

Lower West Coast Mobile Irrigation Lab

Quarterly Report Second Quarter – Fiscal Year 2017 January 1 through March 31, 2017

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 second quarter of Fiscal Year 2017, from January 1 to March 31, 2017. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 13 of which were initial evaluations, and 23 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 75%.

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: 58.8 million gallons (180.6 acre feet) per year.

AWS: 30.8 million gallons (94.6 acre feet) per year.

Conservation Education/Outreach Activities

March

- MIL staff taught the Irrigation portion of the landscape Best Management Practices for the Project Greenscapes training at Rookery Bay National Estuarine Research Reserve in Naples.
- MIL staff gave a presentation about the Mobile Irrigation Labs to growers at a citrus seminar at the University of Florida – Institute of Food and Agricultural Sciences 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
January - March 2017 (2nd 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									
34142	Hendry	1	Citrus	Micro	37.2	17	Well	7.2	440	Turbine	Diesel	4,12,21,30,33	1000	930	81	9.48		
34142	Hendry	2	Citrus	Micro	34.4	7	Well	7.2	440	Turbine	Diesel	12,21,30	1175	1120	82	8.04		
34142	Hendry	3	Citrus	Micro	35.1	7	Well	7.2	440	Turbine	Diesel	12,21,30	1250	1190	69	19.50		
34142	Hendry	4	Citrus	Micro	33.5	7	Well	7.2	440	Turbine	Diesel	12,21,30	1200	1140	79	10.00		
34142	Hendry	5	Citrus	Micro	43.7	27	Well			Turbine	Diesel	12,21,30	1450	1240	73	19.42		
34142	Hendry	6	Citrus	Micro	43.3	7	Well			Turbine	Diesel	12,21	1500	1380	79	12.93		
34142	Hendry	7	Citrus	Micro	46.9	27	Well			Turbine	Diesel	12,21,33	1500	1380	77	16.17		
34142	Hendry	8	Citrus	Micro	42.4	7	Well	7.1	750	Turbine	Diesel	21,30	1300	1270	76	15.63		
34142	Hendry	9	Citrus	Micro	49.2	17	Well	7.1	750	Turbine	Diesel	21,33	1425	1400	75	19.35		
34142	Hendry	10	Citrus	Micro	40.2	17	Well	7.1	750	Turbine	Diesel	6,21	1290	1260	64	28.71		
34142	Hendry	11	Citrus	Micro	44.5	17	Well	7.1	750	Turbine	Diesel	4,21,33	1370	1340	73	19.78		
33935	Hendry	12	Citrus	Micro	10.0	37	Well			Turbine	Electric		175	145	95	0.00		
33935	Hendry	13	Citrus	Micro	10.0	37	Well			Turbine	Electric	1,4,20	160	150	86	1.54		
34142	Collier	14	Citrus	Micro	37.9	7	Well	7.0	390	Turbine	Diesel	4,20,33			74			84
34142	Collier	15	Citrus	Micro	38.5	7	Well	7.0	390	Turbine	Diesel	4,22,33			75		3.00	72
34142	Collier	16	Citrus	Micro	37.2	7	Well	7.0	390	Turbine	Diesel	4,22,33			75		14.57	62
34142	Collier	17	Citrus	Micro	38.5	7	Well	7.0	390	Turbine	Diesel	4,20,33			79			81
34142	Collier	18	Citrus	Micro	43.2	7	Well	7.0	390	Turbine	Diesel	4,20,22,33			81		4.92	76
34142	Collier	19	Citrus	Micro	38.5	7	Well	7.4	410	Turbine	Diesel	4,20,30,33			79		1.77	77
34142	Collier	20	Citrus	Micro	37.9	7	Well	7.4	410	Turbine	Diesel	4,22,30,33			66			73
34142	Collier	21	Citrus	Micro	30.3	7	Well	7.4	410	Turbine	Diesel	4,22,30,33			68			79
34142	Collier	22	Citrus	Micro	34.7	7	Well	7.4	410	Turbine	Diesel	4,20,33			76		8.59	67
34142	Collier	23	Citrus	Micro	34.6	7	Well	7.0	450	Turbine	Diesel	4,22,33			47			67
34142	Collier	24	Citrus	Micro	36.7	7	Well	7.0	450	Turbine	Diesel	4,22		900	83	8.48		73
34142	Collier	25	Citrus	Micro	36.8	7	Well	7.0	450	Turbine	Diesel	4,12,33		920	62			77
34142	Collier	26	Citrus	Micro	36.5	7	Well	7.0	450	Turbine	Diesel	4,22,33		860	64			81
34142	Collier	27	Citrus	Micro	37.5	7	Well			Turbine	Diesel	4,22			69			81
34142	Collier	28	Citrus	Micro	37.5	7	Well			Turbine	Diesel	4,22			68			73
34142	Collier	29	Citrus	Micro	37.5	7	Well			Turbine	Diesel	4,22			77		5.77	71
34142	Collier	30	Citrus	Micro	37.5	7	Well			Turbine	Diesel	4,22,33			65			70
34142	Collier	31	Citrus	Micro	34.7	7	Well	7.0	410	Turbine	Diesel	4,12,22,33			79		13.25	65
34142	Collier	32	Citrus	Micro	34.6	7	Well	7.0	410	Turbine	Diesel	4,12,33			78		9.14	68
34142	Collier	33	Citrus	Micro	36.8	7	Well	7.0	410	Turbine	Diesel	4,12,33			76		16.68	61
34142	Collier	34	Citrus	Micro	36.7	7	Well	7.0	410	Turbine	Diesel	4,12,33			79		6.33	72
34142	Collier	35	Citrus	Micro	30.3	7	Well	7.0	450	Turbine	Diesel	4,12,22,33			79		2.12	76
34142	Collier	36	Citrus	Micro	32.7	7	Well	7.0	450	Turbine	Diesel	4,12,22,33			76			82

1307.5

74.56 180.56 94.61

Millions of gallons: 58,834,532 30,829,789