

# **Lower West Coast Mobile Irrigation Lab**

## **Quarterly Report Fourth Quarter – Fiscal Year 2010 July 1 through September 30, 2010**

**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 fourth quarter of Fiscal Year 2010, from July 1 to September 30, 2010. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, none of which were follow-up evaluations. Of the 36 evaluations, all were performed on citrus microirrigation 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 83%.

## **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: 80.33 million gallons (246.52 acre feet) per year.**

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

# Conservation Education/Outreach Activities

## **August**

- MIL staff manned a booth at the 2010 Citrus Expo in Ft. Myers, which was attended by hundreds of local growers and industry representatives.
- MIL staff participated in a meeting of the Project Greenscape Alliance, a collaboration of local government agencies aimed at reducing water runoff and pollution through public outreach, local ordinances, and landscaper training.
- 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.

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 made 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).

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

**FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES**

**FDACS FISCAL YEAR: 2011**

<b>FDACS Contract #: 016018</b>	<b>FDACS Reporting Quarter: 1</b>
<b>MIL #: 2</b>	<b>MIL Name: Lower West Coast</b>
<b>Total Evaluations (Initial and Follow Up) Required: 36</b>	<b>Total Follow-Up Evaluations Required: 0</b>
<b>Completed Initial Evaluations: 36</b>	<b>Completed Follow-Up Evaluations: 0</b>
<b>Total Potential Water Savings (Ac-ft/MG): 246.52 Ac-ft (80.33 MG)</b>	<b>Total Follow-Up Actual Water Savings (Ac-ft/MG): 0.00 Ac-ft (0.00 MG)</b>
<b>Total Acres Evaluated: 1,156</b>	<b>Total Instant Actual Water Savings (Ac-ft/MG): 0.00 Ac-ft (0.00 MG)</b>
<b>BREAKDOWN BY NUMBER OF EVALUATIONS</b>	
Farms: 36	Nurseries: 0
<b>WAITING LIST INFORMATION</b>	
Number of Evaluations: 114	Approximate Total Acres: 2890
<b>Comments / Additional Information:</b>	
This report covers the following months and year: July – September 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”	
<b>Submitted by: Mark Siverling</b>	<b>Title: MIL Team Leader</b>
<b>Email: <a href="mailto:mark.siverling@fl.nacdnet.net">mark.siverling@fl.nacdnet.net</a></b>	<b>Date: September 30, 2010</b>
<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>	

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

MIL ID: 2

Federal Quarter: 4

Federal Fiscal Year: 2010

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	65.0		22.00	Ag	Citrus	16.8		4,6,27,30	Potential	14.97
2	Initial	Irrig Sys Only	Micro Spray	95	77.0	22.00	Ag	Citrus	16.8		6,27,30	Potential	7.58	0.00	0.00	0.00	0.00	0.00	7.58
3	Initial	Irrig Sys Only	Micro Spray	95	75.0	22.00	Ag	Citrus	16.8		5,6,26,27,30	Potential	8.65	0.00	0.00	0.00	0.00	0.00	8.65
4	Initial	Irrig Sys Only	Micro Spray	95	78.0	22.00	Ag	Citrus	16.8		4,6,27,30,35	Potential	7.07	0.00	0.00	0.00	0.00	0.00	7.07
5	Initial	Irrig Sys Only	Micro Spray	95	80.0	17.00	Ag	Citrus	16.8		6,27,30	Potential	4.70	0.00	0.00	0.00	0.00	0.00	4.70
6	Initial	Irrig Sys Only	Micro Spray	95	83.0	17.00	Ag	Citrus	16.8		6,27	Potential	3.62	0.00	0.00	0.00	0.00	0.00	3.62
7	Initial	Irrig Sys Only	Micro Spray	95	88.0	17.00	Ag	Citrus	16.8		27	Potential	1.99	0.00	0.00	0.00	0.00	0.00	1.99
8	Initial	Irrig Sys Only	Micro Spray	95	90.0	17.00	Ag	Citrus	16.8		27	Potential	1.39	0.00	0.00	0.00	0.00	0.00	1.39
9	Initial	Irrig Sys Only	Micro Spray	95	71.0	27.00	Ag	Citrus	16.8		4,6,27	Potential	13.46	0.00	0.00	0.00	0.00	0.00	13.46
10	Initial	Irrig Sys Only	Micro Spray	95	75.0	27.00	Ag	Citrus	16.8		6,27,35	Potential	10.62	0.00	0.00	0.00	0.00	0.00	10.62
11	Initial	Irrig Sys Only	Micro Spray	95	83.0	27.00	Ag	Citrus	16.8		27,35	Potential	5.76	0.00	0.00	0.00	0.00	0.00	5.76
12	Initial	Irrig Sys Only	Micro Spray	95	86.0	27.00	Ag	Citrus	16.8		27,30,35	Potential	4.17	0.00	0.00	0.00	0.00	0.00	4.17
13	Initial	Irrig Sys Only	Micro Spray	95	89.0	25.00	Ag	Citrus	16.8		27,35	Potential	2.49	0.00	0.00	0.00	0.00	0.00	2.49
14	Initial	Irrig Sys Only	Micro Spray	95	86.0	25.00	Ag	Citrus	16.8		4,27	Potential	3.86	0.00	0.00	0.00	0.00	0.00	3.86
15	Initial	Irrig Sys Only	Micro Spray	95	80.0	25.00	Ag	Citrus	16.8		6,27,30	Potential	6.91	0.00	0.00	0.00	0.00	0.00	6.91
16	Initial	Irrig Sys Only	Micro Spray	95	90.0	25.00	Ag	Citrus	16.8		27,30	Potential	2.05	0.00	0.00	0.00	0.00	0.00	2.05
17	Initial	Irrig Sys Only	Micro Spray	95	88.0	30.00	Ag	Citrus	16.8		2,4,12,30	Potential	3.52	0.00	0.00	0.00	0.00	0.00	3.52
18	Initial	Irrig Sys Only	Micro Spray	95	83.0	30.00	Ag	Citrus	16.8		2,4,6,12,30	Potential	6.40	0.00	0.00	0.00	0.00	0.00	6.40
19	Initial	Irrig Sys Only	Micro Spray	95	90.0	30.00	Ag	Citrus	16.8		2,4,12,30,40	Potential	2.46	0.00	0.00	0.00	0.00	0.00	2.46
20	Initial	Irrig Sys Only	Micro Spray	95	79.0	30.00	Ag	Citrus	16.8		2,4,12,30	Potential	8.96	0.00	0.00	0.00	0.00	0.00	8.96
21	Initial	Irrig Sys Only	Micro Spray	95	80.0	48.00	Ag	Citrus	16.8		2,4,12,20,30,33	Potential	13.27	0.00	0.00	0.00	0.00	0.00	13.27
22	Initial	Irrig Sys Only	Micro Spray	95	85.0	48.00	Ag	Citrus	16.8		2,4,12,30,33	Potential	8.33	0.00	0.00	0.00	0.00	0.00	8.33
23	Initial	Irrig Sys Only	Micro Spray	95	88.0	48.00	Ag	Citrus	16.8		2,4,12,20,30,33	Potential	5.63	0.00	0.00	0.00	0.00	0.00	5.63
24	Initial	Irrig Sys Only	Micro Spray	95	86.0	48.00	Ag	Citrus	16.8		2,4,12,30	Potential	7.41	0.00	0.00	0.00	0.00	0.00	7.41
25	Initial	Irrig Sys Only	Micro Spray	95	81.0	41.00	Ag	Citrus	16.8		2,12,30	Potential	10.45	0.00	0.00	0.00	0.00	0.00	10.45
26	Initial	Irrig Sys Only	Micro Spray	95	77.0	41.00	Ag	Citrus	16.8		2,12,30	Potential	14.13	0.00	0.00	0.00	0.00	0.00	14.13
27	Initial	Irrig Sys Only	Micro Spray	95	81.0	41.00	Ag	Citrus	16.8		2,4,12,30	Potential	10.45	0.00	0.00	0.00	0.00	0.00	10.45
28	Initial	Irrig Sys Only	Micro Spray	95	84.0	41.00	Ag	Citrus	16.8		2,4,12,30,33	Potential	7.92	0.00	0.00	0.00	0.00	0.00	7.92
29	Initial	Irrig Sys Only	Micro Spray	95	89.0	37.00	Ag	Citrus	16.8		2,4,12	Potential	3.68	0.00	0.00	0.00	0.00	0.00	3.68
30	Initial	Irrig Sys Only	Micro Spray	95	81.0	37.00	Ag	Citrus	16.8		2,12,33	Potential	9.43	0.00	0.00	0.00	0.00	0.00	9.43
31	Initial	Irrig Sys Only	Micro Spray	95	87.0	37.00	Ag	Citrus	16.8		2,4,12	Potential	5.02	0.00	0.00	0.00	0.00	0.00	5.02
32	Initial	Irrig Sys Only	Micro Spray	95	79.0	37.00	Ag	Citrus	16.8		2,4,12	Potential	11.05	0.00	0.00	0.00	0.00	0.00	11.05
33	Initial	Irrig Sys Only	Micro Spray	95	87.0	42.00	Ag	Citrus	16.8		2,40,56	Potential	5.69	0.00	0.00	0.00	0.00	0.00	5.69
34	Initial	Irrig Sys Only	Micro Spray	95	90.0	42.00	Ag	Citrus	16.8		2,4,56	Potential	3.44	0.00	0.00	0.00	0.00	0.00	3.44
35	Initial	Irrig Sys Only	Micro Spray	95	91.0	42.00	Ag	Citrus	16.8		56	Potential	2.72	0.00	0.00	0.00	0.00	0.00	2.72
36	Initial	Irrig Sys Only	Micro Spray	95	85.0	42.00	Ag	Citrus	16.8		2,6,56	Potential	7.29	0.00	0.00	0.00	0.00	0.00	7.29
37				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
38				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
39				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
40				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
41				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
42				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
43				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
44				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
45				#N/A			Ag					#N/A	#N/A	0.00	0.00	0.00	#N/A	#N/A	#N/A
					83.0	1,156.0						<b>TOTALS</b>	<b>246.52</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>246.52</b>





**Attachment # 4: MIL Conservation Education and Outreach Report**

<b>MIL Name:</b>	<b>Lower West Coast</b>
<b>MIL ID:</b>	2
<b>Federal FY</b>	2010
<b>Fed Quarter:</b>	4

<b>Date (mm/dy/year)</b>	<b>Type of Presentation</b>	<b>Name of Group</b>	<b>Number Attending</b>	<b>City or Town</b>	<b>Duration (hrs)</b>
8/18/10	Citrus Expo booth	Citrus Expo	1000	Ft. Myers	20
8/30/10	Landscapes BMP presentation	Greenscape Alliance	30	Naples	10
<b>TOTALS</b>			<b>1030</b>		<b>30</b>

**Notes:**

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