Lower West Coast
Mobile Irrigation Lab

Quarterly Report
Third Quarter – Fiscal Year 2014
April 1 through June 30, 2014

Sponsored by:
Collier Soil and Water Conservation District
Florida Department of Agriculture and Consumer Services
Natural Resources Conservation Service

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Evaluation Results

SYSTEMS EVALUATED

This report covers the third quarter of Fiscal Year 2014, from April 1 to June 30, 2014. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 24 of which were initial evaluations, and 12 of which were follow-up evaluations. Of those completed, all 36 evaluations were performed on microjet systems in citrus groves.

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: 153.3 million gallons (470.3 acre feet) per year.
AWS: 114.2 million gallons (350.5 acre feet) per year.

Conservation Education/Outreach Activities

May

- MIL staff taught the irrigation portion of the Master Gardeners class at the University of Florida Extension Service in Naples.
- MIL staff participated in a meeting of the Greenscape Alliance, a group of government agencies and university employees that addresses water-quality issues.

June

- MIL staff participated in training hosted by the University of Florida – Institute of Food and Agricultural Sciences (IFAS) in Clearwater.

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 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 Collier Soil and Water Conservation District and MIL website at www.collierswcd.org.

Attachment # 1a: **Ag - Lower West Coast**

MIL ID: **2** Federal Quarter: **3** MIL Federal Fiscal Year: **2014**

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		Total AWS	Total PWS
1	Initial	Micro Spray	95	51	55.0	Ag	Citrus	16.81	2,4,6,40		69.97
2	Initial	Micro Spray	95	65	55.0	Ag	Citrus	16.81	2,4,6,33,40		37.43
3	Initial	Micro Spray	95	63	55.0	Ag	Citrus	16.81	2,4,6,26,30,35,40		41.19
4	Initial	Micro Spray	95	66	55.0	Ag	Citrus	16.81	2,4,26,30,40		35.64
5	Initial	Micro Spray	95	50	55.0	Ag	Citrus	16.81	2,4,6,35,40		72.99
6	Initial	Micro Spray	95	43	55.0	Ag	Citrus	16.81	2,4,6,33,35,40		98.08
7	Initial	Micro Spray	95	77	18.0	Ag	Citrus	16.81	4,6,12,30,56		6.20
8	Follow Up	Micro Spray	95	84	18.0	Ag	Citrus	16.81	12,56	4.06	
9	Follow Up	Micro Spray	95	89	18.0	Ag	Citrus	16.81	12,33,56	5.29	
10	Follow Up	Micro Spray	95	90	18.0	Ag	Citrus	16.81	12,30,56	1.65	
11	Initial	Micro Spray	95	66	30.0	Ag	Citrus	16.81	4,6,12,30,41,56		19.44
12	Follow Up	Micro Spray	95	87	30.0	Ag	Citrus	16.81	4,12,56	2.33	
13	Initial	Micro Spray	95	70	30.0	Ag	Citrus	16.81	4,6,12,30,56		15.80
14	Initial	Micro Spray	95	82	30.0	Ag	Citrus	16.81	4,12,41,56		7.01
15	Initial	Micro Spray	95	83	15.6	Ag	Citrus	16.81	12,30,56		3.33
16	Follow Up	Micro Spray	95	85	15.6	Ag	Citrus	16.81	4,12,30,56		2.71
17	Initial	Micro Spray	95	82	15.6	Ag	Citrus	16.81	12,30,56		3.65
18	Initial	Micro Spray	95	87	15.6	Ag	Citrus	16.81	4,12,30,56		2.12
19	Initial	Micro Spray	95	87	7.4	Ag	Citrus	16.81	12,30,41,56		1.00
20	Initial	Micro Spray	95	87	7.4	Ag	Citrus	16.81	12,33,56		1.00
21	Initial	Micro Spray	95	82	7.4	Ag	Citrus	16.81	12,56		1.73
22	Initial	Micro Spray	95	83	7.4	Ag	Citrus	16.81	12,56		1.58
23	Initial	Micro Spray	95	76	17.4	Ag	Citrus	16.81	4,6,12,56		6.41
24	Initial	Micro Spray	95	82	17.4	Ag	Citrus	16.81	6,12,56		4.07
25	Initial	Micro Spray	95	79	17.4	Ag	Citrus	16.81	4,12,56		5.20
26	Initial	Micro Spray	95	77	17.4	Ag	Citrus	16.81	6,12,56		6.00
27	Initial	Micro Spray	95	84	72.0	Ag	Citrus	16.81	4,12		13.90
28	Initial	Micro Spray	95	84	72.0	Ag	Citrus	16.81	4,12,40		13.90
29	Follow Up	Micro Spray	95	80	66.0	Ag	Citrus	16.81	4,6,31	38.52	
30	Follow Up	Micro Spray	95	81	50.0	Ag	Citrus	16.81	6,12	24.71	
31	Follow Up	Micro Spray	95	90	50.0	Ag	Citrus	16.81	6,12	54.33	
32	Follow Up	Micro Spray	95	87	50.0	Ag	Citrus	16.81	6,12	32.46	
33	Follow Up	Micro Spray	95	91	53.0	Ag	Citrus	16.81	6,12	42.15	
34	Follow Up	Micro Spray	95	94	53.0	Ag	Citrus	16.81	6,12,40	61.10	
35	Follow Up	Micro Spray	95	92	53.0	Ag	Citrus	16.81	6,12,40	47.31	
36	Follow Up	Micro Spray	95	89	63.0	Ag	Citrus	16.81	6,12	36.61	
				79.0	**1,265.6**					**350.52**	**470.34**

