Lower West Coast
Mobile Irrigation Lab

Quarterly Report
Fourth Quarter – Fiscal Year 2016
July 1 through September 30, 2016

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 2016, from July 1 to September 30, 2016. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, all of which were initial evaluations. 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 81%.

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: 66.0 million gallons (202.7 acre feet) per year.
AWS: 0 million gallons (0 acre feet) per year.

Conservation Education/Outreach Activities

July

- MIL staff attended a seminar with citrus growers at the University of Florida Institute of Food and Agricultural Science (UF-IFAS) at the research station in Immokalee, Florida.

August

- MIL staff hosted a booth at the 2016 Citrus Expo at the Lee Civic Center in Fort Myers. This is the largest citrus-only even in the United States

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
July - September 2016 (4th 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									
33928	Lee	1	Citrus	Micro	45.5	28	Well			Turbine	Diesel	4,12	740	720	83	9.70		
33938	Lee	2	Citrus	Micro	71.6	33	Well			Turbine	Diesel	4,12,40	200	200	80	19.80		
34142	Collier	3	Citrus	Micro	18.0	16	Well			Turbine	Diesel	21,33,40	450	425	79	5.38		
34142	Collier	4	Citrus	Micro	18.0	7	Well			Turbine	Diesel	6,21,40	480	450	81	4.59		
34142	Collier	5	Citrus	Micro	18.0	7	Well			Turbine	Diesel	21,33,40	525	475	85	3.12		
34142	Collier	6	Citrus	Micro	18.0	7	Well			Turbine	Diesel	6,21,40	525	470	75	7.08		
34142	Collier	7	Citrus	Micro	15.0	16	Well			Turbine	Diesel	3,6,21,30,31,33,40	310	310	81	3.82		
34142	Collier	8	Citrus	Micro	15.0	16	Well			Turbine	Diesel	21,31,40	370	360	70	7.90		
34142	Collier	9	Citrus	Micro	15.0	16	Well			Turbine	Diesel	21,30,31,33,40	450	450	82	3.51		
34142	Collier	10	Citrus	Micro	15.0	16	Well			Turbine	Diesel	6,21,30,40	430	420	79	4.48		
34142	Collier	11	Citrus	Micro	18.0	15	Well			Turbine	Diesel	6,12,21,33,35,40	400	400	81	4.59		
34142	Collier	12	Citrus	Micro	18.0	15	Well			Turbine	Diesel	12,33,40	460	420	80	4.98		
34142	Collier	13	Citrus	Micro	18.0	15	Well			Turbine	Diesel	6,12,40	450	445	84	3.48		
34142	Collier	14	Citrus	Micro	18.0	18	Well			Turbine	Diesel	12,33,40	410	405	89	1.79		
34142	Collier	15	Citrus	Micro	17.0	15	Well			Turbine	Diesel	20,21,33,40	350	345	79	5.08		
34142	Collier	16	Citrus	Micro	17.0	8	Well			Turbine	Diesel	4,41,33,40	375	350	75	6.68		
34142	Collier	17	Citrus	Micro	17.0	8	Well			Turbine	Diesel	20,21,33,40	360	345	76	6.27		
34142	Collier	18	Citrus	Micro	17.0	8	Well			Turbine	Diesel	4,21,30,40	350	345	82	3.97		
34142	Collier	19	Citrus	Micro	17.0	7	Well			Turbine	Diesel	12,33,35	500	485	90	1.39		
34142	Collier	20	Citrus	Micro	17.0	7	Well			Turbine	Diesel	3,12	510	480	91	1.10		
34142	Collier	21	Citrus	Micro	17.0	7	Well			Turbine	Diesel	3,12,33	450	420	84	3.28		
34142	Collier	22	Citrus	Micro	17.0	7	Well			Turbine	Diesel	6,12	400	395	88	1.99		
34142	Collier	23	Citrus	Micro	21.4	15	Well			Turbine	Diesel	3,6,33,35,40	320	320	69	11.89		
34142	Collier	24	Citrus	Micro	21.4	8	Well			Turbine	Diesel	4,33,40	325	460	91	1.39		
34142	Collier	25	Citrus	Micro	21.4	16	Well			Turbine	Diesel	4,6,40	250	485	80	5.92		
34142	Collier	26	Citrus	Micro	21.4	16	Well			Turbine	Diesel	4,40	250	450	87	2.90		
34142	Collier	27	Citrus	Micro	17.0	7	Well			Turbine	Diesel	4,12,21	625	605	83	3.62		
34142	Collier	28	Citrus	Micro	17.0	7	Well			Turbine	Diesel	12,21	600	590	66	11.01		
34142	Collier	29	Citrus	Micro	17.0	7	Well			Turbine	Diesel	12,21	600	590	77	5.86		
34142	Collier	30	Citrus	Micro	17.0	7	Well			Turbine	Diesel	12,21	610	590	71	8.47		
34142	Collier	31	Citrus	Micro	27.1	16	Well			Turbine	Diesel	4,6,31	500	490	79	8.09		
34142	Collier	32	Citrus	Micro	27.1	16	Well			Turbine	Diesel	4,31	520	475	90	2.22		
34142	Collier	33	Citrus	Micro	27.1	7	Well			Turbine	Diesel	21,31	575	540	78	8.71		
34142	Collier	34	Citrus	Micro	19.6	16	Well			Turbine	Diesel	4,12	575	445	85	3.40		
34142	Collier	35	Citrus	Micro	19.6	16	Well			Turbine	Diesel	4,12,21	610	460	71	9.77		
34142	Collier	36	Citrus	Micro	19.6	16	Well			Turbine	Diesel	4,12	575	440	80	5.42		
					750.8										80.58	202.65	0.00	
															Millions of gallons:	66,034,783	0	