

Lower West Coast Mobile Irrigation Lab

Quarterly Report Third Quarter – Fiscal Year 2012 April 1 through June 30, 2012

Sponsored by:

**Collier Soil and Water Conservation District
Florida Department of Agriculture and Consumer Services
Natural Resources Conservation Service**

**14700 Immokalee Road
Naples, FL 34120
(239) 455-4100**

Evaluation Results

SYSTEMS EVALUATED

This report covers the third quarter of Fiscal Year 2012, from April 1 to June 30, 2012. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 30 of which were initial evaluations, and 6 of which were follow-ups. Of those completed, all 36 evaluations were performed on citrus 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 81%.

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: 71.3 million gallons (218.7 acre feet) per year.

AWS: 17.2 million gallons (52.6 acre feet) per year.

Conservation Education/Outreach Activities

April

- MIL staff delivered the Irrigation portion of the Project Greenscape Best Management Practices training seminar for lawn care professionals, which was held at the Rookery Bay National Estuarine Research Reserve in Naples.

June

- MIL staff assisted the Big Cypress Basin Urban MIL in training Collier County Master Gardeners in irrigation and water conservation.
- MIL staff delivered the Irrigation portion of the Project Greenscape Best Management Practices training seminar for lawn care professionals, which was held at the 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, 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.

**CONDENSED QUARTERLY REPORT FORM
AGRICULTURAL MOBILE IRRIGATION LABS**

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

FDACS FISCAL YEAR: 2012

FDACS Contract #: 016018	FDACS Reporting Quarter: 4
MIL #: 2	MIL Name: Lower West Coast
Total Evaluations (Initial and Follow Up) Required: 36	Total Follow-Up Evaluations Required: 0
Completed Initial Evaluations: 30	Completed Follow-Up Evaluations: 6
Total Potential Water Savings (Ac-ft/MG): 218.7 Ac-ft / 71.3 MG	Total Follow-Up Actual Water Savings (Ac-ft/MG): 52.6 Ac-ft / 17.2 MG
Total Acres Evaluated: 990 Acres	Total Instant Actual Water Savings (Ac-ft/MG): 0.0 Ac-ft / 0.0 MG
BREAKDOWN BY NUMBER OF EVALUATIONS	
Farms: 36	Nurseries: 0
WAITING LIST INFORMATION	
Number of Evaluations: 3	Approximate Total Acres: 2,500
Comments / Additional Information: This report covers the following months and year: April – June 2012 The following Attachments are also included under separate cover: Attachments 1a and 1b, “Water Savings Data and Results”, Attachment 3, “Waiting List”, and Attachment 4, “Education and Outreach”	
Submitted by: Mark Siverling	Title: MIL Team Leader
Email: mark.siverling@fl.nacdnet.net	Date: July 1, 2012
Questions: Please contact Camilo Gaitan at (850) 617-1715 or at gaitanc@doacs.state.fl.us	

Attachment # 1a: Ag - Lower West Coast

MIL ID: 2

Federal Quarter: 3

MIL Federal Fiscal Year: 2012

Eval ID #	Evaluation Type	Irrigation System Type	Irrig System Distrib or Emiss Unif (%)		Irrig Sys Ac	Land Use		Annual Water Use (in.)		Irrigation System Problems	Water Savings (ac-ft)	
			Max	Per Eval		Type	Crop	NIR	Actual		Total AWS	Total PWS
			1	Follow Up		Micro Spray	95	77	30.00		Ag	Citrus
2	Follow Up	Micro Spray	95	66	30.00	Ag	Citrus	16.8		6,30,33	6.37	
3	Initial	Micro Spray	95	84	45.00	Ag	Citrus	16.8		12		8.69
4	Initial	Micro Spray	95	90	45.00	Ag	Citrus	16.8		12		3.69
5	Follow Up	Micro Spray	95	86	30.00	Ag	Citrus	16.8		2,5,12,26,30,33	7.17	
6	Follow Up	Micro Spray	95	93	30.00	Ag	Citrus	16.8		5,12,26,30,31,33	12.38	
7	Follow Up	Micro Spray	95	91	30.00	Ag	Citrus	16.8		2,5,12,26,30,33	8.40	
8	Follow Up	Micro Spray	95	75	30.00	Ag	Citrus	16.8		2,4,6,12,26,30,33	12.86	
9	Initial	Micro Spray	95	69	45.00	Ag	Citrus	16.8		2,4,6,12,41		25.00
10	Initial	Micro Spray	95	85	25.00	Ag	Citrus	16.8		2,21,30,33,41		4.34
11	Initial	Micro Spray	95	87	25.00	Ag	Citrus	16.8		2,21,26,30,33		3.39
12	Initial	Micro Spray	95	79	25.00	Ag	Citrus	16.8		2,21,30		7.47
13	Initial	Micro Spray	95	74	25.00	Ag	Citrus	16.8		2,30		10.46
14	Initial	Micro Spray	95	76	25.00	Ag	Citrus	16.8		2,4,6,21		9.22
15	Initial	Micro Spray	95	81	25.00	Ag	Citrus	16.8		2,4,21		6.37
16	Initial	Micro Spray	95	72	25.00	Ag	Citrus	16.8		2,4,6,21		11.78
17	Initial	Micro Spray	95	70	25.00	Ag	Citrus	16.8		2,4,21,30		13.17
18	Initial	Micro Spray	90	81	25.00	Ag	Citrus	16.8		2,4,21		6.37
19	Initial	Micro Spray	90	94	25.00	Ag	Citrus	16.8		2,4,30		0.39
20	Initial	Micro Spray	90	88	25.00	Ag	Citrus	16.8		2,4,21,30,33		2.93
21	Initial	Micro Spray	90	81	25.00	Ag	Citrus	16.8		2,4,21,30,41		6.37
22	Initial	Micro Spray	90	87	25.00	Ag	Citrus	16.8		2,4,21,30		3.39
23	Initial	Micro Spray	95	58	25.00	Ag	Citrus	16.8		2,4,6,21,31,33		23.52
24	Initial	Micro Spray	95	87	25.00	Ag	Citrus	16.8		4,21,33		3.39
25	Initial	Micro Spray	95	83	25.00	Ag	Citrus	16.8		21,33		5.33
26	Initial	Micro Spray	95	72	25.00	Ag	Citrus	16.8		4,6,21		11.78
27	Initial	Micro Spray	95	78	25.00	Ag	Citrus	16.8		4,6,21		8.03
28	Initial	Micro Spray	95	86	25.00	Ag	Citrus	16.8		2		3.86
29	Initial	Micro Spray	95	81	25.00	Ag	Citrus	16.8		4,6,33		6.37
30	Initial	Micro Spray	95	83	25.00	Ag	Citrus	16.8		2,4,6,21,33		5.33
31	Initial	Micro Spray	95	87	25.00	Ag	Citrus	16.8		4,6,21		3.39
32	Initial	Micro Spray	95	86	25.00	Ag	Citrus	16.8		2,21,30		3.86
33	Initial	Micro Spray	95	85	25.00	Ag	Citrus	16.8		2,6,21,30		4.34
34	Initial	Micro Spray	95	83	25.00	Ag	Citrus	16.8		2,4,21,30		5.33
35	Initial	Micro Spray	95	83	25.00	Ag	Citrus	16.8		2,4,21,30		5.33
36	Initial	Micro Spray	95	82	25.00	Ag	Citrus	16.8		33		5.84
				81.1	990.0						52.63	218.72

