

Lower West Coast Mobile Irrigation Lab

Quarterly Report Third Quarter – Fiscal Year 2015 April 1 through June 30, 2015

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 2015, from April 1 to June 30, 2015. The Mobile Irrigation Lab (MIL) completed 44 total evaluations, 7 of which were initial evaluations, and 37 of which were follow-up evaluations. Of those completed, all 36 evaluations were performed on microjet systems on citrus.

RESULTS

Agricultural system evaluations are rated based on the measured Emission Uniformity (EU) of systems. The average EU of the agricultural systems evaluated was 84%.

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: 12.9 million gallons (39.5 acre feet) per year.

AWS: 15.9 million gallons (48.7 acre feet) per year.

Conservation Education/Outreach Activities

April

- MIL staff attended a meeting of the Greenscape Alliance, a group of interested parties who discuss ways to reduce runoff into waterways.

June

- The MIL team presented the Irrigation portion of the Project Greenscape Best Management Practices course for landscapers in Collier County. This is done in conjunction with the Rookery Bay National Estuarine Research Reserve.

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.

LOWER WEST COAST MOBILE IRRIGATION LAB
April - June 2015 (3rd Qtr. Federal Fiscal Year)

Zip Code	County	Quarter ID	Crop	System Type	Acres	Soil Type	**** Water ****			Pump	Motor	Problems	Inline Flow	US Flow	EU%	PWS Ac./Ft.	AWS Ac./Ft.	Follow Up
							Source	pH	TDS									
34142	Collier	1	Citrus	Micro	48.0	2	Well	7.2	300	Turbine	Diesel	2,6	900	860	86		0.00	90
34142	Collier	2	Citrus	Micro	24.1	14	Well		500	Turbine	Diesel	2,6,12,56,33,40	800	805	86	3.72		
34142	Collier	3	Citrus	Micro	36.3	14	Well		500	Turbine	Diesel	2,4,6,12,56,40	1425	1270	73	16.13		
34142	Collier	4	Citrus	Micro	36.3	14	Well		500	Turbine	Diesel	12,56,40	1150	1000	88	4.26		
34142	Collier	5	Citrus	Micro	35.8	21	Well	7.0	600	Turbine	Diesel	30	1020	1000	88		0.00	94
34142	Collier	6	Citrus	Micro	22.2	14	Well	7.0	600	Turbine	Diesel	40	650	660	85		0.00	91
34142	Collier	7	Citrus	Micro	22.2	14	Well	7.0	600	Turbine	Diesel	2,4,35	575	570	89		0.00	95
34142	Collier	8	Citrus	Micro	32.0	14	Well	7.0	600	Turbine	Diesel	6,20	860	870	74		0.00	89
34142	Collier	9	Citrus	Micro	10.0	14	Well	7.0	600	Turbine	Diesel	30,40	330	320	89		0.36	87
34142	Collier	10	Citrus	Micro	4.9	14	Well		390	Turbine	Diesel	12,56,30		260	90	0.40		
34142	Collier	11	Citrus	Micro	28.0	11	Well	7.0	600	Turbine	Electric	6,40	1425	1250	85		3.50	79
34142	Collier	12	Citrus	Micro	11.8	17	Well	7.0	600	Turbine	Electric	2,6,30	950	890	70		1.43	66
34142	Collier	13	Citrus	Micro	32.2	14	Well	7.0	400	Turbine	Diesel	2,4,12,40	800		92		0.00	98
