Lower West Coast
Mobile Irrigation Lab

Quarterly Report
First Quarter – Fiscal Year 2015
October 1 through December 31, 2014

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 first quarter of Fiscal Year 2015, from October 1 to December 31, 2014. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 27 of which were initial evaluations, and 9 of which were follow-up evaluations. Of those completed, all 32 evaluations were performed on microjet systems on citrus and blueberries, and 4 evaluations were performed on drip systems on blueberries.

RESULTS

Agricultural system evaluations are rated based on the measured Emission Uniformity (EU) of systems. The average EU of the agricultural systems evaluated was 71%.

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: 188.0 million gallons (576.9 acre feet) per year.
AWS: 29.2 million gallons (89.7 acre feet) per year.

Conservation Education/Outreach Activities

The MIL team did not provide any special outside education and outreach activities this quarter.

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: 1 | MIL Federal Fiscal Year: 2015

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	65	14.6	Ag	Citrus	16.81	2,12,21,33,40,56		9.94
2	Follow Up	Micro Spray	95	69	11.0	Ag	Citrus	16.81	6,12,40	0.67	
3	Follow Up	Micro Spray	95	81	10.5	Ag	Citrus	16.81	12,40	0.00	
4	Follow Up	Micro Spray	95	82	10.5	Ag	Citrus	16.81	12,40	0.00	
5	Follow Up	Micro Spray	95	74	55.0	Ag	Citrus	16.81	4,6	46.95	
6	Follow Up	Micro Spray	95	65	55.0	Ag	Citrus	16.81	4,6,33,40	0.00	
7	Follow Up	Micro Spray	95	58	55.0	Ag	Citrus	16.81	4,6	0.00	
8	Follow Up	Micro Spray	95	65	55.0	Ag	Citrus	16.81	4,6,21,40	0.00	
9	Follow Up	Micro Spray	95	51	55.0	Ag	Citrus	16.81	4,6,35,40	3.02	
10	Follow Up	Micro Spray	95	55	55.0	Ag	Citrus	16.81	4,6,35	39.09	
11	Initial	Micro Spray	95	68	116.0	Ag	Citrus	16.81	4,6,13,30,40		67.92
12	Initial	Micro Spray	95	62	56.0	Ag	Citrus	16.81	3,4,6,12,40		43.95
13	Initial	Micro Spray	95	67	100.0	Ag	Citrus	16.81	6,20,40		61.62
14	Initial	Micro Spray	95	52	140.0	Ag	Citrus	16.81	2,4,21,30,33		170.71
15	Initial	Micro Spray	95	94	2.5	Ag	Berries	16.36			0.04
16	Initial	Micro Spray	95	97	2.5	Ag	Berries	16.36			0.00
17	Initial	Micro Spray	95	83	2.5	Ag	Berries	16.36			0.52
18	Initial	Micro Spray	95	89	2.5	Ag	Berries	16.36			0.24
19	Initial	Micro Spray	95	83	1.0	Ag	Berries	16.36			0.21
20	Initial	Drip	90	77	2.5	Ag	Berries	16.36	22		0.64
21	Initial	Drip	90	69	2.5	Ag	Berries	13.36	22		1.15
22	Initial	Drip	90	83	2.5	Ag	Berries	16.36			0.32
23	Initial	Drip	90	83	2.5	Ag	Berries	16.36			0.32
24	Initial	Micro Spray	95	72	31.0	Ag	Citrus	16.81	4,12,20		14.60
25	Initial	Micro Spray	95	69	31.0	Ag	Citrus	16.81	4,20,40		17.22
26	Initial	Micro Spray	95	63	31.0	Ag	Citrus	16.81	4,20,40,41		23.22
27	Initial	Micro Spray	95	73	31.0	Ag	Citrus	16.81	4,20,40		13.78
28	Initial	Micro Spray	95	57	31.0	Ag	Citrus	16.81	4,6,20,40,41		30.47
29	Initial	Micro Spray	95	73	29.0	Ag	Citrus	16.81	4,12,20,33		12.89
30	Initial	Micro Spray	95	68	29.0	Ag	Citrus	16.81	4,12,20,33		16.98
31	Initial	Micro Spray	95	75	29.0	Ag	Citrus	16.81	4,12,20,33		11.40
32	Initial	Micro Spray	95	66	29.0	Ag	Citrus	16.81	4,12,20		18.79
33	Initial	Micro Spray	95	82	25.0	Ag	Citrus	16.81	4,12,20,30,35		5.84
34	Initial	Micro Spray	95	67	25.0	Ag	Citrus	16.81	4,12,20,30		15.41
35	Initial	Micro Spray	95	66	25.0	Ag	Citrus	16.81	6,12,20,30,40		16.20
36	Initial	Micro Spray	95	59	25.0	Ag	Citrus	16.81	4,6,20,40		22.49
				71.2	**1,180.6**					**89.74**	**576.87**

