Lower West Coast
Mobile Irrigation Lab

Quarterly Report
First Quarter – Fiscal Year 2012
October 1 through December 31, 2011

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
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Evaluation Results

SYSTEMS EVALUATED

This report covers the first quarter of Fiscal Year 2012, from October 1 to December 31, 2011. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, all of which were initial evaluations. Of those completed, 31 evaluations were performed on citrus microspray systems, and 5 evaluations were performed on vegetable drip 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 74%.

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: 191.8 million gallons (588.6 acre feet) per year.
AWS: 0.0 million gallons (0.0 acre feet) per year.

Conservation Education/Outreach Activities

October

- 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:** 2
MIL #: 2	**MIL Name:** Lower West Coast
Total Evaluations (Initial and Follow Up) Required: 36	**Total Follow-Up Evaluations Required:** 0
Completed Initial Evaluations: 36	**Completed Follow-Up Evaluations:** 0
Total Potential Water Savings (Ac-ft/MG): 588.6 Ac-ft / 191.8 MG	**Total Follow-Up Actual Water Savings (Ac-ft/MG):** 0.0 Ac-ft / 0.0 MG
Total Acres Evaluated: 856 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: 4	Approximate Total Acres: 3540

Comments / Additional Information:

This report covers the following months and year: October – December 2011

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
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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:** 1 **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	Initial	Micro Spray	95	67.0	18.40	Ag	Citrus	16.8		27,40	0.00	11.34
2	Initial	Micro Spray	95	75.0	15.80	Ag	Citrus	16.8		27,40	0.00	6.21
3	Initial	Micro Spray	95	90.0	15.80	Ag	Citrus	16.8			0.00	1.29
4	Initial	Micro Spray	95	85.0	15.40	Ag	Citrus	16.8		5,30	0.00	2.67
5	Initial	Micro Spray	95	86.0	15.30	Ag	Citrus	16.8		5	0.00	2.36
6	Initial	Micro Spray	95	75.0	16.70	Ag	Citrus	16.8		30,33,35	0.00	6.57
7	Initial	Micro Spray	95	83.0	11.60	Ag	Citrus	16.8		5,6,27,30	0.00	2.47
8	Initial	Micro Spray	95	71.0	14.00	Ag	Citrus	16.8		6,27,30	0.00	6.98
9	Initial	Micro Spray	95	84.0	10.30	Ag	Citrus	16.8		5,27	0.00	1.99
10	Initial	Micro Spray	95	87.0	9.90	Ag	Citrus	16.8		5,27	0.00	1.34
11	Initial	Micro Spray	95	84.0	14.30	Ag	Citrus	16.8		33,40	0.00	2.76
12	Initial	Micro Spray	95	70.0	15.10	Ag	Citrus	16.8		33,35	0.00	7.95
13	Initial	Micro Spray	95	73.0	14.20	Ag	Citrus	16.8		2,4,6,30,33,40	0.00	6.31
14	Initial	Micro Spray	95	87.0	16.00	Ag	Citrus	16.8		30,40	0.00	2.17
15	Initial	Micro Spray	95	44.0	15.70	Ag	Citrus	16.8		2,5,27,30,33,40	0.00	26.83
16	Initial	Micro Spray	95	75.0	12.90	Ag	Citrus	16.8		2,27,33	0.00	5.07
17	Initial	Micro Spray	95	71.0	15.40	Ag	Citrus	16.8		2,27,30,33	0.00	7.68
18	Initial	Drip	90	98.0	1.00	Ag	Pepper	12.5			0.00	0.00
19	Initial	Drip	90	91.0	1.00	Ag	Pepper	12.5			0.00	0.00
20	Initial	Drip	90	93.0	1.00	Ag	Pepper	12.5			0.00	0.00
21	Initial	Drip	90	90.0	1.00	Ag	Pepper	12.5			0.00	0.00
22	Initial	Drip	90	98.0	1.00	Ag	Pepper	12.5			0.00	0.00
23	Initial	Micro Spray	95	78.0	17.00	Ag	Citrus	16.8		2,6,25,27.41	0.00	5.46
24	Initial	Micro Spray	95	63.0	50.00	Ag	Citrus	16.8		1,4,6,21,27	0.00	37.45
25	Initial	Micro Spray	95	53.0	50.00	Ag	Citrus	16.8		1,4,21,27	0.00	58.43
26	Initial	Micro Spray	95	62.0	50.00	Ag	Citrus	16.8		1,4,6,21,27	0.00	39.24
27	Initial	Micro Spray	95	68.0	50.00	Ag	Citrus	16.8		1,4,21,27,41	0.00	29.27
28	Initial	Micro Spray	95	60.0	53.00	Ag	Citrus	16.8		1,4,21,27,56	0.00	45.59
29	Initial	Micro Spray	95	71.0	53.00	Ag	Citrus	16.8		1,4,21,27,56	0.00	26.42
30	Initial	Micro Spray	95	53.0	53.00	Ag	Citrus	16.8		1,4,6,21,27,30,41,56	0.00	61.93
31	Initial	Micro Spray	95	58.0	53.00	Ag	Citrus	16.8		1,4,6,21,27,56	0.00	49.86
32	Initial	Micro Spray	95	65.0	28.00	Ag	Citrus	16.8		1,4,21,27,33	0.00	19.06
33	Initial	Micro Spray	95	68.0	28.00	Ag	Citrus	16.8		1,4,21,27	0.00	16.39
34	Initial	Micro Spray	95	50.0	28.00	Ag	Citrus	16.8		1,4,21,27	0.00	37.16
35	Initial	Micro Spray	95	72.0	28.00	Ag	Citrus	16.8		1,4,6,21,27	0.00	13.19
36	Initial	Micro Spray	95	63.0	63.00	Ag	Citrus	16.8		1,4,21	0.00	47.19
				73.9	**855.8**						**0.00**	**588.63**

