

Lower West Coast Mobile Irrigation Lab

Quarterly Report Third Quarter – Fiscal Year 2011 April 1 through June 30, 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**

Evaluation Results

SYSTEMS EVALUATED

This report covers the third quarter of Fiscal Year 2011, from April 1 to June 30, 2011. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, all of which were initial evaluations. 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 79%.

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: 88.5 million gallons (271.6 acre feet) per year.

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

Conservation Education/Outreach Activities

April

- MIL staff helped set up and man a Mobile Irrigation Lab booth at the South Florida Water Management District Water Conservation Expo.
- 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.

May

- MIL staff met with an employee of the Rookery Bay National Estuarine Research Reserve headquarters to discuss water conservation methods at the property and how to demonstrate water conservation practices for the public.

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.

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

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

FDACS FISCAL YEAR: 2011

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: 36	Completed Follow-Up Evaluations: 0
Total Potential Water Savings (Ac-ft/MG): 271.6 Ac-ft / 88.5 MG	Total Follow-Up Actual Water Savings (Ac-ft/MG): 0.0 Ac-ft / 0.0 MG
Total Acres Evaluated: 769 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: 1120
Comments / Additional Information: This report covers the following months and year: April – June 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” Evaluation #12 showed no water savings. This evaluation and #11 were conducted on a new irrigation system where the grower wanted to see if larger pipe sizes affected the pressure and uniformity.	
Submitted by: Mark Siverling	Title: MIL Team Leader
Email: mark.siverling@fl.nacdnet.net	Date: June 30, 2011
Questions: Please contact Camilo Gaitan at (850) 617-1715 or at gaitanc@doacs.state.fl.us	

