Lower West Coast Mobile Irrigation Lab

Quarterly Report Fourth Quarter - Fiscal Year 2011 July 1 through September 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 fourth quarter of Fiscal Year 2011, from July 1 to September 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: 70.9 million gallons (217.6 acre feet) per year.

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

Conservation Education/Outreach Activities

July

• 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.

August

• MIL staff set up and manned a Mobile Irrigation Lab booth at the 2011 Citrus Expo in Fort Myers.

September

 MIL staff delivered a presentation about irrigation system design and maintenance at a Project Greenscape Best Management Practices refresher course, 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: 1				
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):	Total Follow-Up Actual Water Savings (Ac-ft/MG):				
217.6 Ac-ft / 70.9 MG	0.0 Ac-ft / 0.0 MG				
Total Acres Evaluated: 581 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 LIS	ST INFORMATION				
Number of Evaluations: 4	Approximate Total Acres: 2100				
Comments / Additional Information: This report covers the following months and year: July – September 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 #31 had uniformity less than 50%. This system was co-managed by a grove that the MIL was evaluating and a neighboring landowner. The pump and valves were working properly, and the low uniformity was due to poor general emitter maintenance.					
Submitted by: Mark Siverling	Title: MIL Team Leader				
Email: mark.siverling@fl.nacdnet.net					
Questions: Please contact Camilo Gaitan at (850) 617-1715 or at gaitanc@doacs.state.fl.us					

