

Lower West Coast Mobile Irrigation Lab

Quarterly Report First Quarter – Fiscal Year 2021 Oct 1 through December 31, 2020

Sponsored by:

**Collier Soil and Water Conservation District
Florida Department of Agriculture and Consumer Services
Natural Resources Conservation Service**

**3434 Hancock Bridge Parkway
North Fort Myers , FL 33903
(239) 214-3113**

Evaluation Results

SYSTEMS EVALUATED

This report covers the first quarter of Fiscal Year 2021, from October 1 to December 31, 2020. The Mobile Irrigation Lab (MIL) completed 20 total evaluations which were all initial evaluations with no 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 82.5%.

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: 69.7 million gallons (213.6 acre feet) per year.

Conservation Education/Outreach Activities

None since Covid-19

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
Oct-Dec (1st Qtr. Federal Fiscal Year) 2021**

| 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 | | | | | | | | | | | | | | |
| Grove 10 Z1&3 | 33440 | Hendry | 26 | Citrus | Micro | 61.5 | H-29 | Surface | 7.7 | 380 | Turbine | Electric | 6,20,30 | 1010 | 1050 | 78 | 19.76 | | | | 26.42216 | -81.34595 | #5529 | |
| TJ & Mary Z4 | 33982 | Charlotte | 27 | Citrus | Micro | 38.2 | Ch-34 | Well | 7.9 | 990 | Turbine | Diesel | 5,20,21,30,33 | 970 | 910 | 86 | 5.89 | | | | 26.59128 | -81.43991 | #5252 | |
| TJ & Mary Z9 | 33982 | Charlotte | 28 | Citrus | Micro | 38.2 | Ch-34 | Well | 7.9 | 990 | Turbine | Diesel | 5,30,33,40 | 850 | 800 | 90 | 3.13 | | | | 26.59175 | -81.43456 | #5251 | |
| Duda NWF Z1 | 33930 | Hendry | 29 | Citrus | Micro | 48.3 | H-29 | Surface | 7.8 | 390 | Turbine | Diesel | 33 | 1580 | 1590 | 90 | 3.96 | | | | 26.38549 | -81.33882 | #38060 | |
| Blk 3 Z1-3 | 33930 | Hendry | 30 | Citrus | Micro | 90 | H-7 | Surface | 8 | 445 | Centrif | Diesel | 20,21,33 | 2300 | 2110 | 94 | 1.41 | | | | 26.33456 | -81.28517 | #38184 | |
| Pump24 Zone 4 | 33982 | Charlotte | 31 | Citrus | Micro | 60 | Ch-77 | Surface | 6.7 | 455 | Centrif | Diesel | 20,21,33,40 | 2450 | 2510 | 73 | 26.66 | | | | 26.44219 | -81.34276 | #38183 | |
| Sec 26 Blk 56 | 33982 | Charlotte | 32 | Citrus | Micro | 170 | Ch-35 | Surface | 7.3 | 1050 | Turbine | Diesel | 4,20,30,33 | 3250 | 3350 | 79 | 50.77 | | | | 26.58447 | -81.42160 | #37973 | |
| Blk34 Zone 56-57-39 | 33982 | Charlotte | 33 | Citrus | Micro | 23.2 | Ch-26 | Surface | 7 | 100 | Turbine | Electric | 4,20,30,31 | 1310 | 1270 | 85 | 4.02 | | | | 26.56595 | -81.42889 | #37970 | |
| Zone 2 | 33903 | Lee | 34 | Plant | Fixed | 2.5 | L-33 | Reclaim | 7.8 | 460 | None | None | 32,52,54 | 48 | 48 | 72 | 1.18 | | | | 26.41235 | -81.52304 | #39620 | |
| Pump8 Zone 3 | 33440 | Hendry | 35 | Citrus | Micro | 68 | H-14 | Surface | 7.55 | 385 | Turbine | Electric | 30,33,41 | 1300 | 1290 | 84 | 13.13 | | | | 26.65475 | -81.13445 | #5528 | |
| Tripp Pump Z1 | 33975 | Hendry | 36 | Citrus | Micro | 11.0 | H-4 | Well | 7.75 | 580 | Turbine | Electric | 20,21,33 | None | 157 | 87 | 1.49 | | | | 26.73268 | -81.44887 | #5823 | |
| Sparks Pump Z2 | 33975 | Hendry | 37 | Citrus | Micro | 5 | H-4 | Well | 7.5 | 480 | Turbine | Electric | 21,25,33 | None | 135 | 93 | 0.16 | | | | 26.73315 | -81.44430 | #5824 | |
| South Grove | 33971 | Lee | 38 | Citrus | Micro | 72 | L-28 | Surface | 7.3 | 1290 | Centrif | Diesel | 4,30 | 2150 | 2100 | 91 | 4.67 | 84 | 3rd 2014 | | 26.68796 | -81.58112 | #13569 | |
| East Pasture Grove | 33935 | Hendry | 39 | Citrus | Micro | 27 | H-1 | Well | 7.3 | 1200 | Turbine | Diesel | 4,20,25,41 | 630 | 590 | 84 | 5.21 | | | | 26.73267 | -81.48780 | #14501005 | |
| House Block | 33935 | Hendry | 40 | Citrus | Micro | 46.7 | H-29 | Surface | 7.45 | 235 | Turbine | Electric | 20,25,41 | 850 | 800 | 78 | 15.01 | | | | 26.73686 | -81.493360 | #14501007 | |
| Strawberry Field | 34120 | Collier | 41 | Veg | Drip | 0.3 | C-132 | Well | 6.6 | 540 | Centrif | Electric | 53 | None | 47 | 90 | 0.02 | | | | 26.26141 | -81.62670 | #5470 | |
| NG Block 6 | 33935 | Hendry | 42 | Citrus | Micro | 36.5 | H-8 | Surface | 7.5 | 310 | Centrif | Diesel | 12,20,30,40,41 | None | 755 | 62 | 28.65 | | | | 26.68119 | -81.30939 | #4460 | |
| Sears Rd Sec 2 | 33935 | Hendry | 43 | Citrus | Micro | 45.2 | H-4 | Surface | 7.5 | 355 | Centrif | Diesel | 12,20,21,26,40 | None | 770 | 79 | 13.50 | | | | 26.64771 | -81.32802 | #4461 | |
| Road 6 Sec 2 | 33935 | Hendry | 44 | Citrus | Micro | 20.9 | H-7 | Surface | 7.5 | 350 | Centrif | Diesel | 4,12,21,30,40 | None | 300 | 69 | 11.61 | | | | 26.70241 | -81.31113 | #4459 | |
| Sec 1 Blk 78 | 33935 | Hendry | 45 | Citrus | Micro | 25.0 | H-8 | Surface | 7.35 | 265 | Centrif | Electric | 12,21,41 | None | 445 | 87 | 3.39 | | | | 26.64780 | -81.34818 | #4462 | |
| | | | 46 | | | | | | | | | | | | | | #DIV/0! | | | | | | | |
| | | | 47 | | | | | | | | | | | | | | #DIV/0! | | | | | | | |
| | | | 48 | | | | | | | | | | | | | | #DIV/0! | | | | | | | |
| | | | 49 | | | | | | | | | | | | | | #DIV/0! | | | | | | | |
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