

Curtis W. Scheele

Water Management Specialist

NRCS

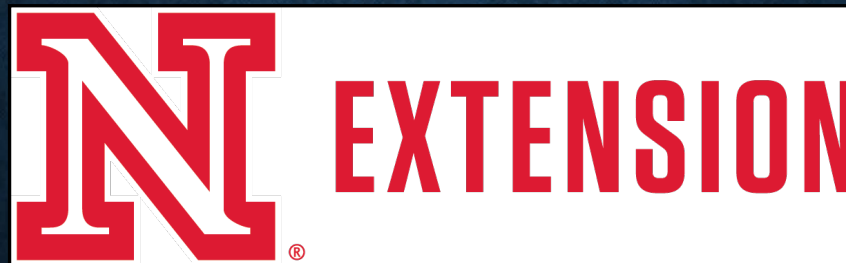
Holdrege, Nebraska

***USDA – Natural Resources Conservation Service
is an Equal Opportunity Provider, Employer, and Lender***

***Tri-Basin Ag Water
Management
Network
(TBAWMN)***

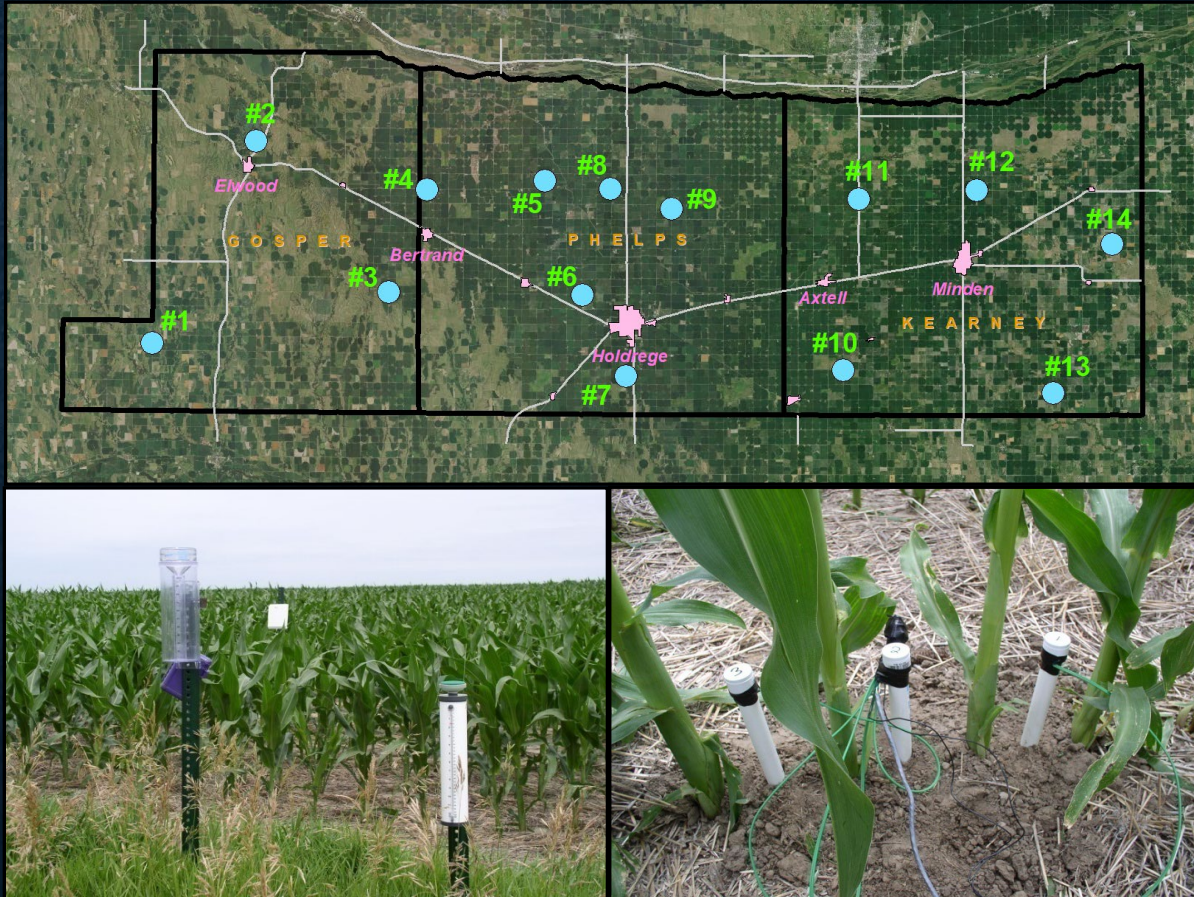
TBAWMN

➤ Partners



TBAWMN

➤ Tool for determining Crop Water Use



TBAWMN – INFORMATION

➤ **Information Collected Each Week**

➤ **Atmometer Reading**

➤ **Reference ET**

➤ **Crop Stage**

➤ **Rainfall**

➤ **Soil Moisture Sensor Readings**

TBAWMN – INFORMATION



Reading for week starting		09/22-09/29	09/15-09/22	09/08-09/15				
ETgage Weekly Change		1.40	1.25	0.60				
Rain Measurement		0.02	0.00	0.08				
Corn		Weekly crop water use						
Stage	ET Factor	09/22-09/29	09/15-09/22	09/08-09/15	09/01-09/08	08/25-09/01	08/18-08/25	08/11-08/18
V2	0.1	0.14	0.12	0.06	0.05	0.13	0.10	0.07
V4	0.18	0.25	0.22	0.11	0.09	0.23	0.17	0.12
V6	0.35	0.49	0.44	0.21	0.18	0.45	0.33	0.24
V8	0.51	0.71	0.64	0.31	0.26	0.66	0.48	0.35
V10	0.69	0.97	0.86	0.41	0.34	0.90	0.66	0.48
V12	0.88	1.23	1.10	0.53	0.44	1.14	0.84	0.61
V14	1.01	1.41	1.26	0.61	0.50	1.31	0.96	1.00
V16	1.1	1.54	1.38	0.66	0.55	1.43	1.04	1.00
