

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

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## **Crop Water Use Report for the week of August 9<sup>th</sup>, 2021.**

This is Erin Lee with the UNWNRD and this is the Crop Water Use Report for the week of August 9<sup>th</sup>, 2021.

Over the past week, corn used 2.20 inches.  
Expected use by corn for this week is 2.42 inches.

Over the past week, beets used 1.46 inches.  
Expected use by beets for this week is 1.61 inches.

Over the past week, potatoes used 1.20 inches.  
Expected use by potatoes for this week is 1.32 inches.

Over the past week, dry beans used 2.00 inches.  
Expected use by dry beans for this week is 2.10 inches.

Over the past week, soybeans used 2.20 inches.  
Expected use by soybeans for this week is 2.31 inches.

Over the past week, sunflowers used 2.20 inches.  
Expected use by sunflowers for this week is 2.31 inches.

Over the past week, alfalfa used 2.00 inches.  
Expected use by alfalfa for this week is 2.20 inches.

Over the past week, actively growing lawns used 1.80 inches.  
Expected use by actively growing lawns for this week 2.00 inches.

In the past week average ET gauge readings were 1.98 inches.

The average rainfall for the district was 0 inches.

The weather forecast for the next week shows highs in the low to mid 90s and upper 80s, with lows in the upper 50s and low 60s. It will be hot and sunny throughout the week with a slight chance of rain and thunderstorms on Friday.

In the last week, soil moisture monitoring station 1 showed 85% water available at 12", 32% water available at 24", and 24% water available at 36". The producer did irrigate. Remember this is in a **Sandy Loam** soil type with **Corn** planted and will vary depending on site, weather, irrigation management, topography, crop, and soil type.

The crop water use report is completed using the average growth stage for each crop and ET gauge 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 gauges or soil moisture monitoring equipment, please contact Erin Lee 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	Silking
Subarea I	Used	2.12	2.31	2.31
	Projected	2.32	2.53	2.53
Subarea II&VI	Used	2.02	2.2	2.2
	Projected	2.22	2.42	2.42
Subarea III	Used	1.92	2.09	2.09
	Projected	2.12	2.31	2.31
Subarea IV	Used	1.92	2.09	2.09
	Projected	2.12	2.31	2.31
Subarea V	Used	2.02	2.2	2.2
	Projected	2.22	2.42	2.42

## SOYBEANS

ET		R2	Begin Pod	Full Pod
Subarea I	Used	2.1	2.31	2.31
	Projected	2.2	2.42	2.42
Subarea II&VI	Used	2	2.2	2.2
	Projected	2.1	2.31	2.31
Subarea III	Used	1.9	2.09	2.09
	Projected	2	2.2	2.2
Subarea IV	Used	1.9	2.09	2.09
	Projected	2	2.2	2.2
Subarea V	Used	2	2.2	2.2
	Projected	2.1	2.31	2.31

# SUNFLOWERS

ET		Bud Formation	Flower Initiation	
Subarea I	Used	2.1	2.31	
	Projected	2.2	2.42	
Subarea II&VI	Used	2	2.2	
	Projected	2.1	2.31	
Subarea III	Used	1.9	2.09	
	Projected	2	2.2	
Subarea IV	Used	1.9	2.09	
	Projected	2	2.2	
Subarea V	Used	2	2.2	
	Projected	2.1	2.31	

# SUGAR BEETS

ET		80-90% Cover	90%-Full Cover	Full Cover
Subarea I	Used	1.26	1.53	1.74
	Projected	1.38	1.68	1.91
Subarea II&VI	Used	1.2	1.46	1.66
	Projected	1.32	1.61	1.83
Subarea III	Used	1.14	1.39	1.58
	Projected	1.26	1.53	1.74
Subarea IV	Used	1.14	1.39	1.58
	Projected	1.26	1.53	1.74
Subarea V	Used	1.2	1.46	1.66
	Projected	1.32	1.61	1.83

# POTATOES

ET		Tuber Bulk	Bulk	Pre- Senescence
Subarea I	Used	1.79	1.26	0.63
	Projected	1.96	1.38	0.69
Subarea II&VI	Used	1.7	1.2	0.6
	Projected	1.87	1.32	0.66
Subarea III	Used	1.62	1.14	0.57
	Projected	1.87	1.32	0.66
Subarea IV	Used	1.62	1.14	0.57
	Projected	1.87	1.32	0.66
Subarea V	Used	1.7	1.2	0.6
	Projected	1.87	1.32	0.66

# DRY BEANS

ET		Full Cover	Pod Elongation	Pod Fill
Subarea I	Used	2.1	2.1	1.74
	Projected	2.2	2.2	1.83
Subarea II&VI	Used	2	2	1.66
	Projected	2.1	2.1	1.74
Subarea III	Used	1.9	1.9	1.58
	Projected	2	2	1.66
Subarea IV	Used	1.9	1.9	1.58
	Projected	2	2	1.66
Subarea V	Used	2	2	1.66
	Projected	2.1	2.1	1.74

# ALFALFA

ET				
Subarea I	Used	2.1		
	Projected	2.3		
Subarea II&VI	Used	2		
	Projected	2.2		
Subarea III	Used	1.9		
	Projected	2.1		
Subarea IV	Used	1.9		
	Projected	2.1		
Subarea V	Used	2		
	Projected	2.2		

# GRASS

ET				
Subarea I	Used	1.8		
	Projected	2		
Subarea II&VI	Used	1.8		
	Projected	2		
Subarea III	Used	1.8		
	Projected	2		
Subarea IV	Used	1.8		
	Projected	2		
Subarea V	Used	1.8		
	Projected	2		

# UNWNRD Subarea Map

