

# **Lower West Coast Mobile Irrigation Lab**

## **Quarterly Report Fourth Quarter – Fiscal Year 2013 July 1 through September 30, 2013**

**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 2013, from July 1 to September 30, 2013. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 19 of which were initial evaluations, and 17 of which were follow-up evaluations. Of those completed, all 36 evaluations were performed on microjet systems on citrus groves.

## **RESULTS**

Agricultural system evaluations are rated based on the measured Emission Uniformity (EU) of systems. The average EU of the agricultural systems evaluated was 84.5%.

## **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: 19.6 million gallons (60.20 acre feet) per year.**

**AWS: 30.7 million gallons (94.15 acre feet) per year.**

# Conservation Education/Outreach Activities

## **August**

- MIL staff set up and manned a booth at the 2013 Citrus Expo in North Fort Myers.

## **September**

- MIL staff participated in a meeting of the Greenscape Alliance, a group of government agencies and university employees that addresses water-quality issues.

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](http://www.collierswcd.org).

Attachment # 1a: Ag - Lower West Coast

MIL ID: 2

Federal Quarter: 4

MIL Federal Fiscal Year: 2013

Eval ID #	Evaluation Type	Irrigation System Type	Irrig System Distrib or Emiss Unif (%)		Irrig Sys Ac	Land Use		Annual Water Use (in.) NIR	Irrigation System Problems	Water Savings (ac-ft)	
			Max	Per Eval		Type	Crop			Total AWS	Total PWS
1	Follow Up	Micro Spray	95	84	19.8	Ag	Citrus	16.81	2,4,6,40,56	1.22	
2	Initial	Micro Spray	95	81	19.8	Ag	Citrus	16.81	2,4,6,56		5.05
3	Initial	Micro Spray	95	90	20.3	Ag	Citrus	16.81	2,40,56		1.66
4	Initial	Micro Spray	95	86	20.3	Ag	Citrus	16.81	2,4,6,40,56		3.13
5	Initial	Micro Spray	95	84	20.3	Ag	Citrus	16.81	2,4,6,40,56		3.92
6	Initial	Micro Spray	95	84	20.3	Ag	Citrus	16.81	2,4,40,56		3.92
7	Initial	Micro Spray	95	88	20.3	Ag	Citrus	16.81	2,4,6,40,56		2.38
8	Initial	Micro Spray	95	90	20.3	Ag	Citrus	16.81	2,4,40,56		1.66
9	Follow Up	Micro Spray	95	76	19.0	Ag	Citrus	16.81	2,4,31,33	1.95	
10	Follow Up	Micro Spray	95	87	19.0	Ag	Citrus	16.81	2,6,31,33	2.68	
11	Follow Up	Micro Spray	95	91	19.0	Ag	Citrus	16.81	2,6,31,33	5.32	
12	Follow Up	Micro Spray	95	92	19.0	Ag	Citrus	16.81	2,6,31,33	1.66	
13	Follow Up	Micro Spray	95	69	19.0	Ag	Citrus	16.81	2,4,6,31,33,35	0.00	
14	Follow Up	Micro Spray	95	93	19.0	Ag	Citrus	16.81	2,31,33	2.69	
15	Initial	Micro Spray	95	88	18.0	Ag	Citrus	16.81	2,40		2.11
16	Initial	Micro Spray	95	81	18.0	Ag	Citrus	16.81	2,4,6,20,40,41		4.59
17	Initial	Micro Spray	95	81	18.0	Ag	Citrus	16.81	2,6		4.59
18	Initial	Micro Spray	95	90	18.0	Ag	Citrus	16.81	2,20		1.47
19	Initial	Micro Spray	95	78	18.0	Ag	Citrus	16.81	2,6,20,35		5.78
20	Initial	Micro Spray	95	91	18.0	Ag	Citrus	16.81	2		1.17
21	Follow Up	Micro Spray	95	89	15.6	Ag	Citrus	16.81	2,4,56	0.86	
22	Follow Up	Micro Spray	95	84	15.6	Ag	Citrus	16.81	2,4,6,33,56	0.00	
23	Follow Up	Micro Spray	95	82	15.6	Ag	Citrus	16.81	2,4,6,30,56	4.57	
24	Follow Up	Micro Spray	95	80	15.6	Ag	Citrus	16.81	2,4,56	0.00	
25	Follow Up	Micro Spray	95	80	15.6	Ag	Citrus	16.81	2,4,6,40,56	20.19	
26	Follow Up	Micro Spray	95	92	15.6	Ag	Citrus	16.81	2,4,30,56	21.77	
27	Follow Up	Micro Spray	95	88	18.2	Ag	Citrus	16.81	4,12,33,35	1.75	
28	Initial	Micro Spray	95	85	18.2	Ag	Citrus	16.81	4,12,33		3.16
29	Follow Up	Micro Spray	95	83	18.2	Ag	Citrus	16.81	6,33,12	3.28	
30	Follow Up	Micro Spray	95	76	18.2	Ag	Citrus	16.81	4,6,12,33	15.48	
31	Initial	Micro Spray	95	74	18.2	Ag	Citrus	16.81	4,6,12,33		7.62
32	Follow Up	Micro Spray	95	75	18.2	Ag	Citrus	16.81	4,6,12,30,33	10.73	
33	Initial	Micro Spray	95	84	17.0	Ag	Citrus	16.81	2,4,6		3.28
34	Initial	Micro Spray	95	86	14.0	Ag	Citrus	16.81	2,6		2.16
35	Initial	Micro Spray	95	91	14.0	Ag	Citrus	16.81	2		0.91
36	Initial	Micro Spray	95	88	14.0	Ag	Citrus	16.81	2,4		1.64
				<b>84.5</b>	<b>645.2</b>					<b>94.15</b>	<b>60.20</b>

