

Lower West Coast Mobile Irrigation Lab

Quarterly Report First Quarter – Fiscal Year 2013 October 1 through December 31, 2012

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 2013, from October 1 to December 31, 2012. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 26 of which were initial evaluations, and 10 of which were follow-ups. Of those completed, all 36 evaluations were performed on microspray systems.

RESULTS

Agricultural system evaluations are rated based on the measured Emission Uniformity (EU) of systems. The average EU of the agricultural systems evaluated was 85%.

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: 43.1 million gallons (132.2 acre feet) per year.

AWS: 62.3 million gallons (192.1 acre feet) per year.

Conservation Education/Outreach Activities

October

- MIL staff participated in a meeting about agricultural water use in Labelle, hosted by the Office of Ag Water Policy.

November

- MIL staff completed a two-day Agricultural Water Management training course presented by the Irrigation Association.
- 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, which are available to all MILs 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 Conservation District and MIL website at www.collierswcd.org.

Attachment # 1a: Ag - Lower West Coast

MIL ID: 2

Federal Quarter: 1

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	34.0	Ag	Citrus	16.81	4	28.35	
2	Follow Up	Micro Spray	95	87	34.0	Ag	Citrus	16.81	4	23.33	
3	Follow Up	Micro Spray	95	83	26.9	Ag	Citrus	16.81	6	12.57	
4	Follow Up	Micro Spray	95	86	28.7	Ag	Citrus	16.81	4	1.69	
5	Follow Up	Micro Spray	95	84	31.2	Ag	Citrus	16.81	4,6,30,33	24.65	
6	Follow Up	Micro Spray	95	86	33.9	Ag	Citrus	16.81	4,30	16.73	
7	Follow Up	Micro Spray	95	86	28.6	Ag	Citrus	16.81	4,30,33	19.09	
8	Follow Up	Micro Spray	95	87	28.6	Ag	Citrus	16.81	4,30	19.63	
9	Follow Up	Micro Spray	95	82	28.6	Ag	Citrus	16.81	31	44.31	
10	Follow Up	Micro Spray	95	85	28.6	Ag	Citrus	16.81	31,33	1.72	
11	Initial	Micro Spray	95	84	28.0	Ag	Citrus	16.81	3,20,40		5.41
12	Initial	Micro Spray	95	86	11.8	Ag	Citrus	16.81	20,30,33		1.82
13	Initial	Micro Spray	95	63	24.8	Ag	Citrus	16.81	2,4,6,30,33		18.57
14	Initial	Micro Spray	95	70	24.5	Ag	Citrus	16.81	2,4,6		12.90
15	Initial	Micro Spray	95	79	22.5	Ag	Citrus	16.81	2,4		6.72
16	Initial	Micro Spray	95	81	52.2	Ag	Citrus	16.81	30,33		13.30
17	Initial	Micro Spray	95	85	18.4	Ag	Citrus	16.81	2		3.19
18	Initial	Micro Spray	95	84	27.7	Ag	Citrus	16.81	2,4		5.35
19	Initial	Micro Spray	95	82	23.8	Ag	Citrus	16.81	2,4		5.56
20	Initial	Micro Spray	95	91	23.8	Ag	Citrus	16.81			1.54
21	Initial	Micro Spray	95	94	23.8	Ag	Citrus	16.81			0.37
22	Initial	Micro Spray	95	92	22.7	Ag	Citrus	16.81	40		1.09
23	Initial	Micro Spray	95	93	22.7	Ag	Citrus	16.81	40		0.72
24	Initial	Micro Spray	95	90	21.1	Ag	Citrus	16.81	30		1.73
25	Initial	Micro Spray	95	88	21.1	Ag	Citrus	16.81	30,33		2.47
26	Initial	Micro Spray	95	92	23.2	Ag	Citrus	16.81			1.12
27	Initial	Micro Spray	95	92	23.2	Ag	Citrus	16.81	4		1.12
28	Initial	Micro Spray	95	86	24.0	Ag		16.81			3.70
29	Initial	Micro Spray	95	87	25.0	Ag	Citrus	16.81	4,30,33		3.39
30	Initial	Micro Spray	95	95	23.9	Ag	Citrus	16.81	4,30,33		0.00
31	Initial	Micro Spray	95	78	15.0	Ag	Citrus	16.81	4,22		4.82
32	Initial	Micro Spray	95	90	15.0	Ag	Citrus	16.81	4,22,30		1.23
33	Initial	Micro Spray	95	92	15.0	Ag	Citrus	16.81	4,22,33		0.72
34	Initial	Micro Spray	95	79	15.0	Ag	Citrus	16.81	4,22,33		4.48
35	Initial	Micro Spray	95	84	15.0	Ag	Citrus	16.81	4,22,33		2.90
36	Initial	Micro Spray	95	73	63.0	Ag	Citrus	16.81	6,20		28.00
				85.0	929.3					192.08	132.23

