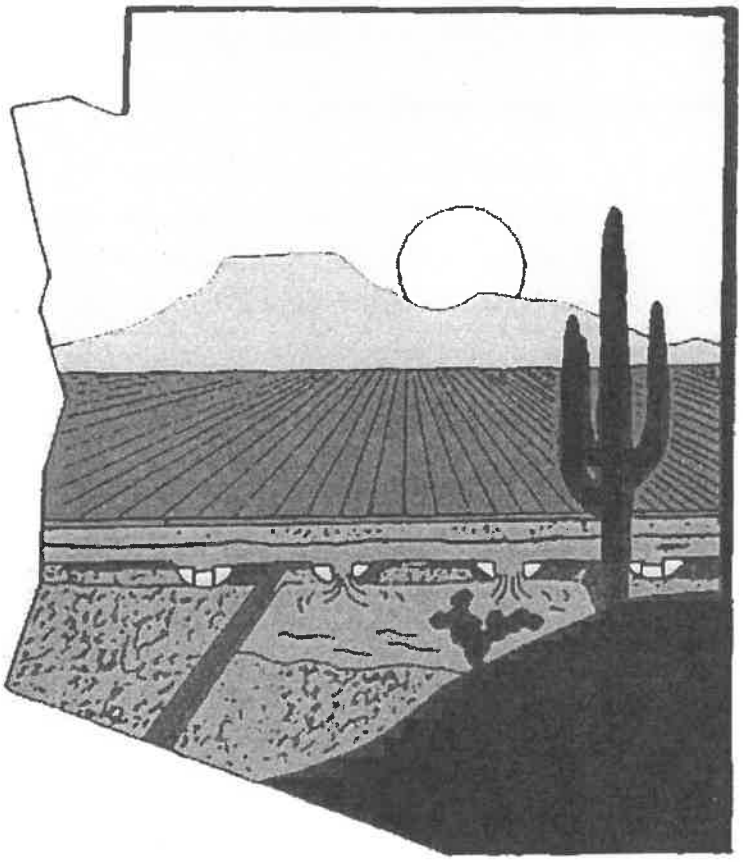
# *Irrigation Management Service*

# *2025 FINAL REPORT*

***OCT 2025 – DEC 2025***



**520 N. Camino Mercado– Suite 2F**
**Casa Grande, Arizona**
**Telephone (520) 635-2430**

*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 : 2025-3204IGA**

# Table of Contents




*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 : 2025-3204IGA**

## Program Highlights the 2025 crop year

- IMS CONDUCTED 14 STANDARD EVALUATIONS
- IMS CONDUCTED 6 SEASONAL EVALUATIONS
- IMS CONDUCTED 4 TURF SEASONAL EVALUATIONS
- IMS HELD 4 COOPERATOR WORKSHOP
  -ASSIST WITH ANNUAL WATER REPORT (SCHEDULE BMP FORM)
  -REVIEW LAST YEARS CROP SEASON AND VERIFICATION INFO
  -UPDATE ANY CHANGES ON LEASES ON BMP FARMS
  -GO OVER UPCOMING CROP YEAR – PLANNED CROPS

  MARICOPA-STANFIELD IRRIGATION DISTRICT, MARICOPA, AZ
  SAN CARLOS IRRIGATION DISTRICT, COOLIDGE, AZ
  CENTRAL ARIZONA IRRIGATION DISTRICT , ELOY , AZ
  NRCD OFFICE, CASA GRANDE, AZ

  MET ASSISTED 62 BMP FARMS
- ATTENDED 2 COTTON FIELD DAYS
- DID A PRESENTATION AT GUAC MEETING FOR FUNDING 2026
- VISITED FARMERS THRU OUT THE YEAR VERFIYING BMP PRACTICES, DISCUSSED CROPS, SOILS , WATER USE AND CROP PRICES.
- ATTENDED VARIOUS WATER MEETING DURING THE YEAR
- ATTENDED AACD SUMMER MEETINGS
- ATTENDED AND PARTICIPATED IN AGRI BUSINESS COUNCIL H2O GOLF TOURNAMENT (WEST PINAL NRCD SPONSORED)
- MET WITH CITY OF MARICOPA , DISCUSSED WATER ISSUES BOTH FARMLAND AND CITY
- CONTINUED ASSISTING FARMERS WITH EDUCATION ON BMP PROGRAM AND WATER AVAILIBILITY
- ASSISTED NRCS WITH IRRIGATION WATERMANAGEMNT OF EQIP PROJECTS

## Program plans for 2025 crop year

- FOCUS MORE ON THE EDUCATIONAL SIDE OF IMS PROGRAM
  BOTH FIELDWORK , EVALUATIONS AND EDUCATION OF WATER ISSUES

  *ADWR BMP PROGRAM

- WORK CLOSER WITH ADWR , COMMUNICATION AND EDUCATION

- CONTINUE TO WORK CLOSELY WITH PARTNERS IRRIGATION DISTRICTS, NRCD BOARDS, CITIES AND FARMERS/RANCHERS

## BMP Summary

- Met with BMP Cooperators to assist with Annual report , yearly crop planning .

- 180 farms in the BMP program to date

- 80,000 acres in BMP to date

- Collected Verification information

## III. Status of IMS Standard and Season-Long Evaluations

Contract Minimum Requirements (by December 31, 2025):

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

### IMS Season-Long Summary

The IMS Seasonal Educational program purpose is to assist local growers and water users to improve their skills in Irrigation water management of existing irrigation system.

The IMS team came out the farm and gathered information such irrigation delivery source(s), slopes, soils and crops. We did an initial-event irrigation system performance analysis. Recommendations to improve irrigation water management were made and the Information about irrigation event was share with grower along with a discussion of the fundamentals of efficient irrigation water management techniques that will be used on upcoming irrigations.

Over the crop season IMS staff will educate the farmer and field staff on the irrigator's formula, irrigation scheduling methods, crop CU curves, water measurement methods, and how to analyze irrigation system performance. Follow-up visits periodically through the growing season to systematically present this educational program aimed at improving the grower's water management skill.

This seasonal farms had previously been threw the IMS educational prior to conservation and conveyance systems enhancements. (Land Leveling, new ditches, ports or planting on flat instead of furrows). New system equals different techniques to be efficient.

The Irrigation Management service goal is to help the farmer fine tune their irrigation scheduling, Whether it's shifting irrigation a day or 2 depending on plant water needs. When you add all those days up in a season it reduces the cost and " inches" of water used without depriving the crop of water needs.

This year's water savings were minimal on cotton crops due to Arizona long hot summer weather. An extra irrigation that would been savings was apply to finish off the crop (had to keep crop cool so stress wouldn't affect yield).

| | |
|---|---|
| Total Cotton acres affected in seasonal evaluations | 1060 acres average 1.75" per acre savings = 155 acre feet |
| Total Alfalfa acres affected in seasonal evaluations | 1250 acres average 1.25" per acre savings= 131 acre feet |

IMS has estimated that over the years that 50 percent of current farms have been through the IMS Educational Program.