34142	Collier	14	Citrus	Micro	17.7	14	Well	7.1	470	Turbine	Diesel	4,12,56,30			87	2.40		
34142	Collier	15	Citrus	Micro	24.4	7	Well	7.0	390	Turbine	Electric	30	675	655	93		0.00	95
34142	Collier	16	Citrus	Micro	25.1	7	Well	7.0	390	Turbine	Electric	30	700	700	84		0.00	95
34142	Collier	17	Citrus	Micro	24.4	7	Well	7.0	390	Turbine	Electric	30,33	675	700	91		0.00	93
34142	Collier	18	Citrus	Micro	16.6	7	Well	7.0	390	Turbine	Electric	30	500	490	80		0.00	95
34142	Collier	19	Citrus	Micro	15.9	7	Well	6.8	280	Turbine	Electric	30,40	575	560	82		0.00	94
34142	Collier	20	Citrus	Micro	15.9	7	Well	6.8	280	Turbine	Electric	3	510	535	87		0.00	94
34142	Collier	21	Citrus	Micro	15.3	7	Well	6.8	280	Turbine	Electric		550	545	87		0.00	95
34142	Collier	22	Citrus	Micro	16.4	7	Well	6.8	280	Turbine	Electric	20	560	560	88		0.00	93
34142	Collier	23	Citrus	Micro	42.8	7	Well	7.0	290	Turbine	Electric	2,4,30	950	730	82	10.01		
34142	Collier	24	Citrus	Micro	40.3	29	Well	7.0	290	Turbine	Electric	4,30	920	720	91	2.61		
34142	Collier	25	Citrus	Micro	31.6	7	Well	7.4	610	Turbine	Electric		950	940	87		0.00	95
34142	Collier	26	Citrus	Micro	30.2	7	Well	7.4	610	Turbine	Electric	30,40	910	930	89		0.00	95
34142	Collier	27	Citrus	Micro	27.6	7	Well	7.4	610	Turbine	Electric	6,30,40	880	880	81		0.00	95
34142	Collier	28	Citrus	Micro	22.2	77	Well			Turbine	Electric	2,4,20,40	875	725	84		0.00	86
34142	Collier	29	Citrus	Micro	20.5	7	Well			Turbine	Electric	2,4,20,40	800	740	83		0.00	84
34142	Collier	30	Citrus	Micro	21.0	7	Well			Turbine	Electric	2,4,6	640	700	74		0.00	83
34142	Collier	31	Citrus	Micro	24.8	7	Well			Turbine	Electric	2,4,30	420	500	81		9.75	66
34142	Collier	32	Citrus	Micro	24.5	7	Well			Turbine	Electric	2,4	450	410	73		0.00	80
34142	Collier	33	Citrus	Micro	22.5	29	Well			Turbine	Electric	4	480	410	76		0.55	75
34142	Collier	34	Citrus	Micro	52.2	29	Well	7.0	300	Turbine	Diesel	30	1500	1370	84		11.76	74
34142	Collier	35	Citrus	Micro	18.4	29	Well	7.0	300	Turbine	Diesel		470	720	94		0.60	92
34142	Collier	36	Citrus	Micro	45.1	29	Well	7.0	300	Turbine	Diesel		1220	1300	85		5.65	79
34142	Collier	37	Citrus	Micro	28.9	7	Well	7.1	310	Turbine	Diesel	30	800	750	89		0.00	95
34142	Collier	38	Citrus	Micro	28.4	7	Well	7.1	310	Turbine	Diesel	20,30	950	900	86		0.00	95
34142	Collier	39	Citrus	Micro	32.5	7	Well	7.1	310	Turbine	Diesel		820	810	80		0.00	95
34142	Collier	40	Citrus	Micro	31.5	17	Well	7.1	310	Turbine	Diesel	20	975	940	79		0.00	95
34142	Collier	41	Citrus	Micro	35.9	29	Well	7.0		Turbine	Diesel	20	1125	1100	87		0.00	95
34142	Collier	42	Citrus	Micro	36.0	7	Well	7.0		Turbine	Diesel		1075	1045	82		0.00	95
34142	Collier	43	Citrus	Micro	27.7	29	Well	7.0		Turbine	Diesel	2,4	545	540	83		1.75	80
34142	Collier	44	Citrus	Micro	23.8	7	Well	7.0		Turbine	Diesel	2,4	500	485	86		13.33	64

1183.9

84.32

39.53

48.68