

Lower West Coast Mobile Irrigation Lab

Quarterly Report First Quarter – Fiscal Year 2018 October 1 through December 31, 2017

Sponsored by:

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

**14700 Immokalee Road
Naples, FL 34120
(239) 455-4100**

Evaluation Results

SYSTEMS EVALUATED

This report covers the first quarter of Fiscal Year 2018, from October 1 to December 31, 2017. The Mobile Irrigation Lab (MIL) completed 15 total evaluations, 10 of which were initial evaluations, and 5 of which were follow-up evaluations. All 15 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 79%.

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: 34.6 million gallons (106.1 acre feet) per year.

AWS: 16.0 million gallons (49.2 acre feet) per year.

Conservation Education/Outreach Activities

November

- MIL staff participated in a meeting at the University of Florida Institute of Food and Agricultural Sciences Southwest Florida Research and Education Center in Immokalee, about the Citrus Health Management Area program.

December

- MIL staff helped put on the Southwest Florida Envirothon regional science competition in Fort Myers.
- MIL staff participated in a meeting at the University of Florida Institute of Food and Agricultural Sciences Southwest Florida Research and Education Center in Immokalee, about the citrus greening disease.

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
October - December 2017 (1st 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 | 42 | Citrus | Micro | 10.5 | 11 | Well | 7.5 | 410 | Turbine | Electric | 2,3,6,12 | | 180 | 78 | 3.37 | | |
| 33928 | Lee | 43 | Citrus | Micro | 12.9 | 11 | Well | 7.5 | 410 | Turbine | Electric | 12 | | 205 | 82 | 3.02 | | |
| 33928 | Lee | 44 | Citrus | Micro | 13.0 | 28 | Well | 7.5 | 410 | Turbine | Electric | 12 | | 225 | 87 | 1.76 | | |
| 33928 | Lee | 45 | Citrus | Micro | 13.2 | 28 | Well | 7.5 | 410 | Turbine | Electric | | | 210 | 85 | 2.29 | | |
| 33928 | Lee | 46 | Citrus | Micro | 36.5 | 28 | Well | 7.3 | 420 | Turbine | Diesel | 4,30,40 | 700 | 630 | 84 | 7.05 | | |
| 33928 | Lee | 47 | Citrus | Micro | 36.1 | 11 | Well | 7.3 | 420 | Turbine | Diesel | 2,4,7,40 | 760 | 655 | 79 | 10.78 | | |
| 33928 | Lee | 48 | Citrus | Micro | 33.5 | 11 | Well | 7.4 | 430 | Turbine | Diesel | 2,4,12,30,40 | 540 | 680 | 70 | 17.64 | | |
| 33928 | Lee | 49 | Citrus | Micro | 31.8 | 11 | Well | 7.4 | 430 | Turbine | Diesel | 2,4,7,12,30,40 | 580 | 670 | 65 | 21.64 | | |
| 33928 | Lee | 50 | Citrus | Micro | 37.8 | 11 | Well | 7.4 | 430 | Turbine | Diesel | 2,4,7,12,30,40 | 760 | 780 | 65 | 25.73 | | |
| 33928 | Lee | 51 | Citrus | Micro | 32.7 | 28 | Well | 7.4 | 380 | Turbine | Diesel | 4,6,40 | 510 | 460 | 75 | 12.86 | | |
| 33928 | Lee | 52 | Citrus | Micro | 36.5 | 28 | Well | 7.3 | 420 | Turbine | Diesel | | 675 | 570 | 85 | | 0.72 | 84 |
| 33928 | Lee | 53 | Citrus | Micro | 36.1 | 11 | Well | 7.3 | 420 | Turbine | Diesel | 4 | 700 | 600 | 84 | | 3.81 | 79 |
| 33928 | Lee | 54 | Citrus | Micro | 33.5 | 11 | Well | 7.4 | 430 | Turbine | Diesel | 12,20 | 530 | 540 | 84 | | 11.17 | 70 |
| 33928 | Lee | 55 | Citrus | Micro | 31.8 | 11 | Well | 7.4 | 430 | Turbine | Diesel | 2,12,20 | 510 | 500 | 80 | | 12.85 | 65 |
| 33928 | Lee | 56 | Citrus | Micro | 37.8 | 11 | Well | 7.4 | 430 | Turbine | Diesel | 12,20,30 | 350 | 360 | 87 | | 20.60 | 65 |

433.7

79.33

106.14

49.15

Millions of gallons: 34,585,948 16,015,484