

Lower West Coast Mobile Irrigation Lab

Quarterly Report Second Quarter – Fiscal Year 2020 January 1 through March 31, 2020

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 2020, from January 1 to March 31, 2020. The Mobile Irrigation Lab (MIL) completed 59 total evaluations, 40 of which were initial evaluations, and 19 of which were follow-up evaluations. All 59 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 81.7%.

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: 134.7 million gallons (413.5 acre feet) per year.

AWS: 2.6 million gallons (8.12 acre feet) per year.

Conservation Education/Outreach Activities

February

- MIL Team Leader calibrated 15 irrigation/well pumps at the Packers of Indian River for Rick Vachon for his Water Use Permits that were expiring.
- MIL has evaluations yet to finish at the Summerland Grove in Immokalee Florida.

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
Jan-Mar (2nd Qtr. Federal Fiscal Year) 2020

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
									Source	pH	TDS													
Luna Grove	Zone 1	33935	Hendry	57	Citrus	Micro	30.0	He-37	Surface	8.45	660	Centrif	Electric	4,5,6,25,31,41,55	710	680	74	12.55				26.44430	-81.31692	
CPI	5W-Zone A	33930	Hendry	58	Citrus	Micro	7.6	He-51	Well	7.8	1035	Turbine	Diesel	4,41,56	150	135	82	1.78		Replacement		26.35424	-81.33449	
CPI	5W Zone B	33930	Hendry	59	Citrus	Micro	7.6	He-62	Well	7.8	1035	Turbine	Diesel	4,41,56	150	135	95	0.00		Replacement		26.35347	-81.33491	
CPI	5W Zone C	33930	Hendry	60	Citrus	Micro	7.6	He-51	Well	7.8	1035	Turbine	Diesel	4,41,56	140	125	88	0.89		Replacement		26.35369	-81.33500	
CPI	5W Zone D	33930	Hendry	61	Citrus	Micro	7.7	He-51	Well	7.8	1035	Turbine	Diesel	4,41,56	150	130	96	-0.12		Replacement		26.35377	-81.33427	
CPI	5E Zone A	33930	Hendry	62	Citrus	Micro	7.9	He-51	Well	7.5	990	Turbine	Diesel	41,56	190	180	87	1.07		Replacement		26.35443	-81.33362	
CPI	5E Zone B	33930	Hendry	63	Citrus	Micro	7.9	He-14	Well	7.5	990	Turbine	Diesel	41,56	190	180	94	0.12		Replacement		26.35362	-81.33368	
CPI	5E Zone C	33930	Hendry	64	Citrus	Micro	7.9	He-51	Well	7.5	990	Turbine	Diesel	41,56	240	235	93	0.25		Replacement		26.35436	-81.33268	
CPI	5E Zone D	33930	Hendry	65	Citrus	Micro	7.9	He-51	Well	7.5	990	Turbine	Diesel	41,56	260	255	95	0.00		Replacement		26.35367	-81.33264	
CPI	P1 Zone A	33930	Hendry	66	Citrus	Micro	8.8	He-62	Well	7.9	1240	Turbine	Diesel	21,41,56	260	245	94	0.14	0.00	94	2014 3Q	26.35558	-81.33456	
CPI	P1 Zone B	33930	Hendry	67	Citrus	Micro	8.8	He-32	Well	7.9	1240	Turbine	Diesel	21,41,56	320	310	80	2.43	-0.19	81	2014 3Q	26.35559	-81.33364	
CPI	P1 Zone C	33930	Hendry	68	Citrus	Micro	8.8	He-62	Well	7.9	1240	Turbine	Diesel	21,41,56	220	205	87	1.19	-0.77	92	2014 3Q	26.35489	-81.33506	
CPI	P1 Zone D	33930	Hendry	69	Citrus	Micro	8.8	He-32	Well	7.9	1240	Turbine	Diesel	21,41,56	260	250	92	0.42	0.45	89	2014 3Q	26.35504	-81.33447	
CPI	P2 Zone A	33930	Hendry	70	Citrus	Micro	23.6	He-1	Well	7.7	815	Turbine	Diesel	12,20,26	475	450	75	9.28	3.15	70	2014 3Q	26.55573	-81.33246	
CPI	P2 Zone B	33930	Hendry	71	Citrus	Micro	23.6	He-51	Well	7.7	815	Turbine	Diesel	12,20,26	460	430	88	2.77	-0.42	89	2014 3Q	26.35518	-81.33140	
CPI	P2 Zone C	33930	Hendry	72	Citrus	Micro	23.6	He-51	Well	7.7	815	Turbine	Diesel	12,20,26	500	465	93	0.75	2.89	86	2014 3Q	26.35570	-81.33220	
CPI	P2 Zone D	33930	Hendry	73	Citrus	Micro	23.6	He-1	Well	7.7	815	Turbine	Diesel	12,20,26	530	500	88	2.77	4.82	78	2014 3Q	26.35568	-81.33547	
CPI	P11 Zone A	33930	Hendry	74	Citrus	Micro	18	He-1	Well	7.65	780	Turbine	Diesel	4,12,21,56	310	305	68	10.54	-4.33	77	2014 3Q	26.35192	-81.33455	
CPI	P11 Zone B	33930	Hendry	75	Citrus	Micro	18	He-1	Well	7.65	780	Turbine	Diesel	4,12,21,30,56	370	365	76	6.64				26.35138	-81.33395	
CPI	P11 Zone C	33930	Hendry	76	Citrus	Micro	18.0	He-1	Well	7.65	780	Turbine	Diesel	12,21,31,56	440	430	84	3.48				26.35137	-81.33327	
CPI	P11 Zone D	33930	Hendry	77	Citrus	Micro	18	He-51	Well	7.65	780	Turbine	Diesel	12,21,56	440	430	85	3.12				26.35126	-81.33252	
CPI	P41 Zone C	33930	Hendry	78	Citrus	Micro	15.6	He-4	Well	8	890	Turbine	Diesel	21,56	285	270	90	1.28	2.37	82	2014 3Q	26.33212	-81.32264	
CPI	P41 Zone D	33930	Hendry	79	Citrus	Micro	15.6	He-4	Well	8	890	Turbine	Diesel	21,56	250	235	88	1.83	0.29	87	2014 3Q	26.33143	-81.32268	
CPI	P39 Zone A	33930	Hendry	80	Citrus	Micro	7.4	He-7	Well	7.6	435	Turbine	Diesel	21,56	185	180	80	2.05	-1.04	87	2014 3Q	26.33219	-81.33495	
CPI	P39 Zone B	33930	Hendry	81	Citrus	Micro	7.4	He-32	Well	7.6	435	Turbine	Diesel	4,5,21,56	170	160	84	1.43	-0.15	85	2014 3Q	26.33137	-81.33463	
CPI	P43 Zone C	33930	Hendry	82	Citrus	Micro	7.4	He-4	Well	7.6	435	Turbine	Diesel	21,56	180	170	80	2.05	-0.32	82	2014 3Q	26.33135	-81.33430	
CPI	P43 Zone D	33930	Hendry	83	Citrus	Micro	7.4	He-14	Well	7.6	435	Turbine	Diesel	21,56	200	190	84	1.43	0.15	83	2014 3Q	26.33135	-81.33350	
CPI	P58 Zone A	33930	Hendry	84	Citrus	Micro	20.4	He-32	Well	7.9	370	Turbine	Diesel	21,33,56	550	535	93	0.65	3.70	83	2014 3Q	26.32190	-81.32535	
CPI	P58 Zone B	33930	Hendry	85	Citrus	Micro	20.4	He-14	Well	7.9	370	Turbine	Diesel	21,33,56	500	480	82	4.77	-1.23	85	2014 3Q	26.32975	-81.32599	
CPI	P58 Zone C	33930	Hendry	86	Citrus	Micro	20.4	He-51	Well	7.9	370	Turbine	Diesel	21,33,56	540	525	80	5.64	-3.97	90	2014 3Q	26.32952	-81.32527	
CPI	P58 Zone D	33930	Hendry	87	Citrus	Micro	20.4	He-51	Well	7.9	370	Turbine	Diesel	21,33,56	700	675	75	8.02	2.72	70	2014 3Q	26.32300	-81.33334	
Summerland	B1-1 Zone 1	34142	Collier	88	Citrus	Micro	34.4	Co-16	Well	7.2	420	Turbine	Diesel	4,33	Broken	625	78	11.06				26.21591	-81.22590	
Summerland	B1-1 Zone 2	34142	Collier	89	Citrus	Micro	35.0	Co-16	Well	7.2	420	Turbine	Diesel	4,33	Broken	625	72	16.49				26.21595	-81.22377	
Summerland	B1-1 Zone 3	34142	Collier	90	Citrus	Micro	31.1	Co-27	Well	7.2	420	Turbine	Diesel	4,33	Broken	625	83	6.63				26.21466	-81.22596	
Summerland	B1-1 Zone 4	34142	Collier	91	Citrus	Micro	31.2	Co-7	Well	7.2	420	Turbine	Diesel	4,33	Broken	695	82	7.29				26.21464	-81.22475	
Summerland	B1-2 Zone 1	34142	Collier	92	Citrus	Micro	35.6	Co-3	Well	7.8	430	Turbine	Diesel	4,33	Broken	715	79	10.63				26.21588	-81.22305	
Summerland	B1-2 Zone 2	34142	Collier	93	Citrus	Micro	36.1	Co-28	Well	7.8	430	Turbine	Diesel	4,33	Broken	735	82	8.44				26.21593	-81.22789	
