

# **Lower West Coast Mobile Irrigation Lab**

## **Quarterly Report Fourth Quarter – Fiscal Year 2019 July 1 through September 30, 2019**

**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 2019, from July 1 to September 30, 2019. The Mobile Irrigation Lab (MIL) completed 36 total evaluations, 26 of which were initial evaluations, and 10 of which was a follow-up evaluation. All 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 78%.

## **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: 164.6 million gallons (505 acre feet) per year.**

**AWS: 12.6 million gallons (38.6 acre feet) per year.**

# Conservation Education/Outreach Activities

**August**

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- MIL staff hosted a booth at the 2019 Citrus Expo in North Fort Myers.
- MIL staff presented the Irrigation portion of the Greenscape Best Management Class for landscapers at the Rookery Bay National Estuarine Research Reserve in Naples.

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](http://www.collierswcd.org).

**LOWER WEST COAST MOBILE IRRIGATION LAB**  
**July - September 2019 (4th Qtr. Federal Fiscal Year)**

Producer	Zone	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.	Initial EU	Init. qtr.	FDACS ID Initial	GPS Lat	GPS Long	BMP NOI#	
									Source	pH															TDS
Norris Grove	1	33935	Hendry	1	Citrus	Micro	7.1	He-1	Well			Turbine	Electric	30		240	96	0.00				26.74453	-81.53313		
Norris Grove	2	33935	Hendry	2	Citrus	Micro	7.5	He-1	Well			Turbine	Electric			265	91	0.49				26.74572	-81.53272		
Norris Grove	3	33935	Hendry	3	Citrus	Micro	7.2	He-1	Well			Turbine	Electric	33		275	92	0.00				26.74444	-81.53154		
Norris Grove	4	33935	Hendry	4	Citrus	Micro	8.7	He-1	Well			Turbine	Electric	33		275	89	0.86				26.74279	-81.53307		
Norris Grove	5	33935	Hendry	5	Citrus	Micro	8.8	He-1	Well			Turbine	Electric			285	96	0.00				26.74278	-81.53135		
Norris Grove	6	33935	Hendry	6	Citrus	Micro	8.7	He-1	Well			Turbine	Electric	33		280	89	0.86				26.74115	-81.53137		
Evans Property	7	33982	Charlotte	7	Citrus	Micro	50.8	Ch-11	Surface			Centrifical	Diesel	2		2850	2380	79	15.17	0.00	87	2008 Q2	26.92178	-81.64935	
Evans Property	10	33982	Charlotte	8	Citrus	Micro	73.7	Ch-11	Surface			Centrifical	Diesel	2,40		2650		79	22.01	3.39	77	2008 Q2	26.91484	-81.64432	
Evans Property	11	33982	Charlotte	9	Citrus	Micro	30.4	Ch-33	Surface			Centrifical	Diesel	2,4,31		1250	1100	85	5.27	0.00	88	2008 Q2	26.90773	-81.66176	
Evans Property	12	33982	Charlotte	10	Citrus	Micro	85.3	Ch-11	Surface			Centrifical	Diesel	4,6		1900		86	13.16	16.24	77	2008 Q2	26.90768	-81.64970	
Evans Property	14	33982	Charlotte	11	Citrus	Micro	80.0	Ch-11	Surface			Centrifical	Diesel	2		3450	3050	81	20.39	0.00	81	2008 Q2	26.90422	-81.64980	
Evans Property	17	33982	Charlotte	12	Citrus	Micro	68.3	Ch-26	Surface			Centrifical	Diesel	2,4,6,31,40		2100	1400	56	70.14	0.00	72	2008 Q2	26.91343	-81.63592	
Evans Property	18	33982	Charlotte	13	Citrus	Micro	146.0	Ch-33	Surface			Centrifical	Diesel	2,6,30		2300	1950	79	43.60	0.00	79	2008 Q2	26.91478	-81.62277	
Evans Property	19	33982	Charlotte	14	Citrus	Micro	35.3	Ch-33	Surface			Centrifical	Diesel	2,4,40		1450	1250	85	6.12	0.00	91	2008 Q2	26.91301	-81.61939	
Evans Property	20	33982	Charlotte	15	Citrus	Micro	48.5	Ch-33	Surface			Centrifical	Diesel	2,4,6,30,40		2800	2120	82	11.34	0.00	82	2008 Q2	26.91053	-81.61020	
Evans Property	21	33982	Charlotte	16	Citrus	Micro	73.7	Ch-33	Surface			Centrifical	Diesel	2,4,6		2350	1800	83	15.71	19.00	72	2008 Q2	26.91448	-81.61018	
Crows Nest	C2A Z1	33441	Hendry	17	Citrus	Micro	27	He-4	Well	7.5	338	Turbine	Diesel	2,21,33,40,56		875	820	64	19.28			26.43386	-81.22130		
Crows Nest	C2A Z2	33441	Hendry	18	Citrus	Micro	27.3	He-4	Well	7.5	338	Turbine	Diesel	2,21,33,40,56		950	900	78	8.77			26.43375	-81.21794		
Crows Nest	C2A Z3	33441	Hendry	19	Citrus	Micro	27.1	He-21	Well	7.5	338	Turbine	Diesel	2,21,33,40,56		850	810	70	14.27			26.43019	-81.22130		
Crows Nest	C2A Z4	33441	Hendry	20	Citrus	Micro	27.0	He-7	Well	7.5	338	Turbine	Diesel	2,21,33,40,56		850	815	79	8.06			26.43026	-81.21776		
Crows Nest	C2B Z1	33441	Hendry	21	Citrus	Micro	26.6	He-4	Well	7.2	490	Turbine	Electric	21,33,40,56		1060	85	4.61				26.43382	-81.21468		
Crows Nest	C2B Z2	33441	Hendry	22	Citrus	Micro	25.8	He-4	Well	7.2	490	Turbine	Electric	21,33,40,56		1100	72	12.15				26.43040	-81.21491		
Crows Nest	C2B Z3	33441	Hendry	23	Citrus	Micro	26.3	He-26	Well	7.2	490	Turbine	Electric	33,40,56		1120	69	14.61				26.43120	-81.20874		
Crows Nest	C2B Z4	33441	Hendry	24	Citrus	Micro	28.1	He-4	Well	7.2	790	Turbine	Electric	33,56		1065	82	6.57				26.43393	-81.20992		
Crows Nest	C4 Z1	33441	Hendry	25	Citrus	Micro	44.3	He-1	Well	7.5	520	Turbine	Diesel	2,33		1275	1280	68	25.94			26.44070	-81.21532		
Crows Nest	C4 Z2	33441	Hendry	26	Citrus	Micro	44.4	He-4	Well	7.5	520	Turbine	Diesel	2,33		1150	1140	75	17.46			26.43675	-81.21725		
Crows Nest	C4 Z3	33441	Hendry	27	Citrus	Micro	44.6	He-21	Well	7.5	520	Turbine	Diesel	2,33		1225	1230	71	22.23			26.44098	-81.20815		
Crows Nest	C4 Z4	33441	Hendry	28	Citrus	Micro	43.2	He-4	Well	7.5	520	Turbine	Diesel	21,33		1225	1210	68	25.29			26.43703	-81.20889		
Crows Nest	C6A Z1	33441	Hendry	29	Citrus	Micro	26.4	He-4	Well	7.5	520	Turbine	Diesel	21,33,40		1060	1060	69	14.67			26.40486	-81.20506		
Crows Nest	C6A Z2	33441	Hendry	30	Citrus	Micro	24.5	He-4	Well	7.5	520	Turbine	Diesel	21,33,40		1075	1070	77	8.45			26.44029	-81.20139		
Crows Nest	C6A Z3	33441	Hendry	31	Citrus	Micro	24.5	He-26	Well	7.5	520	Turbine	Diesel	21,33,40		1100	1085	68	14.34			26.43704	-81.20496		
Crows Nest	C6A Z4	33441	Hendry	32	Citrus	Micro	24.9	He-7	Well	7.5	520	Turbine	Diesel	21,33		1050	1040	68	14.58			26.43779	-81.19685		
Crows Nest	C6B Z1	33441	Hendry	33	Citrus	Micro	24.9	He-7	Well	7.7	435	Turbine	Diesel			1100	1070	64	17.78			26.44045	-81.19685		
Crows Nest	C6B Z2	33441	Hendry	34	Citrus	Micro	25.0	He-7	Well	7.7	435	Turbine	Diesel	21,33		950	940	77	8.62			26.44093	-81.19309		
Crows Nest	C6B Z3	33441	Hendry	35	Citrus	Micro	26.2	He-7	Well	7.7	435	Turbine	Diesel	21,33,40		1075	1065	73	11.64			26.43775	-81.19547		
Crows Nest	C6B Z4	33441	Hendry	36	Citrus	Micro	22.8	He-17	Well	7.7	435	Turbine	Diesel	21,33		775	800	71	11.36			26.43818	-81.19162		
							1330.9										77.7	505.85	38.64						

Millions of gallons: 164,832,015 12,590,276