

Lower West Coast Mobile Irrigation Lab

Quarterly Report First Quarter – Fiscal Year 2017 October 1 through December 31, 2016

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 first quarter of Fiscal Year 2017, from October 1 to December 31, 2016. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, all of which were initial 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 77%.

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: 102.8 million gallons (315.5 acre feet) per year.

AWS: 0 million gallons (0 acre feet) per year.

Conservation Education/Outreach Activities

October

- 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.

December

- MIL staff participated in a meeting of the Greenscape Alliance, an interagency group that advocates for environmentally-friendly landscape practices.

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
October - December 2016 (1st 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	19.6	3	Well			Turbine	Diesel	4,6,12,21	575	430	60	16.86		
34142	Collier	2	Citrus	Micro	19.5	7	Well			Turbine	Diesel	6,21	540	530	82	4.56		
34142	Collier	3	Citrus	Micro	19.5	3	Well			Turbine	Diesel	21,30	520	480	83	4.16		
34142	Collier	4	Citrus	Micro	19.5	16	Well			Turbine	Diesel	6,21	580	565	79	5.82		
34142	Collier	5	Citrus	Micro	19.5	3	Well			Turbine	Diesel	21	580	565	85	3.38		
33935	Hendry	6	Citrus	Micro	18.0	4	Surface			Centrifugal	Diesel	4,12,22,33,35		390	78	5.78		
33935	Hendry	7	Citrus	Micro	18.0	4	Surface			Centrifugal	Diesel	4,12,22,33		410	81	4.59		
33935	Hendry	8	Citrus	Micro	18.0	4	Surface			Centrifugal	Diesel	4,12,22,33		400	76	6.64		
33935	Hendry	9	Citrus	Micro	18.0	4	Surface			Centrifugal	Diesel	4,12,22,33		360	69	10.00		
33935	Hendry	10	Citrus	Micro	15.0	4	Surface			Centrifugal	Diesel	2,12,22,30,33		800	63	11.23		
33935	Hendry	11	Citrus	Micro	17.0	4	Surface			Centrifugal	Diesel	2,12,22,30,33		550	65	11.57		
33935	Hendry	12	Citrus	Micro	20.0	4	Surface			Centrifugal	Diesel	2,4,12,22,30,33		515	71	9.97		
33935	Hendry	13	Citrus	Micro	20.0	4	Surface			Centrifugal	Diesel	2,4,12,22,30,33		550	72	9.42		
33935	Hendry	14	Citrus	Micro	30.0	6	Surface			Centrifugal	Diesel	2,4,12,22,30,33,40		615	77	10.34		
33935	Hendry	15	Citrus	Micro	17.0	6	Well			Turbine	Diesel	4,12,22,56		310	70	8.95		
33935	Hendry	16	Citrus	Micro	10.0	6	Well			Turbine	Diesel	4,12,22,56		250	61	8.22		
34142	Hendry	17	Citrus	Micro	30.4	17	Well	7.2	414	Turbine	Diesel	6,21	770	715	72	14.32		
34142	Hendry	18	Citrus	Micro	26.0	27	Well	7.2	414	Turbine	Diesel	4,6,21	750	730	73	11.55		
34142	Hendry	19	Citrus	Micro	33.1	27	Well	7.2	414	Turbine	Diesel	4,6,21	725	690	79	9.89		
34142	Hendry	20	Citrus	Micro	19.0	27	Well	7.2	414	Turbine	Diesel	4,21	725	700	56	19.51		
34142	Hendry	21	Citrus	Micro	25.0	17	Well	7.2	420	Turbine	Electric	4,21,31	770	775	79	7.47		
34142	Hendry	22	Citrus	Micro	30.8	17	Well	7.2	420	Turbine	Electric	4,21,31	810	810	82	7.20		
34142	Hendry	23	Citrus	Micro	28.4	17	Well	7.2	420	Turbine	Electric	4,21,31	800	800	79	8.48		
34142	Hendry	24	Citrus	Micro	28.0	15	Well	7.2	420	Turbine	Electric	4,21,31	800	800	79	8.36		
34142	Hendry	25	Citrus	Micro	16.4	17	Well	7.1	490	Turbine	Diesel	4,6,21	500	465	72	7.73		
34142	Hendry	26	Citrus	Micro	30.7	17	Well	7.1	490	Turbine	Diesel	4,21	625	590	87	4.16		
34142	Hendry	27	Citrus	Micro	13.4	7	Well	7.1	490	Turbine	Diesel	21	375	350	86	2.07		
34142	Hendry	28	Citrus	Micro	32.4	7	Well	7.7	490	Turbine	Diesel	4,21	610	570	89	3.22		
34142	Hendry	29	Citrus	Micro	42.3	17	Well	7.0	525	Turbine	Diesel	4,21,31	880	860	86	6.53		
34142	Hendry	30	Citrus	Micro	46.0	17	Well	7.0	525	Turbine	Diesel	4,6,21,31,33	900	885	67	28.35		
34142	Hendry	31	Citrus	Micro	46.4	7	Well	7.0	525	Turbine	Diesel	4,6,21,30,31	840	810	73	20.62		
34142	Hendry	32	Citrus	Micro	28.0	17	Well	7.0	525	Turbine	Diesel	4,21,31,33	750	710	86	4.32		
34142	Hendry	33	Citrus	Micro	32.6	7	Well	7.1	435	Turbine	Diesel	21,30	620	660	85	5.66		
34142	Hendry	34	Citrus	Micro	29.1	7	Well	7.1	435	Turbine	Diesel	4,21	810	790	84	5.62		
34142	Hendry	35	Citrus	Micro	27.6	7	Well	7.1	435	Turbine	Diesel	21	840	810	86	4.26		
34142	Hendry	36	Citrus	Micro	30.3	17	Well	7.1	435	Turbine	Diesel	4,21	880	860	86	4.68		

894.5

76.61

315.48

0.00

Millions of gallons: 102,799,746

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