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: 2

Federal Quarter: 3

Federal Fiscal Year: 2012

Eval ID #	County Name	Zip Code	Soil Type No.	Water Source	TDS	pH	Pump Type	Inline Flow	UFM Flow	Motor Type
1	Collier	34142	10	Well	780	6.7	Turbine or Submersible	400		Electric
2	Collier	34142	10	Well	780	6.7	Turbine or Submersible	380		Electric
3	Collier	34142	16	Well	520	6.8	Turbine or Submersible			Diesel
4	Collier	34142	16	Well	520	6.8	Turbine or Submersible			Diesel
5	Collier	34142	10	Well	550	6.6	Turbine or Submersible			Diesel
6	Collier	34142	10	Well	550	6.6	Turbine or Submersible			Diesel
7	Collier	34142	10	Well	550	6.6	Turbine or Submersible			Diesel
8	Collier	34142	10	Well	550	6.6	Turbine or Submersible			Diesel
9	Collier	34142	16	Well	460	6.8	Turbine or Submersible			Diesel
10	Hendry	34142	26	Well	440	6.9	Turbine or Submersible	900		Diesel
11	Hendry	34142	26	Well	440	6.9	Turbine or Submersible	900		Diesel
12	Hendry	34142	26	Well	440	6.9	Turbine or Submersible	900		Diesel
13	Hendry	34142	26	Well	440	6.9	Turbine or Submersible	900		Diesel
14	Hendry	34142	26	Well	550	6.7	Turbine or Submersible	800		Diesel
15	Hendry	34142	26	Well	550	6.7	Turbine or Submersible	800		Diesel
16	Hendry	34142	26	Well	550	6.7	Turbine or Submersible	800		Diesel
17	Hendry	34142	26	Well	550	6.7	Turbine or Submersible	820		Diesel
18	Hendry	34142	26	Well	550	6.7	Turbine or Submersible	810		Diesel
19	Hendry	34142	26	Well			Turbine or Submersible	725		Diesel
20	Hendry	34142	26	Well			Turbine or Submersible	725		Diesel
21	Hendry	34142	7	Well			Turbine or Submersible	750		Diesel
22	Hendry	34142	26	Well			Turbine or Submersible	725		Diesel
23	Hendry	34142	7	Well	530	6.9	Turbine or Submersible	700		Diesel
24	Hendry	34142	7	Well	530	6.9	Turbine or Submersible	590		Diesel
25	Hendry	34142	7	Well	530	6.9	Turbine or Submersible	700		Diesel
26	Hendry	34142	26	Well	530	6.9	Turbine or Submersible	730		Diesel
27	Hendry	34142	26	Well	530	6.9	Turbine or Submersible	730		Diesel
28	Hendry	34142	7	Well	480	6.9	Turbine or Submersible	710	660	Diesel
29	Hendry	34142	7	Well	480	6.9	Turbine or Submersible	750	690	Diesel
30	Hendry	34142	7	Well	480	6.9	Turbine or Submersible	750	680	Diesel
31	Hendry	34142	7	Well	480	6.9	Turbine or Submersible	730	680	Diesel
32	Hendry	34142	4	Well	480	6.8	Turbine or Submersible	780		Diesel
33	Hendry	34142	4	Well	480	6.8	Turbine or Submersible	750		Diesel
34	Hendry	34142	4	Well	480	6.8	Turbine or Submersible	790		Diesel
35	Hendry	34142	4	Well	480	6.8	Turbine or Submersible	780		Diesel
36	Hendry	34142	26	Well	480	6.4	Turbine or Submersible	600		Diesel

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: Lower West Coast

MIL ID: 2

FEDERAL QUARTER: 3 **FEDERAL FISCAL YEAR:** 2012

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Collier	Citrus		1		800
Hendry	Citrus		1		600
Lee	Citrus		1		1100
Totals			3		2500

CATEGORIES: SAME AS IN ATTACH 1A SPREADSHEET DELIVERABLE