



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

October 2024

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**Cuyama Basin
Groundwater
Sustainability Agency**

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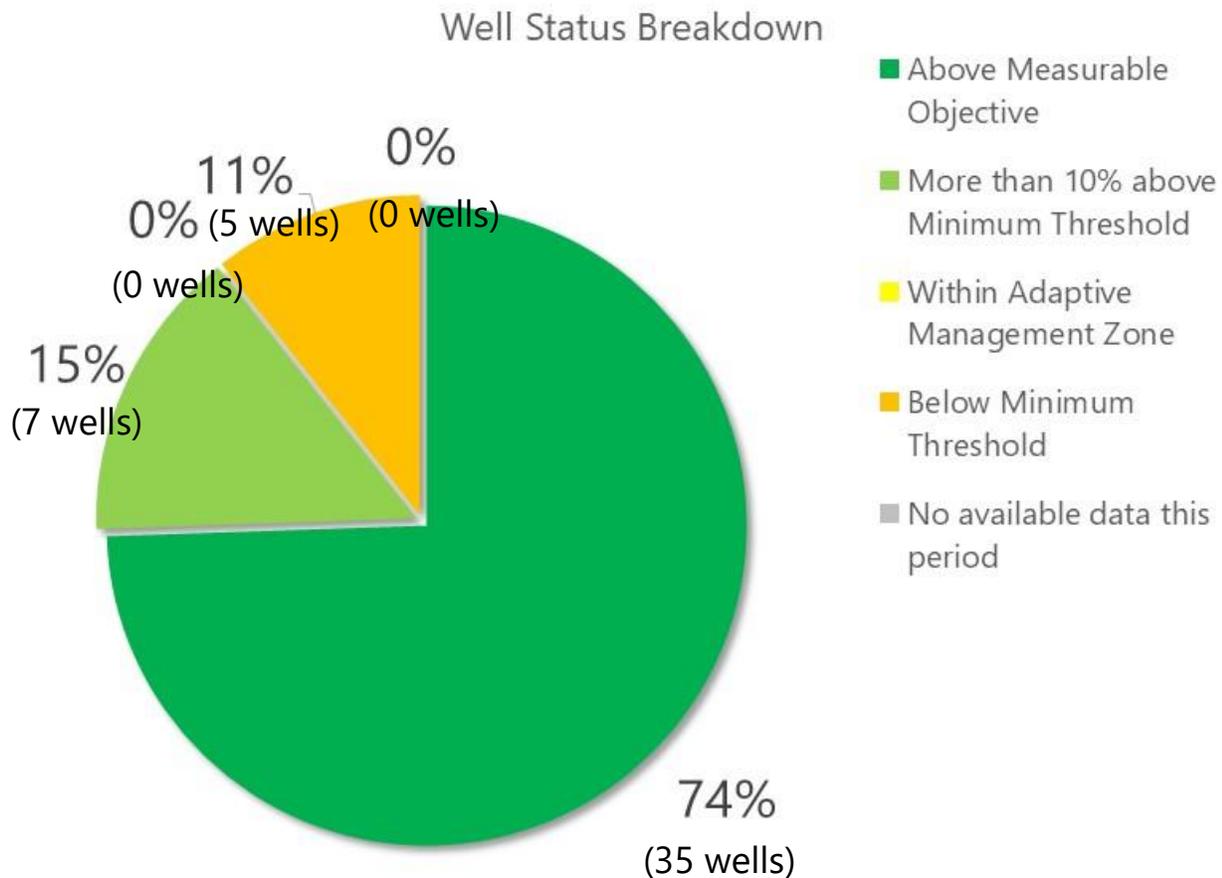
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1. INTRODUCTION

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



With the approval of the 2025 GSP Update by the CBGSA Board in November 2024, this report has been updated to remove two wells (98 and 124) and to report monitoring data relative to the updated minimum thresholds that were approved by the Board. There are currently 5 wells with groundwater levels exceeding the updated 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, 4% of

representative monitoring wells (i.e. 2 wells) have exceeded the minimum threshold for 24 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 and the measurement from the same time period in the previous year. 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	Apr-24	Jul-24	Oct-24	Last Year		Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
72	Central	2034	-	2005	2017	Oct-23	-12.5
74	Central	1941	1947	1942	1940	Oct-23	1.6
77	Central	1795	1754	1766	1793	Oct-23	-26.9
91	Central	1813	1804	1800	1800	Oct-23	0.3
95	Central	2389	1868	1867	1841	Oct-23	26.1
96	Central	2269	2266	2266	2270	Oct-23	-4
99	Central	2218	2137	2145	2223	Oct-23	-78.1
102	Central	-	-	1671	1758	Oct-23	-86.8
103	Central	2050	2046	2051	2044	Oct-23	6.3
112	Central	2042	2042	2043	2053	Oct-23	-10.6
114	Central	1880	1881	1878	-	-	-
316	Central	1812	1804	1800	1799	Oct-23	0.8
317	Central	1814	1806	1802	1801	Oct-23	1
322	Central	2217	2134	2138	2222	Oct-23	-84.5
324	Central	2216	2168	2169	2221	Oct-23	-52
325	Central	2216	2194	2193	2222	Oct-23	-28.6
420	Central	1794	1750	1766	1792	Oct-23	-26.2
421	Central	1800	1778	1781	1793	Oct-23	-11.4
474	Central	2232	2234	2235	-	-	-
568	Central	1874	1873	1858	1867	Oct-23	-9.4

Well	Region	Apr-24	Jul-24	Oct-24	Last Year		Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
604	Central	1655	1661	1650	1684	Oct-23	-34.4
608	Central	1778	1740	1769	1790	Oct-23	-21.6
609	Central	1723	1691	1722	1725	Oct-23	-2.2
610	Central	1808	1797	1795	1805	Oct-23	-10.1
612	Central	1796	1780	1805	1788	Oct-23	17.5
613	Central	1797	1814	1818	1801	Oct-23	17.6
615	Central	1806	1794	1805	1809	Oct-23	-4.5
629	Central	1821	1791	1800	1848	Oct-23	-48.7
633	Central	1800	1794	1805	1798	Oct-23	7.7
62	Eastern	2806	-	-	2789	Oct-23	-
85	Eastern	2891	2902	2907	2870	Oct-23	36.9
100	Eastern	2939	2939	2935	2909	Oct-23	25.6
101	Eastern	2658	2654	2655	2635	Oct-23	19.7
841	Northwestern	1709	1695	1688	1692	Oct-23	-4
845	Northwestern	1643	1632	1632	1637	Oct-23	-5.7
2	Southeastern	3706	3704	3686	3698	Oct-23	-12.3
89	Southeastern	3413	3411	3409	3432	Oct-23	-23.1
106	Western	2175	2176	2176	2185	Oct-23	-9.1
107	Western	2419	2421	2419	-	-	-
117	Western	1947	1945	1945	1946	Oct-23	-1.9
118	Western	2213	2212	2212	2217	Oct-23	-5.4

Well	Region	Apr-24	Jul-24	Oct-24	Last Year		Elevation Change
		GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	GWL (ft. msl)	Month/Year	
571	Western	2236	2230	2209	2235	Oct-23	-26.3
573	Western	2010	2012	2012	2015	Oct-23	-2.6
830	Far-West Northwestern	1511	1515	-	1522	Oct-23	-
832	Far-West Northwestern	1604	1606	1605	1595	Oct-23	10
833	Far-West Northwestern	1433	1435	1436	1434	Oct-23	1.7
836	Far-West Northwestern	1479	1478	1477	1456	Oct-23	21.3

*Well 608 is now confirmed to be “destroyed” and is no longer available for monitoring. The landowner and monitoring staff have identified a well within 100 ft that is suitable to continue monitoring in this location, and the groundwater level monitoring network will be modified to remove well 608 and add in this new well. The new well is in the process of being incorporated into Opti and being assigned an ID number.

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	161	10/16/2024	373	369	328	790	Above Measurable Objective	No
74	Central	246	10/16/2024	322	321	309	-	Above Measurable Objective	No
77	Central	518	10/17/2024	514	509	464	980	Below Minimum Threshold (4 months)	No
91	Central	681	10/18/2024	730	725	681	980	Above Measurable Objective	No
95	Central	589	10/18/2024	597	594	562	805	More than 10% above Minimum Threshold	No
96	Central	340	10/18/2024	369	368	361	500	Above Measurable Objective	No
99	Central	361	10/16/2024	379	378	368	750	Above Measurable Objective	No
102	Central	370	10/20/2024	470	466	432	-	Above Measurable Objective	No
103	Central	233	10/17/2024	379	374	324	1030	Above Measurable Objective	No
112	Central	83	10/16/2024	102	102	100	441	Above Measurable Objective	No
114	Central	47	10/16/2024	58	58	56	58	Above Measurable Objective	No
316	Central	681	10/18/2024	731	726	682	830	Above Measurable Objective	No
317	Central	679	10/18/2024	700	695	650	700	More than 10% above Minimum Threshold	No
322	Central	368	10/16/2024	387	386	378	850	Above Measurable Objective	No
324	Central	337	10/16/2024	365	364	353	560	Above Measurable Objective	No
325	Central	312	10/16/2024	331	330	323	380	Above Measurable Objective	No
420	Central	519	10/17/2024	514	509	464	780	Below Minimum Threshold (4 months)	No

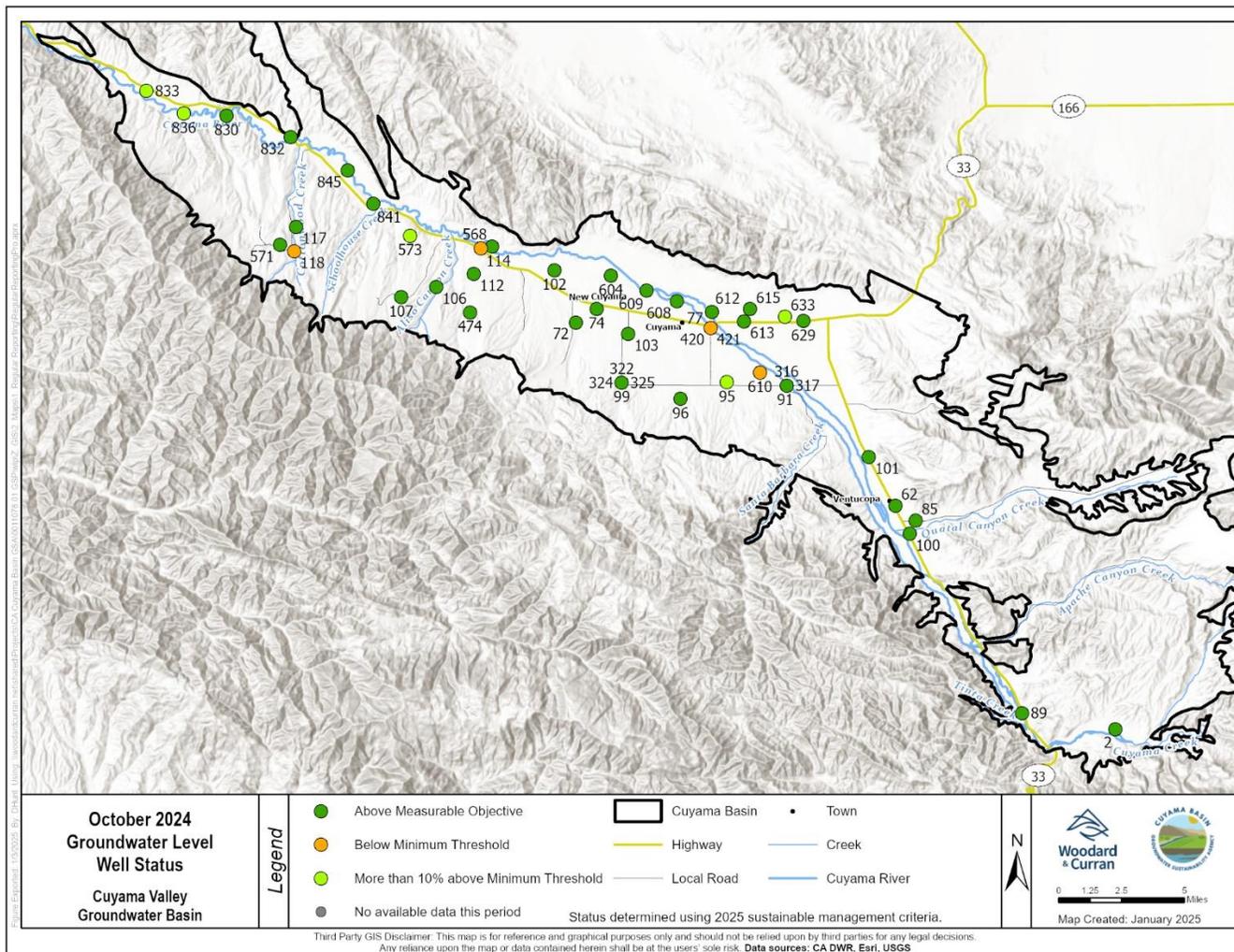
Well	Region	Current Month		Minimum Threshold	Within 10% Minimum Threshold	Measurable Objective	Well Depth	Status	GSA Action Required?
		GWL (DTW)	Date						
421	Central	503	10/17/2024	514	509	466	620	More than 10% above Minimum Threshold	No
474	Central	128	10/16/2024	197	195	178	213	Above Measurable Objective	No
568	Central	50	10/16/2024	47	47	46	188	Below Minimum Threshold (1 month)	No
604	Central	466	10/16/2024	544	540	505	924	Above Measurable Objective	No
608	Central	441	10/18/2024	504	501	475	745	Above Measurable Objective	No
609	Central	436	10/16/2024	499	495	462	970	Above Measurable Objective	No
610	Central	642	10/18/2024	557	554	527	780	Below Minimum Threshold (51 months)	No
612	Central	464	10/17/2024	513	511	490	1070	Above Measurable Objective	No
613	Central	506	10/17/2024	578	575	550	830	Above Measurable Objective	No
615	Central	516	10/17/2024	588	585	556	865	Above Measurable Objective	No
629	Central	578	10/17/2024	613	610	581	1000	Above Measurable Objective	No
633	Central	558	10/17/2024	605	600	551	1000	More than 10% above Minimum Threshold	No
62	Eastern	-	-	212	210	187	212	No available data this period (above MO in April 2024)	No
85	Eastern	140	10/17/2024	200	198	176	233	Above Measurable Objective	No
100	Eastern	72	10/17/2024	186	183	157	284	Above Measurable Objective	No
101	Eastern	91	10/17/2024	138	136	115	200	Above Measurable Objective	No
841	Northwestern	71	10/20/2024	203	198	153	600	Above Measurable Objective	No
845	Northwestern	78	10/20/2024	203	198	153	380	Above Measurable Objective	No
2	Southeastern	34	10/17/2024	52	50	35	73	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						
89	Southeastern	25	10/17/2024	62	60	42	125	Above Measurable Objective	No
106	Western	141	10/16/2024	164	163	152	228	Above Measurable Objective	No
107	Western	72	10/16/2024	122	120	103	200	Above Measurable Objective	No
117	Western	154	10/16/2024	163	162	154	212	Above Measurable Objective	No
118	Western	50	10/16/2024	40	37	10	500	Below Minimum Threshold (49 months)	No
571	Western	106	10/16/2024	142	140	118	280	Above Measurable Objective	No
573	Western	66	10/16/2024	93	88	42	404	More than 10% above Minimum Threshold	No
830	Far-West Northwestern	-	-	63	63	60	77	No available data this period (above MO in July 2024)	No
832	Far-West Northwestern	32	10/17/2024	50	49	35	132	Above Measurable Objective	No
833	Far-West Northwestern	18	10/17/2024	48	44	10	504	More than 10% above Minimum Threshold	No
836	Far-West Northwestern	29	10/17/2024	49	45	10	325	More than 10% above Minimum Threshold	No

*Well 608 is now confirmed to be “destroyed” and is no longer available for monitoring. The landowner and monitoring staff have identified a well within 100 ft that is suitable to continue monitoring in this location, which is where the measurement shown was taken. The groundwater level representative network will be modified to remove well 608 and add in this new well. The new well is in the process of being incorporated into Opti and being assigned an ID number.