# List of IMS Cooperators

Henness Farms
Ramsey Echeverria
Marvin Wuertz
Deanna Diwan
Diwan Ranches INC*
LKH Farming
M&G Farm
CMK Harvesting
B&J Farms
John Donnelly Farms
John Walker*
John Foster Turf*
Douglas Gladden
Robert Boyle
Bruce Bartlett*
Tierra Verde Farms
MFG Farms
Kelly Freeman
Riggins Farms II
Robert Boyle
Tempe Farming
TNT Farms
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
Dairy View Farms
Markwood Enterprises
River Bush Farms I
River Bush Farms II
River Bush Farms III
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*
RLF Desert Farm*
Glen Rogers Farms
R&D Farm Part.
Daniel Nowlin Farms*
Calalina Farms*
SD farms
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
Siebe Hamstra
Mourning Dove

*MULTIFARM COOPERATOR

# IMS EQUIPMENT INVENTORY

IMS INVENTORY – Inventory of Major Equipment

| | Purchase Price |
|---|---|
| 1- 2016 Chevrolet 1500 Extended Cab | 34,995.00 |
| 1-Leitz B2A Auto Level (I.D. 114453) | 725.00 |
| 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 | 800.00 |
| 1- Soil probe open end | 120.00 |
| 1- Soil probe standard | 125.00 |
| TOTAL | $ 42,165.00 |

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

Signed: ..... Date: 12/31/25

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.

## 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 @ $10) | -0- |
| 4. Private Grants and Contributions | -0- |
| 5. NRCS Office space, phone, etc. | 3,000.00 |
| 6. Equipment on loan to IMS | -0- |
| 7. NRCD clerical time | 200.00 |
| 8. Other contributions | 600.00 |
| **CONTRIBUTIONS this qtr** | **$ 16,210.00** |

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 IDDs and UA MAC: 9 hrs x $50/hr for room rental =

## EVALUATIONS

***A Standard Evaluation shall also consist of all of the following:***

*a) An initial-event irrigation system performance analysis.*
*b) Recommendations to improve irrigation water management.*
*c) Information about irrigation scheduling services and techniques.*
*d) A discussion of the fundamentals of efficient irrigation water management techniques with each grower cooperator.*
*e) A follow-up visit to solicit comments from the grower or turf facility cooperator regarding the effectiveness of the services provided by the IMS Program.*

***A Seasonal Evaluation shall also consist of all of the following:***

*All the services provided in a Standard Evaluation.*

*Educate the farmer and field staff on the irrigator's formula, irrigation scheduling methods, crop CU curves, water measurement methods, and how to analyze irrigation system performance.*

*Follow-up visits periodically through the growing season to systematically present this educational program aimed at improving the grower's water management skill.*

## STANDARD EVALS

EVAL #: 2025-001
DATE: 2/05/25
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

SUMMARY: *The field is a level basin system with siphons and supplied by a district irrigation turnout and a split head . The goal is to flash water across the field apply no more than 5" ... The soil type is a Sandy loam with (AWHC) of 1.8 , Irrigation needs are 4.3 ". Set size is 3.09 ac with 4 CFS applied 3.25hrs ....resulting in 5.06"....Field size is 24.89 ac with a time of 28 hrs therefore applying 5.4" with an efficiency of 79.6 %. ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-002
DATE: 2/26/25
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

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 5" ... The soil type is a Sandy Clay loam with (AWHC) of 1.8 , Irrigation needs are 4.2 ". Set size is 3.8 ac with 8CFS applied 2.25 hrs ....resulting in 4.73"..... Field size is 18.37 ac with a time of 10.5 hours therefore applying 4.57" with an efficiency of 91.9 %. ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-003
DATE: 3/11/25
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: NEAR LEVEL BASIN

SUMMARY: *The field is a Near level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field apply no more than 5" ... The soil type is a Silty Sandy loam with (AWHC) of 2.0 , Irrigation goals are 4-5". Set size is 7.54 ac with 7CFS applied 5 hrs ....resulting in 4.64"..... Field size is 35.28 ac with a time of 22 hrs applying an average of 4.36" across the field with an efficiency of 91.6% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-004
DATE: 4/08/25
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field apply no more than 5" ... The soil type is a SANDY CLAY loam with (AWHC) of 1.8 . Set size is 6.3 ac with 8CFS applied 3.5 hrs ....resulting in 4.5"..... Field size is 79.29 ac with a time of 45.5 hrs applying an average of 4.36" across the field with an efficiency of 87.1% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-005
DATE: 4/21/25
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: NEAR LEVEL BASIN

SUMMARY: *The field is a Near level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field apply no more than 6" ... The soil type is a Sandy Clay loam with (AWHC) of 1.8 ,". Set size is 9.37 ac with 10CFS applied 4.5 hrs ....resulting in 4.8"..... Field size is 28.1 ac with a time of 12.5hrs applying an average of 4.45" across the field with an efficiency of 94.4% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-006
DATE: 5/06/25
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: NEAR LEVEL BASIN

SUMMARY: *The field is a Near level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field apply no more than 6" ... The soil type is aSandy loam with (AWHC) of 2.0 , Set size is 5.74 ac with 8CFS applied 4 hrs ....resulting in 5.5".... Field size is 22.96 ac with a time of 16 hrs applying an average of 5.6" across the field with an efficiency of 85.2% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-007
DATE: 5/04/25
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: NEAR LEVEL BASIN

SUMMARY: *The field is a Near level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field with uniform application ... The soil type is a Fine Sandy loam with (AWHC) of 1.8 , Irrigation goals are 4-5". Set size is 5.82ac with 8CFS applied 3 hrs ....resulting in 4.1"..... Field size is 38 ac with a time of 21.50 hrs applying an average of 4.5" across the field with an efficiency of 88.2% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-008
DATE: 5/16/25
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: NEAR LEVEL BASIN

SUMMARY: *The field is a Near level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field with uniform application ... The soil type is a Sandy Clay loam with (AWHC) of 1.8, Irrigation goals are les than 5". Set/field size is 11.75 ac with 12CFS applied 4.75 hrs ....resulting in 4.9"....across the field with an efficiency of 86.6% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-009
DATE: 6/01/25
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: NEAR LEVEL BASIN

SUMMARY: *The field is a Near level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field apply no more than 4" ... The soil type is a Sandy Clay loam with (AWHC) of 2.0 , Set size is 5.7 ac with 8CFS applied 3.1 hrs ....resulting in 4.3"..... Field size is 38 ac with a time of 20 hrs applying an average of 4.2" across the field with an efficiency of 95.1% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-010
DATE: 7/08/25
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field apply no more than 5" ... The soil type is a SandY loam with (AWHC) of 2.1 , Set size is 4.59 ac with 7.5CFS applied 2.75 hrs ....resulting in 4.5"..... Field size is 28 ac with a time of 19 hrs applying an average of 5" across the field 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 #: 2025-011
DATE: 7/18/25
CROP TYPE: COTTON
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: NEAR LEVEL BASIN

SUMMARY: *The field is a Near level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field applying 4-5" ... The soil type is a Clay loam with (AWHC) of 2.4 , Set/field size is 11.61 ac with 9CFS applied 6.25 hrs ....resulting in 4.8"....with an efficiency of 86.7% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-012
DATE: 9/17/25
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: NEAR LEVEL BASIN

