

# **Lower West Coast Mobile Irrigation Lab**

## **Quarterly Report Second Quarter – Fiscal Year 2011 January 1 through March 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  
(239) 455-4100**

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

**FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES**

**FDACS FISCAL YEAR: 2011**

<b>FDACS Contract #:</b> 016018	<b>FDACS Reporting Quarter:</b> 3
<b>MIL #:</b> 2	<b>MIL Name:</b> Lower West Coast
<b>Total Evaluations (Initial and Follow Up) Required:</b> 36	<b>Total Follow-Up Evaluations Required:</b> 0
<b>Completed Initial Evaluations:</b> 36	<b>Completed Follow-Up Evaluations:</b> 0
<b>Total Potential Water Savings (Ac-ft/MG):</b> 880.5 Ac-ft / 286.9 MG	<b>Total Follow-Up Actual Water Savings (Ac-ft/MG):</b> 0.0 Ac-ft / 0.0 MG
<b>Total Acres Evaluated:</b> 1,329 Acres	<b>Total Instant Actual Water Savings (Ac-ft/MG):</b> 0.0 Ac-ft / 0.0 MG
<b>BREAKDOWN BY NUMBER OF EVALUATIONS</b>	
Farms: 36	Nurseries: 0
<b>WAITING LIST INFORMATION</b>	
Number of Evaluations: 47	Approximate Total Acres: 1710
<b>Comments / Additional Information:</b> <p>This report covers the following months and year: October – December 2010  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”  Evaluations #14, 16, 18, 19, and 21 were marked by very low Emission Uniformity ratings. The pump stations were operating properly, but the emitters in the field showed a wide disparity of flow rates, resulting in the low uniformity. FDACS partners approved the inclusion of this evaluation.  Evaluations #22-26 showed no water savings. These evaluations were an Environmental Quality Incentive Program checkout of an onion farm on a new system that was partially funded by Natural Resource Conservation Service funds.</p>	
<b>Submitted by:</b> Mark Siverling	<b>Title:</b> MIL Team Leader
<b>Email:</b> <a href="mailto:mark.siverling@fl.nacdnet.net">mark.siverling@fl.nacdnet.net</a>	<b>Date:</b> March 31, 2010
<b>Questions:</b> Please contact Camilo Gaitan at (850) 617-1715 or at <a href="mailto:gaitanc@doacs.state.fl.us">gaitanc@doacs.state.fl.us</a>	

# Evaluation Results

## **SYSTEMS EVALUATED**

This report covers the second quarter of Fiscal Year 2011, from January 1 to March 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 (onion) 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: 286.9 million gallons (880.5 acre feet) per year.**

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

# Conservation Education/Outreach Activities

## January

- MIL staff helped deliver 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.

## February

- MIL staff helped deliver a presentation about irrigation and water conservation to participants in the Lifelong Learning series at the Naples Botanical Garden.
- MIL staff participated in a meeting of the Greenscape Alliance, a collaboration of local government agencies aimed at reducing water runoff and pollution through public outreach, local ordinances, and landscaper training.

## March

- MIL staff helped deliver 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.
- MIL staff participated in a Citrus Seminar at the University of Florida Institute of Food and Agricultural Sciences in Immokalee.
- MIL staff prepared and delivered a presentation about irrigation and water conservation at the Big Cypress Basin Water Symposium 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 considerable time designing and maintaining the Conservation District and MIL website at [www.collierswcd.org](http://www.collierswcd.org).

IRRIGATION SYSTEM EVALUATIONS: WATER SAVINGS DATA AND RESULTS, PER MIL HANDBOOK

MIL ID: 2

Federal Quarter: 2

Federal Fiscal Year: 2011

Eval ID #	Evaluation Type	Evaluation Method	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) - Irrigation System Only							
				Max	Per Eval		Type	Name or Crop	NIR	Actual		Type	DU or EU Imprv	Sched. Imprv	Planned Repairs	Imm Repairs	Total AWS	Total PWS	
				1	Initial		Irrig Sys Only	Micro Spray	95	81.0		40.00	Ag	Citrus	16.8		2,4,12,20,30,35,40	Potential	10.19
2	Initial	Irrig Sys Only	Micro Spray	95	75.0	40.00	Ag	Citrus	16.8		2,4,6,12,20,30	Potential	15.73	0.00	0.00	0.00	0.00	0.00	15.73
3	Initial	Irrig Sys Only	Micro Spray	95	85.0	40.00	Ag	Citrus	16.8		2,12,20,30,40	Potential	6.94	0.00	0.00	0.00	0.00	0.00	6.94
4	Initial	Irrig Sys Only	Micro Spray	95	82.0	40.00	Ag	Citrus	16.8		2,4,6,12,20,30,41	Potential	9.35	0.00	0.00	0.00	0.00	0.00	9.35
5	Initial	Irrig Sys Only	Micro Spray	95	63.0	70.00	Ag	Citrus	16.8		2,4,6,20,30,41	Potential	52.43	0.00	0.00	0.00	0.00	0.00	52.43
6	Initial	Irrig Sys Only	Micro Spray	95	78.0	70.00	Ag	Citrus	16.8		2,4,20,30,41	Potential	22.50	0.00	0.00	0.00	0.00	0.00	22.50
7	Initial	Irrig Sys Only	Micro Spray	95	69.0	70.00	Ag	Citrus	16.8		2,6,20,30	Potential	38.89	0.00	0.00	0.00	0.00	0.00	38.89
8	Initial	Irrig Sys Only	Micro Spray	95	59.0	70.00	Ag	Citrus	16.8		2,4,6,20,30	Potential	62.98	0.00	0.00	0.00	0.00	0.00	62.98
9	Initial	Irrig Sys Only	Micro Spray	95	84.0	70.00	Ag	Citrus	16.8		2,20,30,35,40	Potential	13.52	0.00	0.00	0.00	0.00	0.00	13.52
10	Initial	Irrig Sys Only	Micro Spray	95	62.0	70.00	Ag	Citrus	16.8		2,4,6,20,30,33	Potential	54.94	0.00	0.00	0.00	0.00	0.00	54.94
11	Initial	Irrig Sys Only	Micro Spray	95	81.0	70.00	Ag	Citrus	16.8		2,4,6,20,30,35	Potential	17.84	0.00	0.00	0.00	0.00	0.00	17.84
12	Initial	Irrig Sys Only	Micro Spray	95	84.0	70.00	Ag	Citrus	16.8		2,4,6,20,30,40,41	Potential	13.52	0.00	0.00	0.00	0.00	0.00	13.52
13	Initial	Irrig Sys Only	Micro Spray	95	84.0	70.00	Ag	Citrus	16.8		2,4,20,30,41	Potential	13.52	0.00	0.00	0.00	0.00	0.00	13.52
14	Initial	Irrig Sys Only	Micro Spray	95	49.0	50.00	Ag	Citrus	16.8		2,4,6,12,20,22,30,35,41	Potential	69.21	0.00	0.00	0.00	0.00	0.00	69.21
15	Initial	Irrig Sys Only	Micro Spray	95	55.0	50.00	Ag	Citrus	16.8		2,6,12,20,22,30	Potential	53.62	0.00	0.00	0.00	0.00	0.00	53.62
16	Initial	Irrig Sys Only	Micro Spray	95	49.0	50.00	Ag	Citrus	16.8		2,4,6,12,20,22,30,41	Potential	69.21	0.00	0.00	0.00	0.00	0.00	69.21
17	Initial	Irrig Sys Only	Micro Spray	95	57.0	50.00	Ag	Citrus	16.8		2,4,6,12,20,22,30,40,41	Potential	49.15	0.00	0.00	0.00	0.00	0.00	49.15
18	Initial	Irrig Sys Only	Micro Spray	95	46.0	50.00	Ag	Citrus	16.8		2,4,6,12,22,30,40,41	Potential	78.54	0.00	0.00	0.00	0.00	0.00	78.54
19	Initial	Irrig Sys Only	Micro Spray	95	46.0	50.00	Ag	Citrus	16.8		2,4,6,12,20,22,30,41	Potential	78.54	0.00	0.00	0.00	0.00	0.00	78.54
20	Initial	Irrig Sys Only	Micro Spray	95	64.0	50.00	Ag	Citrus	16.8		2,6,12,20,22,30,41	Potential	35.71	0.00	0.00	0.00	0.00	0.00	35.71
21	Initial	Irrig Sys Only	Micro Spray	95	48.0	50.00	Ag	Citrus	16.8		2,4,6,12,20,22,30,41	Potential	72.19	0.00	0.00	0.00	0.00	0.00	72.19
22	Initial	Irrig Sys Only	Drip	90	97.0	0.80	Ag	Other	4.4		3,12,55	Potential	0.00	0.00	0.00	0.00	0.00	0.00	
23	Initial	Irrig Sys Only	Drip	90	90.0	0.80	Ag	Other	4.4		3,12,55	Potential	0.00	0.00	0.00	0.00	0.00	0.00	
24	Initial	Irrig Sys Only	Drip	90	95.0	0.80	Ag	Other	4.4		12,55	Potential	0.00	0.00	0.00	0.00	0.00	0.00	
25	Initial	Irrig Sys Only	Drip	90	90.0	0.80	Ag	Other	4.4		12,55	Potential	0.00	0.00	0.00	0.00	0.00	0.00	
26	Initial	Irrig Sys Only	Drip	90	90.0	0.80	Ag	Other	4.4		3,12,55	Potential	0.00	0.00	0.00	0.00	0.00	0.00	
27	Initial	Irrig Sys Only	Micro Spray	95	81.0	16.00	Ag	Citrus	16.8		2,4,56	Potential	4.08	0.00	0.00	0.00	0.00	4.08	
28	Initial	Irrig Sys Only	Micro Spray	95	86.0	16.30	Ag	Citrus	16.8		2,4,33,56	Potential	2.52	0.00	0.00	0.00	0.00	2.52	
29	Initial	Irrig Sys Only	Micro Spray	95	81.0	16.30	Ag	Citrus	16.8		2,4,41,56	Potential	4.15	0.00	0.00	0.00	0.00	4.15	
30	Initial	Irrig Sys Only	Micro Spray	95	78.0	26.20	Ag	Citrus	16.8		2,3,20,33,56	Potential	8.42	0.00	0.00	0.00	0.00	8.42	
31	Initial	Irrig Sys Only	Micro Spray	95	83.0	10.10	Ag	Citrus	16.8		2,4,20,41	Potential	2.15	0.00	0.00	0.00	0.00	2.15	
32	Initial	Irrig Sys Only	Micro Spray	95	69.0	10.10	Ag	Citrus	16.8		2,4,20,41	Potential	5.61	0.00	0.00	0.00	0.00	5.61	
33	Initial	Irrig Sys Only	Micro Spray	95	69.0	13.90	Ag	Citrus	16.8		2,4,6,20,30	Potential	7.72	0.00	0.00	0.00	0.00	7.72	
34	Initial	Irrig Sys Only	Micro Spray	95	78.0	6.50	Ag	Citrus	16.8		2,4,20,30	Potential	2.09	0.00	0.00	0.00	0.00	2.09	
35	Initial	Irrig Sys Only	Micro Spray	95	80.0	14.40	Ag	Citrus	16.8		2,4,20,31,41	Potential	3.98	0.00	0.00	0.00	0.00	3.98	
36	Initial	Irrig Sys Only	Micro Spray	95	81.0	4.70	Ag	Citrus	16.8		2,3,31,33	Potential	1.20	0.00	0.00	0.00	0.00	1.20	
37				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
38				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
39				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
40				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
41				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
42				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
43				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
44				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
45				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	
												<b>TOTALS</b>	<b>880.45</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>880.45</b>





