

Lower West Coast Mobile Irrigation Lab

Quarterly Report Fourth Quarter – Fiscal Year 2017 July 1 through September 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 fourth quarter of Fiscal Year 2017, from July 1 to September 30, 2017. The Mobile Irrigation Lab (MIL) completed 41 total evaluations, all of which were initial evaluations. All 41 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 83%.

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: 49.3 million gallons (151.2 acre feet) per year.

AWS: 0.0 million gallons (0.0 acre feet) per year.

Conservation Education/Outreach Activities

August

- MIL staff had a booth at the 2017 Citrus Expo in North Fort Myers. This is the largest citrus-only event in the United States, attended by growers, government agencies, and industry businesses.
- 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.

September

- 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.

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 2017 (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
34142	Collier	1	Citrus	Micro	16.4	16	Well	7.2	275	Turbine	Diesel	20,30	400	385	93	0.52		
34142	Collier	2	Citrus	Micro	14.3	16	Well	7.2	275	Turbine	Diesel	6,30	400	375	83	3.05		
34142	Collier	3	Citrus	Micro	9.4	7	Well	7.2	275	Turbine	Diesel	20,30	260	260	91	0.61		
34142	Collier	4	Citrus	Micro	15.5	16	Well	7.2	260	Turbine	Diesel	30,31,35	380	340	95	0.00		
34142	Collier	5	Citrus	Micro	16.1	16	Well	7.2	260	Turbine	Diesel	30,31,35	350	335	90	1.32		
34142	Collier	6	Citrus	Micro	10.9	16	Well	7.2	260	Turbine	Diesel	6,20,30,31,35	375	320	82	2.55		
34142	Collier	7	Citrus	Micro	12.4	16	Well	7.2	260	Turbine	Diesel	21,30,31,35,40	350	325	75	4.88		
34142	Collier	8	Citrus	Micro	19.4	15	Well	6.7	170	Turbine	Diesel	12,40	550	555	91	1.26		
34142	Collier	9	Citrus	Micro	18.4	15	Well	6.7	170	Turbine	Diesel	12	490	480	89	1.83		
34142	Collier	10	Citrus	Micro	19.8	7	Well	6.7	170	Turbine	Diesel	12,21	500	510	89	1.97		
34142	Collier	11	Citrus	Micro	19.0	7	Well	6.7	170	Turbine	Diesel	12	550	540	87	2.58		
34142	Collier	12	Citrus	Micro	18.6	7	Well	6.7	170	Turbine	Diesel	12	520	530	81	4.74		
34142	Collier	13	Citrus	Micro	17.1	7	Well	6.7	170	Turbine	Diesel	12	500	500	89	1.70		
34142	Collier	14	Citrus	Micro	8.5	8	Well	6.7	210	Turbine	Diesel	20,21,40	240	230	81	2.17		
34142	Collier	15	Citrus	Micro	18.6	7	Well	6.7	210	Turbine	Diesel	21	430	430	91	1.21		
34142	Collier	16	Citrus	Micro	11.5	7	Well	6.7	210	Turbine	Diesel	21	360	365	76	4.24		
34142	Collier	17	Citrus	Micro	21.3	7	Well	6.7	210	Turbine	Diesel	21	500	450	73	9.47		
34142	Collier	18	Citrus	Micro	19.4	16	Well	7.0	430	Turbine	Diesel	4,6		400	83	4.14		
34142	Collier	19	Citrus	Micro	18.7	7	Well	7.0	430	Turbine	Diesel			400	90	1.53		
34142	Collier	20	Citrus	Micro	18.0	7	Well	7.0	430	Turbine	Diesel	6		395	89	1.79		
34142	Collier	21	Citrus	Micro	18.8	7	Well	7.0	430	Turbine	Diesel	4,6		380	84	3.63		
34142	Collier	22	Citrus	Micro	20.0	16	Well	7.0	390	Turbine	Diesel	12,21,33	650	600	91	1.30		
34142	Collier	23	Citrus	Micro	24.0	7	Well	7.0	390	Turbine	Diesel	12,21	650	615	86	3.70		
34142	Collier	24	Citrus	Micro	26.1	7	Well	7.0	390	Turbine	Diesel	12,21,33	675	620	81	6.65		
34142	Collier	25	Citrus	Micro	24.1	20	Well	7.0	390	Turbine	Diesel	4,12,21	675	630	91	1.56		
34142	Collier	26	Citrus	Micro	21.1	7	Well	7.1	440	Turbine	Diesel	4,6,21	475	480	80	5.83		
34142	Collier	27	Citrus	Micro	16.6	7	Well	7.1	440	Turbine	Diesel	21	460	460	87	2.25		
34142	Collier	28	Citrus	Micro	21.4	7	Well	7.1	440	Turbine	Diesel	4,6,21	480	480	80	5.92		
34142	Collier	29	Citrus	Micro	19.5	7	Well	7.1	440	Turbine	Diesel	4,21	480	480	80	5.39		
34142	Collier	30	Citrus	Micro	14.0	7	Well	7.0	390	Turbine	Diesel	4,6,20,21,31,33	380	370	72	6.59		
34142	Collier	31	Citrus	Micro	13.1	7	Well	7.0	390	Turbine	Diesel	6,20,21,31	375	365	71	6.53		
34142	Collier	32	Citrus	Micro	14.9	7	Well	7.0	390	Turbine	Diesel	6,21,30,31	385	375	56	15.30		
34142	Collier	33	Citrus	Micro	18.0	7	Well	7.0	390	Turbine	Diesel	6,21,31	385	375	69	10.00		
34142	Collier	34	Citrus	Micro	19.7	7	Well	7.3	440	Turbine	Diesel	21	425	420	83	4.20		
34142	Collier	35	Citrus	Micro	17.7	7	Well	7.3	440	Turbine	Diesel	21	420	420	83	3.77		
34142	Collier	36	Citrus	Micro	16.5	7	Well	7.3	440	Turbine	Diesel	21,40	380	380	90	1.35		
34142	Collier	37	Citrus	Micro	18.0	7	Well	7.3	440	Turbine	Diesel	21	390	390	89	1.79		
34142	Collier	38	Citrus	Micro	14.4	7	Well	7.3	430	Turbine	Diesel	12,20,21,30	400	375	80	3.98		
34142	Collier	39	Citrus	Micro	15.0	7	Well	7.3	430	Turbine	Diesel	12,21,30	375	370	81	3.82		
34142	Collier	40	Citrus	Micro	15.1	7	Well	7.3	430	Turbine	Diesel	12,21,30	360	360	85	2.62		
34142	Collier	41	Citrus	Micro	14.7	7	Well	7.3	430	Turbine	Diesel	12,30	375	355	82	3.44		
706													83.39			151.17	0.00	