SUMMARY: *The field is a Near level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field apply no more than 4" ... The soil type is a Clay loam with (AWHC) of 2.4 , Set size is 3.9 ac with 5.5 CFS applied 3.1 hrs ....resulting in 3.8 ".... Field size is 24.6 ac with a time of 17.75 hrs applying an average of 3.9" across the field with an efficiency of 90.1% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

EVAL #: 2025-013
DATE: 9/10/25
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field applying 3.5/4.5" ... The soil type is a Clay loam with (AWHC) of 2.4 ,*
*Set size is 5.6 ac with 5.5 CFS applied 4hrs ....resulting in 3.8"..... Field size is 28 ac with a time of 19.5 hrs applying an average of 3.7" across the field 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 #: 2025-014**
DATE: 11/15/25
CROP TYPE: ALFALFA
WATER SOURCE: DISTRICT TURNOUT
IRRIGATION SYSTEM: LEVEL BASIN

SUMMARY: *The field is a level basin system with ports and supplied by a district irrigation . The goal is to flash water across the field applying 5" ... The soil type is a Sandy Clay loam with (AWHC) of 1.8 , Set size is 4.4 ac with 6.5 CFS applied 3.75hrs ....resulting in 5.5".... Field size is 30 ac with a time of 23.5 hrs applying an average of 5.1" across the field with an efficiency of 97% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

# Irrigation Evaluation Summary Sheet

#: 2025-014

**Irrigation Goal:** Fill Rootzone

FIELD INFORMATION:

| | | | | | |
|---|---|---|---|---|---|
| | | | | Date: | 11/15/25 |
| Length(ft): | 850 | Width(ft): | 1525 | Set Width(ft): | 226 |
| Field size(ac): | 29.76 | Set Area(ac): | 4.41 | Crop ID #: | Alfalfa |
| Grade(ft/100ft): | 0.00 | Side Grade: | 0.00 | Field ID #: | 16 |

WATER SOURCE:

| | | | | | |
|---|---|---|---|---|---|
| Supply Source: | District turnout | $ per acre foot | | Salinity(ppm): (estimate) | N/A |

SOILS INFORMATION:

Primary Soil Series: Sandy Clay  Texture: Sandy Loam

| | |
|---|---|
| Average AWHC*** for a 4 foot root zone: | 7.20 inches |
| Leaching Needs: | 0.00 inches |
| Average Amount to Refill Root Zone: | 3.80 inches |
| Total Amount Needed: | 3.80 inches |

Other Soil Info:

IRRIGATION INFORMATION:

Irrigation system: ON FLAT  Furrows per set: 1

Flow Rate: 6.50 CFS

(measured)

| | |
|---|---|
| 6.50 | CFS |
| 2925 | Gallons per Minute |
| 2925 | Gallons per Minute per border |

| | | | | | |
|---|---|---|---|---|---|
| Set Time, hours: | 3.75 | Total Depth Applied : | 3.85 inches | Runoff(initial)*: | 0.0% |
| Field Time, hours: | 23.50 | Avg Depth Applied (fld): | 4.02 inches | | |
| Net Applied (amount infiltrated): | | (Total Depth Applied - Amount of Runoff): | 4.02 inches | Runoff(avail)**: | 0.0% |

*Initial runoff is tailwater measured leaving the field.
**Available runoff assumes a 15% loss, due to seepage and evaporation, from the initial amount.
***AWHC - Available Water Holding Capacity
****Water Beneficially Used = Total Amount Needed + Assumed Reused Runoff

RESULTS:

Field Application Efficiency(FAE) = Total Amount Needed / Net Applied (field)

**FAE = 94.5%**

Irrigation Efficiency(IE): = Water Beneficially Used**** / Net Applied

**IE = 98.8%**

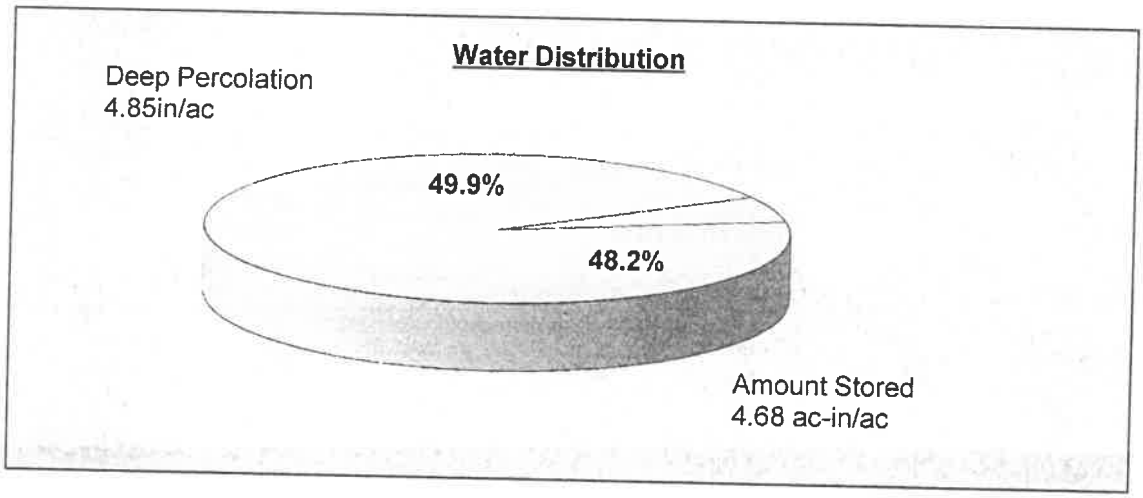
Was irrigation goal achieved? **yes**

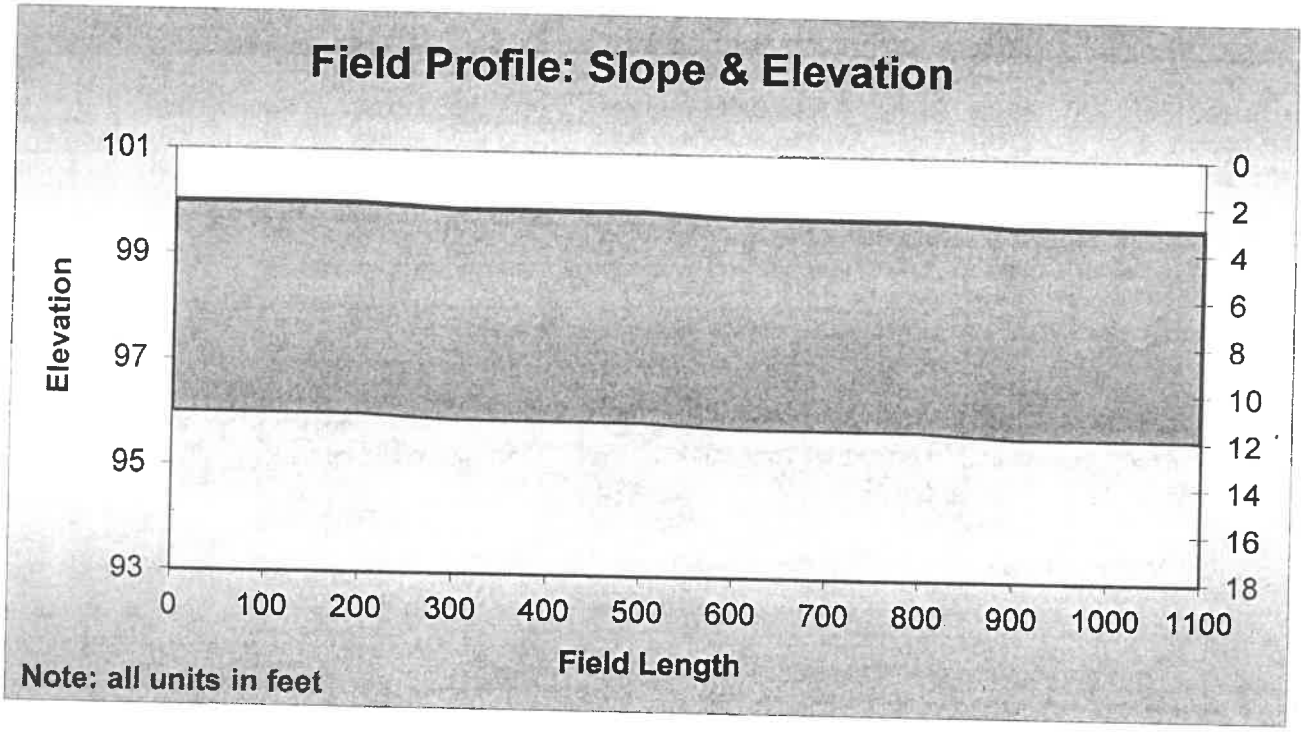
Water Conservation Management Program

# Irrigation Evaluation Summary Sheet

WATER DISTRIBUTION

| Water Used: | Depth (in.) |
|---|---|
| Amount Applied | 4.02 |
| Runoff Amount (initial) | 0.00 |
| Runoff Amount (avail.) | 0.00 |
| Deep Percolation | 0.22 |
| Amount Stored (root zone) | 3.80 |




**Targeted depth of penetration:** 4' **Was this targeted depth met?:** Yes

**EVAL #: TURF 2025-001**
DATE: 10/10/25
CROP TYPE: BERMUDA GRASS
WATER SOURCE: WELL
IRRIGATION SYSTEM: SPRINKLERS

**DOG PARK**

**15 FT SPACING**

| | | | | |
|---|---|---|---|---|
| **ROW A** | **1** | **2** | **3** | **4** |
| **ROW B** | **5** | **6** | **7** | **8** |
| **ROW C** | **9** | **10** | **11** | **12** |
| **ROW D** | **13** | **14** | **15** | **16** |
| **ROW E** | **17** | **18** | **19** | **20** |

| | | |
|---|---|---|
| **ROW A** | **Average = 78** | **ml** |
| **ROW B** | **Average = 82** | **ml** |
| **ROW C** | **Average = 76** | **ml** |
| **ROW D** | **Average = 82** | **ml** |
| **ROW D** | **Average = 80** | **ml** |

**COMMENTS**: *RAN SYSTEM TEST FOR 5 MINS TO LOOK FOR ANY MAJOR REPAIRS...*

*RAN SYSTEM FOR 10 MINS , MADE NOTE ON FOLLOWING SPRINKLERS..*

*#5 ,16 NEED ADJUSTING TO SPRAY PATTERN...*

*#4 NEED ADJUSTING TO SPRAY PATTERN OR REPLACED TO BE 90 DEGREES ...*

**Recommendations:** *BECAUSE THE SPRINKLER RUN AT NIGHT IT IS IMPORTANT TO DO A TEST RUN FROM TIME TO TIME .....ITS BEST TO CHECK RIGHT AFTER CUTTING GRASS....*

**EVAL #: TURF 2025-002**
DATE: 10/17/25
CROP TYPE: BERMUDA GRASS
WATER SOURCE: RESIDENTAL WATER CO
IRRIGATION SYSTEM: SPRINKLERS

*LOCAL PARK*

**12 FT SPACING ON SPRINKLERS**

| | |
|---|---|
| **CUP 1-8** | **Average = . 72 "** |
| **CUP 9-16** | **Average = . 68 "** |
| **CUP 17-24** | **Average = . 68 "** |
| **CUP 24-31** | **Average = . 69 "** |
| **CUP 32-39** | **Average = . 74 "** |
| **CUP 40-47** | **Average = . 72 "** |
| **CUP 48-55** | **Average = . 70 "** |
| **CUP 56-63** | **Average = . 73 "** |
| **CUP 64-71** | **Average = . 68 "** |
| **CUP 72-80** | **Average = . 79 "** |

**COMMENTS**: *THIS SPRINKLER SYSTEM GOT A NEW NOZZLE PACKAGE .... IRRIGATION WAS UNIFORM ....SYSTEM RAN GREAT !*

**EVAL #: TURF 2025-003**
DATE: 10/20/25
CROP TYPE: BERMUDA GRASS PASTURE
WATER SOURCE: WELL
IRRIGATION SYSTEM: SURFACE IRRIGATION PORT

SUMMARY: *The field is a Near level basin system with 1 ports and community well . The goal is to flash water across the field applying nomore 3-4." ... The soil type is a Clay loam with (AWHC) of 2.4 , field size is 1.5 ac with 2.2 CFS applied 2hrs ....resulting in 2.9" across the field 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 #: TURF 2025-004**
DATE: 11/05/25
CROP TYPE: BERMUDA GRASS PASTURE
WATER SOURCE: WELL
IRRIGATION SYSTEM: SURFACE IRRIGATION

SUMMARY: *The field is a level basin system with 4 alfalfa risers and well delivery . The goal is to flash water across the field applying 4." ... The soil type is a Sandy Clay loam with (AWHC) of 1.8 , field size is 2.8 ac with 4.5 CFS applied 3hrs ....resulting in 4.8" across the field with an efficiency of 83% ... A uniform irrigation application was achieved ..... Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

2025

**SEASONAL 2025-01**

**TOTAL ACRES:** 120
**IRRIGATION SYS:** SURFACE
**8.5CFS**

---

**FIELD 1**

**ACRES 10.1**

***COTTON***

| | ***MAY*** | ***JUNE*** | ***JULY*** | ***AUGUST*** | ***SEPT*** | | |
|---|---|---|---|---|---|---|---|
| ***" Applied*** | 10 | 10.6 | 12.2 | 11.5 | 4.5 | 48.8 | inches |

***IRRIGATION # 4 - 6/17***
**DISTRICT TURNOUT 8.5 CFS**

**SET TIME 3.5 HRS**
**SET SIZE = 5 ACRES**
**SET APPLIED = 6"**

**FIELD TIME 6.75 HRS**
**FIELD SIZE =10.1 ACRES**
**FIELD APPLIED = 5.6"**

***Evaluation :***

*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 filling up the soil profile ...The soil type is a Clay loam with (AWHC) of 2.4*
*Irrigation needs are 5.2 ". Set size is 5 ac with 8.5 CFS applied 3.5 hrs 6" applied, Field size is 10.1 ac applied 6.75hrs*
*....resulting in 5.6" the field with an efficiency of 92% ... A uniform irrigation application was achieved*
*Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

***Seasonal :***

*The total water applied on this cotton crop was 48.8"*
*The goal on this crop was to be around 48" (4acre ft)*
*Adjustments were made thoughout the season whether*
*it was irrigation sooner or later. It was a hot summer.*
*Water savings was estimated at 2" per acre.*