Summerland	B1-2 Zone 3	34142	Collier	94	Citrus	Micro	30.7	Co-3	Well	7.8	430	Turbine	Diesel	4,33	Broken	730	71	15.30				26.21462	-81.22361	
Summerland	B1-2 Zone 4	34142	Collier	95	Citrus	Micro	30.1	Co-3	Well	7.8	430	Turbine	Diesel	4,33	Broken	770	63	22.54				26.21469	-81.22178	
Summerland	B3-1 Zone 1	34142	Collier	96	Citrus	Micro	35.8	Co-7	Well	7.3	400	Turbine	Diesel	33,40	675	600	79	10.69				26.21333	-81.22595	
Summerland	B3-1 Zone 2	34142	Collier	97	Citrus	Micro	35.3	Co-3	Well	7.3	400	Turbine	Diesel	33,40	750	710	85	6.12				26.21338	-81.22385	
Summerland	B3-1 Zone 3	34142	Collier	98	Citrus	Micro	33.2	Co-7	Well	7.3	400	Turbine	Diesel	33,40	700	640	83	7.08				26.21208	-81.22590	
Summerland	B3-1 Zone 4	34142	Collier	99	Citrus	Micro	32.4	Co-3	Well	7.3	400	Turbine	Diesel	33,40	750	670	78	10.41				26.21207	-81.22426	
Summerland	B3-2 Zone 1	34142	Collier	100	Citrus	Micro	37.4	Co-3	Well	7.2	380	Turbine	Diesel	6,25,33,	725	700	73	16.62				26.21336	-81.22247	
Summerland	B3-2 Zone 2	34142	Collier	101	Citrus	Micro	33.1	Co-3	Well	7.2	380	Turbine	Diesel	6,25,33,	675	665	76	12.20				26.21342	-81.22112	
Summerland	B3-2 Zone 3	34142	Collier	102	Citrus	Micro	32.1	Co-3	Well	7.2	380	Turbine	Diesel	6,25,33,	775	730	81	8.18				26.21204	-81.22369	
Summerland	B3-2 Zone 4	34142	Collier	103	Citrus	Micro	32.1	Co-7	Well	7.2	380	Turbine	Diesel	6,25,33,	725	705	62	25.19				26.21205	-81.22200	
Summerland	A1 Zone 1	34142	Collier	104	Citrus	Micro	38.2	Co-28	Well	7.5	460	Turbine	Diesel	33,40	875	870	80	10.56				26.22373	-81.22153	
Summerland	A2 Zone 2	34142	Collier	105	Citrus	Micro	51.8	Co-28	Well	7.5	460	Turbine	Diesel	33,40	925	900	90	4.24				26.22251	-81.21474	
Summerland	A2 Zone 3	34142	Collier	106	Citrus	Micro	55.3	Co-16	Well	7.5	460	Turbine	Diesel	33,40	850	850	83	11.79				26.22128	-81.21504	
Summerland	A3 Zone 4	34142	Collier	107	Citrus	Micro	37	Co-16	Well	7.5	460	Turbine	Diesel	33,40	825	825	73	16.44				26.22119	-81.21255	
Summerland	B4 Zone 1	34142	Collier	108	Citrus	Micro	32.1	Co-28	Well	7.4	370	Turbine	Diesel	6,25,33,	775	750	72	15.12				26.21204	-81.22139	
Summerland	B4 Zone 2	34142	Collier	109	Citrus	Micro	24.5	Co-7	Well	7.4	370	Turbine	Diesel	6,25,33,	750	730	71	12.21				26.21295	-81.22656	
Summerland	B4 Zone 3	34142	Collier	110	Citrus	Micro	29.6	Co-7	Well	7.4	370	Turbine	Diesel	6,25,33,	650	640	75	11.64				26.21210	-81.21548	
Summerland	B4 Zone 4	34142	Collier	111	Citrus	Micro	31.3	Co-3	Well	7.4	370	Turbine	Diesel	6,25,33,	775	765	73	13.91				26.21166	81.21379	
Summerland	C4 Zone 1	34142	Collier	112	Citrus	Micro	40	Co-3	Well	7.4	430	Turbine	Diesel	12,33	780	775	81	10.19				26.21346	-81.22022	
Summerland	C4 Zone 2	34142	Collier	113	Citrus	Micro	37.6	Co-20	Well	7.4	430	Turbine	Diesel	12,33	775	765	86	5.80				26.21392	-81.21394	
Summerland	C4 Zone 3	34142	Collier	114	Citrus	Micro	30.2	Co-3	Well	7.4	430	Turbine	Diesel	12,33	850	825	81	7.70				26.21304	-81.21463	
Summerland	C4 Zone 4	34142	Collier	115	Citrus	Micro	38.6	Co-20	Well	7.4	430	Turbine	Diesel	12,33	850	815	81	9.84				26.21302	-81.21188	

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