

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

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**Crop Water Use Report for the week of August 2<sup>nd</sup>, 2021.**

This is Erin Lee with the UNWNRD and this is the Crop Water Use Report for the week of August 2<sup>nd</sup>, 2021.

Over the past week, corn used 2.22 inches.  
Expected use by corn for this week is 2.32 inches.

Over the past week, beets used 1.61 inches.  
Expected use by beets for this week is 1.68 inches.

Over the past week, potatoes used 1.87 inches.  
Expected use by potatoes for this week is 1.96 inches.

Over the past week, dry beans used 1.78 inches.  
Expected use by dry beans for this week is 1.86 inches.

Over the past week, soybeans used 2.20 inches.  
Expected use by soybeans for this week is 2.30 inches.

Over the past week, sunflowers used 2.42 inches.  
Expected use by sunflowers for this week is 2.53 inches.

Over the past week, alfalfa used 2.20 inches.  
Expected use by alfalfa for this week is 2.30 inches.

Over the past week, actively growing lawns used 2.50 inches.  
Expected use by actively growing lawns for this week 2.60 inches.

In the past week average ET gauge readings were 2.19 inches.

The average rainfall for the district was 0.01 inches.

The weather forecast for the next week shows highs staying in the 90s and lows in the 60s. It will remain hazy through the middle of the week, then it will be mostly sunny and hot through the rest of the week and into the weekend.

In the last week, soil moisture monitoring station 1 showed 28% water available at 12", 33% 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		V12	V14	V16
Subarea I	Used	2.2	2.53	2.75
	Projected	2.38	2.73	2.97
Subarea II&VI	Used	1.94	2.22	2.42
	Projected	2.11	2.42	2.64
Subarea III	Used	1.76	2.02	2.2
	Projected	1.94	2.22	2.42
Subarea IV	Used	1.67	1.92	2.09
	Projected	1.85	2.12	2.31
Subarea V	Used	2.02	2.32	2.53
	Projected	2.2	2.53	2.75

## SOYBEANS

ET		R1	R2	Begin Pod
Subarea I	Used	2.25	2.5	2.75
	Projected	2.34	2.6	2.86
Subarea II&VI	Used	1.98	2.2	2.42
	Projected	2.07	2.3	2.53
Subarea III	Used	1.8	2	2.2
	Projected	1.89	2.1	2.31
Subarea IV	Used	1.71	1.9	2.09
	Projected	1.8	2	2.2
Subarea V	Used	2.07	2.3	2.53
	Projected	2.16	2.4	2.64

# SUNFLOWERS

ET	Bud		
		Formation	Flower Initiation
Subarea I	Used	2.5	2.75
	Projected	2.6	2.86
Subarea II&VI	Used	2.2	2.42
	Projected	2.3	2.53
Subarea III	Used	2	2.2
	Projected	2.1	2.31
Subarea IV	Used	1.9	2.09
	Projected	2	2.2
Subarea V	Used	2.3	2.53
	Projected	2.4	2.64

# SUGAR BEETS

ET	80-90% Cover			90%-Full Cover		Full Cover	
Subarea I	Used	1.5	1.83	2.08			
	Projected	1.56	1.9	2.16			
Subarea II&VI	Used	1.32	1.61	1.83			
	Projected	1.38	1.68	1.91			
Subarea III	Used	1.2	1.46	1.66			
	Projected	1.26	1.53	1.74			
Subarea IV	Used	1.14	1.39	1.58			
	Projected	1.46	1.66	1.82			
Subarea V	Used	1.38	1.68	1.91			
	Projected	1.44	1.75	1.99			

# POTATOES

ET	Tuber			
		Tuberization	Bulk	Bulk
Subarea I	Used	2.28	2.13	1.5
	Projected	2.37	2.21	1.56
Subarea II&VI	Used	2	1.87	1.32
	Projected	2.09	1.96	1.38
Subarea III	Used	1.82	1.7	1.2
	Projected	1.91	1.79	1.26
Subarea IV	Used	1.73	1.62	1.14
	Projected	1.82	1.7	1.2
Subarea V	Used	2.09	1.96	1.38
	Projected	2.18	2.04	1.44

# DRY BEANS

ET		80%-Full Cover	Full Cover	Pod Elongation
Subarea I	Used	2.03	2.5	2.5
	Projected	2.11	2.6	2.6
Subarea II&VI	Used	1.78	2.2	2.2
	Projected	1.86	2.3	2.3
Subarea III	Used	1.62	2	2
	Projected	1.7	2.1	2.1
Subarea IV	Used	1.54	1.9	1.9
	Projected	1.62	2	2
Subarea V	Used	1.86	2.3	2.3
	Projected	1.94	2.4	2.4

# ALFALFA

ET				
Subarea I	Used	2.5		
	Projected	2.6		
Subarea II&VI	Used	2.2		
	Projected	2.3		
Subarea III	Used	2		
	Projected	2.1		
Subarea IV	Used	1.9		
	Projected	2		
Subarea V	Used	2.3		
	Projected	2.4		

# GRASS

ET				
Subarea I	Used	2.5		
	Projected	2.6		
Subarea II&VI	Used	2.5		
	Projected	2.6		
Subarea III	Used	2.5		
	Projected	2.6		
Subarea IV	Used	2.5		
	Projected	2.6		
Subarea V	Used	2.5		
	Projected	2.6		

# UNWNRD Subarea Map