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

MIL ID: 2

Federal Quarter: 3

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	86.0		10.90	Ag	Citrus	16.8		2,20,31,40	Potential
2	Initial	Irrig Sys Only	Micro Spray	95	83.0	55.30	Ag	Citrus	16.8		2,4,6,33,40,41	Potential	11.79	0.00	0.00	0.00	0.00	11.79
3	Initial	Irrig Sys Only	Micro Spray	95	82.0	29.50	Ag	Citrus	16.8		2,4,33,41	Potential	6.90	0.00	0.00	0.00	0.00	6.90
4	Initial	Irrig Sys Only	Micro Spray	95	59.0	22.00	Ag	Citrus	16.8		2,4,20	Potential	19.79	0.00	0.00	0.00	0.00	19.79
5	Initial	Irrig Sys Only	Micro Spray	95	58.0	22.00	Ag	Citrus	16.8		2,4,20,30	Potential	20.69	0.00	0.00	0.00	0.00	20.69
6	Initial	Irrig Sys Only	Micro Spray	95	62.0	22.00	Ag	Citrus	16.8		2,4,20,33,35	Potential	17.27	0.00	0.00	0.00	0.00	17.27
7	Initial	Irrig Sys Only	Micro Spray	95	62.0	37.00	Ag	Citrus	16.8		2,4,20	Potential	29.04	0.00	0.00	0.00	0.00	29.04
8	Initial	Irrig Sys Only	Micro Spray	95	74.0	37.00	Ag	Citrus	16.8		2,4,20	Potential	15.48	0.00	0.00	0.00	0.00	15.48
9	Initial	Irrig Sys Only	Micro Spray	95	66.0	37.00	Ag	Citrus	16.8		2,20,40	Potential	23.97	0.00	0.00	0.00	0.00	23.97
10	Initial	Irrig Sys Only	Micro Spray	95	72.0	37.00	Ag	Citrus	16.8		2,4,20,33	Potential	17.43	0.00	0.00	0.00	0.00	17.43
11	Initial	Irrig Sys Only	Micro Spray	95	90.0	48.00	Ag	Citrus	16.8		4,6,56	Potential	3.93	0.00	0.00	0.00	0.00	3.93
12	Initial	Irrig Sys Only	Micro Spray	95	96.0	39.40	Ag	Citrus	16.8		2,4,27,41,56	Potential	0.00	0.00	0.00	0.00	0.00	0.00
13	Initial	Irrig Sys Only	Micro Spray	95	87.0	15.00	Ag	Citrus	16.8		21,27,30,56	Potential	2.03	0.00	0.00	0.00	0.00	2.03
14	Initial	Irrig Sys Only	Micro Spray	95	89.0	15.00	Ag	Citrus	16.8		21,27,30,56	Potential	1.49	0.00	0.00	0.00	0.00	1.49
15	Initial	Irrig Sys Only	Micro Spray	95	80.0	15.00	Ag	Citrus	16.8		5,21,27,30,56	Potential	4.15	0.00	0.00	0.00	0.00	4.15
16	Initial	Irrig Sys Only	Micro Spray	95	82.0	15.00	Ag	Citrus	16.8		21,27,30,56	Potential	3.51	0.00	0.00	0.00	0.00	3.51
17	Initial	Irrig Sys Only	Micro Spray	95	78.0	18.00	Ag	Citrus	16.8		4,6,27,30,33,35,41,56	Potential	5.78	0.00	0.00	0.00	0.00	5.78
18	Initial	Irrig Sys Only	Micro Spray	95	74.0	18.00	Ag	Citrus	16.8		27,30,41,56	Potential	7.53	0.00	0.00	0.00	0.00	7.53
19	Initial	Irrig Sys Only	Micro Spray	95	75.0	18.00	Ag	Citrus	16.8		5,27,30,41,56	Potential	7.08	0.00	0.00	0.00	0.00	7.08
20	Initial	Irrig Sys Only	Micro Spray	95	85.0	18.00	Ag	Citrus	16.8		5,27,30,41,56	Potential	3.12	0.00	0.00	0.00	0.00	3.12
21	Initial	Irrig Sys Only	Micro Spray	95	86.0	20.00	Ag	Citrus	16.8		21,27,30,56	Potential	3.09	0.00	0.00	0.00	0.00	3.09
22	Initial	Irrig Sys Only	Micro Spray	95	73.0	20.00	Ag	Citrus	16.8		4,6,21,27,30,41,56	Potential	8.89	0.00	0.00	0.00	0.00	8.89
23	Initial	Irrig Sys Only	Micro Spray	95	76.0	20.00	Ag	Citrus	16.8		4,21,27,30,56	Potential	7.37	0.00	0.00	0.00	0.00	7.37
24	Initial	Irrig Sys Only	Micro Spray	95	80.0	20.00	Ag	Citrus	16.8		4,21,27,30,56	Potential	5.53	0.00	0.00	0.00	0.00	5.53
25	Initial	Irrig Sys Only	Micro Spray	95	86.0	22.00	Ag	Citrus	16.8		2,4,21,27,30,33,41,56	Potential	3.39	0.00	0.00	0.00	0.00	3.39
26	Initial	Irrig Sys Only	Micro Spray	95	76.0	22.00	Ag	Citrus	16.8		2,4,6,21,27,30,33,56	Potential	8.11	0.00	0.00	0.00	0.00	8.11
27	Initial	Irrig Sys Only	Micro Spray	95	70.0	22.00	Ag	Citrus	16.8		2,4,6,21,27,30,33,35,41,56	Potential	11.59	0.00	0.00	0.00	0.00	11.59
28	Initial	Irrig Sys Only	Micro Spray	95	71.0	22.00	Ag	Citrus	16.8		2,4,6,21,27,30,33,35,56	Potential	10.97	0.00	0.00	0.00	0.00	10.97
29	Initial	Irrig Sys Only	Micro Spray	95	85.0	10.00	Ag	Citrus	16.8		4,21,27,56	Potential	1.73	0.00	0.00	0.00	0.00	1.73
30	Initial	Irrig Sys Only	Micro Spray	95	85.0	10.00	Ag	Citrus	16.8		4,21,27,56	Potential	1.73	0.00	0.00	0.00	0.00	1.73
31	Initial	Irrig Sys Only	Micro Spray	95	89.0	10.00	Ag	Citrus	16.8		4,21,27,33,56	Potential	0.99	0.00	0.00	0.00	0.00	0.99
32	Initial	Irrig Sys Only	Micro Spray	95	91.0	10.00	Ag	Citrus	16.8		21,27,56	Potential	0.65	0.00	0.00	0.00	0.00	0.65
33	Initial	Irrig Sys Only	Micro Spray	95	87.0	8.00	Ag	Citrus	16.8		21,27,30,40,56	Potential	1.08	0.00	0.00	0.00	0.00	1.08
34	Initial	Irrig Sys Only	Micro Spray	95	81.0	8.00	Ag	Citrus	16.8		5,21,27,30,40,56	Potential	2.04	0.00	0.00	0.00	0.00	2.04
35	Initial	Irrig Sys Only	Micro Spray	95	86.0	8.00	Ag	Citrus	16.8		21,27,30,56	Potential	1.23	0.00	0.00	0.00	0.00	1.23
36	Initial	Irrig Sys Only	Micro Spray	95	91.0	8.00	Ag	Citrus	16.8		21,27,30,56	Potential	0.52	0.00	0.00	0.00	0.00	0.52
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
					79.3	769.1												
												TOTALS	271.60	0.00	0.00	0.00	0.00	271.60