Attachment # 1a: Ag - L

Ag - Lower West Coast

MIL

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

MIL ID:	2	Federal Quarter	r: 4		deral Fiscal Year:	2011
				Annual		

Eval	Evaluation Type	Evaluation Method	Irrigation System Type		em Distrib or Unif (%)	Irrig Sys Ac	L	and Use	Annual se Water Use (in.)		Irrigation System Problems	Water Savings (ac-ft) - Irrigation System Only						
	. , , , ,			Max	Per Eval	7.0	Туре	Type Name or Crop		Actual	Troblems	Туре	DU or EU Imprv	Sched. Imprv	Planned Repairs	Imm Repairs	Total AWS	Total PWS
1	Initial	Irrig Sys Only		95	73.0	8.00	Ag	Citrus	16.8		5,21,27,30,33,40,56	Potential	3.56	0.00	0.00	0.00	0.00	3.56
2	Initial		Micro Spray	95	90.0	8.00	Ag	Citrus	16.8		21,27,40,56	Potential	0.66	0.00	0.00	0.00	0.00	0.66
3	Initial	, ,	Micro Spray	95	87.0	8.00	Ag	Citrus	16.8		21,27,56	Potential	1.08	0.00	0.00	0.00	0.00	1.08
4	Initial	Irrig Sys Only	Micro Spray	95	84.0	8.00	Ag	Citrus	16.8		21,27,56	Potential	1.54	0.00	0.00	0.00	0.00	1.54
5	Initial	, ,	Micro Spray	95	71.0	13.00	Ag	Citrus	16.8		4,21,27,40,41,56	Potential	6.48	0.00	0.00	0.00	0.00	6.48
6	Initial		Micro Spray	95	78.0	13.00	Ag	Citrus	16.8		21,27,30,40,56	Potential	4.18	0.00	0.00	0.00	0.00	4.18
7	Initial		Micro Spray	95	87.0	13.00	Ag	Citrus	16.8		21,27,40,56	Potential	1.76	0.00	0.00	0.00	0.00	1.76
8	Initial		Micro Spray	95	85.0	13.00	Ag	Citrus	16.8		13,21,27,30,56	Potential	2.26	0.00	0.00	0.00	0.00	2.26
9	Initial	Irrig Sys Only	Micro Spray	95	79.0	13.00	Ag	Citrus	16.8		4,6,21,27,30,56	Potential	3.88	0.00	0.00	0.00	0.00	3.88
10	Initial	, ,	Micro Spray	95	89.0	13.00	Ag	Citrus	16.8		21,27,30,56	Potential	1.29	0.00	0.00	0.00	0.00	1.29
11	Initial		Micro Spray	95	85.0	13.00	Ag	Citrus	16.8		21,27,30,56	Potential	2.26	0.00	0.00	0.00	0.00	2.26
12	Initial	Irrig Sys Only	Micro Spray	95	84.0	13.00	Ag	Citrus	16.8		21,27,30,56	Potential	2.51	0.00	0.00	0.00	0.00	2.51
13	Initial		Micro Spray	95	71.0	18.00	Ag	Citrus	16.8		4,21,27,30,41,56	Potential	8.97	0.00	0.00	0.00	0.00	8.97
14	Initial	, ,	Micro Spray	95	78.0	30.00	Ag	Citrus	16.8		4,6,21,27,30,41,56	Potential	9.64	0.00	0.00	0.00	0.00	9.64
15	Initial		Micro Spray	95	80.0	23.00	Ag	Citrus	16.8		27,33,40,56	Potential	6.36	0.00	0.00	0.00	0.00	6.36
16	Initial		Micro Spray	95	82.0	24.80	Ag	Citrus	16.8		6,27,40,56	Potential	5.80	0.00	0.00	0.00	0.00	5.80
17	Initial	Irrig Sys Only	Micro Spray	95	79.0	24.50	Ag	Citrus	16.8		27,33,35,40,56	Potential	7.32	0.00	0.00	0.00	0.00	7.32
18	Initial	, ,	Micro Spray	95	85.0	24.40	Ag	Citrus	16.8		5,27,30,56	Potential	4.23	0.00	0.00	0.00	0.00	4.23
19 20	Initial	Irrig Sys Only	Micro Spray	95 95	70.0 75.0	14.20	Ag	Citrus	16.8 16.8		2,5,6,21,30,33	Potential	7.48 5.66	0.00	0.00	0.00	0.00	7.48 5.66
	Initial		Micro Spray			14.40	Ag	Citrus			2,6,27,30	Potential		0.00	0.00	0.00	0.00	
21	Initial Initial	, ,	Micro Spray	95 05	77.0	15.60	Ag	Citrus Citrus	16.8 16.8		2,5,6,27,30,40 2,27	Potential	5.38	0.00	0.00	0.00	0.00	5.38 4.16
22	Initial	57 - 7 7	Micro Spray	95 95	82.0 79.0	17.80 12.90	Ag Ag	Citrus	16.8		5,27,40,56	Potential Potential	4.16 3.85	0.00	0.00	0.00	0.00	3.85
24	Initial		Micro Spray	95	76.0	13.70	Ag	Citrus	16.8		5,27,30,33,35,40,56	Potential	5.05	0.00	0.00	0.00	0.00	5.05
25	Initial	, ,	Micro Spray Micro Spray	95	84.0	16.40	Ag	Citrus	16.8		2,27,30,33,40,56	Potential	3.17	0.00	0.00	0.00	0.00	3.17
26	Initial	· ·	Micro Spray	95	83.0	17.30	Ag	Citrus	16.8		27,30,40,41,56	Potential	3.69	0.00	0.00	0.00	0.00	3.69
27	Initial	, ,	Micro Spray	95	83.0	16.30	Ag	Citrus	16.8		5,27,33,40	Potential	3.69	0.00	0.00	0.00	0.00	3.47
28	Initial		Micro Spray	95	77.0	15.80	Ag	Citrus	16.8		5,6,27,30,40	Potential	5.45	0.00	0.00	0.00	0.00	5.45
29	Initial	, ,	Micro Spray	95	74.0	17.20	Ag	Citrus	16.8		2,6,27,30,40	Potential	7.20	0.00	0.00	0.00	0.00	7.20
30	Initial	Irrig Sys Only	Micro Spray	95	89.0	16.20	Ag	Citrus	16.8		5,27,35	Potential	1.61	0.00	0.00	0.00	0.00	1.61
31	Initial	· ·	Micro Spray	95	39.0	20.40	Ag	Citrus	16.8		2,8,30,33,40	Potential	43.19	0.00	0.00	0.00	0.00	43.19
32	Initial	, ,	Micro Spray	95	57.0	20.70	Ag	Citrus	16.8		2,21,30,33	Potential	20.35	0.00	0.00	0.00	0.00	20.35
33	Initial		Micro Sprav	95	67.0	20.60	Ag	Citrus	16.8		5,30	Potential	12.69	0.00	0.00	0.00	0.00	12.69
34	Initial	, ,	Micro Spray	95	79.0	19.00	Ag	Citrus	16.8		2,30,40	Potential	5.67	0.00	0.00	0.00	0.00	5.67
35	Initial	Irrig Sys Only	Micro Spray	95	84.0	16.80	Ag	Citrus	16.8		27,40	Potential	3.24	0.00	0.00	0.00	0.00	3.24
36	Initial	, ,	Micro Spray	95	85.0	14.60	Ag	Citrus	16.8		27,35,40	Potential	2.53	0.00	0.00	0.00	0.00	2.53
37		g cyc cy	more epicy	#N/A			Aa				, , , , ,	#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		1			#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
					78.5	580.6	Ŭ					TOTALS	217.63	0.00	0.00	0.00	0.00	217.63

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: 2 Federal Quarter: 4 Federal Fiscal Year: 2011

/al ID	County Name	Zin Codo	Soil Type No.	Water Source	TDS	рН	Pump Type	Has Flow	Motor Type	Savings From Irrig Sys & Mgmt, per FIRM (ac-ft)				
#	County Name	•		water Source	103	рп		Meter	wotor Type	Potential	Actual	Immediate		
1	Hendry	33930	14	Well			Turbine or Submersible	Yes	Diesel					
2	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
3	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
4	Hendry	33930	14	Well			Turbine or Submersible	Yes	Diesel					
5	Hendry	33930	14	Well			Turbine or Submersible	Yes	Diesel					
6	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
7	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
8	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
9	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
10	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
11	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel					
12	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
13	Hendry	33930	51	Well			Turbine or Submersible	Yes	Diesel					
14	Hendry	33930	4	Well			Turbine or Submersible	Yes	Diesel					
15	Lee	33913	34	Well			Turbine or Submersible	Yes	Diesel					
16	Lee	33913	26	Well			Turbine or Submersible	Yes	Diesel					
17	Lee	33913	34	Well			Turbine or Submersible	Yes	Diesel					
18	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
19	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
20	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
21	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
22	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
23	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
24	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
25	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
26	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
27	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
28	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
29	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
30	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
31	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
32	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
33	Lee	33913	28	Well			Turbine or Submersible	Yes	Diesel					
34	Lee	33913	6	Well			Turbine or Submersible	Yes	Diesel					
35	Lee	33913	6	Well			Turbine or Submersible	Yes	Diesel					
36	Lee	33913	33	Well			Turbine or Submersible	Yes	Diesel					
37		555.5	- 55					. 55	2.000.					
38							1	1						
39							1	1						
40							1	1						
41							1							
42							1							
43							+	 						
44								<u> </u>						
45							+							
										0.00	0.00			

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: Lower West Coast

MIL ID: 2

FEDERAL QUARTER: 4 FEDERAL FISCAL YEAR: 2011

COUNTY	CATEGORY	TOTAL COUNT	APPROX TOTAL ACRES
Hendry	Citrus	2	600
Lee	Citrus	2	1500
_			
Totals		4	2100

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:	4			

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
7/27/11	Water Conservation and Irrigation	Greenscapes Landscape Best Management Practices	30	Naples	8
8/17-18/2011	MIL Display Booth	Citrus Expo 2011	500	Fort Myers	20
9/7/11	Water Conservation and Irrigation	Greenscapes Landscape Irrigation Class	25	Naples	8
TOTALS			555		36

Notes: