Lower West Coast
Mobile Irrigation Lab

Quarterly Report
Fourth Quarter – Fiscal Year 2014
July 1 through September 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 fourth quarter of Fiscal Year 2014, from July 1 to September 30, 2014. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 2 of which were initial evaluations, and 34 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 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: 33.6 million gallons (103.0 acre feet) per year.
AWS: 62.8 million gallons (192.8 acre feet) per year.

Conservation Education/Outreach Activities

July

- MIL staff taught the irrigation portion of the Project Greenscape class for landscape professionals at the Rookery Bay National Estuarine Research Reserve in Naples.

August

- MIL staff participated in a meeting of the Greenscape Alliance, a group of government agencies and university employees that addresses water-quality issues.

- MIL staff hosted a booth at the two-day Citrus Expo industry show in North Fort Myers.

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: 4 | 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	Follow Up	Micro Spray	95	90	63.0	Ag	Citrus	16.81	6,12	56.77	
2	Initial	Micro Spray	95	61	54.0	Ag	Citrus	16.81	6,12,20,25,41		44.38
3	Initial	Micro Spray	95	74	140.0	Ag	Citrus	16.81	2,4,33		58.58
4	Follow Up	Micro Spray	95	78	15.1	Ag	Citrus	16.81	3,21	3.10	
5	Follow Up	Micro Spray	95	84	24.8	Ag	Citrus	16.81	2,21,56	1.01	
6	Follow Up	Micro Spray	95	81	24.5	Ag	Citrus	16.81	3,21,56	1.07	
7	Follow Up	Micro Spray	95	88	24.4	Ag	Citrus	16.81	3,21,33,56	1.37	
8	Follow Up	Micro Spray	95	77	14.2	Ag	Citrus	16.81	2,3,6,12,21,30,33,40	2.58	
9	Follow Up	Micro Spray	95	77	14.4	Ag	Citrus	16.81	2,4,12,21,30,35	0.70	
10	Follow Up	Micro Spray	95	85	15.6	Ag	Citrus	16.81	2,6,12,21,30	2.67	
11	Follow Up	Micro Spray	95	83	17.8	Ag	Citrus	16.81	2,3,6,12,21,30	0.37	
12	Follow Up	Micro Spray	95	94	12.9	Ag	Citrus	16.81	3	3.65	
13	Follow Up	Micro Spray	95	83	14.2	Ag	Citrus	16.81	3,21	3.28	
14	Follow Up	Micro Spray	95	85	16.4	Ag	Citrus	16.81	3,21,30,33	0.32	
15	Follow Up	Micro Spray	95	84	17.3	Ag	Citrus	16.81	3,21	0.35	
16	Follow Up	Micro Spray	95	90	16.3	Ag	Citrus	16.81	3,12,30,33	2.14	
17	Follow Up	Micro Spray	95	81	15.8	Ag	Citrus	16.81	2,6,12,21,30,33	1.42	
18	Follow Up	Micro Spray	95	86	17.2	Ag	Citrus	16.81	2,6,12,21,30	4.54	
19	Follow Up	Micro Spray	95	79	15.2	Ag	Citrus	16.81	2,12,21,26,33,40,56	21.44	
20	Follow Up	Micro Spray	95	84	20.4	Ag	Citrus	16.81	2,21,26,33,40	39.25	
21	Follow Up	Micro Spray	95	70	20.7	Ag	Citrus	16.81	21,26,33,40	9.45	
22	Follow Up	Micro Spray	95	73	20.6	Ag	Citrus	16.81	21,33	3.54	
23	Follow Up	Micro Spray	95	80	19.0	Ag	Citrus	16.81	21	0.42	
24	Follow Up	Micro Spray	95	83	12.9	Ag	Citrus	16.81	3,12,21,56	2.32	
25	Follow Up	Micro Spray	95	90	14.6	Ag	Citrus	16.81	3,12,21	1.34	
26	Follow Up	Micro Spray	95	85	18.4	Ag	Citrus	16.81	12,21	8.15	
27	Follow Up	Micro Spray	95	83	15.8	Ag	Citrus	16.81	12,21	2.84	
28	Follow Up	Micro Spray	95	73	15.4	Ag	Citrus	16.81	6,12,21,33,56	0.83	
29	Follow Up	Micro Spray	95	92	15.4	Ag	Citrus	16.81	3,12,21,56	1.93	
30	Follow Up	Micro Spray	95	91	15.3	Ag	Citrus	16.81	12,21,56	1.37	
31	Follow Up	Micro Spray	95	93	16.7	Ag	Citrus	16.81	12,21,56	6.04	
32	Follow Up	Micro Spray	95	88	11.6	Ag	Citrus	16.81	2,3,6,12,21	1.11	
33	Follow Up	Micro Spray	95	87	14.0	Ag	Citrus	16.81	2,12,21	5.08	
34	Follow Up	Micro Spray	95	89	10.3	Ag	Citrus	16.81	2,12,21	0.96	
35	Follow Up	Micro Spray	95	90	9.9	Ag	Citrus	16.81	2,12,21	0.53	
36	Follow Up	Micro Spray	95	87	14.3	Ag	Citrus	16.81	3,21,26	0.82	
				83.3	**798.4**					**192.78**	**102.97**

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: 2 **Federal Quarter: 4** **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	Hendry	34142	29	Well	210	7.3	Turbine or Submersible	1700	1540	Diesel
2	Hendry	34142	23	Well	290	7.1	Turbine or Submersible	1250	1000	Diesel
3	Glades	33471	36	Surface	150	7.1	Turbine or Submersible	2900	2410	Diesel
4	Lee	33913	28	Well	180	6.9	Turbine or Submersible	390	410	Diesel
5	Lee	33913	26	Well	140	7.2	Turbine or Submersible	580	550	Diesel
6	Lee	33913	34	Well	140	7.2	Turbine or Submersible	550	515	Diesel
7	Lee	33913	28	Well	140	7.2	Turbine or Submersible	530	490	Diesel
8	Lee	33913	28	Well	200	7.4	Turbine or Submersible		420	Diesel
9	Lee	33913	28	Well	200	7.4	Turbine or Submersible		475	Diesel
10	Lee	33913	28	Well	200	7.4	Turbine or Submersible		315	Diesel
11	Lee	33913	28	Well	200	7.4	Turbine or Submersible		400	Diesel
12	Lee	33913	28	Well	220	6.8	Turbine or Submersible	320	265	Diesel
13	Lee	33913	33	Well	180	6.9	Turbine or Submersible	315	310	Diesel
14	Lee	33913	28	Well	220	6.8	Turbine or Submersible	510	510	Diesel
15	Lee	33913	28	Well	220	6.8	Turbine or Submersible	570	430	Diesel
16	Lee	33913	28	Well	140	7.6	Turbine or Submersible	400	380	Diesel
17	Lee	33913	28	Well	140	7.6	Turbine or Submersible	440	430	Diesel
18	Lee	33913	28	Well	140	7.6	Turbine or Submersible	370	355	Diesel
19	Lee	33913	14	Well	210	7.2	Turbine or Submersible	340	340	Diesel
20	Lee	33913	28	Well	150	7.1	Turbine or Submersible	500	470	Diesel
21	Lee	33913	28	Well	150	7.1	Turbine or Submersible	555	515	Diesel
22	Lee	33913	28	Well	150	7.1	Turbine or Submersible	520	490	Diesel
23	Lee	33913	6	Well	150	7.1	Turbine or Submersible	400	370	Diesel
24	Lee	33913	33	Well	210	7.2	Turbine or Submersible	260	260	Diesel
25	Lee	33913	33	Well	190	7.0	Turbine or Submersible	340	370	Diesel
26	Lee	33913	28	Well	190	7.0	Turbine or Submersible	350	365	Diesel
27	Lee	33913	6	Well	190	7.0	Turbine or Submersible	360	360	Diesel
28	Lee	33913	33	Well	210	7.2	Turbine or Submersible	290	300	Diesel
29	Lee	33913	28	Well	150	7.2	Turbine or Submersible	415	400	Electric
30	Lee	33913	28	Well	150	7.2	Turbine or Submersible	360	360	Diesel
31	Lee	33913	28	Well	150	7.2	Turbine or Submersible	395	390	Diesel
32	Lee	33913	28	Well	150	7.0	Turbine or Submersible	290	290	Diesel
33	Lee	33913	28	Well	150	7.0	Turbine or Submersible	300	300	Diesel
34	Lee	33913	28	Well	150	7.0	Turbine or Submersible	290	290	Diesel
35	Lee	33913	28	Well	150	7.0	Turbine or Submersible	270	270	Diesel
36	Lee	33913	28	Well	180	6.9	Turbine or Submersible	360	380	Diesel

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: **Lower West Coast**

MIL ID: **2**

FEDERAL QUARTER: **4** **FEDERAL FISCAL YEAR:** **2014**

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Collier	Citrus		1		220
Hendry	Citrus		3		1550
Lee	Citrus		1		400
Glades	Blueberries		1		30
Totals			**6**		**2200**

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:	4

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
7/17/14	Water Conservation	Project Greenscape	40	Naples	8
8/5/14	Meeting Participation	Greenscape Alliance	12	Naples	6
8/13-14/14	Booth	Citrus Expo	1000	Fort Myers	20
TOTALS			**1052**		**34**

Notes: