

Lower West Coast Mobile Irrigation Lab

Quarterly Report Third Quarter – Fiscal Year 2017 April 1 through June 30, 2017

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 2017, from April 1 to June 30, 2017. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 30 of which were initial evaluations, and 6 of which were follow-up evaluations. 32 evaluations were performed on microjet systems on citrus, and 4 were performed on drip 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 73%.

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: 228.1 million gallons (699.9 acre feet) per year.

AWS: 0.5 million gallons (1.6 acre feet) per year.

Conservation Education/Outreach Activities

May

- MIL staff participated in a meeting of the Greenscape Alliance, a group of government agencies and citizens that seeks to improve Collier County's watershed.

June

- 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 participated in a meeting of the Greenscape Alliance, a group of government agencies and citizens that seeks to improve Collier County's watershed.

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 2017 (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											
34142	Collier	1	Citrus	Micro	34.4	7	Well	7.0	450	Turbine	Diesel	4,12,22,33			67		0.00	73		
34142	Collier	2	Citrus	Micro	34.6	7	Well	7.0	450	Turbine	Diesel	4,12			79		1.59	77		
34142	Collier	3	Citrus	Micro	31.1	16	Well	7.6	460	Turbine	Diesel	4,21,31,40		730	60	26.75				
34142	Collier	4	Citrus	Micro	29.6	16	Well	7.6	460	Turbine	Diesel	4,21,31,40		650	72	13.94				
34142	Collier	5	Citrus	Micro	25.5	16	Well	7.6	460	Turbine	Diesel	4,21,31,40		580	80	7.05				
34142	Collier	6	Citrus	Micro	44.2	7	Well	7.6	460	Turbine	Diesel	4,12,21,40		1000	78	14.21				
34142	Collier	7	Citrus	Micro	47.5	7	Well	7.6	460	Turbine	Diesel	4,12,21		1125	87	6.44				
34142	Collier	8	Citrus	Micro	22.9	7	Well	7.1	490	Turbine	Diesel	21	710	610	77	7.89				
34142	Collier	9	Citrus	Micro	47.9	7	Well	7.6	460	Turbine	Diesel	4,12,21,30		1030	73	21.29				
34142	Collier	10	Citrus	Micro	43.0	7	Well	7.6	440	Turbine	Diesel	4,12,21,40		1180	73	19.11				
34142	Collier	11	Citrus	Micro	27.2	7	Well	7.1	490	Turbine	Diesel	4,21,30	770	665	73	12.09				
34142	Collier	12	Citrus	Micro	32.3	7	Well	7.0	580	Turbine	Electric	4,21,31,40		845	70	17.01				
34142	Collier	13	Citrus	Micro	31.4	7	Well	7.0	580	Turbine	Electric	4,21,31		810	62	24.64				
33471	Glades	14	Citrus	Micro	120.0	4	Well			Turbine	Diesel	4,40		1160	81		0.00	92		
33471	Glades	15	Citrus	Micro	102.0	26	Well			Turbine	Diesel	6,40		1300	76		0.00	91		
33471	Glades	16	Citrus	Micro	100.0	26	Well			Turbine	Diesel	4,6,40		1425	76		0.00	90		
33471	Glades	17	Citrus	Micro	124.0	26	Well			Turbine	Diesel	4,6,40		1300	75		0.00	92		
33982	Charlotte	18	Citrus	Micro	35.7	33	Well			Turbine	Diesel	30	1600		90	2.92				
33982	Charlotte	19	Citrus	Micro	35.7	33	Well			Turbine	Diesel		1600		90	2.92				
33935	Hendry	20	Citrus	Micro	82.0	7	Surface			Turbine	Diesel	4,6,20,31,33,40			51	104.32				
33935	Hendry	21	Citrus	Micro	33.9	2	Surface			Turbine	Diesel	4,20,31,33,40	475		59	30.50				
33935	Hendry	22	Citrus	Micro	21.0	4	Well	7.4	430	Turbine	Diesel	2,20,40	525	510	86	3.24				
33935	Hendry	23	Citrus	Micro	21.0	4	Well	7.4	430	Turbine	Diesel	2,20	575	550	79	6.27				
33935	Hendry	24	Citrus	Micro	21.0	4	Well	7.4	430	Turbine	Diesel	2,20	575	550	79	6.27				
33935	Hendry	25	Citrus	Micro	22.0	4	Well	7.4	430	Turbine	Diesel	2,20	560	540	87	2.98				
33935	Hendry	26	Citrus	Micro	20.0	4	Well	7.6	485	Turbine	Diesel	2,20	550	550	82	4.68				
33935	Hendry	27	Citrus	Micro	21.0	4	Well	7.6	485	Turbine	Diesel	2,20	530	540	87	2.85				
33935	Hendry	28	Citrus	Micro	21.0	4	Well	7.6	485	Turbine	Diesel	2,20	550	540	85	3.64				
33935	Hendry	29	Citrus	Micro	21.0	4	Well	7.6	485	Turbine	Diesel	2,20	550	540	83	4.48				
33935	Hendry	30	Citrus	Micro	9.0	4	Well	7.6	460	Turbine	Diesel	20,33	190	175	84	1.74				
33935	Hendry	31	Citrus	Micro	9.0	4	Well	7.6	460	Turbine	Diesel	20	175	170	84	1.74				
33935	Hendry	32	Citrus	Micro	10.0	4	Well	7.6	460	Turbine	Diesel	4,20	190	180	84	1.93				
33935	Glades	33	Citrus	Drip	32.9	26	Well	7.4	1940	Turbine	Electric	4,20,33,40,41	380	330	38	72.77				
33935	Glades	34	Citrus	Drip	31.7	26	Well	7.4	1940	Turbine	Electric	4,20,40,41	360	295	49	43.88				
33935	Glades	35	Citrus	Drip	47.0	26	Well	7.4	1940	Turbine	Electric	4,20,40,41	410	365	28	165.84				
33935	Glades	36	Citrus	Drip	35.5	26	Well	7.1	1940	Turbine	Electric	4,20,40,41	255	220	38	78.52				
1428														72.83			711.91		1.59	

Millions of gallons: 231,977,977 519,271