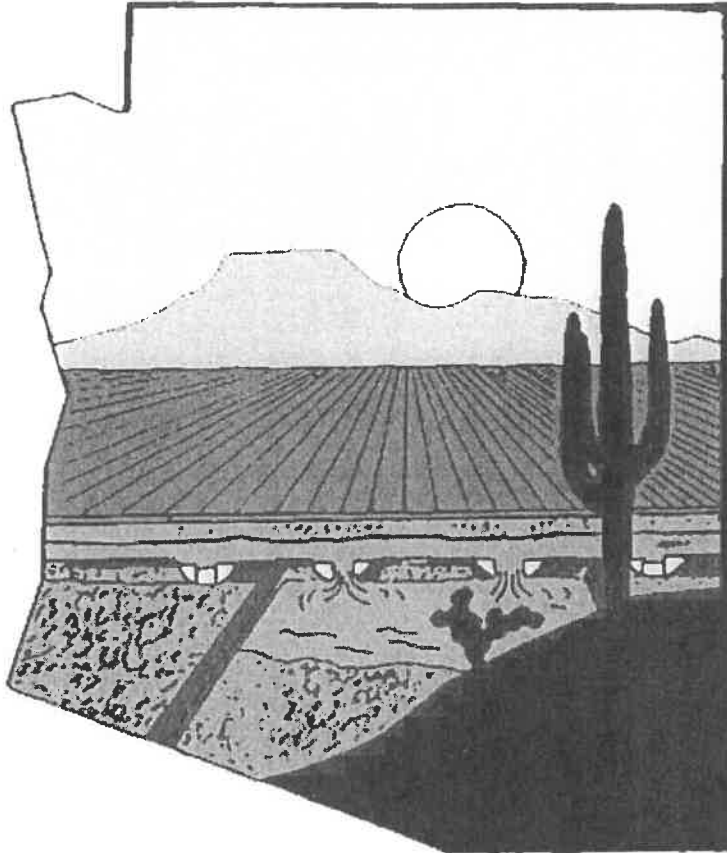


Irrigation Management Service

3RD QUARTER REPORT

JULY 2025 – SEPT 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

Cover page	0
Table of Contents	1
Program Highlights and Plans for the Next Quarter	2
BMP Summary	3
Status of IMS Standard and Season-Long Evaluations	4
Attachments :	
List of IMS Cooperators	5
IMS Equipment Inventory	7
Contributions to the IMS Program	8
Evaluations	9
Services	25
Attachments, Reference forms and documents	
Program pictures	

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Contract : 2025-3204IGA

Program Highlights and Plans for the Next Quarter

During this Quarter the Major IMS Activities were:

- 4 Standard Evaluations
- 2 Seasonal Evaluations
- Started Season long programs
- Continue meeting and assisting BMP Cooperators
- Continue doing BMP verifications
- Worked with NRCS on IWM (Irrigation water management)
- Continued with BMP Enrollments

Activities Planned for the Next Quarter are:

- Continue doing evaluations and BMP verifications
- Compiling list of potential season long program cooperators
- Worked with NRCS and NREC
- Continued with BMP Enrollments
- Assist Bmp Cooperators with Lease change paperwork

BMP Summary

- Assisted BMP Cooperators with Re-Application 5 Management plan (ALL 200 FARMS HAVE TO RE-APPLY BY JULY 1, 2024)
- 200 farms in the BMP program to date
- 92,000 acres in BMP to date
- Met periodically with all BMP cooperators at BMP WORKSHOPS
- 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: 0 of 4,
- b) Standard evaluations @ 14 minimum; Status: 13 of 14
- c) Season-long evaluations @ 6 minimum; Status: 2 of 6

List of IMS Cooperators

Hennes 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. *
Dorothy 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: 9/30/25

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	<u>600.00</u>
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 IDD 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 3.25hrsresulting 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 hrsresulting 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 hrsresulting 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 hrsresulting 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 hrsresulting 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 hrsresulting 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 hrsresulting 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 hrsresulting 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 hrsresulting 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 hrsresulting 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.

Irrigation Evaluation Summary Sheet

#: 2025-010

Irrigation Goal: Fill Rootzone

FIELD INFORMATION:

Length(ft):	<u>1000</u>	Width(ft):	<u>1250</u>	Date:	<u>07/08/25</u>
Field size(ac):	<u>28.70</u>	Set Area(ac):	<u>4.59</u>	Set Width(ft):	<u>200</u>
Grade(ft/100ft):	<u>0.00</u>	Side Grade:	<u>0.00</u>	Crop ID #:	<u>Cotton</u>
				Field ID #:	<u>#2</u>

WATER SOURCE:

Supply Source:	<u>District</u>	\$ per acre foot	<u> </u>	Salinity(ppm):	<u>N/A</u>
				(estimate)	

SOILS INFORMATION:

Primary Soil Series:	<u>Clay</u>	Texture:	<u>Sandy Loam</u>
	Average AWHC*** for a 4 foot root zone:		<u>8.00</u> inches
	Leaching Needs:		<u>0.00</u> inches
	Average Amount to Refill Root Zone:		<u>4.00</u> inches
	Total Amount Needed:		<u>4.00</u> inches

Other Soil Info: _____

IRRIGATION INFORMATION:

Irrigation system:	<u>ON FLAT</u>	Furrows per set:	<u>1</u>
Flow Rate:			
(measured)	<u>7.50</u> CFS		
	<u>3375</u> Gallons per Minute		
	<u>3375</u> Gallons per Minute per border		
Set Time, hours:	<u>2.75</u>	Total Depth Applied :	<u>4.49</u> inches
Field Time, hours:	<u>19.00</u>	Avg Depth Applied (fld):	<u>4.97</u> inches
Net Applied (amount infiltrated):	<u> </u>	(Total Depth Applied - Amount of Runoff):	<u>4.97</u> inches
		Runoff(initial)*:	<u>0.0%</u>
		Runoff(avail)**:	<u>0.0%</u>

*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 = 80.6%

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

IE = 89.0%

Was irrigation goal achieved? yes

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 hrsresulting 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.

Irrigation Evaluation Summary Sheet

#: 2025-011

Irrigation Goal: REFILL ROOTZONE

FIELD INFORMATION:

Length(ft):	<u>1190</u>	Width(ft):	<u>425</u>	Date:	<u>07/18/25</u>
Field size(ac):	<u>11.61</u>	Set Area(ac):	<u>11.61</u>	Set Width(ft):	<u>425</u>
Grade(ft/100ft):	<u>0.00</u>	Side Grade:	<u>0.00</u>	Crop ID #:	<u>Cotton</u>
				Field ID #:	<u>7</u>

WATER SOURCE:

Supply Source:	<u>Dist. turnout</u>	\$ per acre foot	<u>\$0.00</u>	Salinity(ppm):	<u>N/A</u>
				(estimate)	

SOILS INFORMATION:

Primary Soil Series:	Texture:
Average AWHC ^{***} for a 4 foot root zone:	<u>7.20</u> inches
Leaching Needs:	<u>0.00</u> inches
Average Amount to Refill Root Zone:	<u>4.20</u> inches
Total Amount Needed:	<u>4.20</u> inches

Other Soil Info: _____

IRRIGATION INFORMATION:

Irrigation system:	<u>ON FLAT</u>	Furrows per set:	<u>1</u>
Flow Rate:	<u>9.00</u> CFS		
(measured)	<u>4050</u> Gallons per Minute		
	<u>4050</u> Gallons per Minute per border		
Set Time, hours:	<u>6.25</u>	Total Depth Applied :	<u>4.84</u> inches
Field Time, hours:	<u>6.25</u>	Avg Depth Applied (fld):	<u>4.84</u> inches
Net Applied (amount infiltrated):	<u>4.84</u> inches	(Total Depth Applied - Amount of Runoff):	<u>4.84</u> inches
		Runoff(initial)*	<u>0.0%</u>
		Runoff(avail)**	<u>0.0%</u>