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: **2**

Federal Quarter: **1**

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	Collier	34142	7	Well			Turbine or Submersible	725	760	Electric
2	Collier	34142	7	Well			Turbine or Submersible	700	750	Electric
3	Collier	34142	7	Well			Turbine or Submersible	625	670	Electric
4	Collier	34142	7	Well			Turbine or Submersible	650	680	Electric
5	Collier	34142	7	Well			Turbine or Submersible	750	680	Electric
6	Collier	34142	7	Well			Turbine or Submersible	725	720	Electric
7	Collier	34142	7	Well			Turbine or Submersible	650	650	Electric
8	Collier	34142	7	Well			Turbine or Submersible	675	660	Electric
9	Collier	34142	7	Well			Turbine or Submersible	750	725	Electric
10	Collier	34142	7	Well			Turbine or Submersible	750	750	Electric
11	Collier	34142	11	Well			Turbine or Submersible	1500		Electric
12	Collier	34142	17	Well			Turbine or Submersible	900		Electric
13	Collier	34142	7	Well	750	7.0	Turbine or Submersible	600		Electric
14	Collier	34142	7	Well	750	7.0	Turbine or Submersible	600		Electric
15	Collier	34142	29	Well	750	7.0	Turbine or Submersible	575		Electric
16	Collier	34142	29	Well	470	6.8	Turbine or Submersible	1550		Diesel
17	Collier	34142	29	Well	470	6.8	Turbine or Submersible	1180		Diesel
18	Collier	34142	29	Well	460	6.8	Turbine or Submersible	550		Diesel
19	Collier	34142	7	Well	460	6.8	Turbine or Submersible	520		Diesel
20	Hendry	33975	8	Surface			Turbine or Submersible	530	595	Diesel
21	Hendry	33975	8	Surface			Turbine or Submersible	550	615	Diesel
22	Hendry	33975	51	Surface			Turbine or Submersible	520	570	Diesel
23	Hendry	33975	1	Surface			Turbine or Submersible	560	600	Diesel
24	Hendry	33975	2	Surface			Turbine or Submersible	540	600	Diesel
25	Hendry	33975	1	Surface			Turbine or Submersible	500	550	Diesel
26	Hendry	33975	2	Surface			Turbine or Submersible	600	630	Diesel
27	Hendry	33975	7	Surface			Turbine or Submersible	650	690	Diesel
28	Hendry	33975	1	Surface			Turbine or Submersible	500	560	Diesel
29	Hendry	33975	1	Surface			Turbine or Submersible	1080	970	Diesel
30	Hendry	33975	1	Surface			Turbine or Submersible	860	880	Diesel
31	Hendry	34142	15	Well			Turbine or Submersible	310	260	Diesel
32	Hendry	34142	73	63			Turbine or Submersible	310	6,20	Diesel
33	Hendry	34142	7	Well			Turbine or Submersible	200	180	Diesel
34	Hendry	34142	7	Well			Turbine or Submersible	190	165	Diesel
35	Hendry	34142	7	Well			Turbine or Submersible	195	175	Diesel
36	Glades	33935	6	Surface			Turbine or Submersible	1700	1460	Diesel

Attachment # 4: MIL Conservation Education and Outreach Report

MIL Name:	Lower West Coast
MIL ID:	2
Federal FY	2013
Fed Quarter:	1

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
10/23/12	Agricultural Irrigation meeting	Office of Ag Water Policy	30	Labelle	8
11/4-5/2012	Agricultural Irrigation class	Irrigation Association	20	Orlando	20
11/30/12	Water Conservation	Greenscape Alliance	8	Naples	6
TOTALS			58		34

Notes:

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: Lower West Coast

MIL ID: 2

FEDERAL QUARTER: 1 **FEDERAL FISCAL YEAR:** 2013

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Glades	Citrus		1		80
Lee	Citrus		1		1100
Totals			2		1180

CATEGORIES: SAME AS IN ATTACH 1A SPREADSHEET DELIVERABLE