

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

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**Crop Water Use Report for the week of July 26<sup>th</sup>, 2021.**

This is Erin Lee with the UNWNRD and this is the Crop Water Use Report for the week of July 26<sup>th</sup>, 2021.

Over the past week, wheat used 0.20 inches.

Over the past week, corn used 2.02 inches.  
Expected use by corn for this week is 2.32 inches.

Over the past week, beets used 1.20 inches.  
Expected use by beets for this week is 1.38 inches.

Over the past week, potatoes used 1.70 inches.  
Expected use by potatoes for this week is 1.87 inches.

Over the past week, dry beans used 1.62 inches.  
Expected use by dry beans for this week is 1.78 inches.

Over the past week, soybeans used 2.00 inches.  
Expected use by soybeans for this week is 2.32 inches.

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

Over the past week, alfalfa used 2.00 inches.  
Expected use by alfalfa for this week is 2.30 inches.

Over past week, actively growing lawns used 2.10 inches.  
Expected use by actively growing lawns for this week 2.40 inches.

In the past week average ET gauge readings were 2.00 inches.

The average rainfall for the district was 0.17 inches.

The weather forecast for this week shows very hot conditions with temperatures reaching the 90s and 100s, and lows in the upper 60s and low 70s. It will be dry through the week with a slight chance of showers thunderstorms late in the week and through the weekend.

In the last week, soil moisture monitoring station 1 showed 30% water available at 12", 38% water available at 24", and 28% 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.

In the last week, soil moisture monitoring station 2 showed 56% water available at 12", 47% water available at 24", and 40% water available at 36". The producer did irrigate. Remember this is in a **Loam** soil type with **Beets** 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.

<b><u>CORN</u></b>				
ET		V12	V14	V16
Subarea I	Used	2.02	2.32	2.53
	Projected	2.29	2.63	2.86
Subarea II&VI	Used	1.85	2.12	2.31
	Projected	2.11	2.42	2.64
Subarea III	Used	1.58	1.82	1.98
	Projected	1.85	2.12	2.31
Subarea IV	Used	1.41	1.62	1.76
	Projected	1.67	1.92	2.09
Subarea V	Used	1.94	2.22	2.42
	Projected	2.2	2.53	2.75

<b><u>SOYBEANS</u></b>				
ET		R1	R2	Begin Pod
Subarea I	Used	2.07	2.3	2.53
	Projected	2.25	2.5	2.75
Subarea II&VI	Used	1.89	2.1	2.31
	Projected	2.07	2.3	2.53
Subarea III	Used	1.62	1.8	1.98
	Projected	1.8	2	2.2
Subarea IV	Used	1.44	1.6	1.76
	Projected	1.62	1.8	1.98
Subarea V	Used	1.98	2.2	2.42
	Projected	2.16	2.4	2.64

<b><u>SUNFLOWERS</u></b>				
ET		Bud Formation	Flower Initiation	
Subarea I	Used	2.3	2.53	
	Projected	2.5	2.75	
Subarea II&VI	Used	2.1	2.31	
	Projected	2.3	2.53	
Subarea III	Used	1.8	1.98	
	Projected	2	2.2	
Subarea IV	Used	1.6	1.76	
	Projected	1.8	1.98	
Subarea V	Used	2.2	2.42	
	Projected	2.4	2.64	

<b><u>SUGAR</u></b>				
<b><u>BEETS</u></b>				
ET		70-80% Cover	80-90% Cover	90%-Full Cover
Subarea I	Used	1.1	1.38	1.68
	Projected	1.25	1.56	1.9
Subarea II&VI	Used	1.01	1.26	1.53
	Projected	1.15	1.44	1.75
Subarea III	Used	0.86	1.08	1.31
	Projected	1.01	1.26	1.53
Subarea IV	Used	0.77	0.96	1.17
	Projected	1.14	1.39	1.58
Subarea V	Used	1.06	1.32	1.61
	Projected	1.2	1.5	1.83

<b><u>POTATOES</u></b>				
ET		Tuberization	Tuber Bulk	Bulk
Subarea I	Used	2.09	1.96	1.38
	Projected	2.28	2.13	1.5
Subarea II&VI	Used	1.91	1.79	1.26
	Projected	2.09	1.96	1.38
Subarea III	Used	1.64	1.53	1.08
	Projected	1.82	1.7	1.2
Subarea IV	Used	1.64	1.53	1.08
	Projected	1.64	1.53	1.08
Subarea V	Used	2	1.87	1.32
	Projected	1.82	1.7	1.2

**DRY**  
**BEANS**

ET		50-80% Cover	80%-Full Cover	Full Cover
Subarea I	Used	1.1	1.86	2.3
	Projected	1.2	2.03	2.5
Subarea II&VI	Used	1.01	1.7	2.1
	Projected	1.1	1.86	2.3
Subarea III	Used	0.86	1.46	1.8
	Projected	0.96	1.62	2
Subarea IV	Used	0.77	1.3	1.6
	Projected	0.86	1.46	1.8
Subarea V	Used	1.06	1.78	2.2
	Projected	1.15	1.94	2.4

**ALFALFA**

ET				
Subarea I	Used	2.3		
	Projected	2.6		
Subarea II&VI	Used	2.1		
	Projected	2.4		
Subarea III	Used	1.8		
	Projected	2.1		
Subarea IV	Used	1.6		
	Projected	1.9		
Subarea V	Used	2.2		
	Projected	2.5		

**GRASS**

ET

**Subarea I****Used**

2.1

**Projected**

2.4

**Subarea II&VI****Used**

2.1

**Projected**

2.4

**Subarea III****Used**

2.1

**Projected**

2.4

**Subarea IV****Used**

2.1

**Projected**

2.4

**Subarea V****Used**

2.1

**Projected**

2.4

# UNWNRD Subarea Map