*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 = 86.7%

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

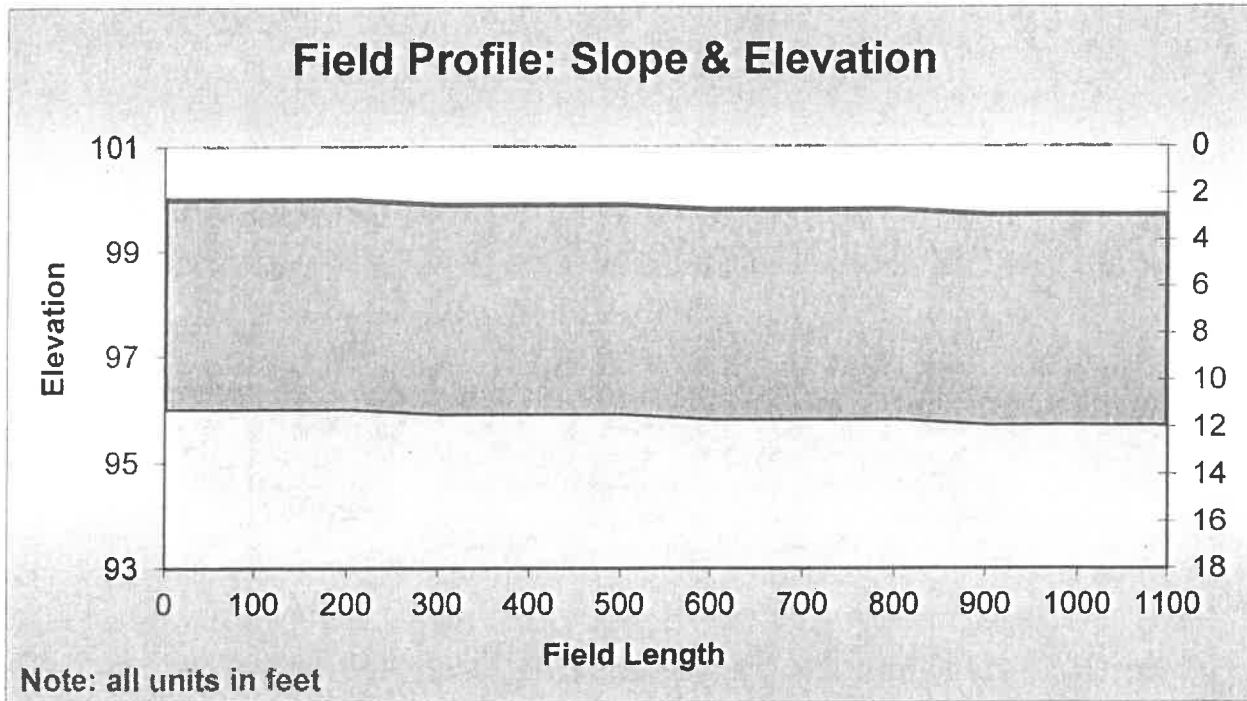
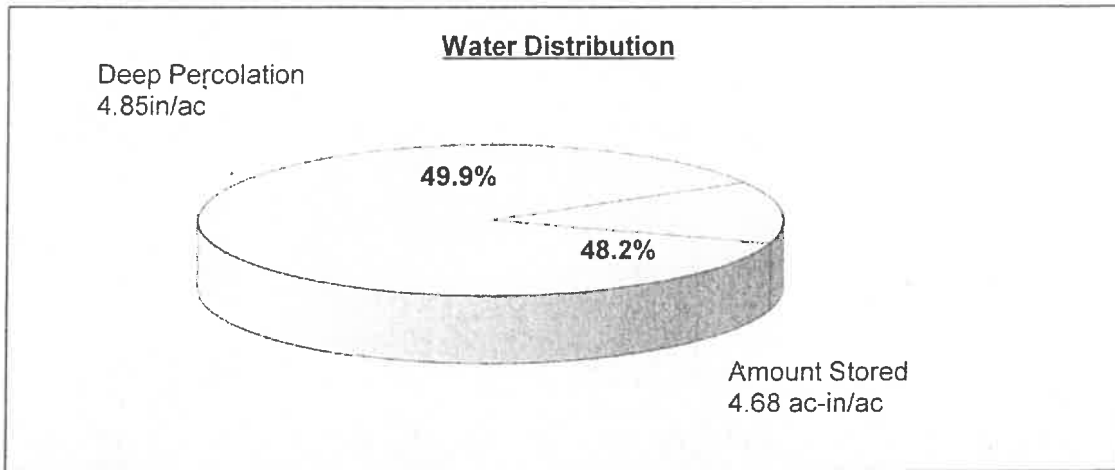
IE = 86.7%

Was irrigation goal achieved? yes

Irrigation Evaluation Summary Sheet

WATER DISTRIBUTION

Water Used:	Depth (in.)
Amount Applied	4.84
Runoff Amount (initial)	0.00
Runoff Amount (avail.)	0.00
Deep Percolation	0.64
Amount Stored (root zone)	4.20



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

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 hrsresulting 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.

Irrigation Evaluation Summary Sheet

#. 2025-012

Irrigation Goal: Fill Rootzone

FIELD INFORMATION:

Length(ft):	<u>865</u>	Width(ft):	<u>1240</u>	Date:	<u>09/17/25</u>
Field size(ac):	<u>24.62</u>	Set Area(ac):	<u>3.93</u>	Set Width(ft):	<u>198</u>
Grade(ft/100ft):	<u>0.00</u>	Side Grade:	<u>0.00</u>	Crop ID #:	<u>Alfalfa</u>
				Field ID #:	<u>8b</u>

WATER SOURCE:

Supply Source:	<u>Dist. turnout</u>	\$ per acre foot	<u>\$0.00</u>	Salinity(ppm):	<u>N/A</u>
				(estimate)	

SOILS INFORMATION:

Primary Soil Series:	<u>CG clay loam</u>	Texture:	<u>clay loam</u>
Average AWHC*** for a 4 foot root zone:	<u>9.60</u>	inches	
Leaching Needs:	<u>0.00</u>	inches	
Average Amount to Refill Root Zone:	<u>3.60</u>	inches	
Total Amount Needed:	<u>3.60</u>	inches	

Other Soil Info: _____

IRRIGATION INFORMATION:

Irrigation system:	<u>ON FLAT</u>	Furrows per set:	<u>1</u>
Flow Rate:	<u>5.50</u>	CFS	
(measured)	<u>5.50</u>	CFS	
	<u>2475</u>	Gallons per Minute	
	<u>2475</u>	Gallons per Minute per border	
Set Time, hours:	<u>2.75</u>	Total Depth Applied :	<u>3.85</u> inches
Field Time, hours:	<u>17.75</u>	Avg Depth Applied (fld):	<u>3.96</u> inches
Net Applied (amount infiltrated):	(Total Depth Applied - Amount of Runoff):	<u>3.96</u> inches	Runoff(initial)* <u>0.0%</u>
			Runoff(avail)** <u>0.0%</u>

*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 = 90.8%

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

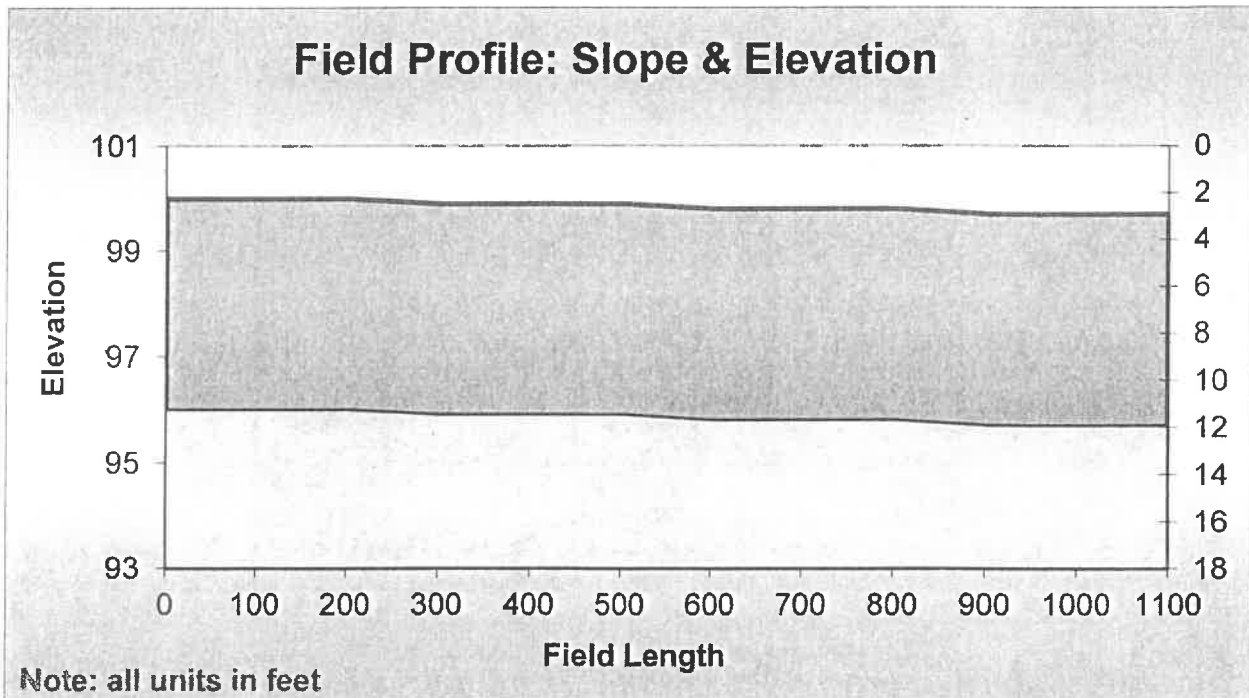
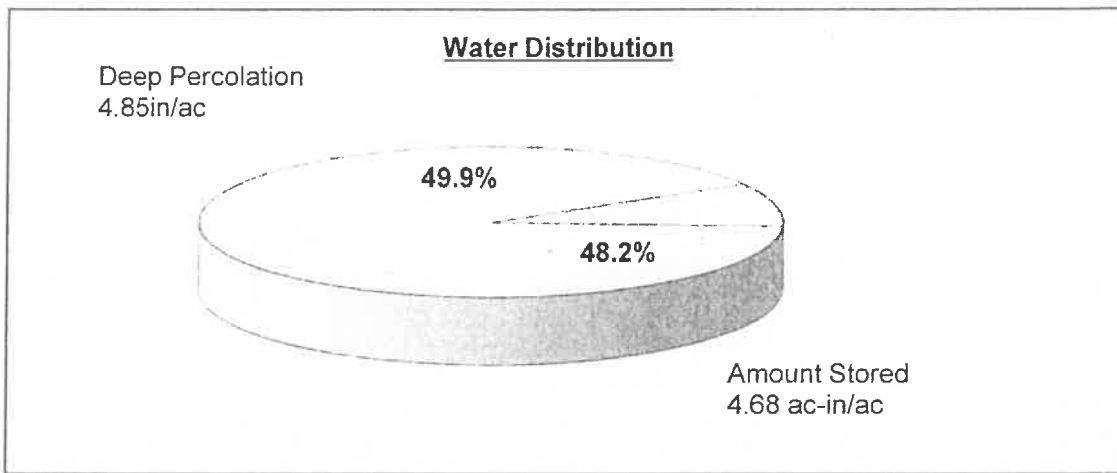
IE = 93.6%

Was irrigation goal achieved? yes

Irrigation Evaluation Summary Sheet

WATER DISTRIBUTION

Water Used:	Depth (in.)
Amount Applied	3.96
Runoff Amount (initial)	0.00
Runoff Amount (avail.)	0.00
Deep Percolation	0.36
Amount Stored (root zone)	3.60



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

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 4hrsresulting 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.

Irrigation Evaluation Summary Sheet

EVAL #: 2025-013

Irrigation Goal: Refill Rootzone

FIELD INFORMATION:

Length(ft):	<u>1000</u>	Width(ft):	<u>1250</u>	Date:	<u>09/10/25</u>
Field size(ac):	<u>28.70</u>	Set Area(ac):	<u>5.69</u>	Set Width(ft):	<u>248</u>
Grade(ft/100ft):	<u>0.00</u>	Side Grade:	<u>0.00</u>	Crop ID #:	<u>Alfalfa</u>
				Field ID #:	<u>5</u>

WATER SOURCE:

Supply Source:	<u>Dist. turnout</u>	\$ per acre foot	<u>\$0.00</u>	Salinity(ppm):	<u>N/A</u>
				(estimate)	

SOILS INFORMATION:

Primary Soil Series:	<u>CG clay loam</u>	Texture:	<u>clay loam</u>
Average AWHC*** for a 4 foot root zone:	<u>9.60</u>	inches	
Leaching Needs:	<u>0.00</u>	inches	
Average Amount to Refill Root Zone:	<u>3.40</u>	inches	
Total Amount Needed:	<u>3.40</u>	inches	

Other Soil Info: _____

IRRIGATION INFORMATION:

Irrigation system:	<u>ON FLAT</u>	Furrows per set:	<u>1</u>		
Flow Rate:					
(measured)	<u>5.50</u> CFS		<u>8.00</u> CFS		
	<u>2475</u> Gallons per Minute				
	<u>2475</u> Gallons per Minute per border				
Set Time, hours:	<u>4.00</u>	Total Depth Applied :	<u>3.86</u> inches	Runoff(initial)*	<u>0.0%</u>
Field Time, hours:	<u>19.50</u>	Avg Depth Applied (fld):	<u>3.74</u> inches		
Net Applied (amount infiltrated):		(Total Depth Applied - Amount of Runoff):	<u>3.74</u> inches	Runoff(avail)**	<u>0.0%</u>

*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 = 91.0%

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

IE = 88.0%

Was irrigation goal achieved? yes

2025

SEASONAL 2025-01

TOTAL ACRES: 120
IRRIGATION SYS: SURFACE
8.5CFS

FIELD 1

ACRES 10.1

" Applied	MAY	JUNE	JULY	AUGUST	SEPT
10	10.6	12.2	11.5	4.5	

48.8 inches

COTTON

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.

2025

SEASONAL 2025-02

TOTAL ACRES: 68
IRRIGATION SYS: SURFACE
10.5 CFS

Field: 4a

ACRES 11.3		DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	TOTAL	
ALFALFA CROP	" 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"

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.