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: 2

Federal Quarter: 4

Federal Fiscal Year: 2013

Eval ID #	County Name	Zip Code	Soil Type No.	Water Source	TDS	pH	Pump Type	Inline Flow	UFM Flow	Motor Type
1	Hendry	34142	7	Well	690	6.4	Turbine or Submersible	550	565	Diesel
2	Hendry	34142	7	Well	690	6.4	Turbine or Submersible	550	565	Diesel
3	Hendry	34142	17	Well	550	7.0	Turbine or Submersible	500	640	Diesel
4	Hendry	34142	17	Well	550	7.0	Turbine or Submersible	500	630	Diesel
5	Hendry	34142	17	Well	550	7.0	Turbine or Submersible	475	640	Diesel
6	Hendry	34142	17	Well	550	7.0	Turbine or Submersible	480	650	Diesel
7	Hendry	34142	7	Well	550	7.0	Turbine or Submersible	475	570	Diesel
8	Hendry	34142	7	Well	550	7.0	Turbine or Submersible	475	650	Diesel
9	Hendry	34142	7	Well	500	6.9	Turbine or Submersible	775	640	Diesel
10	Hendry	34142	17	Well	500	6.9	Turbine or Submersible	750	635	Diesel
11	Hendry	34142	17	Well	500	6.9	Turbine or Submersible	775	640	Diesel
12	Hendry	34142	17	Well	500	6.9	Turbine or Submersible	775	635	Diesel
13	Hendry	34142	7	Well	500	6.9	Turbine or Submersible	750	625	Diesel
14	Hendry	34142	7	Well	500	6.9	Turbine or Submersible	775	630	Diesel
15	Hendry	34142	7	Well	530	6.9	Turbine or Submersible	480	490	Diesel
16	Hendry	34142	17	Well	530	6.9	Turbine or Submersible	525	560	Diesel
17	Hendry	34142	7	Well	530	6.9	Turbine or Submersible	490	515	Diesel
18	Hendry	34142	17	Well	530	6.9	Turbine or Submersible	480	495	Diesel
19	Hendry	34142	7	Well	530	6.9	Turbine or Submersible	460	475	Diesel
20	Hendry	34142	7	Well	530	6.9	Turbine or Submersible	525	550	Diesel
21	Hendry	34142	17	Well	450	7.3	Turbine or Submersible	490	470	Diesel
22	Hendry	34142	7	Well	450	7.3	Turbine or Submersible	500	480	Diesel
23	Hendry	34142	7	Well	450	7.3	Turbine or Submersible	520	490	Diesel
24	Hendry	34142	7	Well	450	7.3	Turbine or Submersible	470	450	Diesel
25	Hendry	34142	7	Well	450	7.3	Turbine or Submersible	480	465	Diesel
26	Hendry	34142	17	Well	450	7.3	Turbine or Submersible	480	470	Diesel
27	Hendry	34142	17	Well	470	7.3	Turbine or Submersible	600	475	Diesel
28	Hendry	34142	17	Well	470	7.3	Turbine or Submersible	625	510	Diesel
29	Hendry	34142	7	Well	470	7.3	Turbine or Submersible	600	490	Diesel
30	Hendry	34142	7	Well	470	7.3	Turbine or Submersible	650	520	Diesel
31	Hendry	34142	7	Well	470	7.3	Turbine or Submersible	625	520	Diesel
32	Hendry	34142	7	Well	470	7.3	Turbine or Submersible	625	510	Diesel
33	Hendry	34142	7	Well	490	7.2	Turbine or Submersible	575	515	Diesel
34	Hendry	34142	7	Well	490	7.2	Turbine or Submersible	700	450	Diesel
35	Hendry	34142	7	Well	490	7.2	Turbine or Submersible	700	445	Diesel
36	Hendry	34142	7	Well	490	7.2	Turbine or Submersible	725	470	Diesel

**ATTACHMENT # 3: MIL EVALUATION WAITING LIST**

**MIL NAME:** Lower West Coast

**MIL ID:** 2

**FEDERAL QUARTER:** 4      **FEDERAL FISCAL YEAR:** 2013

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Collier	Citrus		1		1000
Hendry	Citrus		1		400
<b>Totals</b>			<b>2</b>		<b>1400</b>

**CATEGORIES: SAME AS IN ATTACH 1A SPREADSHEET DELIVERABLE**