2025

SEASONAL 2025-02

TOTAL ACRES: 68
IRRIGATION SYS: SURFACE
10.5 CFS

**Field: 4a**

**ACRES 11.3**

**ALFALFA CROP**

| | DEC | JAN | FEB | MARCH | APRIL | MAY | JUNE | JULY | AUG | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| " *Applied* | 7 | 4.5 | 7 | 7.25 | 7.6 | 8.5 | 8.5 | 10 | 9.4 | 69.75 | inches |

***IRRIGATION # 6 - 5/28***
**DISTRICT TURNOUT 10.5 CFS**

**SET/FIELD TIME 4 HRS**
**SET/FIELD SIZE = 11.3 ACRES**
**SET/FIELD APPLIED = 3.7"**

-29-

***Evaluation :*** *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 filling up the soil profile ...The soil type is a Sandy loam with (AWHC) of 2.0*
*Irrigation goals are 4 ". Set/field size is 11.3 ac with 10.5 CFS applied 4 hrs 3.7" applied...*
*....the field with an efficiency of 92% ... A uniform irrigation application was achieved*
*Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

***Seasonal :*** *The total water applied on this cotton crop was 69.75"*
*The goal on this crop was to get a good stand first year crop...*
*Adjustments were made thoughout the season whether*
*it was irrigation sooner or later. It was a hot summer.*
*Water savings was estimated at 3" per acre.*

2025

SEASONAL 2025-03

TOTAL ACRES: 46
IRRIGATION SYS: SURFACE
7 CFS

**FIELD 2B**

**ACRES 11.5**

**COTTON**

| | APRIL | MAY | JUNE | JULY | AUG | SEPT | | |
|---|---|---|---|---|---|---|---|---|
| " Applied | 6 | 5 | 12.2 | 11.5 | 9.5 | 5 | 49.2 | inches |

*IRRIGATION # 3 - 6/4*
DISTRICT TURNOUT 7 CFS

SET TIME 4 HRS
SET SIZE = 5.7 ACRES
SET APPLIED = 4.9"

FIELD TIME = 9.2HRS
FIELD SIZE =11.2 ACRES
FIELD APPLIED = 5.3"

-30-

**Evaluation :**

*The field is a Near level basin system with ports and supplied by a district irrigation turnout .*
*The goal is to flash water across the field filling up the soil profile ...The soil type is a silty Clay loam with (AWHC) of 2.2*
*Irrigation needs are 4.4 ". Set size is 5.7 ac with 7 CFS applied 4 hrs 4.9" applied, Field size is 11.5 ac applied 9.2hrs*
*....resulting in 5.3" the field with an efficiency of 84% ... A uniform irrigation application was achieved*
*Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

**Seasonal :**

*The total water applied on this cotton crop was 49.2"*
*The goal on this crop was to be around 54" (4.5 acre ft)*
*Adjustments were made thoughout the season whether*
*it was irrigation sooner or later. It was a hot summer.*
*Water savings was estimated at 3" per acre.*

2025

**SEASONAL 2025-04**

**TOTAL ACRES:** 180
**IRRIGATION SYS:** SURFACE
**12 CFS**

**Field: 4F**

**ACRES 11.3**

**ALFALFA CROP**

| | JAN | FEB | MARCH | APRIL | MAY | JUNE | JULY | AUG | TOTAL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| " *Applied* | 7 | 8 | 8.5 | 7 | 9 | 10 | 10.5 | 11.2 | 71.2 | inches | inches |

*IRRIGATION # 9 - 5/22*
DISTRICT TURNOUT 12 CFS

SET/FIELD TIME 5.2 HRS
SET/FIELD SIZE = 11.3 ACRES
SET/FIELD APPLIED = 5.5"



***Evaluation :*** *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 filling up the soil profile ...The soil type is a clay loam with (AWHC) of 2.4*
*Irrigation goals are 5 "or less . Set/field size is 11.3 ac with 12 CFS applied 5.2 hrs 5.5" applied...*
*....the field 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.*

***Seasonal :*** *The total water applied on this cotton crop was 71.2"*
*The goal on this crop was to have high efficency throughout the year (5.9 acre ft )*
*Adjustments were made thoughout the season whether*
*it was irrigation sooner or later. It was a hot summer.*
*Water savings was estimated at 1.5 " per acre.*

2025

SEASONAL 2025-05

TOTAL ACRES: 400
IRRIGATION SYS: SURFACE
8 CFS

**Field: D2**

**ACRES 24**

**COTTON CROP**

| | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPT | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|
| " Applied | 7 | 3.5 | 8.5 | 9.5 | 11 | 10.5 | 5.5 | 55.5 | inches |

*IRRIGATION # 4 - 5/22*
DISTRICT TURNOUT 8 CFS

SET/FIELD TIME 5 HRS
SET/FIELD SIZE = 7.3 ACRES
SET/FIELD APPLIED = 5.4"



**Evaluation :** *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 filling up the soil profile ...The soil type is a Sandy clay loam with (AWHC) of 1.8*
*Irrigation goals are 6 ". Set/Field size is 7.3 ac with 8 CFS applied 4 hrs 5.4" applied...*
*....the field 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.*

**Seasonal :** *The total water applied on this cotton crop was 55.5"*
*The goal on this crop was to be around 54" (4.5 acre ft)*
*Adjustments were made thoughout the season whether*
*it was irrigation sooner or later. It was a hot summer had put on an extra irrigation.*
*Therefore Water savings was estimated at 0 " but irrigation efficency was great throughout the season.*

2025

SEASONAL 2025-06

TOTAL ACRES: 80
IRRIGATION SYS: SURFACE
11.25 CFS

**Field: 8C**

**ACRES 10.2**

**ALFALFA CROP**

| | JAN | FEB | MARCH | APRIL | MAY | JUNE | JULY | AUG | SEPT | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| " Applied | 6 | 4 | 3.5 | 7.5 | 8 | 9 | 9.5 | 9.4 | 8.5 | 65.4 | inches |

*IRRIGATION # 3 - 3/26*
DISTRICT TURNOUT 11.25 CFS

SET/FIELD TIME 3 HRS
SET/FIELD SIZE = 10.2 ACRES
SET/FIELD APPLIED = 3.3"



**Evaluation :** *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 filling up the soil profile ...The soil type is a loam with (AWHC) of 2.1*
*Irrigation goals are 4 ". Set/field size is 10.2 ac with 11.25 CFS applied 3 hrs 3.3" applied...*
*....the field with an efficiency of 92% ... A uniform irrigation application was achieved*
*Strategy for upcoming irrigations include monitor soil moisture levels which will dictate the timing of irrigation.*

**Seasonal :** *The total water applied on this cotton crop was 64.4"*
*The goal on this crop was to use less than 8" per cutting (9 cutting average 7.1" 5.36 acre ft )*
*Adjustments were made thoughout the season whether*
*it was irrigation sooner or later. It was a hot summer.*
*Water savings was estimated at 1.5" -2" per acre.*

## SERVICES YEAR 2025

*WENT OUT AND VERIFIED BMP PRACTICES* *175 BMP farms)*

- *Irrigation Water Practices applied and Crop residue management*
  *cutting of stalks, ripping, discing , landplaning, Land leveling soils and planting*