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: **2**

Federal Quarter: **3**

Federal Fiscal Year: **2011**

Eval ID #	County Name	Zip Code	Soil Type No.	Water Source	TDS	pH	Pump Type	Has Flow Meter	Motor Type	Savings From Irrig Sys & Mgmt, per FIRM (ac-ft)			
										Potential	Actual	Immediate	
1	Collier	34142	7	Well			Turbine or Submersible	Yes	Electric				
2	Collier	34142	16	Well			Turbine or Submersible	Yes	Electric				
3	Collier	34142	16	Well			Turbine or Submersible	Yes	Electric				
4	Lee	33920	76	Well			Turbine or Submersible	Yes	Electric				
5	Lee	33920	76	Well			Turbine or Submersible	Yes	Electric				
6	Lee	33920	76	Well			Turbine or Submersible	Yes	Electric				
7	Lee	33920	76	Well			Turbine or Submersible	Yes	Electric				
8	Lee	33920	76	Well			Turbine or Submersible	Yes	Electric				
9	Lee	33920	76	Well			Turbine or Submersible	Yes	Electric				
10	Lee	33920	76	Well			Turbine or Submersible	Yes	Electric				
11	Collier	34142	2	Well			Turbine or Submersible	Yes	Diesel				
12	Collier	34142	14	Well			Turbine or Submersible	Yes	Diesel				
13	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel				
14	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel				
15	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel				
16	Hendry	33930	14	Well			Turbine or Submersible	Yes	Diesel				
17	Hendry	33930	1	Well			Turbine or Submersible	Yes	Diesel				
18	Hendry	33930	1	Well			Turbine or Submersible	Yes	Diesel				
19	Hendry	33930	1	Well			Turbine or Submersible	Yes	Diesel				
20	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel				
21	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel				
22	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel				
23	Hendry	33930	21	Well			Turbine or Submersible	Yes	Diesel				
24	Hendry	33930	14	Well			Turbine or Submersible	Yes	Diesel				
25	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
26	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
27	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
28	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
29	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
30	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
31	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel				
32	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel				
33	Hendry	33930	14	Well			Turbine or Submersible	Yes	Diesel				
34	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
35	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
36	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel				
37													
38													
39													
40													
41													
42													
43													
44													
45													
											0.00	0.00	0.00

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: Lower West Coast

MIL ID: 2

FEDERAL QUARTER: 3 **FEDERAL FISCAL YEAR:** 2011

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Hendry	Citrus		2		600
Lee	Citrus		1		500
Collier	Pepper		1		20
Totals			4		1120

CATEGORIES: SAME AS IN ATTACH 1A SPREADSHEET DELIVERABLE

Attachment # 4: MIL Conservation Education and Outreach Report

MIL Name:	Lower West Coast
MIL ID:	2
Federal FY	2011
Fed Quarter:	3

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
4/8/11	Mobile Irrigation Labs display booth	South Florida Water Management District	100	West Palm Beach	12
4/12/11	Water Conservation and Irrigation	Greenscapes Landscape Best Management Practices	30	Naples	8
5/18/11	Irrigation Management	Rookery Bay National Estuarine Research Reserve	2	Naples	6
TOTALS			132		26

Notes:
