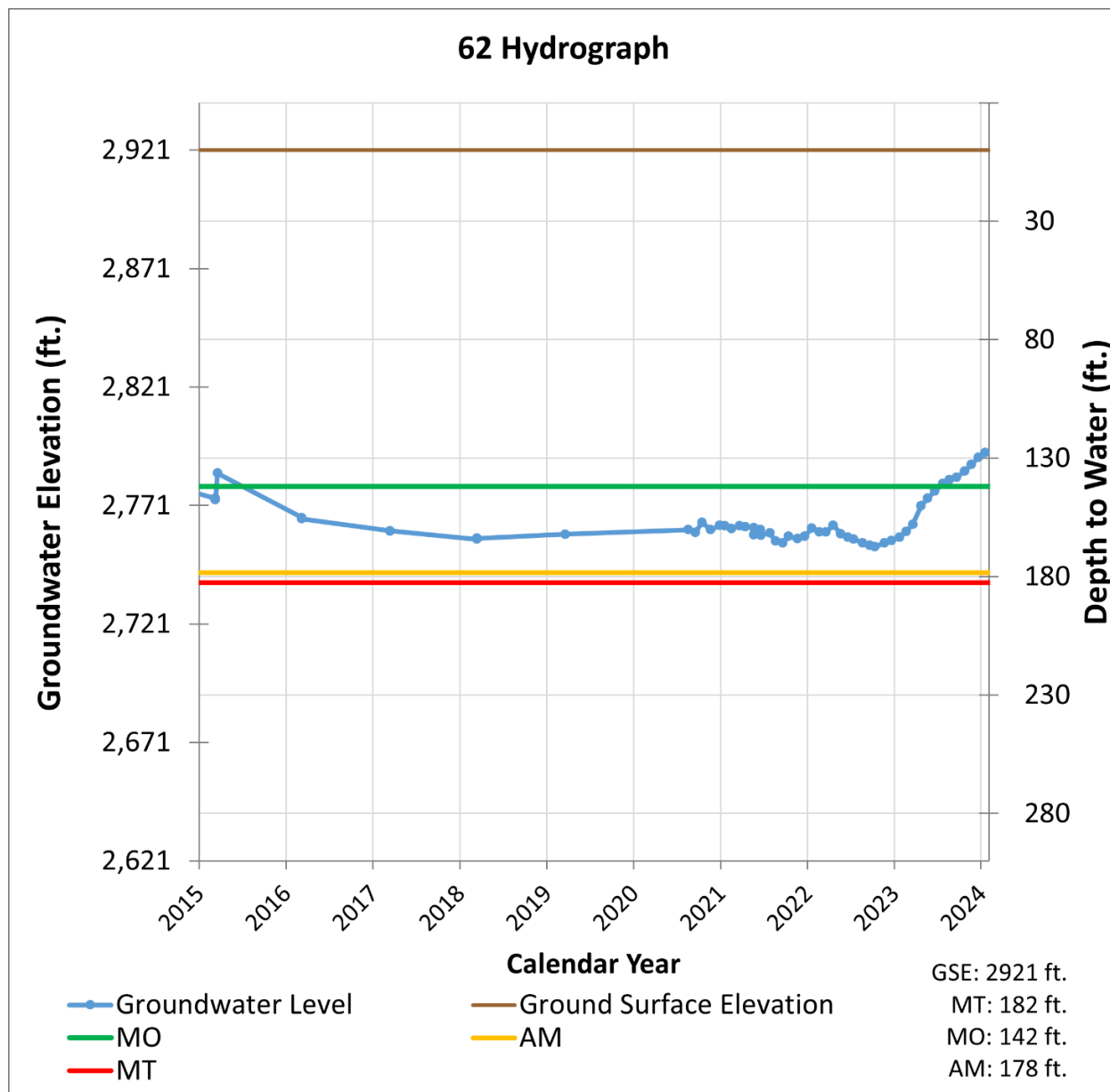


Figure 4: Central Region – Well 91

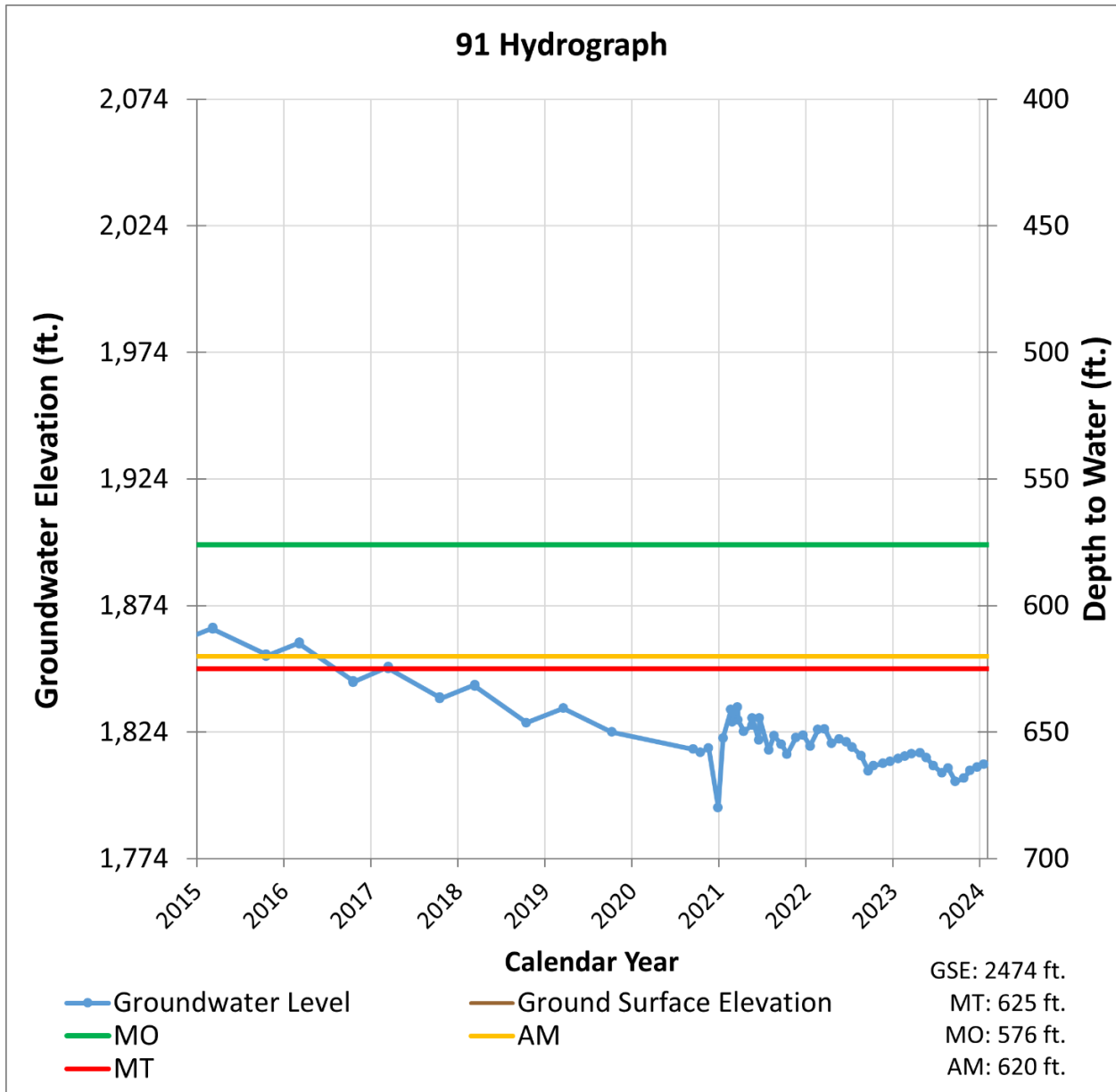


Figure 5: Central Region – Well 74

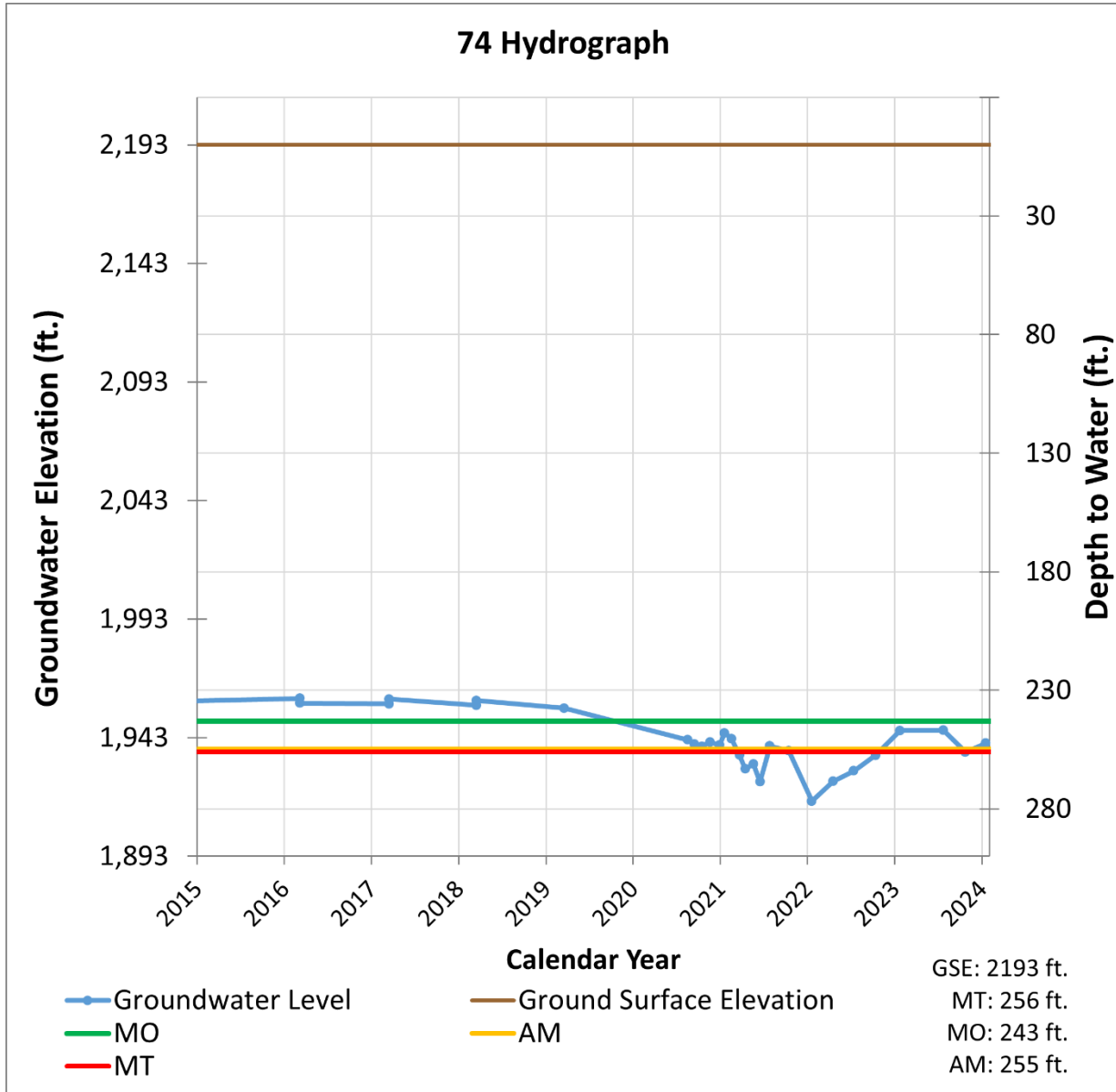


Figure 6: Western Region – Well 571

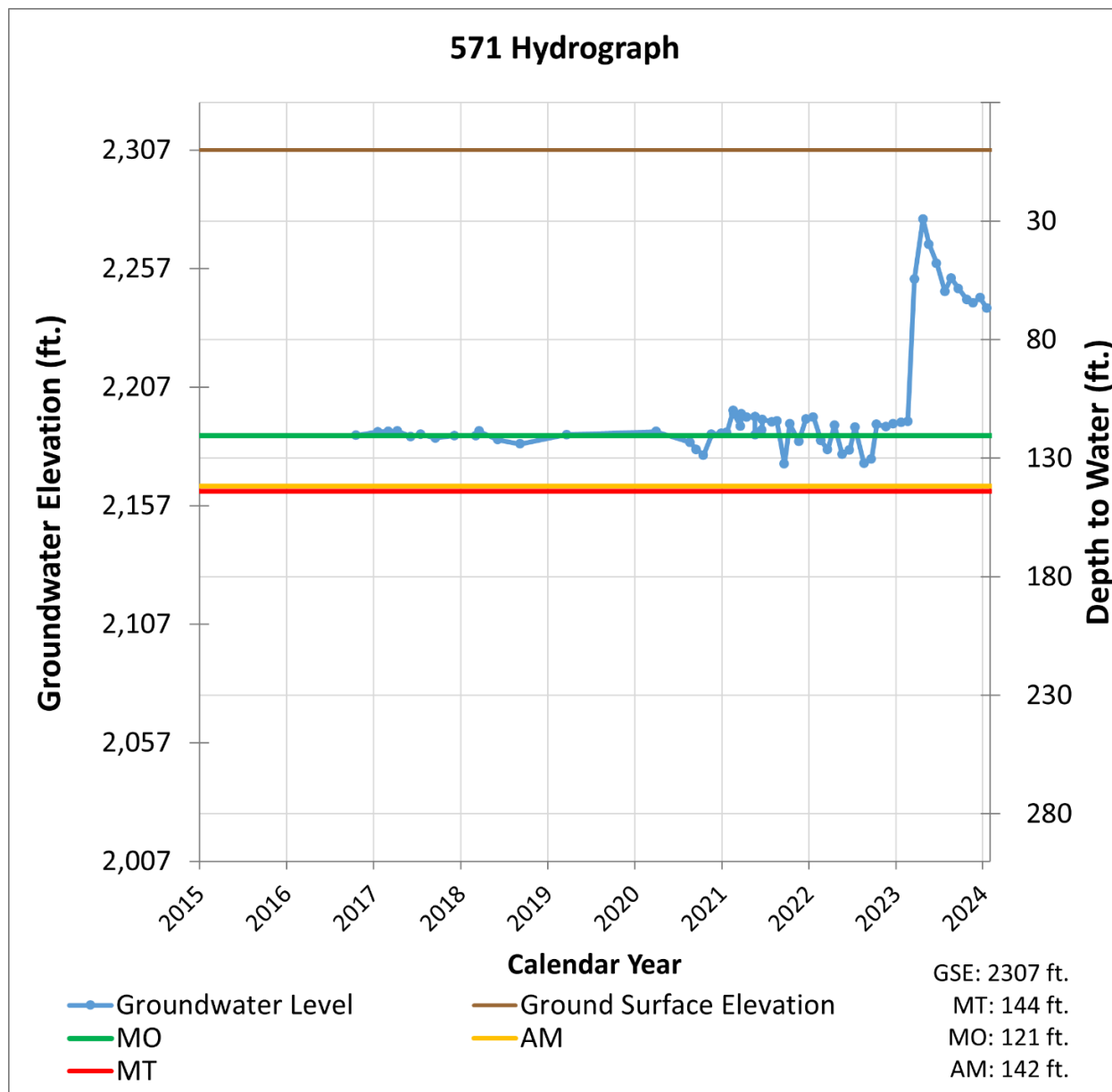
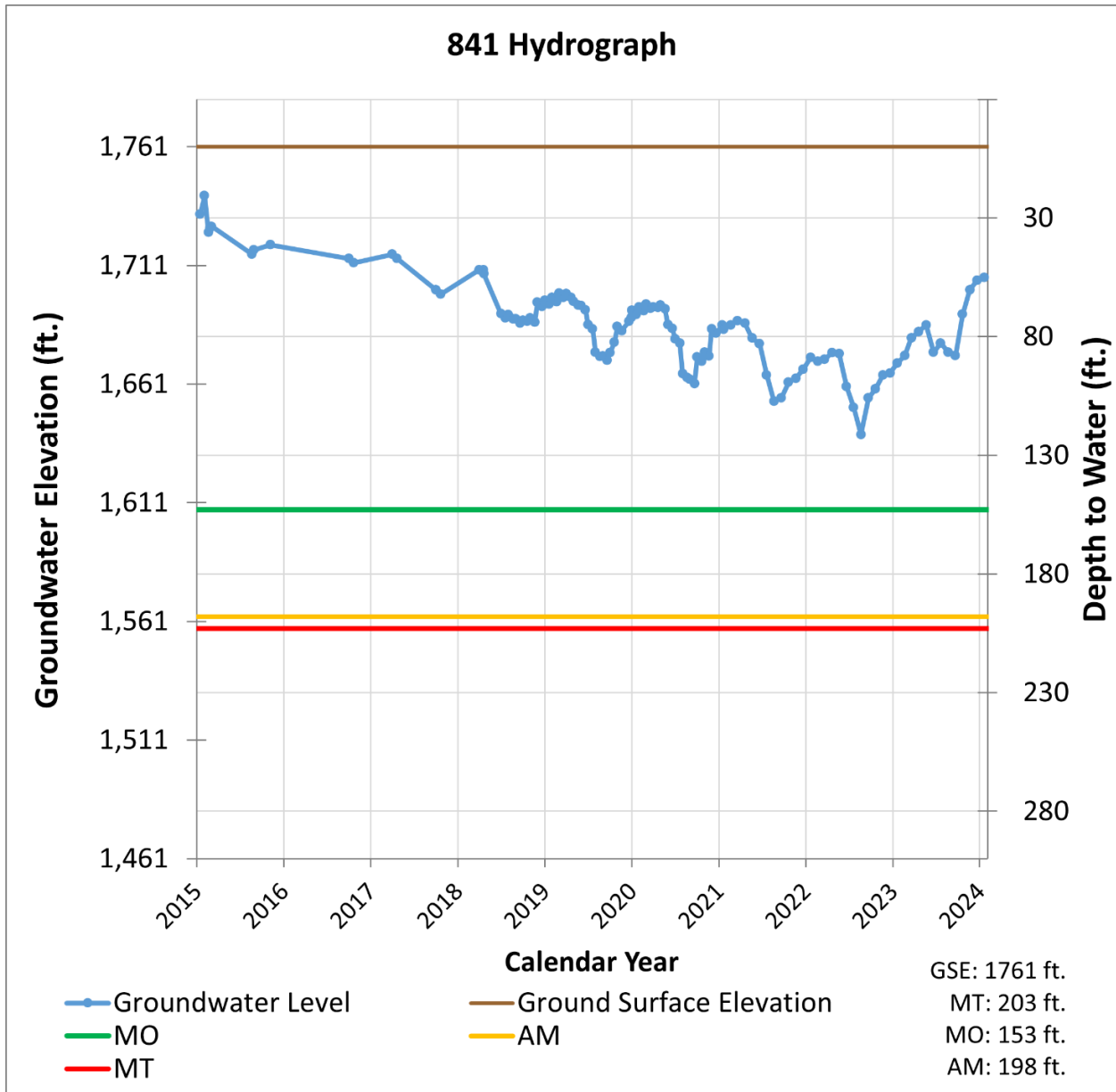


