

*Serving Box Butte, Dawes, Sheridan and Sioux Counties*

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**Crop Water Use Report for the week of August 12, 2024**

Over the past week, corn used 1.1 inches.  
Expected use by corn for this week is 1.76 inches.

In the past week, beets used 0.91 inches.  
Expected use by beets for this week is 1.46 inches.

Over the past week, potatoes used 0.85 inches.  
Expected use by potatoes for this week is 1.36 inches.

Over the past week, dry beans used 1 inch.  
Expected use by dry beans for this week is 1.6 inches.

Over the past week, soybeans used 1.1 inches.  
Expected use by soybeans for this week is 1.76 inches.

Over the past week, sunflowers used 1.1 inches.  
Expected use by sunflowers for this week is 1.76 inches.

Over the past week, alfalfa used 1.1 inches.  
Expected use by alfalfa for this week is 1.76 inches.

In past week, actively growing lawns used 1 inch.  
Expected use by actively growing lawns for this week is 1.6 inches.

In the past week average ET gage readings were 1 inch.

The average rainfall for the district was 0.51 inches.

The weather forecast for the next week shows highs in the 80's and 90's and lows in the 50's and 60's. There are chances of scattered thunderstorms throughout the week.

The crop water use report is completed using the average growth stage for each crop and ET gage reading from across the district. To find the conversion for your specific crop growth stage visit <https://nawmn.unl.edu/GrowthStageData>

For more information or to inquire about ET gages or soil moisture monitoring equipment, please contact Robbin Randall at the Upper Niobrara White Natural Resources District at

308.432.6190 or visit our website at [www.unwnrd.org](http://www.unwnrd.org). We are committed to helping Nebraskans conserve and protect groundwater.

## CORN

ET		V14	V16	R1 Silking, Blister
Subarea I	Used	1.01	1.1	1.1
	Projected	1.41	1.54	1.54
Subarea II&VI	Used	1.21	1.32	1.32
	Projected	1.62	1.76	1.76
Subarea III	Used	1.01	1.1	1.1
	Projected	1.31	1.43	1.43
Subarea IV	Used	1.01	1.1	1.1
	Projected	1.31	1.43	1.43
Subarea V	Used	1.11	1.21	1.21
	Projected	1.74	1.87	1.87

## SUGAR BEETS

ET		Full Cover	Max LAI	Root Stage
Subarea I	Used	0.83	0.91	0.91
	Projected	1.16	1.27	1.27
Subarea II&VI	Used	1	1.09	1.09
	Projected	1.33	1.46	1.46
Subarea III	Used	0.83	0.91	0.91
	Projected	1.08	1.18	1.18
Subarea IV	Used	0.83	0.91	0.91
	Projected	1.16	1.27	1.27
Subarea V	Used	0.91	1	1
	Projected	1.16	1.27	1.27

# POTATOES

ET		Tuberization	Tuber Bulk	Bulk
Subarea I	Used	0.91	0.85	0.6
	Projected	1.27	1.19	0.84
Subarea II&VI	Used	1.09	1.02	0.72
	Projected	1.37	1.28	0.9
Subarea III	Used	0.91	0.85	0.6
	Projected	1.37	1.28	0.9
Subarea IV	Used	0.91	0.85	0.6
	Projected	1.27	1.19	0.84
Subarea V	Used	0.91	0.85	0.6
	Projected	1.37	1.28	0.9

# DRY BEANS

ET		Full Cover	Pod Elongated	Pod Fill
Subarea I	Used	1	1	0.83
	Projected	1.4	1.4	1.16
Subarea II&VI	Used	1.2	1.2	1
	Projected	1.6	1.6	1.33
Subarea III	Used	1	1	0.83
	Projected	1.4	1.4	1.16
Subarea IV	Used	1	1	0.83
	Projected	1.6	1.6	1.33
Subarea V	Used	1.1	1.1	0.91
	Projected	1.7	1.7	1.41

# SOYBEANS

ET		Begin pod	Full Pod	
Subarea I	Used	1.1	1.1	
	Projected	1.54	1.54	
Subarea II&VI	Used	1.32	1.32	
	Projected	1.65	1.65	
Subarea III	Used	1.1	1.1	
	Projected	1.54	1.54	
Subarea IV	Used	1.1	1.1	
	Projected	1.76	1.76	
Subarea V	Used	1.21	1.21	
	Projected	1.65	1.65	

# SUNFLOWERS

ET		Flower Initiation	50% Disk Formation	
Subarea I	Used	1.1	1.15	
	Projected	1.54	1.61	
Subarea II&VI	Used	1.32	1.38	
	Projected	1.76	1.84	
Subarea III	Used	1.1	1.15	
	Projected	1.54	1.61	
Subarea IV	Used	1.1	1.15	
	Projected	1.54	1.61	
Subarea V	Used	1.21	1.27	
	Projected	1.76	1.84	

# ALFALFA

ET			
Subarea I	Used	1.1	
	Projected	1.43	
Subarea II&VI	Used	1.32	
	Projected	1.43	
Subarea III	Used	1.1	
	Projected	1.54	
Subarea IV	Used	1.1	
	Projected	1.54	
Subarea V	Used	1.21	
	Projected	1.43	

# GRASS

ET			
Subarea I	Used	1	
	Projected	1.6	
Subarea II&VI	Used	1	
	Projected	1.6	
Subarea III	Used	1	
	Projected	1.6	
Subarea IV	Used	1	
	Projected	1.6	
Subarea V	Used	1	
	Projected	1.6	

UNWNRD Subarea Map

