Lower West Coast
Mobile Irrigation Lab

Quarterly Report
First Quarter – Fiscal Year 2019
October 1 through December 31, 2018

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 first quarter of Fiscal Year 2018, from October 1 to December 31, 2018. The Mobile Irrigation Lab (MIL) completed 24 total evaluations, 5 of which were initial evaluations, and 19 of which were follow-up evaluations. All 24 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 82%.

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: 6.0 million gallons (18.4 acre feet) per year.
AWS: 10.2 million gallons (31.3 acre feet) per year.

Conservation Education/Outreach Activities

November

- MIL staff participated in the Southwest Florida Small Farmers Network meeting, held at the Oakes Farms demonstration farm in Naples.

December

- MIL staff participated in a Citrus Seminar at the UF/IFAS Southwest Florida Research and Education Center in Immokalee.
- MIL staff helped with the Envirothon high school science competition, held at Lakes Park in Fort Myers

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
October - December 2018 (1st 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.	Follow Up
							Source	pH	TDS									
	Hendry	39	Vegetables	Drip	7.0	8	Surface			Centrifugal	Diesel	30		305	92	0.00		
	Collier	40	Citrus	Micro	32.2	3	Well	7.3	400	Turbine	Diesel		680	680	91	2.09		
	Hendry	41	Citrus	Micro	13.4	6	Surface			Turbine	Electric	4,6,12,20	290	230	72	6.31		
	Hendry	42	Citrus	Micro	27.4	6	Surface			Turbine	Electric	4,12,20,33	620	520	80	7.58		
34142	Hendry	43	Citrus	Micro	18.8	17	Well	7.4	1020	Turbine	Diesel	2,4,6,12,33,56	475	475	81		0.00	81
34142	Hendry	44	Citrus	Micro	18.8	7	Well	7.4	1020	Turbine	Diesel	4,6,12,33,56	430	430	81		1.25	78
34142	Hendry	45	Citrus	Micro	19.8	17	Well	7.5	615	Turbine	Diesel	56	360	340	83		3.56	75
34142	Hendry	46	Citrus	Micro	19.8	7	Well	7.5	615	Turbine	Diesel	2,4,6,56	480	470	81		0.00	85
34142	Hendry	47	Citrus	Micro	19.0	7	Well	7.3	440	Turbine	Diesel	2,4,6,30	480	490	83		2.95	76
34142	Hendry	48	Citrus	Micro	19.0	7	Well	7.3	440	Turbine	Diesel	2,4,30	640	630	88		6.72	72
34142	Hendry	49	Citrus	Micro	18.0	17	Well			Turbine	Diesel	4,30,33,56	490	500	86		1.81	81
34142	Hendry	50	Citrus	Micro	18.0	7	Well			Turbine	Diesel	2,4,6,30,56	490	490	77		0.00	81
34142	Hendry	51	Citrus	Micro	18.2	17	Well	7.5	460	Turbine	Diesel	2,4,6,30,56		540	81		0.00	83
34142	Hendry	52	Citrus	Micro	18.2	7	Well	7.5	460	Turbine	Diesel	4,6,33,56		490	79		12.46	57
34142	Hendry	53	Citrus	Micro	12.0	7	Well	7.2	530	Turbine	Diesel	2,4,6,33,56	275	280	85		0.72	82
34142	Hendry	54	Citrus	Micro	12.0	7	Well	7.2	530	Turbine	Diesel	2,4,33,56	275	275	86		0.00	88
34142	Hendry	55	Citrus	Micro	18.8	17	Well	7.2	440	Turbine	Diesel	2,4,6,12	490	475	78		0.89	76
34142	Hendry	56	Citrus	Micro	18.8	7	Well	7.2	440	Turbine	Diesel	2,4,6,12	450	460	75		0.00	76
34142	Hendry	57	Citrus	Micro	13.8	17	Well	7.5	540	Turbine	Diesel	4,12,56	500	440	80		0.00	80
34142	Hendry	58	Citrus	Micro	13.8	17	Well	7.5	540	Turbine	Diesel	4,12,56	520	460	85		0.55	83
34142	Hendry	59	Citrus	Micro	14.7	1	Well	7.3	680	Turbine	Diesel	2,4,6	400	400	79		0.33	78
34142	Hendry	60	Citrus	Micro	14.7	17	Well	7.3	680	Turbine	Diesel	2,4	415	420	82		0.00	89
34142	Hendry	61	Citrus	Micro	11.2	17	Well	6.8	520	Turbine	Diesel	2,4,56	370	355	83		0.00	86
34142	Hendry	62	Citrus	Micro	11.2	17	Well	6.8	520	Turbine	Diesel	2,4,6,56	190	185	83	2.39		87
					408.6										82.1	18.36	31.25	
																Millions of gallons:	5,983,457	10,182,806