- *Other practices view (Crop rotation , Soil Moisture Monitoring , Measuring water flow rates, soil water quality testing and mulching)*

*7 STANDARD EVALUATION VOIDED*

- *Evaluations voided due to weather or water delivery flow change in the middle of evaluation.*

*WILL CONTINUE TO ASSIST COOPERATORS WITH NEW BMP 5MP APPLICATIONS*

## Cooperators (IMS SIGNS)

HARO FARMS
DAVIS FARMS
BARTLETT BARLETT
DIWAN RANCHES
CITY OF ELOY
CITY OF MARICOPA
CITY OF CASA GRANDE
KEELING FARMS
BJ FARMS
HARTMAN RANCH
MARTIN FARMS

**IRRIGATION MANAGEMENT SERVICE**
**2025 BUDGET**

**Revenue**

| | |
|---|---|
| ADWR REVENUE | 135,000.00 |

| OPERATING EXPENSES | | ADWR FUNDS |
|---|---|---|
| SALARIES | | |
| Team Leader | 47,250.00 | 47,250.00 |
| Ag Asst. #1 | 28,500.00 | 28,500.00 |
| Clerical Support | 14,500.00 | 14,500.00 |
| ERE - FICA, DES, etc. | 8,500.00 | 8,500.00 |
| ERE - Medical | 18,785.00 | 9,550.00 |
| ERE - Retirement | 9,000.00 | 9,000.00 |
| PROFESSIONAL SERVICES | | |
| Accounting & Legal | 6,000.00 | 6,000.00 |
| Program supervision | | |
| HEADQUARTERS: | | |
| Office Space | 4,800.00 | |
| Utilities | 1,500.00 | |
| Phone /Copy machine | 500.00 | |
| VEHICLE EXPENSES | | |
| License, Registration, Insurance | 3,000.00 | |
| Gas | 3,600.00 | 3,600.00 |
| Routine O & M | 1,000.00 | 1,000.00 |
| Vehicle Repair | 1,000.00 | 1,000.00 |
| EQUIPMENT AND TOOLS | 1,000.00 | 1,000.00 |
| Mobile phone | 1,900.00 | 1,900.00 |
| EDUCATIONAL SERVICES | | |
| BMP Grower Mtg / Workshop Expense | 1,200.00 | 1,200.00 |
| EDUCATIONAL SUPPLIES | 500.00 | 500.00 |
| Supplies - General Office | 700.00 | 700.00 |
| General Computer Supplies | 800.00 | 800.00 |
| | **154,035.00** | **135,000.00** |

This Farm Practices Water Conservation And Cooperates With The:

# IRRIGATION MANAGEMENT SERVICE (IMS)

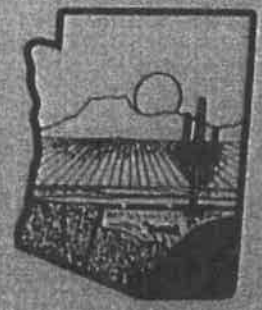
Sponsored By:

Eloy, Florence – Coolidge, West Pinal NRCDs

Az. Department of Water Resources

USDA Natural Resource Conservation Service

USDI Bureau of Reclamation



# BEST MANAGEMENT PRACTICES (BMP) PROGRAM PARTICIPANT

## Conversions

CFS x Time (hrs) = Acre Inches

**e.g. 8.6 cfs x 5 hrs = 43 ac-in**

Acre Inches ÷ 12 (in) = Acre Feet

**e.g. 43 ac-in ÷ 12 = 3.6 ac-ft**

CFS ÷ Acres = Application rate/hr

**e.g. 8.6 cfs ÷ 6 acres = 1.43"/hr**

CFS x 2 = ac-ft applied in 24 hrs.

**e.g. 8.6 cfs x 2 = 17.2 ac-ft in 24hrs.**

1 cfs flowing 1 hr. = 1 ac-in

1 cfs flowing 12 hrs. = 1 ac-ft

1 ac-ft = 325,872 gallons

1 ac-ft = 43,560 cubic feet

## Discharge of Port Turnouts (CFS)

| Velocity | 3 fps | 5 fps |
|---|---|---|
| 12" dia. | 2.3 | 3.9 |
| 15" dia. | 3.7 | 6.0 |

< 3 fps recommended w/o erosion control

< 5 fps recommended w/ erosion control

## Sharp-Crested Wiers

Must have "air-nap" under water column.

**Clausen Wier Rule**

"A" scale reading x weir crest (in) = flow (mi)

Flow rate (mi) ÷ 40 = flow rate (cfs)

**e.g. 4.8 reading x 30" = 144 mi**

**144 mi ÷ 40 = 3.6 cfs**

Fullerform portable wier crest = 30"

## Ultra Sonic Meter

Flow Rate reading is in tenths of a cfs.

**e.g. a reading of "163" = 16.3 cfs**

Flow Total is in hundredths of an ac-ft.

**e.g. a reading of "24268" = 242.68 ac-ft**

*Hint: read flow total every 12 hrs. Difference in ac-ft is also the average flow rate in cfs for past 12 hrs.*

**e.g. 6:00am reading = 240.5, 6:00pm = 250.6**

**250.5 - 240.5 = 10 ac-ft.**

**Average flow = 10 cfs**

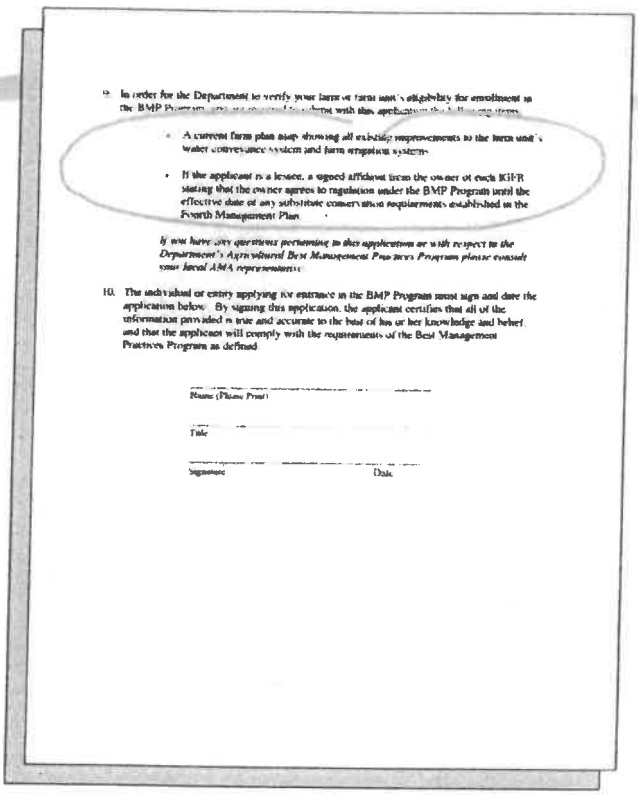
If meter accumulates one ac-ft in one hour, then flow rate is 12 cfs.

