

Lower West Coast Mobile Irrigation Lab

Quarterly Report Third Quarter – Fiscal Year 2019 April 1 through June 30, 2019

Sponsored by:

**Collier Soil and Water Conservation District
Florida Department of Agriculture and Consumer Services
Natural Resources Conservation Service**

**14700 Immokalee Road
Naples, FL 34120
(239) 455-4100**

Evaluation Results

SYSTEMS EVALUATED

This report covers the third quarter of Fiscal Year 2019, from April 1 to June 30, 2019. The Mobile Irrigation Lab (MIL) completed 27 total evaluations, 26 of which were initial evaluations, and 1 of which was a follow-up evaluation. All evaluations were performed on microjet systems on citrus.

RESULTS

Agricultural system evaluations are rated based on the measured Emission Uniformity (EU) of systems. The average EU of the agricultural systems evaluated was 86%.

WATER SAVINGS

Potential Water Savings (PWS) are based on first-time evaluations and estimate the amount of water that would be saved each year by making the recommended system improvements and/or following recommended irrigation scheduling guides. Actual Water Savings (AWS) are calculated from system improvements measured by follow-up evaluations.

PWS: 63.4 million gallons (194.4 acre feet) per year.

AWS: 22.3 million gallons (68.5 acre feet) per year.

Conservation Education/Outreach Activities

April

- MIL staff attended a ribbon-cutting ceremony for a Lehigh Acres Municipal Services Improvement District water-control project.

May

- MIL staff attended another ribbon-cutting ceremony for a Lehigh Acres Municipal Services Improvement District water-control project.

June

- MIL staff taught the Irrigation module of the Green Industries Best Management Practices class at the Rookery Bay Nation Estuarine Research Reserve.

The MIL team also provides education and outreach services on a regular basis to individual agricultural irrigators related to evaluations performed by the MIL. The MIL continues to work on preparing and refining various PowerPoint presentations to assist in future education activities. MIL staff also designs and produces display posters that can be used in the MIL display booth. Staff spends time designing and maintaining the Collier Soil and Water Conservation District and MIL website at www.collierswcd.org.

LOWER WEST COAST MOBILE IRRIGATION LAB
April - June 2019 (3rd Qtr. Federal Fiscal Year)

Zip Code	County	Quarter ID	Crop	System Type	Acres	Soil Type	**** Water ****			Pump	Motor	Problems	Inline Flow	US Flow	EU%	PWS Ac./Ft.	AWS Ac./Ft.	Initial EU	Init. qtr.
							Source	pH	TDS										
33440	Hendry	118	Citrus	Micro	53.7	1	Surface			Turbine	Electric	12,33	2200	2175	92	2.58			
33440	Hendry	119	Citrus	Micro	48.4	29	Surface			Turbine	Electric	12,33	2350	2340	93	1.53			
33440	Hendry	120	Citrus	Micro	50.6	29	Surface			Turbine	Electric	12,33	2300	2260	96	0.00			
33440	Hendry	121	Citrus	Micro	51.7	7	Surface			Turbine	Electric	4,12,33	2180	2170	90	4.24			
33440	Hendry	122	Citrus	Micro	108.1	2	Surface			Centrifugal	Diesel				68		68.52	52	2018 Q2
33440	Hendry	123	Citrus	Micro	124.4	7	Surface			Centrifugal	Diesel				71	62.01			
33975	Hendry	124	Citrus	Micro	50.6	27	Surface			Turbine	Electric		1680	1625	93	1.60			
33975	Hendry	125	Citrus	Micro	31.3	27	Surface			Turbine	Electric		1720	1570	94	0.49			
34142	Collier	126	Citrus	Micro	43.2	29	Well			Turbine	Diesel		725	715	91	2.80			
34142	Collier	127	Citrus	Micro	41.4	29	Well			Turbine	Diesel		860	830	94	0.65			
34142	Collier	128	Citrus	Micro	45.0	37	Well			Turbine	Diesel	6	840	810	86	6.94			
34142	Collier	129	Citrus	Micro	43.0	37	Well			Turbine	Diesel		830	800	90	3.52			
33971	Lee	130	Citrus	Micro	70.1	17	Surface			Centrifugal	Diesel	2,4,30	2100	1960	76	25.84			
33975	Lee	131	Citrus	Micro	104.0	73	Surface			Centrifugal	Diesel	4,6,20,40,56	2250	2040	72	48.99			
33471	Hendry	132	Citrus	Micro	32.0	7	Surface			Centrifugal	Diesel	40,56	650	1300	95	0.00			
33471	Hendry	133	Citrus	Micro	36.4	8	Surface			Centrifugal	Diesel	40,56	650	1300	84	7.03			
34112	Collier	134	Citrus	Micro	25	7	Well			Turbine	Electric		775	750	96	0.00			
34112	Collier	135	Citrus	Micro	25	7	Well			Turbine	Electric		800	740	95	0.00			
34112	Collier	136	Citrus	Micro	25.9	7	Well			Turbine	Electric		750	690	98	0.00			
34112	Collier	137	Citrus	Micro	34.0	7	Well			Turbine	Electric		775	825	96	0.00			
34112	Collier	138	Citrus	Micro	33.2	7	Well			Turbine	Electric		775	830	95	0.00			
33471	Hendry	139	Citrus	Micro	18.2	8	Surface			Centrifugal	Diesel	2	420	1230	85	3.16			
33471	Hendry	140	Citrus	Micro	18.2	8	Surface			Centrifugal	Diesel	2	750	1650	85	3.16			
33975	Hendry	141	Citrus	Micro	20.3	14	Surface			Centrifugal	Diesel	4,12,40	335	340	67	12.51			
33975	Hendry	142	Citrus	Micro	7.6	14	Surface			Centrifugal	Electric	2,4,12,40	79	72	70	4.00			
33975	Hendry	143	Citrus	Micro	5.9	14	Surface			Centrifugal	Electric	2,4,12,40	89	80	72	2.78			
33975	Hendry	144	Citrus	Micro	6.0	6	Surface			Centrifugal	Electric	4,12,40	128	110	89	0.60			
1153.2														86.4		194.43		68.52	

Millions of gallons: 63,356,462 22,327,441