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: 2 **Federal Quarter: 3** **Federal Fiscal Year: 2014**

Eval ID #	County Name	Zip Code	Soil Type No.	Water Source	TDS	pH	Pump Type	Inline Flow	UFM Flow	Motor Type
1	Lee	33920	55	Surface			Turbine or Submersible	1250	1220	Diesel
2	Lee	33920	55	Surface			Turbine or Submersible	1250	1215	Diesel
3	Lee	33920	55	Surface			Turbine or Submersible	1300	1240	Diesel
4	Lee	33920	55	Surface			Turbine or Submersible	1280	1200	Diesel
5	Lee	33920	55	Surface			Turbine or Submersible	1100	1170	Diesel
6	Lee	33920	55	Surface			Turbine or Submersible	1300	1230	Diesel
7	Hendry	33930	1	Well	460	7.3	Turbine or Submersible	410	390	Diesel
8	Hendry	33930	1	Well	460	7.3	Turbine or Submersible	400	380	Diesel
9	Hendry	33930	1	Well	460	7.3	Turbine or Submersible	360	340	Diesel
10	Hendry	33930	51	Well	460	7.3	Turbine or Submersible	390	370	Diesel
11	Hendry	33930	7	Well	370	7.4	Turbine or Submersible	440	590	Diesel
12	Hendry	33930	51	Well	370	7.4	Turbine or Submersible	440	580	Diesel
13	Hendry	33930	51	Well	370	7.4	Turbine or Submersible	440	560	Diesel
14	Hendry	33930	4	Well	370	7.4	Turbine or Submersible	440	575	Diesel
15	Hendry	33930	4	Well	455	7.1	Turbine or Submersible	425	400	Diesel
16	Hendry	33930	4	Well	455	7.1	Turbine or Submersible	370	350	Diesel
17	Hendry	33930	4	Well	455	7.1	Turbine or Submersible	425	400	Diesel
18	Hendry	33930	4	Well	455	7.1	Turbine or Submersible	300	315	Diesel
19	Hendry	33930	7	Well	245	6.9	Turbine or Submersible	180	160	Diesel
20	Hendry	33930	32	Well	245	6.9	Turbine or Submersible	220	200	Diesel
21	Hendry	33930	14	Well	245	6.9	Turbine or Submersible	230	210	Diesel
22	Hendry	33930	14	Well	245	6.9	Turbine or Submersible	210	190	Diesel
23	Hendry	33930	4	Well	410	7.2	Turbine or Submersible	460	440	Diesel
24	Hendry	33930	4	Well	410	7.2	Turbine or Submersible	530	490	Diesel
25	Hendry	33930	4	Well	410	7.2	Turbine or Submersible	440	420	Diesel
26	Hendry	33930	4	Well	410	7.2	Turbine or Submersible	540	510	Diesel
27	Lee	33920	17	Surface			Centrifugal	1930	1730	Diesel
28	Lee	33920	13	Surface			Centrifugal	1700	1520	Diesel
29	Lee	33920	76	Well	1200	7.2	Turbine or Submersible	910	920	Electric
30	Hendry	34142	7	Well			Turbine or Submersible		950	Diesel
31	Hendry	34142	7	Well			Turbine or Submersible			Diesel
32	Hendry	34142	26	Well			Turbine or Submersible		860	Diesel
33	Hendry	34142	26	Well	340	7.2	Turbine or Submersible	1250	1000	Diesel
34	Hendry	34142	26	Well	340	7.2	Turbine or Submersible	1200	1000	Diesel
35	Hendry	34142	23	Well	340	7.2	Turbine or Submersible	1125	930	Diesel
36	Hendry	34142	26	Well	210	7.3	Turbine or Submersible	1650	1640	Diesel

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: **Lower West Coast**

MIL ID: **2**

FEDERAL QUARTER: **3** **FEDERAL FISCAL YEAR:** **2014**

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Hendry	Citrus		3		1210
Glades	Berries		1		30
Glades	Citrus		1		420
Totals			**5**		**1660**

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	2014
Fed Quarter:	3

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
5/1/14	Water Conservation	Master Gardeners	20	Naples	8
5/6/14	Meeting Participation	Greenscape Alliance	12	Naples	6
6/3/14	Training	IFAS	50	Clearwater	10
TOTALS			**82**		**24**

Notes: