MODOC RESOURCE CONSERVATION DISTRICT
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June 23, 2026

To: **Board of Directors**
Lassen-Modoc Flood Control and Water Conservation District

Subject: **LMFCWCD Flow Meter Annual Report**

Pursuant to the Memorandum of Understanding (MOU) dated June 24, 2025, the Lassen-Modoc Flood Control and Water Conservation District (LMFCWCD) entered into an agreement with the Modoc Resource Conservation District (MRCD) to provide the services associated with the District's Voluntary Well Meter Program, including the collection, assessment, and management of flow meter data and related program activities.

MRCD activities began at the end of the 2025 irrigation season with the inspection and collection of the flow measurement data from the eleven meters that remain in the program. During these inspections, it was determined two were not functioning, one had a broken seal causing moisture to obscure the digital display and a fourth meter showed a low battery condition. A fifth meter (RM#1) was not utilized as no pumping had occurred at this location.

To address these issues, two new Seametrics flow meters were purchased and installed to replace the nonfunctional units. The manufacturer replaced the meter with the broken seal under warranty. During a subsequent inspection, the meter that had previously indicated a low battery condition showed a full battery charge, and no corrective action was required at that time.

Prior to the start of the 2026 irrigation season, all meters were inspected, and their initial configurations were reviewed and adjusted as necessary. In addition, the associated data loggers were initialized and prepared for seasonal operation.

After the start of the 2026 irrigation season, the meters were revisited to verify proper data logger operation. Minor adjustments were made where necessary. A sample of the information collected through the data logging system is included with this report.

Subsequently, it was discovered that the meter that had previously exhibited a low battery condition was again experiencing operational issues. The manufacturer was contacted, and the meter will be returned for warranty service following the conclusion of the 2026 irrigation season.

MRCD also contacted the manufacturer to inquire about recommended servicing and calibration requirements. Seametrics advised that the meters are factory calibrated and should maintain their accuracy throughout the life of the meters. To further evaluate meter performance, Surprise

Valley Electric Cooperative (SVEC) was requested to conduct pump efficiency tests at one location where four flow meters are installed.

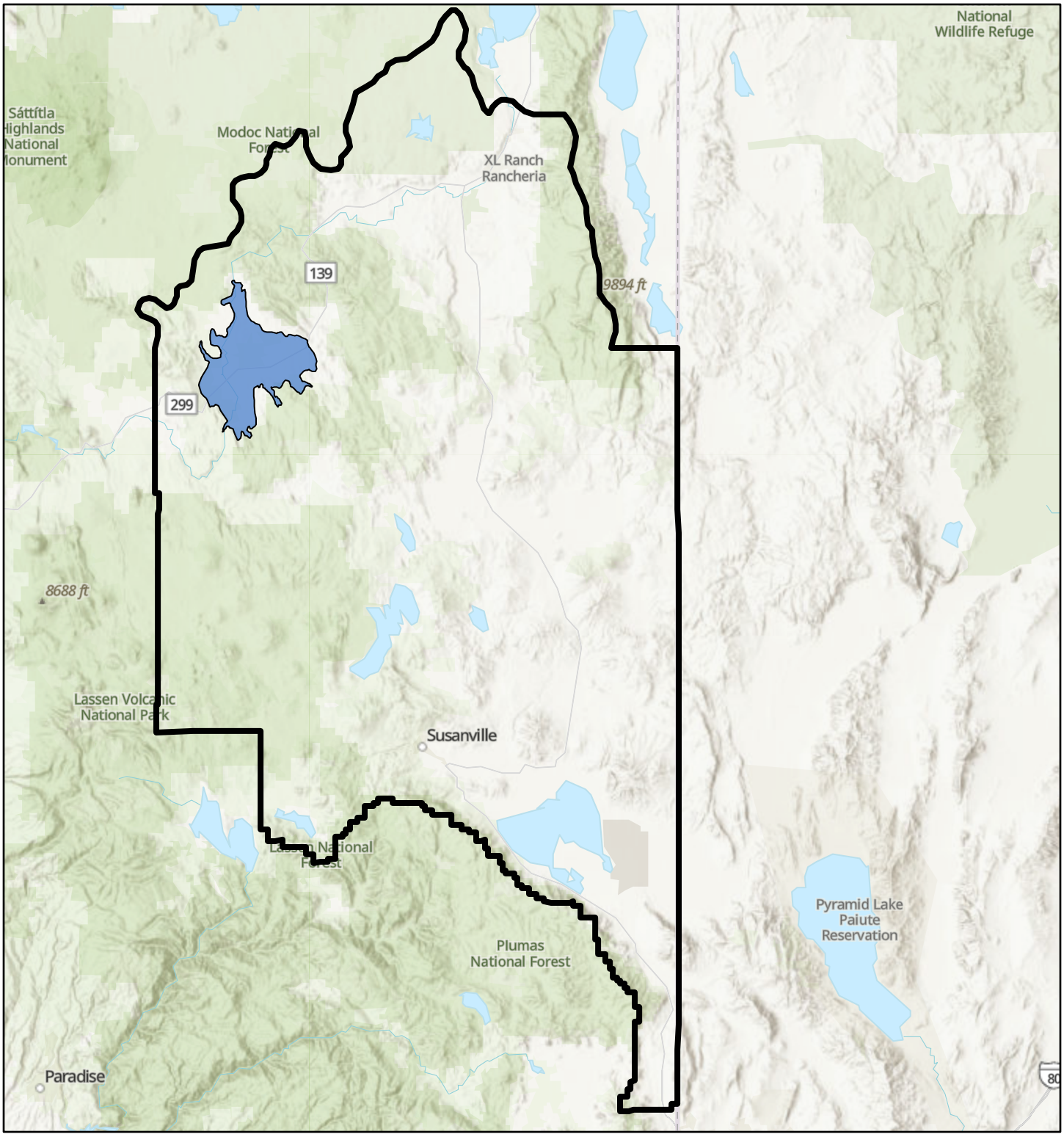
The test results indicated minor variations among the measurements. Discussions with both SVEC and the manufacturer confirmed that the observed differences were within the expected range of accuracy for the equipment. The manufacturer recommended several adjustments to the meter configuration settings; however, overall results indicate that the meters are functioning properly and providing accurate flow measurements.

