Irrigation Management Service

1st QUARTER REPORT
November 2018 through January 2019

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Casa Grande, Arizona
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IMS is a water conservation program sponsored by the Eloy Natural Resource Conservation District (NRCD), Florence-Coolidge NRCD, West Pinal NRCD, the USDA Natural Resources Conservation Service (formerly SCS), the US DOI Bureau of Reclamation, and the Arizona Department of Water Resources (ADWR). This printed information was produced in accordance with a water conservation (or augmentation) program which was either partially or entirely funded by the State of Arizona Department of Water Resources Conservation Assistance (or Augmentation) Fund.

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Contract: 2019-3070 IGA
I. Program Highlights and Plans for the Next Quarter.

During this Quarter the Major IMS Activities were:

- End of the Year Cooperator Meetings
- Plan BMP Workshops
- 4 Evaluations
- Worked with NRCS and NREC
- Continued with BMP Enrollments

Activities Planned for the Next Quarter are:

- Continue doing Evaluations
- Continue doing BMP verifications
- Have BMP Workshops
- Worked with NRCS and NREC
- Continued with BMP Enrollments
BMP Summary

- 170 farms in the BMP program to date
- 91,000 acres in BMP to date
- Have about 2 farms BMP applications in process
- Met periodically with all BMP cooperators throughout the Qtr
- Collected Verification information
III. Status of IMS Standard and Season-Long Evaluations

Contract Minimum Requirements (by December 31, 2019):
   a) Turf evaluations @ 4 minimum; Status: 0 of 4, or 0%.
   b) Standard evaluations @ 14 minimum; Status: 4 of 16, or 25%
   c) Season-long evaluations @ 6 minimum; Status: 0 of 6 or 0%.
List of BMP Cooperators who received IMS-ADWR signs.

**BMP ENROLLEES**

James K. Henness
Serrano Farms
Ramsey Echeverria*
Marvin Wuertz
Deanna Diwan
Diwan Ranches INC*
M&G Farms
Tom Isom Farms
B&J Farms
Dewitt Weddle
John Walker*
John Foster Turf*
Douglas Gladden
Robert Boyle
Bruce Bartlett*
Tierra Oerde Farms
Henness Farms
Kelly Freeman
Riggins Farms II
Robert Boyle
TNT Farms
Don England*
Kortsen Land & Capital
Sam Smith
Greg Wuertz
Claude Brown
T&T Farms LLC
TTTT Farms LLC
T&K Red River Dairy
Tom T. LLC
T&T Farms LLC
TTTT Farms LLC
TTTT Farms
Markwood Enterprises
River Bush Farms I
River Bush Farms II
River Bush Farms III
Stambaugh Farms*
Normark Farms
Davis Farms
Davis Farms II
Terry Boyle Farm
Peterson Farms I
Peterson Farms II
Bechtel Eagle Farms I
Bechtel Eagle Farms II
Bechtel Eagle Farms III
Walter Buell
El Fuerte Farms
Irish Way Dairy
Sidewinder Farming INC
The Shelhow Limited Par
John Nevitt
Mark Dobson
Timothy Maher
Arnaldo Burgos
Gordita LP
Marathon Farming CO.*
Dorthy Tappan
Penny Malone
Cockrill Brothers*
Robert W & Elizabeth Boyle*
Don A. England*
Stambaugh Farms*
RLF Desert Farm*
Glen Rogers Farms
R&D Farm Part.
Daniel Nowlin Farms*
Calalina Farms*
SD farms
Sierra Farming Part.
Vertucio Farms
Kirk Weddle*
Johnny Lopez
Youteey Farms
Foshee
Jong Family Trust
Barnes And Son
Gieber Eloy
Carl Carter
Rancho Asueno *
Red Barn
Santa Rosa*
Mark Osland
RPT Farms*
Brandon Salmons Farms*
Charles Bush Farms
T&K Farms*
Tomkinson Farms*
Antonio Haro *
Shamrock Farms *
Cooley Farms
MFC Arizona
Dennis Dugan *
SCR Farms
Tres Points *
Cooley farms
Holland farm
David Wuertz
James Shaw