This reference was produced by the Central Arizona Water Conservation Management Program and the Irrigation Management Service. These programs are free and confidential irrigation water management services provided by the East Maricopa, Auga Fria-New River, Buckeye-Roosevelt, Flov Florence-Coolidge, and West Pinal Natural Resource Conservation Districts.

This printed information was produced in accordance with a water conservation program which was either partially or entirely funded by the State of Arizona Department of Water Resources Conservation Assistance Fund. This work has been funded in part with Federal financial assistance from the Bureau of Reclamation. This manuscript is submitted for publication with the understanding that the United States Government is authorized to reproduce and distribute reprints for governmental purposes. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

# BMP Application

- Enter all of the IGFR certificate numbers within the farm unit
- The Department will review each IGFR's flex account to determine eligibility
- Enter the BMP Worksheet scores and attach the worksheet to the application
- Submit a current Farm Plan Map with the application
- If leased land, a signed affidavit from the owner is required



- A current farm plan map showing all existing improvements to the farm unit's water conveyance system and farm irrigation system.
- If the applicant is a lessee, a signed affidavit from the owner of each IGFR stating that the owner agrees to regulation under the BMP Program until the effective date of any substitute conservation requirements established in the Fourth Management Plan.

*If you have any questions pertaining to this application or with respect to the Department's Agricultural Best Management Practices Program please consult your local ASA representative.*

10. The individual or entity applying for entrance in the BMP Program must sign and date the application below. By signing this application, the applicant certifies that all of the information provided is true and accurate to the best of his or her knowledge and belief, and that the applicant will comply with the requirements of the Best Management Practices Program as defined.

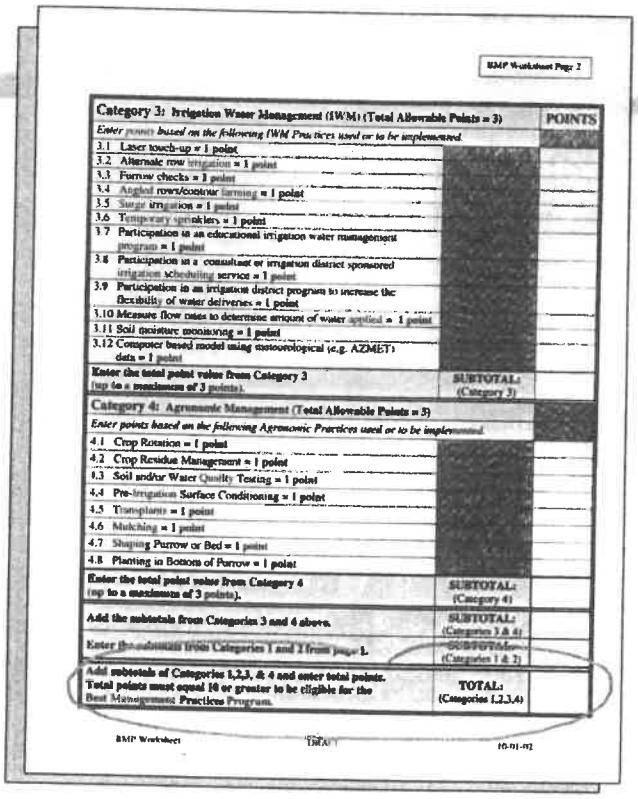
Name (Please Print)

Title

Signature Date

# BMP Worksheet

- Worksheet is organized into the 4 BMP Categories
- Each category allows the accumulation of up to 3 points
- An applicant must score at least 2 points in Category 2 to be eligible for the BMP Program
- A total of 10 or more points must be scored on the worksheet to be accepted into the BMP Program



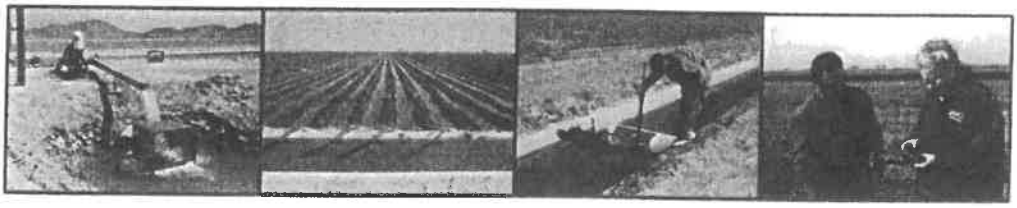
BMP Worksheet Page 2

| Category 3: Irrigation Water Management (IWM) (Total Allowable Points = 3) | | POINTS |
|---|---|---|
| *Enter points based on the following IWM Practices used or to be implemented.* | | |
| 3.1 Laser touch-up = 1 point | | |
| 3.2 Alternate row irrigation = 1 point | | |
| 3.3 Furrow checks = 1 point | | |
| 3.4 Angled rows/contour farming = 1 point | | |
| 3.5 Surge irrigation = 1 point | | |
| 3.6 Temporary sprinklers = 1 point | | |
| 3.7 Participation in an educational irrigation water management program = 1 point | | |
| 3.8 Participation in a consultant or irrigation district sponsored irrigation scheduling service = 1 point | | |
| 3.9 Participation in an irrigation district program to increase the flexibility of water deliveries = 1 point | | |
| 3.10 Measure flow rates to determine amount of water applied = 1 point | | |
| 3.11 Soil moisture monitoring = 1 point | | |
| 3.12 Computer based model using meteorological (e.g. AZMET) data = 1 point | | |
| **Enter the total point value from Category 3 (up to a maximum of 3 points).** | **SUBTOTAL: (Category 3)** | |
| **Category 4: Agronomic Management (Total Allowable Points = 3)** | | |
| *Enter points based on the following Agronomic Practices used or to be implemented.* | | |
| 4.1 Crop Rotation = 1 point | | |
| 4.2 Crop Residue Management = 1 point | | |
| 4.3 Soil and/or Water Quality Testing = 1 point | | |
| 4.4 Pre-Irrigation Surface Conditioning = 1 point | | |
| 4.5 Transplants = 1 point | | |
| 4.6 Mulching = 1 point | | |
| 4.7 Shaping Furrow or Bed = 1 point | | |
| 4.8 Planting in Bottom of Furrow = 1 point | | |
| **Enter the total point value from Category 4 (up to a maximum of 3 points).** | **SUBTOTAL: (Category 4)** | |
| **Add the subtotals from Categories 3 and 4 above.** | **SUBTOTAL: (Categories 3 & 4)** | |
| **Enter the subtotals from Categories 1 and 2 from page 1.** | **SUBTOTAL: (Categories 1 & 2)** | |
| **Add subtotals of Categories 1,2,3, & 4 and enter total points. Total points must equal 10 or greater to be eligible for the Best Management Practices Program.** | **TOTAL: (Categories 1,2,3,4)** | |

BMP Worksheet [illegible] 10-01-02

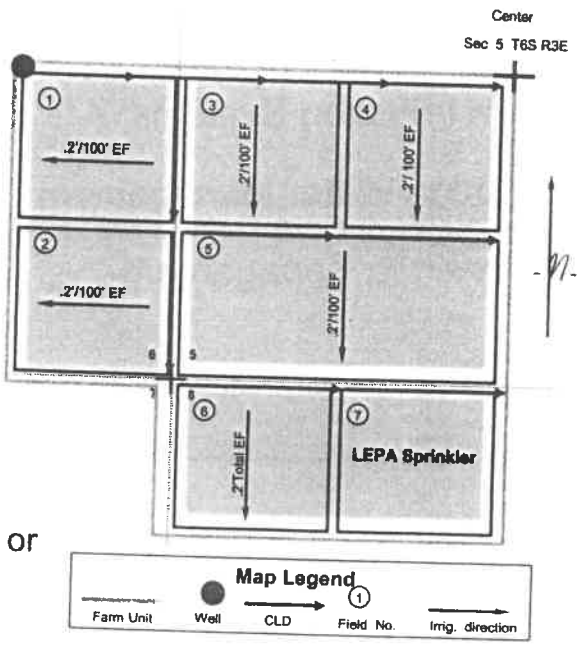
# BMP Program Categories

- Water Conveyance Improvements
- Farm Irrigation Systems
- Irrigation Water Management
- Agronomic Management



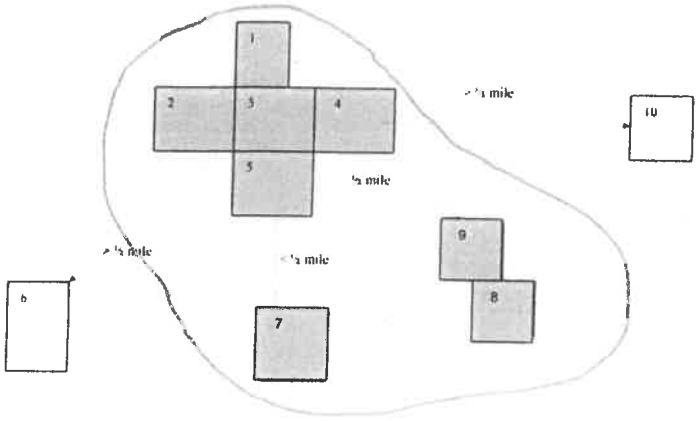
# Farm Plan Map

- Identify the IGFRs that make up the BMP farm unit
- Annotate the field numbers within the BMP farm unit
- Plot the sources of water and the water conveyance system (include tailwater reuse systems)
- Annotate the direction of irrigation for each field
- Indicate the slope of each field in the direction of irrigation (end-fall)
- Indicate where sprinkler (include type) or drip systems are used



# What is a Farm Unit?

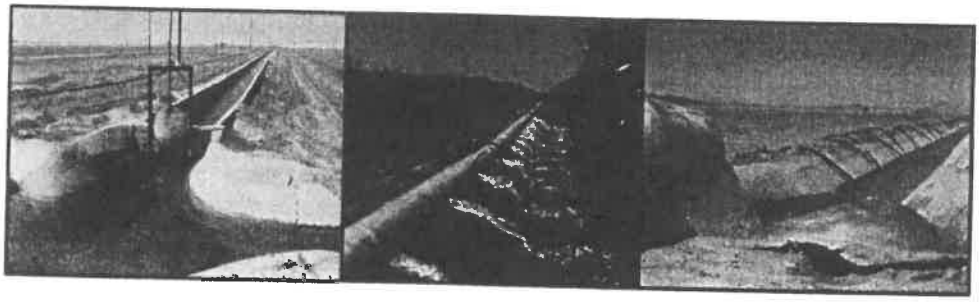
- Other IGFRs or groupings of contiguous IGFRs may also be included as part of the BMP farm unit so long as they are located within a half-mile of the fields served by the common distribution system.




*Note: The director may allow inclusion of an IGFR at a distance greater than a half-mile if it better facilitates the implementation of agricultural conservation practices under the BMP Program.*

# Program Practices

- Water Conveyance System Improvements
  - Concrete-lined ditches, pipelines, gated-pipe, drain-back systems



# Program Practices

Category 2

## • Farm Irrigation Systems

- Slope systems without uniform grades with tail-water reuse
- Uniform slope systems without tail-water reuse
- Uniform slope systems with tail-water reuse
- Uniform slope in an I.D. that captures and redistributes return flows
- Modified slope systems
- High pressure sprinkler systems
- Near level systems
- Level systems
- Low pressure sprinkler systems
- Trickle or drip irrigation systems

# Program Practices

## Irrigation Water Management (IWM)

- Laser touch-up
- Alternate row irrigation
- Furrow checks
- Angled rows
- Participation in IWM programs
- Temporary sprinklers
- Surge irrigation
- Using Irrigation Scheduling Services
- Participation with I.D. to increase flexibility of deliveries
- Measure flow rates to determine water applied
- Soil moisture monitoring
- Computer based model using meteorological data

# SCHEDULE BMP

**BMP WORKSHEET REPORT**

# ANNUAL REPORT 2024

ARIZONA DEPARTMENT OF WATER RESOURCES

**BMP Farm Unit No.** _____

**BMP Farm Unit Name:** _____

## PART 1 - Description of Water Conveyance System Improvements

Please describe the extent of each type of water conveyance system change or improvement implemented on the BMP Farm Unit during 2024. If no changes or improvements were made, please so indicate.

_____

_____

_____

## PART 2 - Description of Farm Irrigation System Improvements

Please describe the extent of each type of farm irrigation system change implemented on the BMP Farm Unit during 2024. If no changes or improvements were made, please so indicate.

_____

_____

_____

## PART 3 - Irrigation Water Management Practices Applied

Please check from the list below the types of irrigation water management BMPs that were applied on the BMP Farm Unit during 2024.

☐ BMP 3.1 Laser touch-up ☐ BMP 3.2 Alternate row irrigation ☐ BMP 3.3 Furrow checks

☐ BMP 3.4 Angled rows ☐ BMP 3.5 Surge irrigation ☐ BMP 3.6 Temporary sprinklers

☐ BMP 3.7 Participation in an educational irrigation water management program

☐ BMP 3.8 Participation in a consultant or irrigation district sponsored irrigation scheduling service

☐ BMP 3.9 Participation in an irrigation district program to increase the flexibility of water deliveries

☐ BMP 3.10 Measure flow rates ☐ BMP 3.11 Soil moisture monitoring ☐ BMP 3.12 Computer Scheduling

☐ Approved substitute BMP (note below)

Please indicate below if the BMPs checked are different than what was agreed to at time of enrollment into the BMP Program. If you are practicing different BMPs indicate your reasons for doing so.

_____

_____

_____

## PART 4 - Agronomic Management Practices Applied

Please check from the list below the types of agronomic management BMPs that were applied on the BMP Farm Unit during 2024.

☐ BMP 4.1 Crop rotation ☐ BMP 4.2 Crop residue management ☐ BMP 4.3 Soil and water quality testing

☐ BMP 4.4 Pre-irrigation surface conditioning ☐ BMP 4.5 Transplants ☐ BMP 4.6 Mulching

☐ BMP 4.7 Shaping furrow or bed ☐ BMP 4.8 Planting in bottom of furrow ☐ Approved substitute BMP

Please indicate below if the BMPs checked are different than what was agreed to at time of enrollment into the BMP Program. If you are practicing different BMPs indicate your reasons for doing so.

_____

_____

_____

I hereby certify that the information contained in this report is, to the best of my knowledge and belief, true, correct, and complete.

X _____ _____

SIGNATURE Date