The remainder of the 2026 irrigation season will focus on ensuring that all active meters are operating accurately and reliably in preparation for the 2027 irrigation season. The District also plans to install one additional meter. Upon completion, the program is expected to include eleven active pumping stations monitoring groundwater use across approximately 1,730 acres of alfalfa, pasture, and wildlife forage production.

Attachments:

Lassen-Modoc Flood Control and Water Conservation District Boundary Map
LMFCWCD Meter Locations as of 6/15/2026
Datalogger Sample
2026 Data Collection Sheet

LMFCWCD & Big Valley Groundwater Basin Boundaries



6/16/2026

Big Valley Groundwater Basin

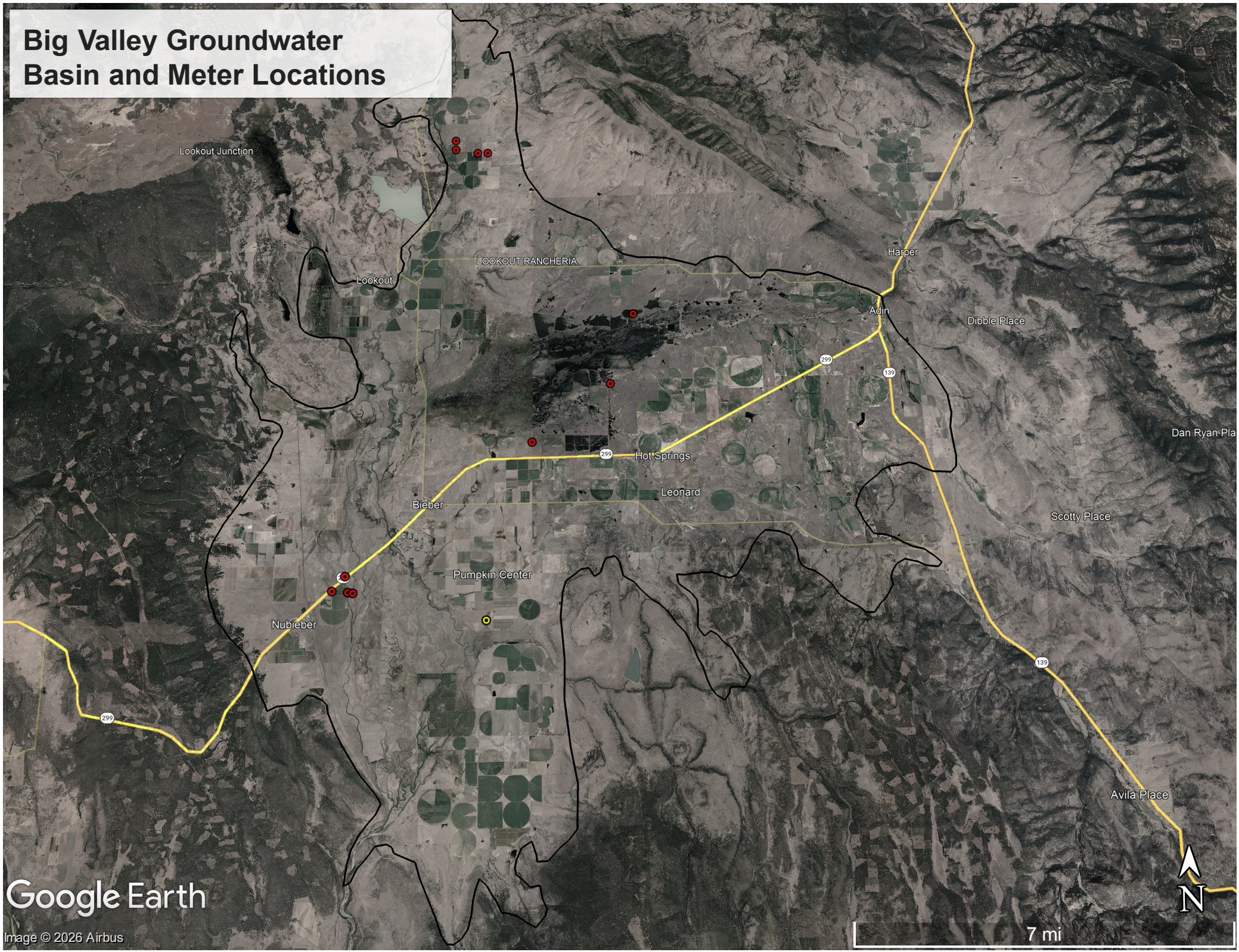
Lassen-Modoc Flood Control and Water Conservation District

