

Lower West Coast Mobile Irrigation Lab

Quarterly Report Third Quarter – Fiscal Year 2018 April 1 through June 31, 2018

Sponsored by:

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

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Evaluation Results

SYSTEMS EVALUATED

This report covers the third quarter of Fiscal Year 2018, from April 1 to June 31, 2018. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 10 of which were initial evaluations, and 26 of which were follow-up evaluations. All 36 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 84%.

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: 6.6 million gallons (20.4 acre feet) per year.

AWS: 8.7 million gallons (26.7 acre feet) per year.

Conservation Education/Outreach Activities

April

- MIL staff participated in a meeting of the University of Florida/Institute of Food and Agricultural Sciences (UF/IFAS) Sustainable Food Systems Committee in Naples.
- MIL staff participated in a meeting of the Greenscape Alliance, a partnership of government and private agencies concerned with water quality in Collier County.

May

- MIL staff attended the Area Meeting of the Association of Florida Conservation Districts in Labelle.
- MIL staff attended the Save Our Water Conference in Fort Myers.
- MIL staff participated in a meeting at the UF/IFAS Southwest Florida Research and Education Center in Immokalee, about Citrus concerns.

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 2018 (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.	Follow Up
							Source	pH	TDS									
33935	Hendry	109	Citrus	Drip	31.7	51	Surface			Turbine	Diesel	3	610	610	95	0.00		
33935	Hendry	110	Citrus	Micro	31.7	51	Surface			Turbine	Diesel	4,6,33	1080	980	82	7.41		
33935	Hendry	111	Citrus	Drip	33.5	21	Surface			Turbine	Diesel	3	360	340	92	0.00		
33935	Hendry	112	Citrus	Micro	33.5	21	Surface			Turbine	Diesel	33	660	670	91	2.17		
33935	Hendry	113	Citrus	Drip	28.3	8	Surface			Turbine	Diesel	3	500	490	95	0.00		
33935	Hendry	114	Citrus	Micro	28.3	8	Surface			Turbine	Diesel	33	930	870	87	3.84		
33471	Glades	115	Citrus	Micro	63.0	6	Surface			Centrifugal	Diesel	6,12,20,40	1675	1470	81		11.94	73
33935	Hendry	116	Citrus	Micro	11.5	2	Surface			Turbine	Diesel	2,4,33,40,41	260	240	76		0.00	83
33930	Hendry	117	Citrus	Micro	10.0	4	Well	7.3	720	Turbine	Diesel	30,33,56	380	360	90		1.11	84
33930	Hendry	118	Citrus	Micro	10.0	4	Well	7.3	720	Turbine	Diesel	30,56	380	360	87		1.19	81
33930	Hendry	119	Citrus	Micro	10.0	4	Well	7.3	720	Turbine	Diesel	30,56	410	385	83		0.00	87
33930	Hendry	120	Citrus	Micro	10.0	4	Well	7.3	720	Turbine	Diesel	30,56	385	365	87		0.00	88
33930	Hendry	121	Citrus	Micro	30.0	7	Well	7.3	640	Turbine	Diesel	4,12,30,56			88		2.88	83
33930	Hendry	122	Citrus	Micro	30.0	51	Well	7.3	640	Turbine	Diesel	12,21,30,56			84		0.60	83
33930	Hendry	123	Citrus	Micro	30.0	51	Well	7.3	640	Turbine	Diesel	6,12,21,30,56			87		4.89	79
33930	Hendry	124	Citrus	Micro	30.0	4	Well	7.3	640	Turbine	Diesel	12,30,56			88		1.69	85
33930	Hendry	125	Citrus	Micro	7.2	14	Well	7.4	420	Turbine	Diesel	3,12,30,56	210	205	77	2.48		
33930	Hendry	126	Citrus	Micro	7.6	32	Well	7.4	420	Turbine	Diesel	3,12,30,56	215	210	91	0.49		
33930	Hendry	127	Citrus	Micro	7.6	32	Well	7.4	420	Turbine	Diesel	3,12,21,30,56	215	210	91	0.49		
33930	Hendry	128	Citrus	Micro	7.9	28	Well	7.4	420	Turbine	Diesel	12,30,56	200	195	73	3.51		
33930	Hendry	129	Citrus	Micro	17.0	4	Well			Turbine	Diesel	4,6,12,21,30,56	380	390	64		0.00	80
33930	Hendry	130	Citrus	Micro	17.0	4	Well			Turbine	Diesel	6,12,30,56	450	440	79		0.00	83
33930	Hendry	131	Citrus	Micro	17.0	4	Well			Turbine	Diesel	12,30,56	440	440	89		0.30	88
33930	Hendry	132	Citrus	Micro	17.0	4	Well			Turbine	Diesel	12,30,56	410	400	89		0.00	90
33930	Hendry	133	Citrus	Micro	10.0	4	Well	7.1	510	Turbine	Diesel	4,12,21,30,56	200	190	83		0.00	85
33930	Hendry	134	Citrus	Micro	10.0	4	Well	7.1	510	Turbine	Diesel	4,12,30,56	190	190	88		0.56	85
33930	Hendry	135	Citrus	Micro	10.0	51	Well	7.1	510	Turbine	Diesel	12,21,30,56	250	240	87		0.00	89
33930	Hendry	136	Citrus	Micro	10.0	51	Well	7.1	510	Turbine	Diesel	4,12,30,56	150	150	86		0.00	91
33913	Lee	137	Citrus	Micro	12.9	28	Well	6.9	540	Turbine	Diesel	21,33	275	250	80		0.29	79
33913	Lee	138	Citrus	Micro	13.7	28	Well	6.9	540	Turbine	Diesel	21,33	325	270	67		0.00	76
33913	Lee	139	Citrus	Micro	16.4	28	Well	6.9	540	Turbine	Diesel	21,30,33	500	410	77		0.00	84
33913	Lee	140	Citrus	Micro	17.3	28	Well	6.9	540	Turbine	Diesel	21,33	350	310	81		0.00	83
33913	Lee	141	Citrus	Micro	11.6	28	Well	7.2	745	Turbine	Diesel	3,6,12,21	300	280	84		0.23	83
33913	Lee	142	Citrus	Micro	14.0	28	Well	7.2	745	Turbine	Diesel	12,21,33	355	345	73		0.76	71
33913	Lee	143	Citrus	Micro	10.3	28	Well	7.2	745	Turbine	Diesel	12,21	325	315	85		0.20	84
33913	Lee	144	Citrus	Micro	9.9	28	Well	7.2	745	Turbine	Diesel	12,21	260	250	76		0.00	87

665.9

83.7

20.40

26.65

Millions of gallons:

6,646,468

8,682,323