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: 2 **Federal Quarter: 1** **Federal Fiscal Year: 2015**

Eval ID #	County Name	Zip Code	Soil Type No.	Water Source	TDS	pH	Pump Type	Inline Flow	UFM Flow	Motor Type
1	Lee	33913	53	Well	210	7.2	Turbine or Submersible	270	260	Diesel
2	Lee	33920	72	Surface			Centrifugal	240	255	Electric
3	Lee	33920	72	Surface			Centrifugal	270	260	Electric
4	Lee	33920	72	Surface			Centrifugal	280	280	Electric
5	Lee	33920	55	Surface			Centrifugal	1300	1220	Diesel
6	Lee	33920	55	Surface			Centrifugal	1300	1300	Diesel
7	Lee	33920	55	Surface			Centrifugal	1500	1450	Diesel
8	Lee	33920	55	Surface			Centrifugal	1400	1390	Diesel
9	Lee	33920	55	Surface			Centrifugal	1150	1130	Diesel
10	Lee	33920	55	Surface			Centrifugal	1470	1400	Diesel
11	Hendry	33935	1	Surface			Centrifugal	1630	1440	Diesel
12	Hendry	33935	1	Surface			Centrifugal	1380	1300	Diesel
13	Hendry	33935	1	Surface			Centrifugal	2350	2050	Diesel
14	Hendry	33935	10	Surface			Centrifugal		1700	Diesel
15	Glades	33935	23	Surface			Centrifugal	240	240	Diesel
16	Glades	33935	23	Surface			Centrifugal			Diesel
17	Glades	33935	23	Surface			Centrifugal			Diesel
18	Glades	33935	23	Surface			Centrifugal			Diesel
19	Glades	33935	23	Surface			Centrifugal			Diesel
20	Glades	33935	23	Surface			Centrifugal			Diesel
21	Glades	33935	23	Surface			Centrifugal			Diesel
22	Glades	33935	23	Surface			Centrifugal			Diesel
23	Glades	33935	23	Surface			Centrifugal	180	210	Diesel
24	Collier	34142	16	Well	220	7.1	Turbine or Submersible	650	810	Diesel
25	Collier	34142	16	Well	220	7.1	Turbine or Submersible	690	810	Diesel
26	Collier	34142	16	Well	220	7.1	Turbine or Submersible	700	780	Diesel
27	Collier	34142	16	Well	220	7.1	Turbine or Submersible	750	750	Diesel
28	Collier	34142	16	Well	220	7.1	Turbine or Submersible	820	780	Diesel
29	Collier	34142	17	Well	270	7.3	Turbine or Submersible	750	690	Diesel
30	Collier	34142	17	Well	270	7.3	Turbine or Submersible	650	620	Diesel
31	Collier	34142	17	Well	270	7.3	Turbine or Submersible	650	590	Diesel
32	Collier	34142	7	Well	270	7.3	Turbine or Submersible	580	550	Diesel
33	Collier	34142	27	Well			Turbine or Submersible	680	680	Diesel
34	Collier	34142	27	Well			Turbine or Submersible	660	660	Diesel
35	Collier	34142	7	Well			Turbine or Submersible	580	600	Diesel
36	Collier	34142	7	Well			Turbine or Submersible	600	600	Diesel

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: **Lower West Coast**

MIL ID: **2**

FEDERAL QUARTER: **1** **FEDERAL FISCAL YEAR:** **2015**

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Collier	Citrus		2		3720
Hendry	Citrus		2		1350
Totals			**4**		**5070**

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	2015
Fed Quarter:	1

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
TOTALS			**0**		**0**

Notes: