

Lower West Coast Mobile Irrigation Lab

Quarterly Report Second Quarter – Fiscal Year 2013 January 1 through March 31, 2013

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 second quarter of Fiscal Year 2013, from January 1 to March 31, 2013. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, all of which were initial evaluations. Of those completed, 34 evaluations were performed on microspray systems, and 2 were performed on drip 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 80%.

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: 84.3 million gallons (258.72 acre feet) per year.

AWS: 00.0 million gallons (000.0 acre feet) per year.

Conservation Education/Outreach Activities

January

- MIL staff taught the Irrigation module of the Best Management Practices training for Project Greenscape at Rookery Bay National Estuarine Research Reserve in Naples.

February

- MIL staff led an irrigation class for Master Gardeners in conjunction with the University of Florida Institute of Food and Agricultural Sciences (IFAS).

March

- 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 led an irrigation installation class for Master Gardeners in conjunction with the University of Florida IFAS.
- MIL staff participated in a class on agricultural irrigation practices conducted by the University of Florida IFAS research center in Immokalee.

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.

Attachment # 1a: Ag - Lower West Coast

MIL ID: 2

Federal Quarter: 2

MIL Federal Fiscal Year: 2013

Eval ID #	Evaluation Type	Irrigation System Type	Irrig System Distrib or Emiss Unif (%)		Irrig Sys Ac	Land Use		Annual Water Use (in.) NIR	Irrigation System Problems	Water Savings (ac-ft)	
			Max	Per Eval		Type	Crop			Total AWS	Total PWS
1	Initial	Micro Spray	95	86	70.0	Ag	Citrus	16.81	4,21,33		10.80
2	Initial	Micro Spray	95	83	43.2	Ag	Citrus	16.81	2,4,30,33		9.21
3	Initial	Micro Spray	95	83	25.0	Ag	Citrus	16.81	4,12,56		5.33
4	Initial	Micro Spray	95	88	25.0	Ag	Citrus	16.81	4,12,56		2.93
5	Initial	Micro Spray	95	77	25.0	Ag	Citrus	16.81	4,6,12,30,56		8.62
6	Initial	Micro Spray	95	87	25.0	Ag	Citrus	16.81	4,12,56		3.39
7	Initial	Micro Spray	95	85	20.0	Ag	Citrus	16.81	4,12,30,35,56		3.47
8	Initial	Micro Spray	95	80	20.0	Ag	Citrus	16.81	12,56		5.53
9	Initial	Micro Spray	95	88	20.0	Ag	Citrus	16.81	4,12,56		2.35
10	Initial	Micro Spray	95	82	20.0	Ag	Citrus	16.81	12,56		4.68
11	Initial	Micro Spray	95	66	22.5	Ag	Citrus	16.81	4,6,12,30,56		14.58
12	Initial	Micro Spray	95	85	22.5	Ag	Citrus	16.81	4,12,30,56		3.90
13	Initial	Micro Spray	95	81	22.5	Ag	Citrus	16.81	4,6,12,56		5.73
14	Initial	Micro Spray	95	81	22.5	Ag	Citrus	16.81	6,12,30,56		5.73
15	Initial	Micro Spray	95	89	22.0	Ag	Citrus	16.81	12,30,35		2.19
16	Initial	Micro Spray	95	81	22.0	Ag	Citrus	16.81	12,30,35		5.61
17	Initial	Micro Spray	95	85	22.0	Ag	Citrus	16.81	3,6,12,30,35		3.82
18	Initial	Micro Spray	95	67	22.0	Ag	Citrus	16.81	4,6,12,30,35		13.56
19	Initial	Micro Spray	95	62	23.0	Ag	Citrus	16.81	4,12,22,56		18.05
20	Initial	Micro Spray	95	86	23.0	Ag	Citrus	16.81	12,30,56		3.55
21	Initial	Micro Spray	95	74	23.0	Ag	Citrus	16.81	4,12,30,56		9.62
22	Initial	Micro Spray	95	67	23.0	Ag	Citrus	16.81	4,6,12,56		14.17
23	Initial	Micro Spray	95	61	23.0	Ag	Citrus	16.81	3,4,6,12,35,56		18.90
24	Initial	Micro Spray	95	73	23.0	Ag	Citrus	16.81	4,6,12,30,56		10.22
25	Initial	Micro Spray	95	89	23.0	Ag	Citrus	16.81	4,6,12,30,56		2.29
26	Initial	Micro Spray	95	62	23.0	Ag	Citrus	16.81	4,6,12,30,35,56		18.05
27	Initial	Micro Spray	95	89	16.0	Ag	Citrus	16.81	2,6,12,30,41,56		1.59
28	Initial	Micro Spray	95	83	16.0	Ag	Citrus	16.81	2,12,30,56		3.41
29	Initial	Micro Spray	95	89	16.0	Ag	Citrus	16.81	2,12,56		1.59
30	Initial	Micro Spray	95	88	16.0	Ag	Citrus	16.81	2,12,56		1.88
31	Initial	Drip	90	62	25.0	Ag	Citrus	16.81	6,12,21,22,30,33,56		17.57
32	Initial	Micro Spray	95	79	25.0	Ag	Citrus	16.81	4,12,30,33,56		7.47
33	Initial	Drip	90	72	25.0	Ag	Citrus	16.81	12,21,30,33,56		9.73
34	Initial	Micro Spray	95	88	25.0	Ag	Citrus	16.81	4,12,30,56		2.93
35	Initial	Micro Spray	95	85	15.0	Ag	Citrus	16.81	2,12,30,56		2.60
36	Initial	Micro Spray	95	84	19.0	Ag	Citrus	16.81	2,6,12,21,56		3.67
				79.6	853.2					0.00	258.72

Attachment # 1b: Ag - Lower West Coast

IRRIGATION SYSTEM WATER SOURCE, PUMPING STATION, AND OTHER INFO

MIL ID: 2

Federal Quarter: 2

Federal Fiscal Year: 2013

Eval ID #	County Name	Zip Code	Soil Type No.	Water Source	TDS	pH	Pump Type	Inline Flow	UFM Flow	Motor Type
1	Hendry	34142	7	Surface			Turbine or Submersible		1420	Diesel
2	Hendry	33975	1	Surface			Turbine or Submersible		1330	Diesel
3	Hendry	33930	4	Well	810	7.2	Turbine or Submersible	600	580	Diesel
4	Hendry	33930	4	Well	810	7.2	Turbine or Submersible	610	590	Diesel
5	Hendry	33930	4	Well	810	7.2	Turbine or Submersible	630	620	Diesel
6	Hendry	33930	4	Well	810	7.2	Turbine or Submersible	525	565	Diesel
7	Hendry	33930	1	Well	880	7.5	Turbine or Submersible	380	360	Diesel
8	Hendry	33930	4	Well	880	7.5	Turbine or Submersible	400	385	Diesel
9	Hendry	33930	4	Well	880	7.5	Turbine or Submersible	425	400	Diesel
10	Hendry	33930	4	Well	880	7.5	Turbine or Submersible	400	380	Diesel
11	Hendry	33930	4	Well	660	7.1	Turbine or Submersible	540	430	Diesel
12	Hendry	33930	4	Well	660	7.1	Turbine or Submersible	620	490	Diesel
13	Hendry	33930	4	Well	660	7.1	Turbine or Submersible	570	460	Diesel
14	Hendry	33930	4	Well	660	7.1	Turbine or Submersible	630	500	Diesel
15	Hendry	33930	14	Well	1200	6.9	Turbine or Submersible	670	620	Diesel
16	Hendry	33930	4	Well	1200	6.9	Turbine or Submersible	700	650	Diesel
17	Hendry	33930	4	Well	1200	6.9	Turbine or Submersible	680	650	Diesel
18	Hendry	33930	14	Well	1200	6.9	Turbine or Submersible	590	550	Diesel
19	Hendry	33930	4	Well	1170	7.6	Turbine or Submersible	600	620	Diesel
20	Hendry	33930	51	Well	1170	7.6	Turbine or Submersible	600	640	Diesel
21	Hendry	33930	4	Well	1170	7.6	Turbine or Submersible	680	690	Diesel
22	Hendry	33930	4	Well	1170	7.6	Turbine or Submersible	650	670	Diesel
23	Hendry	33930	4	Well	1330	6.8	Turbine or Submersible	580	580	Diesel
24	Hendry	33930	14	Well	1330	6.8	Turbine or Submersible	500	500	Diesel
25	Hendry	33930	14	Well	1330	6.8	Turbine or Submersible	500	500	Diesel
26	Hendry	33930	14	Well	1330	6.8	Turbine or Submersible	520	520	Diesel
27	Hendry	33930	4	Well	1020	7.2	Turbine or Submersible	450	425	Diesel
28	Hendry	33930	4	Well	1020	7.2	Turbine or Submersible	415	395	Diesel
29	Hendry	33930	4	Well	1020	7.2	Turbine or Submersible	440	410	Diesel
30	Hendry	33930	4	Well	1020	7.2	Turbine or Submersible	375	360	Diesel
31	Hendry	33930	7	Well			Turbine or Submersible	130	150	Diesel
32	Hendry	33930	32	Well			Turbine or Submersible	260	300	Diesel
33	Hendry	33930	59	Well			Turbine or Submersible	130	150	Diesel
34	Hendry	33930	14	Well			Turbine or Submersible	240	280	Diesel
35	Hendry	33930	7	Well	530	7.2	Turbine or Submersible	360	355	Diesel
36	Hendry	33930	7	Well	530	7.2	Turbine or Submersible	500	495	Diesel

Attachment # 4: MIL Conservation Education and Outreach Report

MIL Name:	Lower West Coast
MIL ID:	2
Federal FY	2013
Fed Quarter:	2

Date (mm/dy/year)	Type of Presentation	Name of Group	Number Attending	City or Town	Duration (hrs)
1/31/13	Water Conservation	Greenscape Alliance	30	Naples	6
2/12/13	Irrigation and Water Conservation	Master Gardeners	15	Naples	9
3/7/13	Meeting Participation	Greenscape Alliance	8	Naples	6
3/21/13	Irrigation and Water Conservation	Master Gardeners	8	Naples	6
3/27/13	Meeting Participation	University of Florida IFAS	25	Labelle	6
TOTALS			86		33

Notes:

ATTACHMENT # 3: MIL EVALUATION WAITING LIST

MIL NAME: Lower West Coast

MIL ID: 2

FEDERAL QUARTER: 2 **FEDERAL FISCAL YEAR:** 2013

COUNTY	CATEGORY		TOTAL COUNT		APPROX TOTAL ACRES
Collier	Citrus		1		1000
Collier	Vegetables		1		10
Hendry	Citrus		1		400
Totals			3		1410

CATEGORIES: SAME AS IN ATTACH 1A SPREADSHEET DELIVERABLE