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 October 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

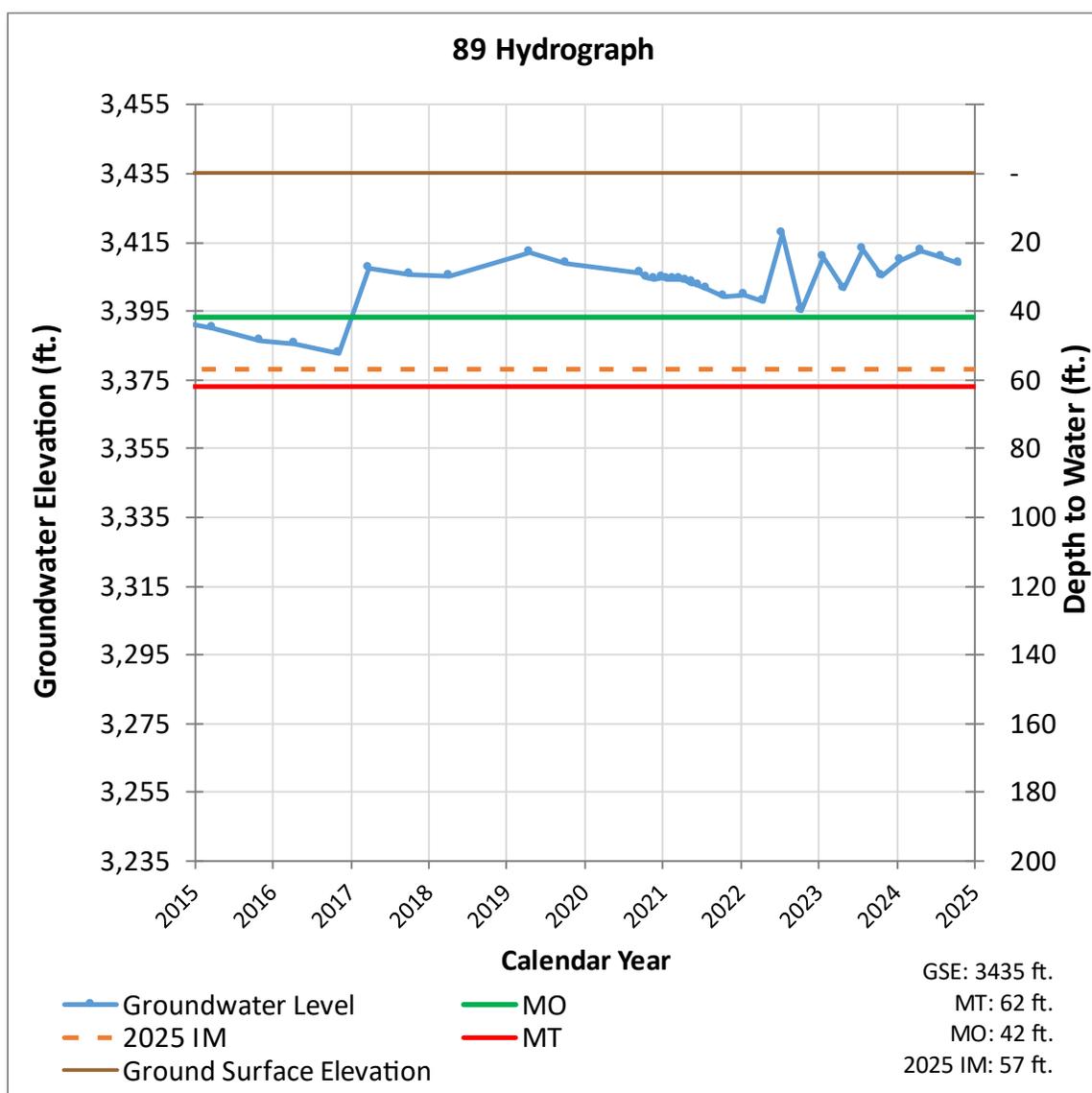


Figure 3: Eastern Region – Well 62

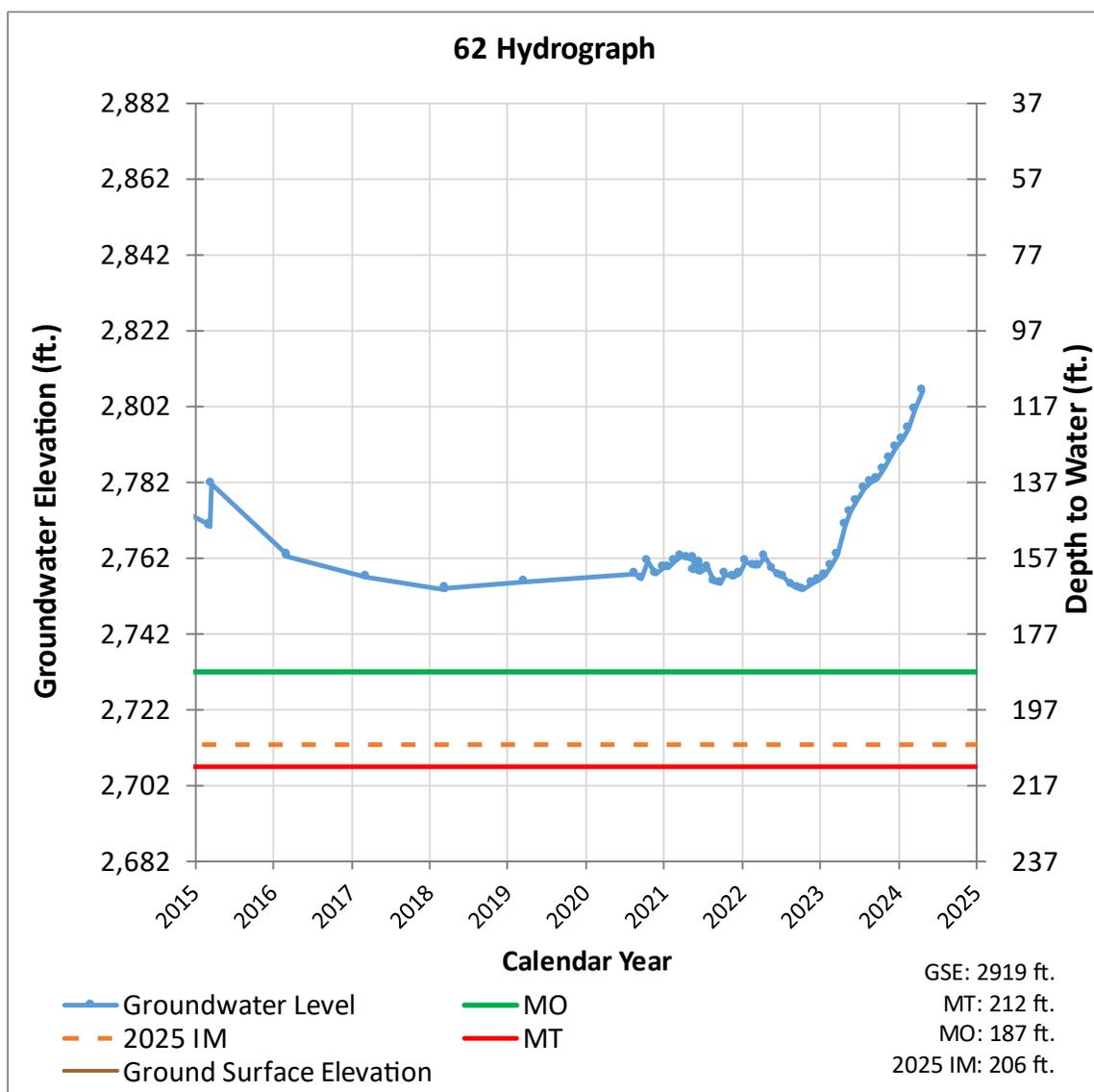


Figure 4: Central Region – Well 91

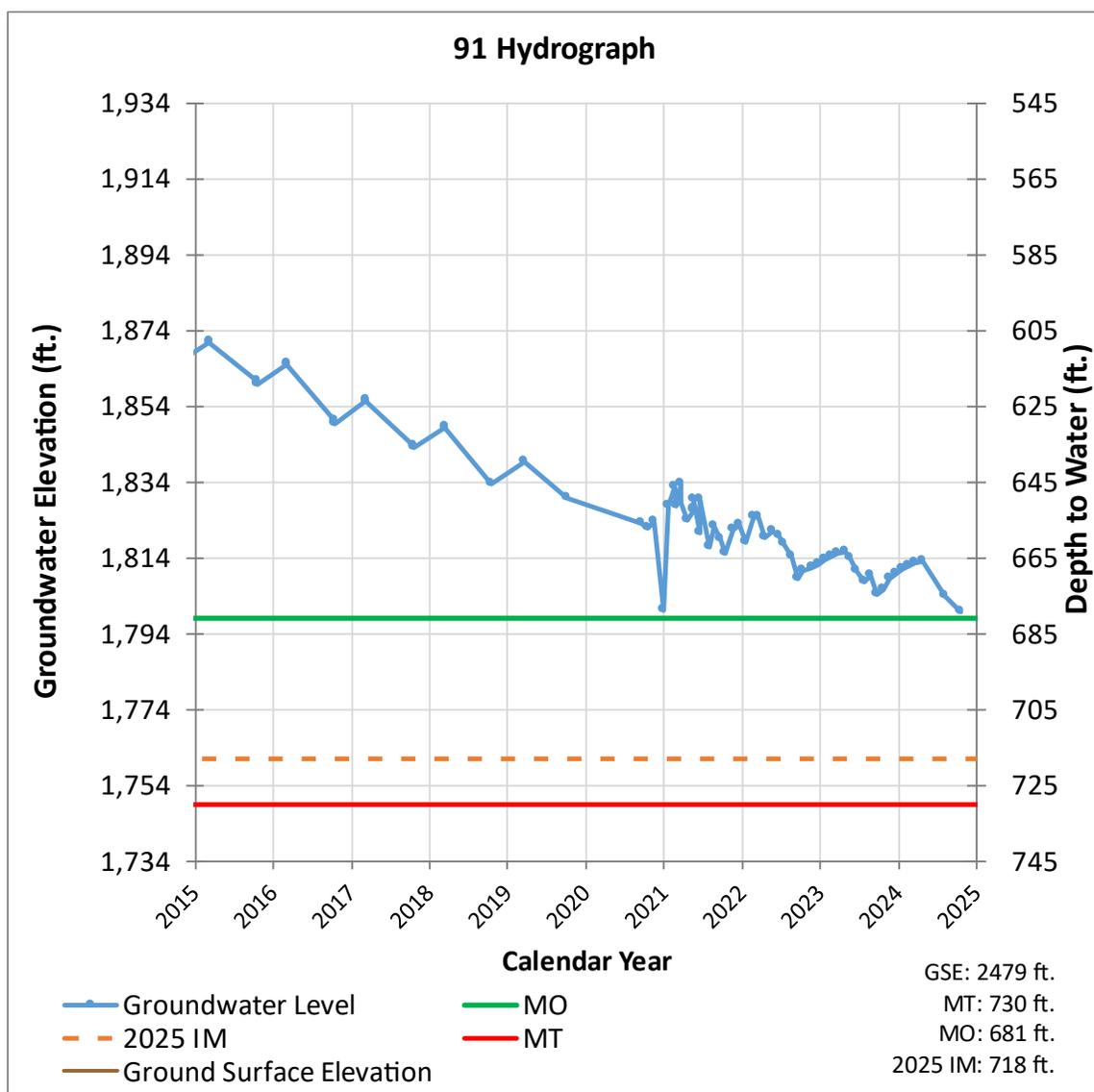


Figure 5: Central Region – Well 74

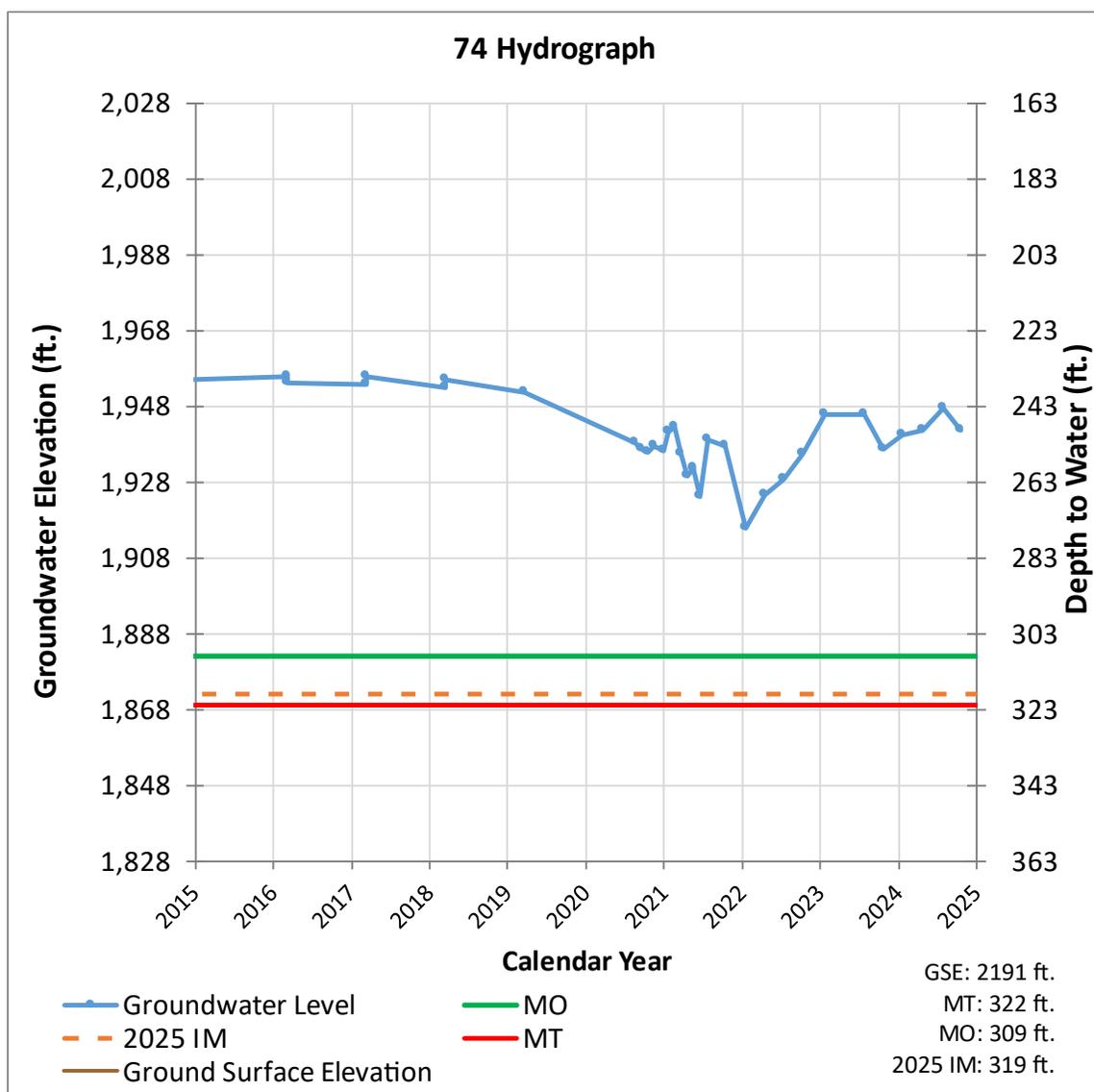


Figure 6: Western Region – Well 571

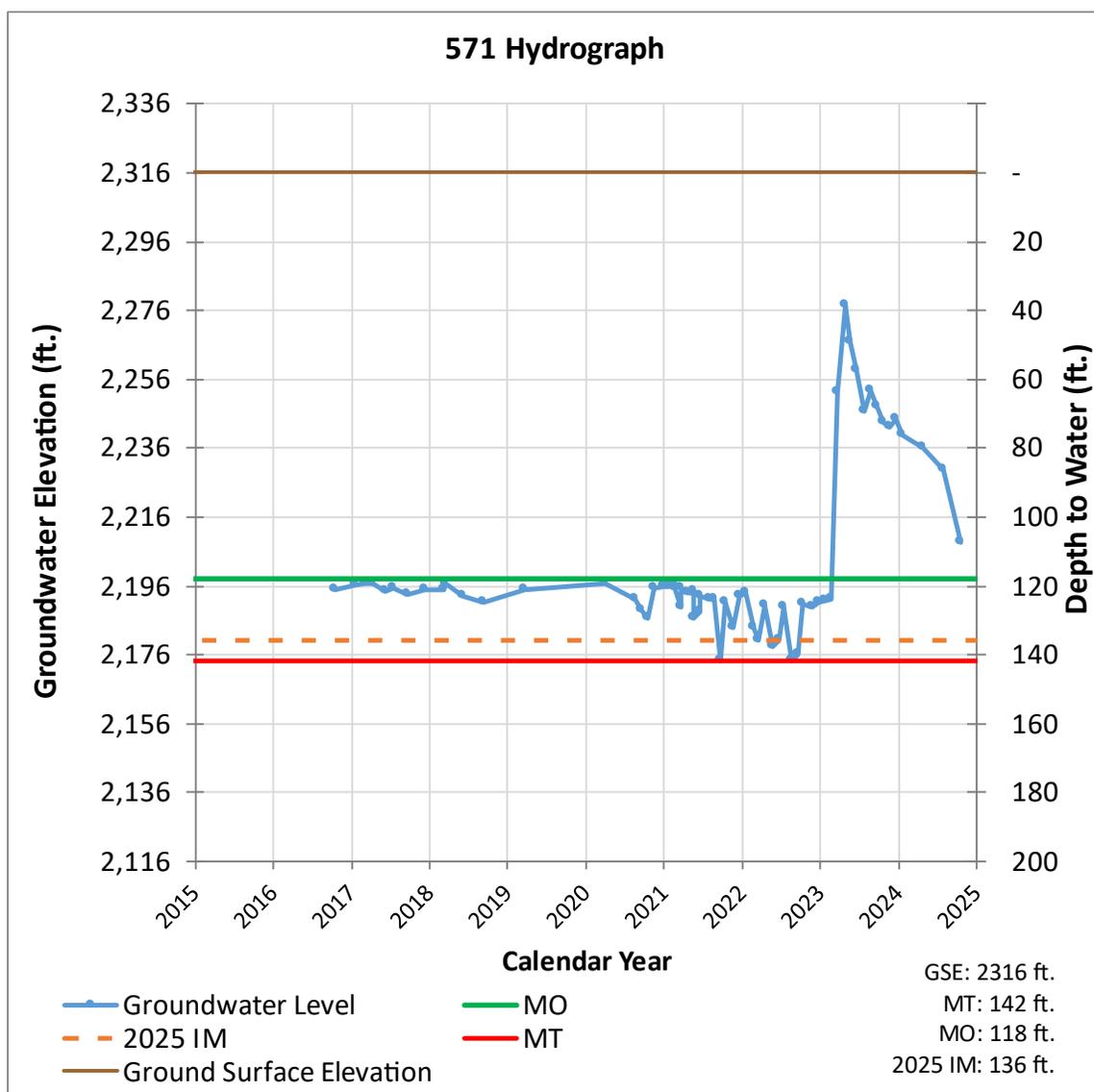
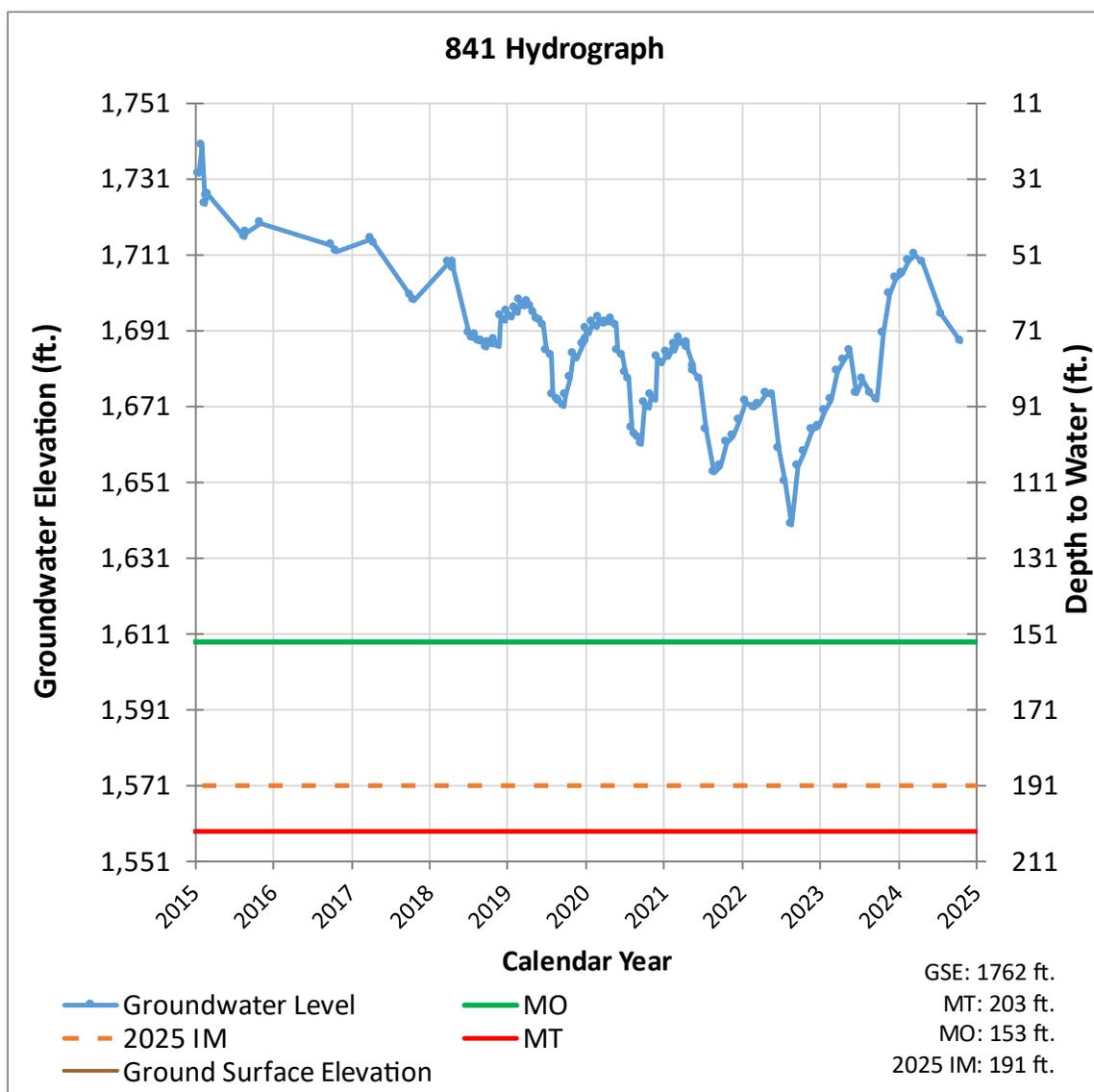