Full Dent	0.96	1.34	1.20	0.58	0.48	1.25	0.91	0.91
Black layer	0.6	0.84	0.75	0.36	0.30	0.78	0.57	0.60
Full Maturity	0.1	0.14	0.12	0.06	0.05	0.13	0.10	0.07



TBAWMN – INFORMATION

Crop ET for the Past Week of July 12 - July 18

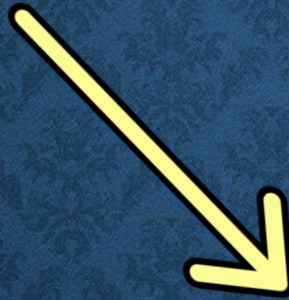
Location	Rainfall Inches for Past Week	CORN			SOYBEAN		
		Average Crop Stage	Weekly ET for Past Week	Average Daily ET for Past Week	Average Crop Stage	Weekly ET for Past Week	Average Daily ET for Past Week
Site #1 Arapahoe 7 Northwest	1.30	V14 - 14 Leaf	1.41	0.20	R2 - Full Bloom	1.40	0.20
		V16 - 16 Leaf	1.54	0.22	R3 - Beginning Pod	1.54	0.22
		R1 - Silking	1.54	0.22	R4 - Full Pod	1.54	0.22
		R2 - Blister	1.54	0.22	R5 - Beginning Seed	1.54	0.22
Site #2 Elwood 1 North	1.43	V14 - 14 Leaf	1.21	0.17	R2 - Full Bloom	1.20	0.17
		V16 - 16 Leaf	1.32	0.19	R3 - Beginning Pod	1.32	0.19
		R1 - Silking	1.32	0.19	R4 - Full Pod	1.32	0.19
		R2 - Blister	1.32	0.19	R5 - Beginning Seed	1.32	0.19
Site #3 Bertrand 4 Southwest	1.95	V14 - 14 Leaf	1.11	0.16	R2 - Full Bloom	1.10	0.16
		V16 - 16 Leaf	1.21	0.17	R3 - Beginning Pod	1.21	0.17
		R1 - Silking	1.21	0.17	R4 - Full Pod	1.21	0.17
		R2 - Blister	1.21	0.17	R5 - Beginning Seed	1.21	0.17

Email



TBAWMN

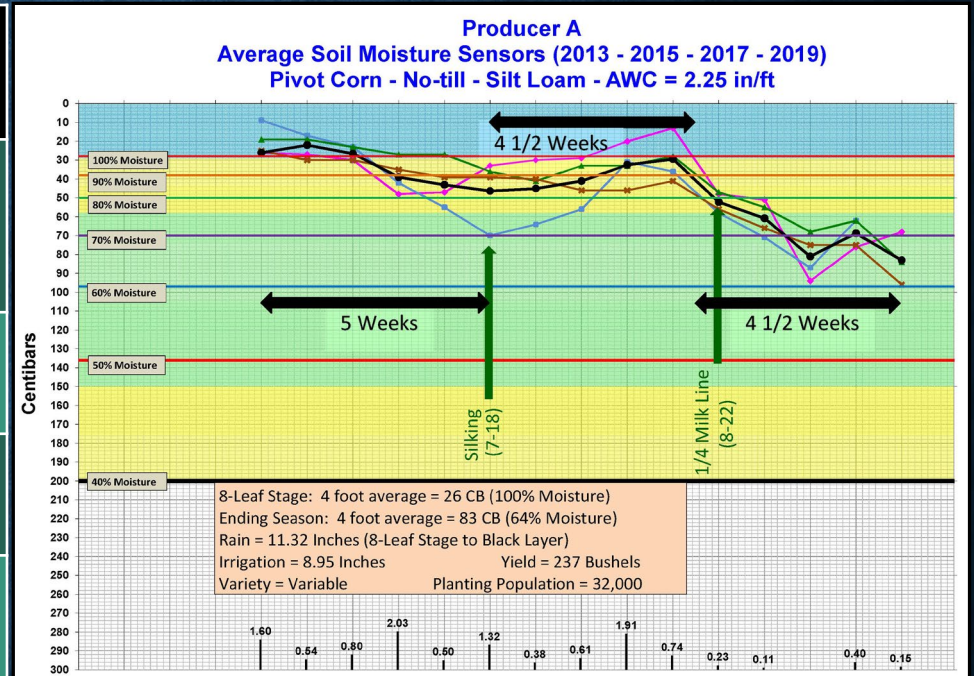
INFORMATION



PROMOTION

TBAWMN – PROMOTE IWM

	Producer Brown	Producer Green
Water Applied (Inches)	13.1	11.2
Rainfall (Inches)	11.4	11.7
Yield (Bushels)	254	255
Year End Moisture (-2.0 In)	79%	66% (-3.2 In)



TBAWMN – PROMOTE IWM

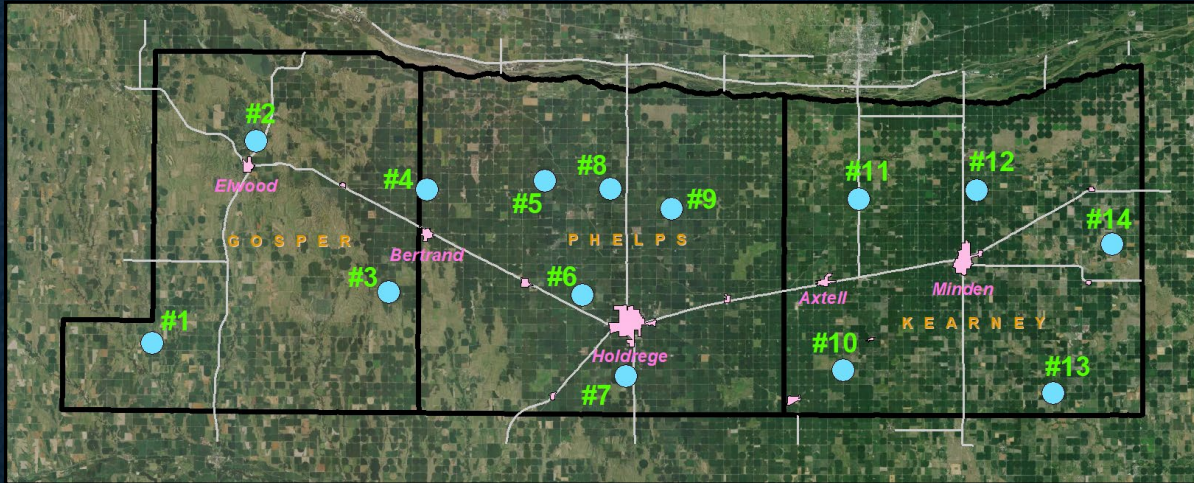
- **Written Correspondance**
 - Tri-Basin Irrigator Newsletters
 - NRD Newsletters
 - Other Correspondance
- **Meetings**
 - Pesticide/Nitrogen Certification
 - Crop Consultant
 - Other Meetings

***NRCS Earth Team
Volunteer
Program***

2022

EARTH TEAM 2022 – TBAWMN

➤ 15 Earth Team Volunteers (Producers)



EARTH TEAM 2022 – TBAWMN

- Allowed me to install the equipment in the spring and remove the equipment in the fall on their property.
- Spent 230 hours of their time traveling to these sites, reading the equipment, and calling in this information every Monday during the crop season.

EARTH TEAM 2022 – TBAWMN

- **Saved NRCS one person one full day a week to read the information.**
- **Saved NRCS vehicle mileage for the year of 3100 miles.**
- **Provided a total estimated dollar savings to NRCS of \$5800.00**

EARTH TEAM 2022 – TBAWMN

- Each pivot within the TBNRD saving 1 inch of water saves 3.2 million gallons of water pumped.
- Approximately 3800 pivots across the TBNRD.
- Based upon the amount of water Holdrege uses, if all TBNRD pivots saved 1 inch of water, that provides enough water for the entire TBNRD population for

EARTH TEAM 2022 – TBAWMN

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- Approximately 3800 pivots across the TBNRD.
- Based upon the amount of water Holdrege uses, if all TBNRD pivots saved 1 inch of water, that provides enough water for the entire TBNRD population for

nearly 7 years.

NRCS Earth Team

Annually the Earth Team program offers a number of awards to recognize volunteers who help NRCS achieve its mission.

NRCs Earth Team

***2022 National Group
Award Winner***

***Tri-Basin Ag Water
Management Network***

EARTH TEAM 2022 – TBAWMN

Gosper County	Phelps County	Kearney County
Randy Helms	Brenden Kreutzer	Scott Lundeen
Bryant Knoerzer	Rick Bergman	Jeff Nelson
T J Wilcox	Mike Ecklun	Brian Peterson
Fred Klintworth	Matt Ecklun	Ned Berkeypile
	Justin Johnson	Tim Johnson
	Erick Erickson Jr.	