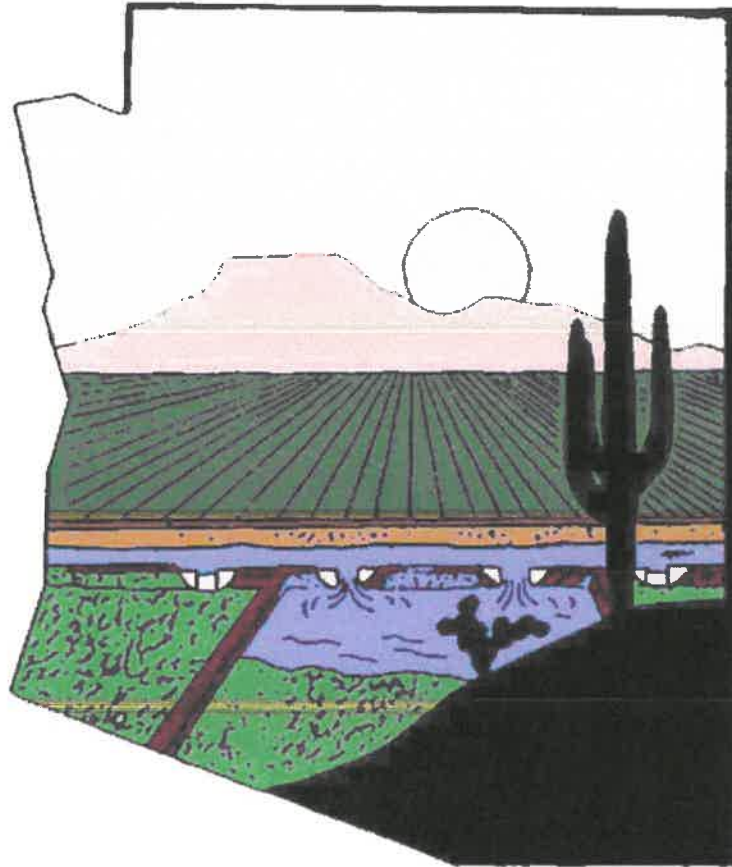


Irrigation Management Service

4th QTR/FINAL REPORT

OCT 2023 - DEC 2023



**520 N. Camino Mercado– Suite 2F
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.

Contract : 2023-3161 IGA

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Contract : 2022-3151 IGA

I. Program Highlights and Plans for the Next Quarter.

During this Quarter the Major IMS Activities were:

- Multiple Standard Evaluations
- Continued working on Seasonal evaluations on Cotton and Alfalfa
- Assisted farmers with filling out BMP Application
- Continue doing BMP verifications
- Worked with NRCS on IWM (Irrigation water management)
- Continued with BMP Enrollments

Activities Planned for the Next Quarter are:

- Assisting BMP Cooperators with re-enrollment
- Continue doing evaluations and BMP verifications
- Continue Seasonal evaluations on Cotton and Alfalfa
- Worked with NRCS and NREC
- Continued with BMP Enrollments

BMP Summary

- 177 farms in the BMP program to date
- 92,000 acres in BMP to date
- 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, 2023):

- a) Turf evaluations @ 4 minimum; Status: 4 of 4,
- b) Standard evaluations @ 14 minimum; Status: 14 of 14
- c) Season-long evaluations @ 6 minimum; Status: 6 of 6

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 & CApitol
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. *
Dorothy 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
Youtsey 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

	Purchase Price
1- 2016 Chevrolet 1500 Extended Cab	\$ 34,995.00
1-NOCO Jumpstart boost	100.00
1-Leitz B2A Auto Level (I.D. 114453)	725.00
1-Woods Aluminum Tripod	100.00
1-Measuring Wheel	112.00
1-Iphone w/jetback	350.00
1-Spectra 710 Portable laser, w/tripod	4,938.00
1-Dell Laptop w/software	500.00
1-Dell Laptop w/software	800.00
1- Soil probe open end	120.00
1- Soil probe standard	125.00
1-Truck counter	<u>539.00</u>
TOTAL	\$ 43,404.00

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

Signed:  Date: 12/31/23

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

IMS Board Members' Time – Program administration (613 + 0 hrs @ \$20)	\$ 12,260.00	
2. NRCD Directors' Mileage	150.00	
3. Volunteer Hours (0 hrs @ \$10)	-0-	
4. Private Grants and Contributions	-0-	
5. NRCS Office space, phone, etc.	3,000.00	
6. Equipment on loan to IMS	-0-	
7. NRCD clerical time	200.00	
8. Other contributions	<u>600.00</u>	Program to Date (from 7-1-87)
CONTRIBUTIONS this qtr	\$ 16,210.00	\$1,499,180.00

- 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 IDD's and UA MAC: 9 hrs x \$50/hr for room rental =

D. Evaluations and Services

EVAL #: 2023 -001
DATE: 1/10/23
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:
SOIL TYPE: SILTY CLAY LOAM
CFS: 5.75
SET ACRES: 2.5
SET (HRS) 3
FIELD ACRES: 24
FIELD TIME (HRS): 26
6.9" set
6.2" field

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is silty clay loam with (AWHC) of 2.2 , Irrigation needs are 6 ". Set size is 2.5 ac with 5.75 CFS applied 3 hrsresulting in 6.9".... Field size is 24 ac with a time of 26 hours therefore applying 6.2" with an efficiency of 96 % .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2023 -002
DATE: 2/13/23
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOU
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:
SOIL TYPE: LOAM
CFS: 10
SET ACRES: 8
SET (HRS): 2.75
FIELD ACRES: 24
FIELD TIME (HRS): 8.5
3.4" set
3.5" field

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation turnout. The goal is to flash water across the field apply no more than 4" ... The soil type is a Clay loam with (AWHC) of 2.1 , Irrigation needs are 4 ". Set size is 8 ac with 10 CFS applied 2.75 hrsresulting in 3.4".... Field size is 24 ac with a time of 8.5 hours therefore applying 3.5" with an efficiency of 87 % A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2023 -003

DATE: 3/1/23

CROP TYPE: ALFALFA

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:

SOIL TYPE: CLAY LOAM

CFS: 10

SET/FIELD ACRES: 11.5

SET/FIELD TIME (HRS): 3.25

3.25" set/field

SUMMARY :

The field is a level basin system with highflow gates and supplied by a district irrigation turnout. The soil type is a sandy clay loam with (AWHC) of 1.8 , Irrigation needs are 4". Set/Field size is 11.5 ac with 10 CFS applied 3.75hrsresulting in 3.25 with an efficiency of 81%. .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

EVAL #: 2023 -004

DATE: 3/28/23

CROP TYPE: COTTON

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: NEAR LEVEL BASIN

FIELD INFO:

SOIL TYPE: CLAY LOAM

CFS: 5

SET ACRES: 3

SET (HRS) 3.25

FIELD ACRES:18

FIELD TIME (HRS): 20.5

5.4" set

5.6" field

SUMMARY: *The field is a near level basin system with ports and supplied by a district irrigation turnout. The soil type is clay loam with (AWHC) of 2.0 , Irrigation needs are 5". Set size is 3 ac with 5 CFS applied 3.25 hrs resulting in 5.4".... Field size is 18 ac with a time of 20.5 hours therefore applying 5.6" with an efficiency of 89 % .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2023 -005

DATE: 4/11/23

CROP TYPE: ALFALFA

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:

SOIL TYPE: LOAM

CFS: 12

SET/FIELD ACRES: 8.6

SET/FIELD TIME (HRS): 2.5

3.4" set/field

SUMMARY :

The field is a level basin system with highflow gates and supplied by a district irrigation turnout. The soil type is a sandy clay loam with (AWHC) of 2.0 , Irrigation needs are 3". Set/Field size is 8.6 ac with 12 CFS applied 2.5hrsresulting in 3.4 with an efficiency of 88%. .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

EVAL #: 2023 -006

DATE: 5/16/23

CROP TYPE: COTTON

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:

SOIL TYPE: CLAY LOAM

CFS: 8

SET ACRES: 4

SET (HRS) : 2.5

FIELD ACRES: 12

FIELD TIME (HRS): 7.5

5" set

5.2" field

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is clay loam with (AWHC) of 2.4 , Irrigation needs are 5". Set size is 4 ac with 8 CFS applied 2.5 hrs resulting in 5".... Field size is 12 ac with a time of 7.75 hours therefore applying 5.2" with an efficiency of 96 % .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2023 -007
DATE: 7/12/23
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:
SOIL TYPE: SANDY CLAY LOAM
CFS: 10
SET ACRES: 5
SET (HRS) : 2.75
FIELD ACRES:10.25
FIELD TIME (HRS): 6
5.5" set
5.8" field

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is Sandy clay loam with (AWHC) of 1.8 , Irrigation needs are 6". Set size is 5 ac with 10 CFS applied 2.75 hrs resulting in 5.5".... Field size is 10.25 ac with a time of 6 hours therefore applying 5.8" with an efficiency of 96 % .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2023 -008
DATE: 7/20/23
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:
SOIL TYPE: CLAY LOAM
CFS: 7.5
SET ACRES: 5.5
SET (HRS) : 3.25
FIELD ACRES: 24
FIELD TIME (HRS): 12.25
4.4" set
3.8" field

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is clay loam with (AWHC) of 2.4 , Irrigation needs are 4". Set size is 5.5 ac with 7.5 CFS applied 3.25 hrs resulting in 4.4".... Field size is 24 ac with a time of 12.25 hours therefore applying 3.8" with an efficiency of 95 % .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2023 -009
DATE: 8/18/23
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:
SOIL TYPE: CLAY LOAM
CFS: 10
SET/FIELD ACRES: 10.5
SET/FIELD TIME (HRS): 4.25

4" set/field

SUMMARY :

The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is a clay loam with (AWHC) of 2.0 , Irrigation needs are 3.5". Set/Field size is 10.5 ac with 10 CFS applied 4.25hrsresulting in 4" with an efficiency of 87%. .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

EVAL #: 2023 -010
DATE: 8/22/23
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO:
SOIL TYPE: CLAY LOAM
CFS: 5.25
SET ACRES: 3.25
SET (HRS) : 3
FIELD ACRES: 24
FIELD TIME (HRS) 26

6.4" set
5.7" field

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is clay loam with (AWHC) of 2.4 , Irrigation needs are 5". Set size is 3.25 ac with 5.25 CFS applied 3 hrs resulting in 6.4".... Field size is 24 ac with a time of 26 hours therefore applying 5.7" with an efficiency of 87 % .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL : # 2023 -011

DATE: : 8/15/23

CROP TYPE : COTTON

WATER SOURCE : DISTRICT TURNOUT

IRRIGATION SYSTEM : LEVEL BASIN

FIELD INFO

SOIL TYPE : SANDY CLAY LOAM

CFS : 12

SET/FIELD ACRES : 10

SET/FIELDTIME (HRS) : 3.5

SUMMARY :

The field is a level basin system, supplied by a district irrigation turnout. The soil type is a Clay loam with (AWHC) of 2.4 , needs are 4.5". Set/Field size is 10 ac with 12 CFS applied for 3.5 hrsresulting in 4.2 with an efficiency of 93 % . . The Irrigator present throughout irrigation event , making adjustments as needed Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation .

EVAL #: 2023-012

DATE: 8/29/23

CROP TYPE: ALFALFA

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO

SOIL TYPE: SANDY LOAM

CFS: 12

SET ACRES: 7

SET TIME (HRS): 3.5

FIELD ACRES: 14

FIELD TIME (HRS): 7

SUMMARY :

The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is a sandy clay loam with (AWHC) of 1.8 , Irrigation needs are 5.3". Set size is 7 ac with 12 CFS applied 3.5 hrsresulting in 5.8".... Field size is 14 ac with a time of 14 hours therefore applying 6" with an efficiency of 88 % . . A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

Evaluation # : Turf 2023-001

Crop : Bermuda grass

WATER SOURCE: Local Water Co

IRRIGATION SYSTEM: Sprinkler

FIELD INFO

60 ' x 60'

16 catch can 20' spacing

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

SUMMARY : *Local Park . Sprinklers ran for 15 minutes . Catch can volume did not vary much (6-8 ml). All sprinkler heads were new different degrees of spray nozzles.. we observed that the sprinklers along sidewalks had wrong nozzles... to much water on sidewalks Recommendations replace or adjust various nozzle and reevaluate ...*

EVAL #: 2023 -013

DATE: 9/04/23

CROP TYPE: ALFALFA

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO

SOIL TYPE: SANDY CLAY LOAM

CFS: 12

SET/FIELD ACRES: 8.6

SET/FIELD TIME (HRS): 3.5

SUMMARY:

The SET/FIELD is Level basin system with ports and supplied by a district irrigation turnout. The soil type is a Sandy Clay Loam with (AWHC) of 1.8, Desired irrigation application was 4-6 ", irrigation needs are 4.8" SET/FIELD size is 8.6 ac with 12 CFS applied for 3.75hrsresulting in 5.2 "...with an efficiency of 92 %. The irrigator was present to make any changes needed. The Goal was met.. great Job.... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

EVAL #: 2023-014

DATE: 7/27/23

CROP TYPE: COTTON

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: NEAR LEVEL BASIN

FIELD INFO

SOIL TYPE: CLAY LOAM

CFS: 11

SET/FIELD ACRES: 10.8

SET/FIELD TIME (HRS): 5.25

SUMMARY:

The SET/FIELD is Near Level basin system with ports and supplied by a district irrigation turnout. The soil type is a Clay Loam with (AWHC) of 2.4," , Irrigation needs are 4.6" SET/FIELD size is 10.8 ac with 11 CFS applied for 5.25 hrsresulting in 5.3 "...with an efficiency of 86 %. The irrigator was present to make any changes needed. Because the field was laser touched up in between crops the irrigation was very uniform Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

Evaluation # : Turf 2023-002

Crop : Bermuda

Turf farm

Rainbird sprinklers

20 catch cans at 20 ' spacing ,
400' line

Catch can #1	40 ml
Catch can #2	42 ml
Catch can #3	41ml
Catch can #4	39 ml
Catch can #5	40 ml
Catch can #6	42 ml
Catch can #7	41 ml
Catch can #8	42 ml
Catch can #9	43 ml
Catch can #10	48 ml
Catch can #11	41 ml
Catch can #12	46ml
Catch can #13	41ml
Catch can #14	48ml
Catch can #15	40 ml
Catch can #16	42ml
Catch can #17	42 ml
Catch can #18	41 ml
Catch can #19	40 ml
Catch can #20	52ml

SUMMARY :

The field is at a turf farm.... We were looking for uniform irrigation..... we ran system for 4mins and identified any clog sprinkler heads , 3 found and clean or replaced. The system was then run for 12 mins and the results showed a uniform irrigation.....

Evaluation # : Turf 2023-003

Crop : Bermuda

Turf farm

Rainbird sprinklers

18 catch cans at 20' spacing ,

Catch can #1	40 ml
Catch can #2	42 ml
Catch can #3	41ml
Catch can #4	39 ml
Catch can #5	40 ml
Catch can #6	42 ml
Catch can #7	41 ml
Catch can #8	42 ml
Catch can #9	43 ml
Catch can #10	48 ml
Catch can #11	41 ml
Catch can #12	42ml
Catch can #13	41ml
Catch can #14	48ml
Catch can #15	40 ml
Catch can #16	42ml
Catch can #17	42 ml
Catch can #18	41 ml

SUMMARY :

The field is at a turf farm.... We were looking for uniform irrigation..... we ran system for 5 mins and identified any clog sprinkler heads , clean or replaced. The system was then run for 10 mins and the results showed a uniform irrigation.....

EVAL #: 2023 -015
DATE: 8/14/23
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO

SOIL TYPE: SILTY CLAY LOAM
CFS: 12
SET ACRES: 6.5
SET TIME (HRS): 3.5
FIELD ACRES: 13.1
FIELD TIME (HRS): 18

SUMMARY :

The field is a level basin system with highflow gates and supplied by a district irrigation turnout. The soil type is a silty clay loam with (AWHC) of 2.2 , Irrigation needs are 4.2". Set size is 6.5 ac with 12 CFS applied 3 hrsresulting in 5.5".... Field size is 13.1 ac with a time of 5.75 hours therefore applying 5.2" with an efficiency of 80 % .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

EVAL #: 2023 -016
DATE: 9/7/23
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO

SOIL TYPE: CLAY LOAM
CFS: 5.5
SET ACRES: 1.8
SET TIME (HRS): 2
FIELD ACRES: 8
FIELD TIME (HRS): 9

SUMMARY :

The field is a level basin system with 2 ports per border and supplied by a district irrigation turnout. The soil type is a clay loam with (AWHC) of 2.4 , Irrigation needs are 5.8". Set size is 1.8 ac with 5.5 CFS applied 2 hrsresulting in 6.12".... Field size is 8 ac with a time of 9 hours therefore applying 6.2" with an efficiency of 93 %. A uniform application was achieved . Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

Turf Evaluation # : Turf 2023-003

Crop : Bermuda

Turf farm

Lateral sprinkler

SPAN#1

Catch can #1	29 ml
Catch can #2	28 ml
Catch can #3	29ml
Catch can #4	29 ml
Catch can #5	31 ml
Catch can #6	29 ml
Catch can #7	28 ml
Catch can #8	31 ml
Catch can #9	28 ml
Catch can #10	29 ml
Catch can #11	25 ml