Figure 7: Northwestern Region – Well 841



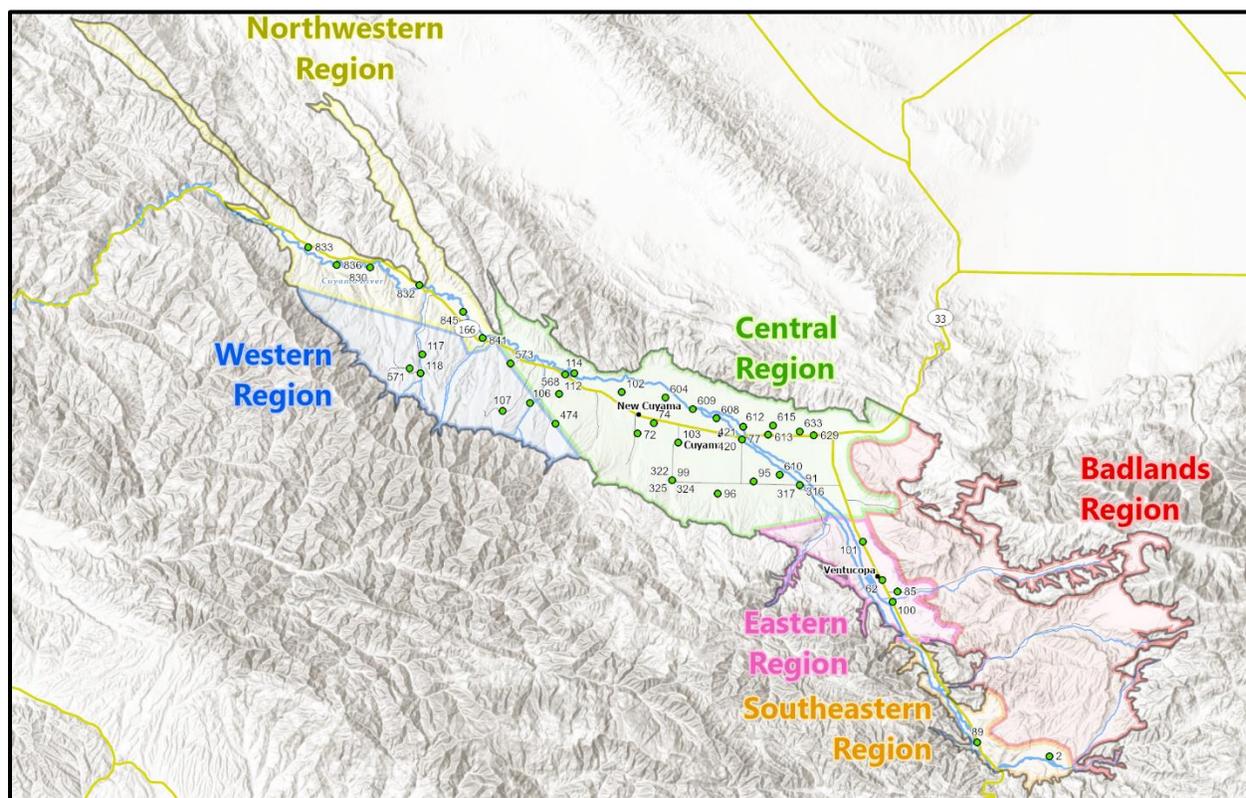


Figure 8: Threshold Regions in the Cuyama Groundwater Basin

5. MONITORING NETWORK UPDATES

With the approval of the 2025 GSP Update by the CBGSA Board, wells 98 and 124 are no longer included in the monitoring network.

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

- Landowner changed and an access agreement have not been established with the current landowner:
 - Well 830
- Data not yet available due to transducer malfunction:
 - Well 62

Additionally, well 608 is now confirmed to be “destroyed” and is no longer available for monitoring. The landowner and monitoring staff have identified a well within 100 ft that is suitable to continue monitoring in this location; the data from that new well is still reported for well 608 in this version of the report. The groundwater level monitoring network will be modified to remove well 608 and add in this new well. The new well is in the process of being incorporated into Opti. The new well will use historical data from Well 608 as a proxy for future analysis conducted for GSP implementation.