1:1,570,871

0 10 20 40 mi

0 15 30 60 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Esri, CGIAR, USGS


Big Valley Groundwater Basin and Meter Locations
Lookout Junction
LOOKOUT RANCHERIA
Lookout
Harper
Adin
Dibble Place
299
139
Dan Ryan Pla
Hot Springs
Leonard
Bieber
Scotty Place
Pumpkin Center
Nubieber
Avila Place
Google Earth
Image © 2026 Airbus
N
7 mi

Datalogger Sample Readout

METER:	XXXXXXX				
Index	Date(UTC)	Time(UTC)	Flow Rate(G/M)	Incremental Volume(G)	Totalized Volume(MG)
1904	5/5/2026	6:19:21	22	176	0.001
1905	5/5/2026	6:27:21	174	1392	0.003
1906	5/5/2026	6:35:21	212	1696	0.004
1907	5/5/2026	6:43:21	208	1664	0.006
1908	5/5/2026	6:51:21	208	1664	0.008
1909	5/5/2026	6:59:21	208	1664	0.009
1910	5/5/2026	7:07:21	198	1584	0.011
1911	5/5/2026	7:15:21	194	1552	0.012
1912	5/5/2026	7:23:21	194	1552	0.014
1913	5/5/2026	7:31:21	192	1536	0.015
1914	5/5/2026	7:39:21	192	1536	0.017
1915	5/5/2026	7:47:21	192	1536	0.019
1916	5/5/2026	7:55:21	188	1504	0.02
1917	5/5/2026	8:03:21	188	1504	0.022
1918	5/5/2026	8:11:21	188	1504	0.023
1919	5/5/2026	8:19:21	188	1504	0.025
1920	5/5/2026	8:27:21	188	1504	0.026
1921	5/5/2026	8:35:21	186	1488	0.028
1922	5/5/2026	8:43:21	186	1488	0.029
1923	5/5/2026	8:51:21	188	1504	0.031
1924	5/5/2026	8:59:21	186	1488	0.032
1925	5/5/2026	9:07:21	186	1488	0.034
1926	5/5/2026	9:15:21	186	1488	0.035
1927	5/5/2026	9:23:21	186	1488	0.037
1928	5/5/2026	9:31:21	186	1488	0.038
1929	5/5/2026	9:39:21	182	1456	0.039
1930	5/5/2026	9:47:21	182	1456	0.041
1931	5/5/2026	9:55:21	182	1456	0.042
1932	5/5/2026	10:03:21	182	1456	0.044
1933	5/5/2026	10:11:21	184	1472	0.045
1934	5/5/2026	10:19:21	184	1472	0.047
1935	5/5/2026	10:27:21	182	1456	0.048
1936	5/5/2026	10:35:21	180	1440	0.05
1937	5/5/2026	10:43:21	182	1456	0.051
1938	5/5/2026	10:51:21	180	1440	0.053
1939	5/5/2026	10:59:21	180	1440	0.054
1940	5/5/2026	11:07:21	180	1440	0.055
1941	5/5/2026	11:15:21	182	1456	0.057
1942	5/5/2026	11:23:21	182	1456	0.058
1943	5/5/2026	11:31:21	180	1440	0.06
1944	5/5/2026	11:39:21	180	1440	0.061

LASSEN-MODOC FLOOD CONTROL & WATER CONSERVATION DISTRICT - 2026 DATA COLLECTION

Name	Status	APN	Manufacturer	Serial #	Description	Model #	Well Diameter (inch)	Water Type	Crop Type	Irrigation Type	Meter Location (GPS) Lat/Long	County	Date Equipment Installed	2026 Irrigation Start Reading	2026 Irrigation Stop Reading	Gallons Pumped	Acres Irrigated	Gallons per Acre	2026 Notes
AC #1	Active	003-050-029-000	Seametrics	01232226	AG3000 Flanged Mag Meter	AG-3000-1000-F1-BX-X-01	10"	Groundwater	Wildlife Forage	Pivot	41.150845 -121.090017	Lassen	10/25/2022	779748.1					
AC #2	Active	003-050-031-000	Seametrics	07220721	AG90 Saddle Mag Meter	AG90-1000-BX-X-01-0000	10"	Groundwater	Wildlife Forage	Flood	41.169857 -121.057864	Lassen	4/2/2026	N/A					Meter seal broken, unreadable, meter replaced 4/2/26
AC #3	Active	003-050-031-000	Seametrics	05223391	AG90 Saddle Mag Meter	AG90-0800-BX-X-01-0000	8"	Groundwater	Wildlife Forage	Flood	41.193803 -121.047795	Lassen	10/25/2022	37916792					
																	1,180		
ML #1	Active	001-270-009	McCometer	15-05333	Propeller	MWCO5-00	8"	Groundwater	Pasture	Pump to Pond to Pivot	41.10507 121.167656	Lassen	N/A	221450.00					
ML #2	Active	001-270-009	Seametrics	1210237	AG3000 Flanged Mag Meter	AG-3000-1000-F1-BX-X-01	8"	Surface Water from Canal	Pasture	Flood	41.104662 -121.161455	Lassen	6/10/2021	124918403.66					Meter stopped working 5/2026
ML #3	Active	001-270-009	Seametrics	05252166	AG90 Saddle Mag Meter	AG90-1000-BX-X-01-0000	8"	Groundwater	Pasture	Pump to Pond to Pivot	41.104409 -121.159490	Lassen	4/2/2026	0.00					New Meter
ML #4	Active	001-270-009	Seametrics	05252168	AG90 Saddle Mag Meter	AG90-1000-BX-X-01-0000	8"	Groundwater	Pasture	Flood	41.109505 -121.162862	Lassen	4/2/2026	0.00					New Meter
																	260		
RM#1	Inactive	001-530-007-000	Seametrics	01232171	AG3000 Flanged Mag Meter	AG-3000-800-F1-BX-X01	8"	Groundwater	Pasture	Wheelline	41.095628 -121.107392	Lassen	10/26/2022	N/A			0		No Crop
RV#1	Active	012-020-069-000	Seametrics	7220746	AG90 Saddle Mag Meter	AG90-0400-BX-X-01-0000	4"	Groundwater	Alfalfa	Wheel Line 80% Pivot 20%	41.254134 -121.110125	Modoc	10/25/2022	28712347.00					
RV#2	Active	012-020-069-000	Seametrics	7220745	AG90 Saddle Mag Meter	AG90-0400-BX-X-01-0000	4"	Groundwater	Alfalfa	Wheel Line 80% Pivot 20%	41.254152 -121.114492	Modoc	10/25/2022	7214315.10					
RV#3	Active	012-020-069-000	Seametrics	7220744	AG90 Saddle Mag Meter	AG90-0400-BX-X-01-0000	4"	Groundwater/Surface	Alfalfa	Pivot 20% River 80%	41.259087 -121.124303	Modoc	10/25/2022	45057170.00					
RV#4	Active	012-020-069-000	Seametrics	5223423	AG90 Saddle Mag Meter	AG90-0400-BX-X-01-0000	4"	Groundwater/Surface	Alfalfa	Pivot 20% River 80%	41.255588 -121.124182	Modoc	10/25/2022	18626716.00					
																	290		