*Multiple farms enrolled
B. IMS EQUIPMENT INVENTORY

IMS INVENTORY – Inventory of Major Equipment

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Purchase Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- 2016 Chevrolet 1500 Extended Cab</td>
<td>$34,995.00</td>
</tr>
<tr>
<td>1-NOCO Jumpstart boost</td>
<td>100.00</td>
</tr>
<tr>
<td>1-Leitz B2A Auto Level (L.D. 114453)</td>
<td>725.00</td>
</tr>
<tr>
<td>1-Woods Aluminum Tripod</td>
<td>100.00</td>
</tr>
<tr>
<td>1-Measuring Wheel</td>
<td>112.00</td>
</tr>
<tr>
<td>1-Phone w/jetback</td>
<td>350.00</td>
</tr>
<tr>
<td>1-Spectra 710 Portable laser, w/tripod</td>
<td>4,938.00</td>
</tr>
<tr>
<td>1-Dell Laptop w/software</td>
<td>500.00</td>
</tr>
<tr>
<td>1-Dell Laptop w/software</td>
<td>800.00</td>
</tr>
<tr>
<td>1- Soil probe open end</td>
<td>120.00</td>
</tr>
<tr>
<td>1- Soil probe standard</td>
<td>125.00</td>
</tr>
<tr>
<td>1-Truck counter</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$43,404.00</strong></td>
</tr>
</tbody>
</table>

To the best of our ability, the above equipment is present and accounted for.

Signed: [Signature] Date: 1/31/19

The use of any specific type, model, or brand of product or material in the course of this program should not be presumed to represent a promotion or endorsement of said product or material by the Arizona Department of Water Resources, its agents or representatives.
# C. CONTRIBUTIONS

**CONTRIBUTIONS MADE TO THE IMS PROGRAM**

Irrigation Management Service (IMS)  
Casa Grande, Arizona

This Quarter

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMS Board Members' Time – Program administration</td>
<td>$12,260.00</td>
</tr>
<tr>
<td>(613 + 0 hrs @ $20)</td>
<td></td>
</tr>
<tr>
<td>2. NRCD Directors’ Mileage</td>
<td>150.00</td>
</tr>
<tr>
<td>3. Volunteer Hours (0 hrs @ $10)</td>
<td>0/-</td>
</tr>
<tr>
<td>4. Private Grants and Contributions</td>
<td>0/-</td>
</tr>
<tr>
<td>5. NRCS Office space, phone, etc.</td>
<td>3,000.00</td>
</tr>
<tr>
<td>6. Equipment on loan to IMS</td>
<td>0/-</td>
</tr>
<tr>
<td>7. NRCD clerical time</td>
<td>200.00</td>
</tr>
<tr>
<td>8. Other contributions</td>
<td>600.00</td>
</tr>
</tbody>
</table>

**CONTRIBUTIONS this qtr**  
$16,210.00  
**CONTRIBUTIONS this qtr**  
$1,418,230.00

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**NOTES:**

#1. Team Leader queried NRCD Boards as to their estimated time contributions to the IMS program. This is the summary of these discussions:

WP NRCD: 3 hrs/wk/member = 15 hrs/wk x 12 wks/qtr = 180 hrs/qtr + 1 hr/member @ monthly NRCD mtg x 3 mtgs/qtr = 15 hrs + IMS Quarterly @ 4 hrs total 199 hrs/qtr;

Eloy NRCD: 2 hrs/wk/member = 10 hrs/wk x 12 wks/qtr = 120 hrs + 1 hr/member @ monthly NRCD mtg x 3 mtgs/qtr = 15 hrs + IMS Quarterly @ 4 hrs total 139 hrs/qtr;

FC NRCD: 50 hrs/qtr/member x 4 members = 200 hrs plus 75 hrs/qtr by IMS representative total 275 hrs/qtr.

#7. Clerical time only partially covered by IMS budget contribution: Clerk at an additional 25 hrs/qtr (2+hrs/wk x 12 wks) x $8/hr = $200

#8. Other contributions: a) IMS truck license, registration & insurance is contributed by the AZ State Land Dept: Est. @ $200 per month by 3 months = $600; b) End of season grower meetings at local IDDs and UA MAC: 9 hrs x $50/hr for room rental =

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D. Evaluations and Services
**EVAL #: 2019-001**  
**DATE:** 12/5/18  
**CROP TYPE:** ALFALFA  
**WATER SOURCE:** DISTRICT TURNOUT  
**IRRIGATION SYSTEM:** LEVEL BASIN

**FIELD INFO**

**SOIL TYPE:** SANDY CLAY LOAM  
**CFS:** 14  
**SET/FIELD ACRES:** 11.3  
**SET/FIELD TIME (HRS):** 5

**SUMMARY:**
The SET/FIELD is Level basin system with a Highflow gate and supplied by a district irrigation turnout. The soil type is a Sandy Clay Loam with (AWHC) of 1.8. Irrigation needs are 5.5”. SET/FIELD size is 11.3 ac with 14 CFS applied for 5hrs ....resulting in 6.2 “....with an efficiency of 88 %. The irrigator was present to make any changes needed. The irrigation was shut off 160’ short of the end of the field, allowing the water to continue to the end without ponding effect.... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

**EVAL #: 2019-002**  
**DATE:** 12/11/18  
**CROP TYPE:** ALFALFA  
**WATER SOURCE:** DISTRICT TURNOUT  
**IRRIGATION SYSTEM:** NEAR LEVEL BASIN

**FIELD INFO**

**SOIL TYPE:** CLAY LOAM  
**CFS:** 7.5  
**SET ACRES:** 4.1  
**SET TIME (HRS):** 3.75  
**FIELD ACRES:** 24.3  
**FIELD TIME (HRS):** 21.5

**SUMMARY:**
The field is a Near level basin system with ports and supplied by a district irrigation turnout / Well mix. The soil type is a clay loam with (AWHC) of 2.4, irrigation needs are 5.75“ for 4ft/rtzone. Set size is 4.1 ac with 7.5 CFS applied for 3.75 hrs ....resulting in 6.8 “.... Field size is 24.3 ac with a time of 21.5 hours therefore applying 6.6” with an efficiency of 87%. The irrigator was present to make any changes needed. Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.
FIELD INFO

SOIL TYPE: SANDY CLAY LOAM
CFS: 12
SET/FIELD ACRES: 9.4
SET/FIELD TIME (HRS): 4

SUMMARY:
The SET/FIELD is Level basin system with a Highflow gate and supplied by a district irrigation turnout. The soil type is a Sandy Loam with (AWHC) of 1.8". SET/FIELD size is 9 ac with 12 CFS applied for 4.75 hrs ....resulting in 6.3". Because this irrigation event was subbing up a newly planted alfalfa crop, the grower had 2 goals in mind, to sub up his crop and to apply at least 6" of water on the irrigation. The goals were met... The irrigator was present to make any changes needed. Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

FIELD INFO

SOIL TYPE: SANDY CLAY LOAM
CFS: 5.5
SET ACRES: 3
SET TIME (HRS): 3.5
FIELD ACRES: 25
FIELD TIME (HRS): 18

SUMMARY:
The field is a level basin system with siphons and supplied by a district irrigation turnout. The soil type is a Sandy clay loam with (AWHC) of 1.8", Irrigation needs are 5.4". Set size is 3 ac with 5.5 CFS applied 3.5 hrs ....resulting in 6.4".... Field size is 25 ac with a time of 28.5 hours therefore applying 6.3" with an efficiency of 85.7 %. The field had been laser touched up prior to this Alfalfa crop ...so a uniform irrigation application was achieved .....Great job . Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.