Figure 7: Northwestern Region – Well 841



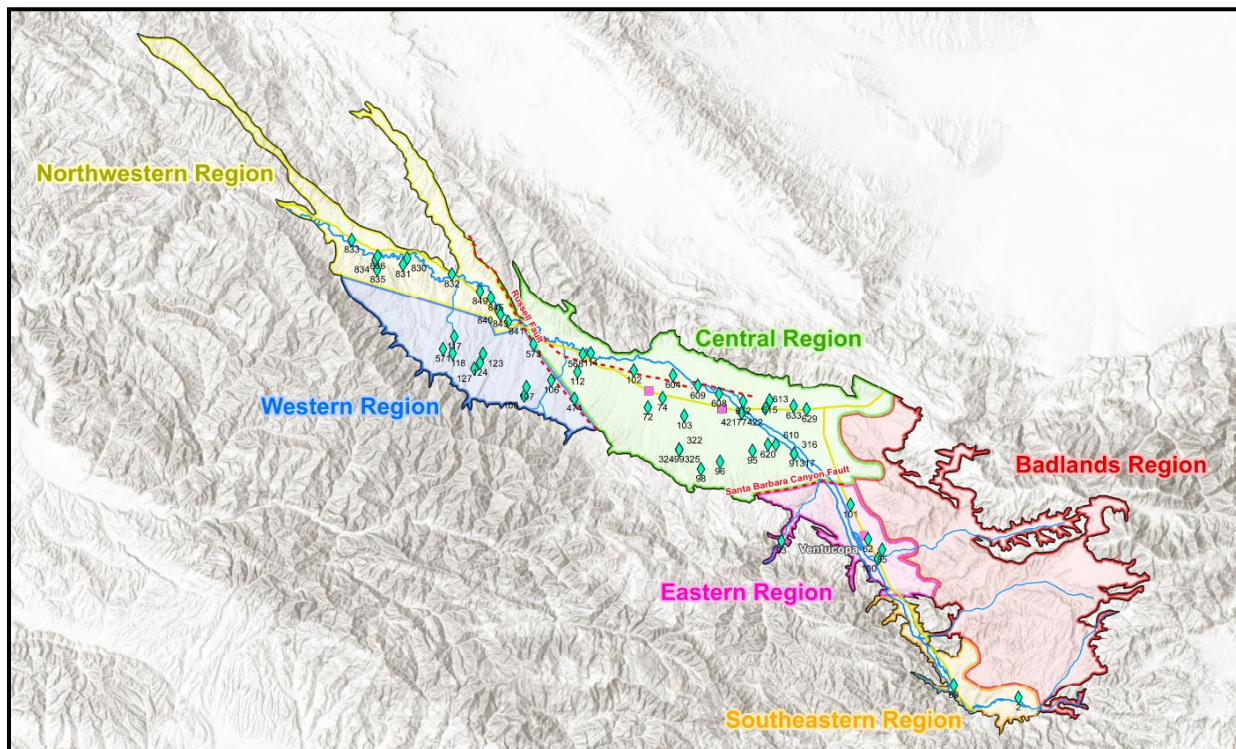


Figure 8: Threshold Regions in the Cuyama Groundwater Basin

5. MONITORING NETWORK UPDATES

As shown in Table 2, there are 4 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 98, 124
- Measurement was not possible at the time when the field technician went to take measurements:
 - Wells 102, 608



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