Lower West Coast
Mobile Irrigation Lab

Quarterly Report
Second Quarter – Fiscal Year 2012
January 1 through March 31, 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 second quarter of Fiscal Year 2012, from January 1 to March 31, 2012. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 10 of which were initial evaluations, and 26 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 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: 70.2 million gallons (215.5 acre feet) per year.
AWS: 97.3 million gallons (298.7 acre feet) per year.

Conservation Education/Outreach Activities

January

- 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:** 3
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:** 26
Total Potential Water Savings (Ac-ft/MG): 215.5 Ac-ft / 70.2 MG	**Total Follow-Up Actual Water Savings (Ac-ft/MG):** 298.7 Ac-ft / 97.3 MG
Total Acres Evaluated: 1,145 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: 1,930

Comments / Additional Information:

This report covers the following months and year: January – March 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:** April 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:** 2 **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	65.0	63.00	Ag	Citrus	16.8		1,4,21,41		42.88
2	Initial	Micro Spray	95	57.0	63.00	Ag	Citrus	16.8		1,4,21,33,41		61.93
3	Initial	Micro Spray	95	50.0	63.00	Ag	Citrus	16.8		1,4,6,21,33		83.61
4	Initial	Micro Spray	95	95.0	10.00	Ag	Citrus	16.8				0.00
5	Initial	Micro Spray	95	95.0	6.00	Ag	Citrus	16.8				0.00
6	Follow-Up	Micro Spray	95	90.0	30.00	Ag	Citrus	16.8		12,30	11.67	
7	Follow-Up	Micro Spray	95	89.0	30.00	Ag	Citrus	16.8		12,30,41	14.58	
8	Follow-Up	Micro Spray	95	87.0	30.00	Ag	Citrus	16.8		12,30,41	16.35	
9	Follow-Up	Micro Spray	95	90.0	30.00	Ag	Citrus	16.8		2,12,30,33	11.67	
10	Follow-Up	Micro Spray	95	94.0	30.00	Ag	Citrus	16.8		12,30,31,41	17.09	
11	Follow-Up	Micro Spray	95	92.0	30.00	Ag	Citrus	16.8		12,30,31,41	14.36	
12	Follow-Up	Micro Spray	95	94.0	30.00	Ag	Citrus	16.8		12,30,31	13.66	
13	Follow-Up	Micro Spray	95	94.0	30.00	Ag	Citrus	16.8		12,30,31	9.87	
14	Follow-Up	Micro Spray	95	76.0	30.00	Ag	Citrus	16.8		2,4,6,12,30,41	0.00	
15	Follow-Up	Micro Spray	95	83.0	30.00	Ag	Citrus	16.8		12	8.56	
16	Follow-Up	Micro Spray	95	92.0	30.00	Ag	Citrus	16.8		12	14.36	
17	Follow-Up	Micro Spray	95	94.0	30.00	Ag	Citrus	16.8		12,41	16.20	
18	Follow-Up	Micro Spray	90	92.0	30.00	Ag	Citrus	12.5		2,41	19.98	
19	Follow-Up	Micro Spray	90	83.0	30.00	Ag	Citrus	12.5		2	9.40	
20	Follow-Up	Micro Spray	90	77.0	30.00	Ag	Citrus	12.5		2,41	3.79	
21	Follow-Up	Micro Spray	90	80.0	30.00	Ag	Citrus	12.5		41	8.37	
22	Follow-Up	Micro Spray	90	72.0	40.00	Ag	Citrus	12.5		2,4,6,12,41	0.00	
23	Follow-Up	Micro Spray	95	89.0	30.00	Ag	Citrus	16.8		2,12,41	11.97	
24	Follow-Up	Micro Spray	95	90.0	30.00	Ag	Citrus	16.8		2,12,26,30,33	9.34	
25	Initial	Micro Spray	95	79.0	30.00	Ag	Citrus	16.8		2,6,30		8.96
26	Initial	Micro Spray	95	87.0	30.00	Ag	Citrus	16.8		2,4,30,33		4.07
27	Initial	Micro Spray	95	84.0	30.00	Ag	Citrus	16.8		2,30,33		5.79
28	Initial	Micro Spray	95	84.0	30.00	Ag	Citrus	16.8		2,30		5.79
29	Follow-Up	Micro Spray	95	83.0	30.00	Ag	Citrus	16.8		2,33,41	12.09	
30	Follow-Up	Micro Spray	95	84.0	30.00	Ag	Citrus	16.8		2,4,6,41	9.16	
31	Follow-Up	Micro Spray	95	89.0	30.00	Ag	Citrus	16.8		2,41	8.81	
32	Initial	Micro Spray	95	90.0	30.00	Ag	Citrus	16.8		2,30		2.46
33	Follow-Up	Micro Spray	95	86.0	30.00	Ag	Citrus	16.8		41	26.18	
34	Follow-Up	Micro Spray	95	89.0	30.00	Ag	Citrus	16.8		41	16.46	
35	Follow-Up	Micro Spray	95	85.0	30.00	Ag	Citrus	16.8		33	5.14	
36	Follow-Up	Micro Spray	95	92.0	30.00	Ag	Citrus	16.8			9.62	
				84.8	**1,145.0**						**298.69**	**215.49**

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

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

Eval ID #	County Name	Zip Code	Soil Type No.	Water Source	TDS	pH	Pump Type	Flow	Motor Type
1	Hendry	34142	26	Well			Turbine or Submersible	1700	Diesel
2	Hendry	34142	29	Well			Turbine or Submersible	1550	Diesel
3	Hendry	34142	26	Well			Turbine or Submersible	1300	Diesel
4	Hendry	33935	8	Well			Turbine or Submersible		Diesel
5	Hendry	33935	8	Well			Turbine or Submersible		Diesel
6	Collier	34142	7	Well	770	7.1	Turbine or Submersible		Electric
7	Collier	34142	7	Well	770	7.1	Turbine or Submersible		Electric
8	Collier	34142	7	Well	770	7.1	Turbine or Submersible		Electric
9	Collier	34142	7	Well	770	7.1	Turbine or Submersible		Electric
10	Collier	34142	7	Well	670	6.9	Turbine or Submersible		Electric
11	Collier	34142	7	Well	670	6.9	Turbine or Submersible		Electric
12	Collier	34142	7	Well	670	6.9	Turbine or Submersible		Electric
13	Collier	34142	7	Well	670	6.9	Turbine or Submersible		Electric
14	Collier	34142	21	Well			Turbine or Submersible		Electric
15	Collier	34142	21	Well			Turbine or Submersible		Electric
16	Collier	34142	7	Well			Turbine or Submersible		Electric
17	Collier	34142	7	Well			Turbine or Submersible		Electric
18	Collier	34142	7	Well	670	7.4	Turbine or Submersible	720	Electric
19	Collier	34142	7	Well	670	7.4	Turbine or Submersible	720	Electric
20	Collier	34142	7	Well	670	7.4	Turbine or Submersible	740	Electric
21	Collier	34142	7	Well	670	7.4	Turbine or Submersible	720	Electric
22	Collier	34142	7	Well		7.0	Turbine or Submersible		Electric
23	Collier	34142	7	Well		7.0	Turbine or Submersible		Electric
24	Collier	34142	7	Well		7.0	Turbine or Submersible		Electric
25	Collier	34142	7	Well	760	6.8	Turbine or Submersible	720	Electric
26	Collier	34142	7	Well	760	6.8	Turbine or Submersible	720	Electric
27	Collier	34142	7	Well	760	6.8	Turbine or Submersible	720	Electric
28	Collier	34142	7	Well	760	6.8	Turbine or Submersible	740	Electric
29	Collier	34142	7	Well			Turbine or Submersible	640	Electric
30	Collier	34142	7	Well			Turbine or Submersible	630	Electric
31	Collier	34142	7	Well			Turbine or Submersible	615	Electric
32	Collier	34142	7	Well			Turbine or Submersible	620	Electric
33	Collier	34142	7	Well	930	7.3	Turbine or Submersible	550	Electric
34	Collier	34142	7	Well	930	7.3	Turbine or Submersible	550	Electric
35	Collier	34142	7	Well	930	7.3	Turbine or Submersible	540	Electric
36	Collier	34142	7	Well	930	7.3	Turbine or Submersible	550	Electric

Attachment # 4: MIL Conservation Education and Outreach Report

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

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
1/31/12	Water Conservation and Irrigation	Greenscapes Landscape Best Management Practices	30	Naples	6
TOTALS			**30**		**6**

Notes:

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: **Lower West Coast**

MIL ID: **2**

FEDERAL QUARTER: **2** **FEDERAL FISCAL YEAR:** **2012**

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Collier	Citrus		1		800
Lee	Citrus		1		1100
Hendry	Citrus		1		30
Totals			**3**		**1930**

CATEGORIES: SAME AS IN ATTACH 1A SPREADSHEET DELIVERABLE