

Lower West Coast Mobile Irrigation Lab

Quarterly Report Fourth Quarter – Fiscal Year 2018 July 1 through September 30, 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 fourth quarter of Fiscal Year 2018, from July 1 to September 30, 2018. The Mobile Irrigation Lab (MIL) completed 38 total evaluations, 2 of which were initial evaluations, and 36 of which were follow-up evaluations. All 38 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 81%.

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: 16.5 million gallons (50.5 acre feet) per year.

AWS: 24.0 million gallons (73.6 acre feet) per year.

Conservation Education/Outreach Activities

July

- MIL staff participated in a Citrus Seminar at the UF/IFAS Southwest Florida Research and Education Center in Immokalee.

August

- MIL staff hosted a booth at the 2018 Citrus Expo in North Fort Myers.
- MIL staff presented the Irrigation portion of the Greenscape Best Management Class for landscapers at the Rookery Bay National Estuarine Research Reserve 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.

September

- MIL staff participated in a Citrus Seminar at the UF/IFAS Southwest Florida Research and Education Center in Immokalee.

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
July - September 2018 (4th 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										
33913	Lee	1	Citrus	Micro	24.8	26	Well			Turbine	Diesel	4,6,12,21,30,33,40,56	475	470	77	0.00	82		
33913	Lee	2	Citrus	Micro	24.5	34	Well			Turbine	Diesel	12,21,30,33,56	475	450	84	2.59	79		
33913	Lee	3	Citrus	Micro	24.4	28	Well			Turbine	Diesel	12,21,30,33,56	450	430	86	0.47	85		
33913	Lee	4	Citrus	Micro	4.9	28	Well	7.6	360	Turbine	Diesel	3,12,21,30	150	150	88	2.01	70		
33913	Lee	5	Citrus	Micro	15.6	28	Well	7.6	360	Turbine	Diesel	3,12,21,30	380	375	89	3.83	77		
33913	Lee	6	Citrus	Micro	17.8	28	Well	7.6	360	Turbine	Diesel	12,21,30	440	430	89	2.39	82		
33913	Lee	7	Citrus	Micro	16.3	28	Well	7.6	330	Turbine	Diesel	12,21	430	410	92	2.69	83		
33913	Lee	8	Citrus	Micro	17.2	28	Well	7.6	330	Turbine	Diesel	3,12,21,30,41	305	295	88	5.18	74		
33913	Lee	9	Citrus	Micro	16.2	28	Well	7.6	330	Turbine	Diesel	12,21	430	420	95	1.61	89		
33913	Lee	10	Citrus	Micro	20.6	28	Well	7.2	400	Turbine	Diesel	21,41,56	450	440	77	5.59	67		
33913	Lee	11	Citrus	Micro	19.0	6	Well	7.2	400	Turbine	Diesel	6,21,56	375	360	71	0.00	79		
33913	Lee	12	Citrus	Micro	16.8	6	Well	7.6	340	Turbine	Diesel	12,21,33	400	390	79	0.00	84		
33913	Lee	13	Citrus	Micro	14.6	33	Well	7.6	340	Turbine	Diesel	3,12,21,33	375	360	74	0.00	85		
33913	Lee	14	Citrus	Micro	18.4	28	Well	7.6	340	Turbine	Diesel	12,21,31,33	370	370	72	2.67	67		
33913	Lee	15	Citrus	Micro	15.8	6	Well	7.6	340	Turbine	Diesel	12,20,21,33	350	350	75	0.00	75		
33913	Lee	16	Citrus	Micro	15.8	28	Well	7.4	370	Turbine	Diesel	12,21,33,56	450	460	87	0.00	90		
33913	Lee	17	Citrus	Micro	15.4	28	Well	7.4	370	Turbine	Diesel	12,21,33,56	400	420	89	1.14	85		
33913	Lee	18	Citrus	Micro	15.3	28	Well	7.4	370	Turbine	Diesel	12,20,21,33,56	390	410	84	0.00	86		
33913	Lee	19	Citrus	Micro	16.7	28	Well	7.4	370	Turbine	Diesel	12,21,33,41,56	370	390	84	3.34	75		
33913	Lee	20	Citrus	Micro	14.3	28	Well	7.2	745	Turbine	Diesel	21,33	350	355	75	0.00	84		
33913	Lee	21	Citrus	Micro	15.1	28	Well	7.2	745	Turbine	Diesel	21,33	375	375	68	0.00	70		
33913	Lee	22	Citrus	Micro	14.2	33	Well	7.2	745	Turbine	Diesel	21,33,41	350	350	88	4.64	73		
33913	Lee	23	Citrus	Micro	16.0	33	Well	7.2	745	Turbine	Diesel	21,33	400	395	77	0.00	87		
33913	Lee	24	Citrus	Micro	15.7	14	Well	7.4	450	Turbine	Diesel	3,6,12,21,56	400	380	80	22.49	44		
33913	Lee	25	Citrus	Micro	12.9	33	Well	7.4	450	Turbine	Diesel	3,12,20,21,56	320	320	71	0.00	75		
33913	Lee	26	Citrus	Micro	15.4	33	Well	7.4	450	Turbine	Diesel	3,12,21,56	350	330	80	3.42	71		
34142	Hendry	27	Citrus	Micro	16.0	7	Well	7.0	830	Turbine	Diesel	4,12,30,40,56	380	375	87	1.57	82		
34142	Hendry	28	Citrus	Micro	16.0	7	Well	7.0	830	Turbine	Diesel	2,4,12,30,56	380	370	80	0.00	86		
34142	Hendry	29	Citrus	Micro	19.6	17	Well			Turbine	Diesel	4,6,30	470	440	81	0.00	83		
34142	Hendry	30	Citrus	Micro	19.6	7	Well			Turbine	Diesel	4,6,30	480	460	84	0.80	82		
34142	Hendry	31	Citrus	Micro	20.3	17	Well			Turbine	Diesel	4,6,30,56	470	470	86	0.00	90		
34142	Hendry	32	Citrus	Micro	20.3	7	Well			Turbine	Diesel	4,30,56	450	450	90	0.00	90		
34142	Hendry	33	Citrus	Micro	15.6	17	Well	7.4	400	Turbine	Diesel	4,30,56	390	390	84	5.20	70		
34142	Hendry	34	Citrus	Micro	15.6	17	Well	7.4	400	Turbine	Diesel	4,30,56	410	415	84	0.00	84		
34142	Hendry	35	Citrus	Micro	17.0	7	Well	7.2	410	Turbine	Diesel	30	590	490	87	0.98	84		
34142	Hendry	36	Citrus	Micro	14.0	7	Well	7.2	410	Turbine	Diesel	30	480	435	90	1.01	86		
33935	Hendry	37	Citrus	Micro	20.4	14	Surface			Centrifugal	Electric	4,6,7,12,20		600	46	32.04			
33935	Hendry	38	Citrus	Micro	23.5	14	Surface			Centrifugal	Electric	4,7,12,20		470	62	18.44			
651.6																81.1	50.49	73.63	

Millions of gallons: 16,451,208 23,990,820