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: 2 **Federal Quarter: 1** **Federal Fiscal Year: 2012**

Eval ID #	County Name	Zip Code	Soil Type No.	Water Source	TDS	pH	Pump Type	Has Flow Meter	Motor Type
1	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
2	Lee	33913	6	Well			Turbine or Submersible	Yes	Diesel
3	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
4	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
5	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
6	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
7	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
8	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
9	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
10	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
11	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
12	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel
13	Lee	33913	33	Well			Turbine or Submersible	Yes	Diesel
14	Lee	33913	33	Well			Turbine or Submersible	Yes	Diesel
15	Lee	33913	14	Well			Turbine or Submersible	Yes	Diesel
16	Lee	33913	33	Well			Turbine or Submersible	Yes	Diesel
17	Lee	33913	33	Well			Turbine or Submersible	Yes	Diesel
18	Coller	34142	29	Well			Turbine or Submersible	Yes	Electric
19	Coller	34142	29	Well			Turbine or Submersible	Yes	Electric
20	Coller	34142	29	Well			Turbine or Submersible	Yes	Electric
21	Coller	34142	29	Well			Turbine or Submersible	Yes	Electric
22	Coller	34142	29	Well			Turbine or Submersible	Yes	Electric
23	Hendry	33930	7	Well			Turbine or Submersible	Yes	Diesel
24	Hendry	34142	7	Well			Turbine or Submersible	Yes	Diesel
25	Hendry	34142	7	Well			Turbine or Submersible	Yes	Diesel
26	Hendry	34142	26	Well			Turbine or Submersible	Yes	Diesel
27	Hendry	34142	26	Well			Turbine or Submersible	Yes	Diesel
28	Hendry	34142	26	Well			Turbine or Submersible	Yes	Diesel
29	Hendry	34142	4	Well			Turbine or Submersible	Yes	Diesel
30	Hendry	34142	26	Well			Turbine or Submersible	Yes	Diesel
31	Hendry	34142	3	Well			Turbine or Submersible	Yes	Diesel
32	Hendry	34142	26	Well			Turbine or Submersible	Yes	Diesel
33	Hendry	34142	26	Well			Turbine or Submersible	Yes	Diesel
34	Hendry	34142	26	Well			Turbine or Submersible	Yes	Diesel
35	Hendry	34142	7	Well			Turbine or Submersible	Yes	Diesel
36	Hendry	34142	26	Well			Turbine or Submersible	Yes	Diesel

Attachment # 4: MIL Conservation Education and Outreach Report

MIL Name:	**Lower West Coast**
MIL ID:	2
Federal FY	2012
Fed Quarter:	1

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
10/25/11	Water Conservation and Irrigation	Greenscapes Landscape Best Management Practices	25	Naples	6
TOTALS			**25**		**6**

Notes:

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: **Lower West Coast**

MIL ID: **2**

FEDERAL QUARTER: **1** **FEDERAL FISCAL YEAR:** **2012**

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Hendry	Citrus		2		1020
Lee	Citrus		1		2410
Hendry	Nursery		1		110
Totals			**4**		**3540**

CATEGORIES: SAME AS IN ATTACH 1A SPREADSHEET DELIVERABLE