SPAN#2

Catch can #12	28ml
Catch can #13	29ml
Catch can #14	30ml
Catch can #15	30 ml
Catch can #16	32ml
Catch can #17	32 ml
Catch can #18	30 ml
Catch can #19	30 ml
Catch can #20	20ml
Catch can #21	32 ml
Catch can #22	32 ml
Catch can #23	31ml
Catch can #24	30 ml
Catch can #25	30 ml
Catch can #26	30 ml
Catch can #27	30 ml
Catch can #28	32 ml

SUMMARY : *This system was previously test and had nozzle issues (clogs) . A new nozzle package was installed and we were checking for uniformity. System worked great*

Turf Evaluation # : Turf 2023-004

Crop : Bermuda

Local dog park

20 catch cans at 12' spacing ,

Line #A

Catch can #1	32 ml
Catch can #2	33 ml
Catch can #3	38ml
Catch can #4	39 ml
Catch can #5	37 ml
Catch can #6	42 ml
Catch can #7	41 ml
Catch can #8	38 ml
Catch can #9	38 ml
Catch can #10	40 ml

Line #B

Catch can #11	29 ml
Catch can #12	36ml
Catch can #13	31ml
Catch can #14	36ml
Catch can #15	37 ml
Catch can #16	42ml
Catch can #17	39 ml
Catch can #18	41 ml
Catch can #19	33 ml
Catch can #20	36ml

SUMMARY : System was run for 5 mins and identifying any obvious issuesSprinkler heads with issues were replaced and/or adjusted. The system was then run for 10 mins and the results showed a uniform irrigation.....

EVAL #: 2023 -017

DATE: 10/11/23

CROP TYPE: ALFALFA

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO

SOIL TYPE: CLAY LOAM

CFS: 6

SET ACRES: 3.1

SET TIME (HRS): 3.5

FIELD ACRES: 23.8

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 clay loam with (AWHC) of 2.0 , Irrigation needs are 5.3". Set size is 3.1 ac with 6 CFS applied 3.5 hrsresulting in 6.7".... Field size is 23.8 ac with a time of 24 hours therefore applying 6" with an efficiency of 88 %.. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

EVAL #: 2023 -018

DATE: 10/26/23

CROP TYPE: ALFALFA

WATER SOURCE: DISTRICT TURNOUT

IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO

SOIL TYPE: SANDY LOAM

CFS: 10

SET ACRES: 6.2

SET TIME (HRS): 3

FIELD ACRES: 12.2

FIELD TIME (HRS): 6.25

SUMMARY :

The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is a sandy loam with (AWHC) of 2.0 , Irrigation needs are 4.6". Set size is 6.2 ac with 10 CFS applied 3 hrsresulting in 4.8".... Field size is 12.2 ac with a time of 6.25 hours therefore applying 5.1" with an efficiency of 90 %.. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

EVAL #: 2023 -019
DATE: 10/24/23
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

FIELD INFO

SOIL TYPE: CLAY LOAM
CFS: 7.5
SET ACRES:3.2
SET TIME (HRS): 2.25
FIELD ACRES: 7.7
FIELD TIME (HRS): 5

SUMMARY :

The field is a level basin system with ports and supplied by a district irrigation turnout. The soil type is a clay loam with (AWHC) of 2.2 , Irrigation needs are 4.4". Set size is 3.2ac with 7.5 CFS applied 2.25hrsresulting in 5.25".... Field size is 7.7ac with a time of 5 hours therefore applying 4.8" with an efficiency of 91%. .. A uniform irrigation application was achieved Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.

EVAL : # 2023-020
DATE: 10/15/23
CROP TYPE : ALFALFA
WATER SOURCE : DISTRICT TURNOUT
IRRIGATION SYSTEM : LEVEL BASIN

FIELD INFO

SOIL TYPE : SANDY CLAY LOAM
CFS : 10
SET ACRES : 5.8
SET TIME (HRS) : 2.75

FLD ACRES : 22
FLD TIME (HRS) : 12

SUMMARY :

The field is a level basin system, supplied by a district irrigation turnout. The soil type is a Sandy clay loam with (AWHC) of 1.8 , needs are 4.7". Set size is 5.8 ac with 10 CFS applied for 2.75 hoursresulting in 4.7".... Field size is 22 ac with a time of 12 hours therefore applying 5.4" with an efficiency of 87 %. Irrigator was present making adjustments as needed, ditch was filled to capacity, set furrow check . Strategies for upcoming irrigations include : monitor soil moisture levels which will dictate the timing of irrigation

