

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

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**Crop Water Use Report for the week of June 27<sup>th</sup>, 2022.**

This is Tricia Goes with the UNWNRD and this is the Crop Water Use Report for the week of June 27<sup>th</sup>, 2022.

Over the past week, wheat used 1.98 inches.  
Expected use by wheat for this week is 2.09 inches.

Over the past week, corn used 0.32 inches.  
Expected use by corn for this week is 0.34 inches.

Over the past week, beets used 0.18 inches.  
Expected use by beets for this week is 0.19 inches.

Over the past week, potatoes used 0.18 inches.  
Expected use by potatoes for this week is 0.19 inches.

Over the past week, dry beans used 0.11 inches.  
Expected use by dry beans for this week is 0.11 inches.

Over the past week, soybeans used 0.36 inches.  
Expected use by soybeans for this week is 0.38 inches.

Over the past week, sunflowers used 0.18 inches.  
Expected use by sunflowers for this week is 0.19 inches.

Over the past week, alfalfa used 1.80 inches.  
Expected use by alfalfa for this week is 1.90 inches.

Over the past week, actively growing lawns used 1.60 inches.  
Expected use by actively growing lawns for this week 1.70 inches.

Average ET gauge readings were 1.86 inches.

The average rainfall for the district was 0.16 inches.

The weather forecast for the next week shows highs in the low 80s and high-90s, and lows in the 50s and 60s. It will be hot and dry throughout the week with a slight chance of showers and thunderstorms towards the end of the week.

In the last week, soil moisture monitoring station 1 showed 67% water available at 12", 72% water available at 24", and 74% 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 20.6% water available at 8", 38.6% water available at 18", and 20.5% water available at 36". The producer did irrigate. Remember this is in a **Loam** soil type with **Wheat** 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		V2	V4	V6
Subarea I	Used	0.2	0.36	0.7
	Projected	0.21	0.38	0.74
Subarea II&VI	Used	0.16	0.29	0.56
	Projected	0.17	0.31	0.6
Subarea III	Used	0.19	0.34	0.67
	Projected	0.2	0.36	0.7
Subarea IV	Used	0.18	0.32	0.63
	Projected	0.19	0.34	0.67
Subarea V	Used	0.19	0.34	0.67
	Projected	0.2	0.36	0.7

## SOYBEANS

ET		VC	V1	
Subarea I	Used	0.2	0.4	
	Projected	0.21	0.42	
Subarea II&VI	Used	0.16	0.32	
	Projected	0.17	0.34	
Subarea III	Used	0.19	0.38	
	Projected	0.2	0.4	
Subarea IV	Used	0.18	0.36	
	Projected	0.19	0.38	
Subarea V	Used	0.19	0.38	
	Projected	0.2	0.4	

# SUNFLOWERS

ET		Early Vegetative		
		Vegetative	Vegetative	
Subarea I	Used	0.2	0.2	
	Projected	0.21	0.21	
Subarea II&VI	Used	0.16	0.16	
	Projected	0.17	0.17	
Subarea III	Used	0.19	0.19	
	Projected	0.2	0.2	
Subarea IV	Used	0.18	0.18	
	Projected	0.19	0.19	
Subarea V	Used	0.19	0.19	
	Projected	0.2	0.2	

# WHEAT

ET		Boot	Heading	Flowering
Subarea I	Used	2.2	2.2	2.2
	Projected	2.31	2.31	2.31
Subarea II&VI	Used	1.76	1.76	1.76
	Projected	1.87	1.87	1.87
Subarea III	Used	2.09	2.09	2.09
	Projected	2.2	2.2	2.2
Subarea IV	Used	1.98	1.98	1.98
	Projected	2.09	2.09	2.09
Subarea V	Used	2.09	2.09	2.09
	Projected	2.2	2.2	2.2

# SUGAR BEETS

ET		Emergence	10-30%	30-50%
			Cover	Cover
Subarea I	Used	0.2	0.28	0.42
	Projected	0.21	0.29	0.44
Subarea II&VI	Used	0.16	0.22	0.34
	Projected	0.17	0.24	0.36
Subarea III	Used	0.19	0.27	0.4
	Projected	0.2	0.28	0.42
Subarea IV	Used	0.18	0.25	0.38
	Projected	0.19	0.27	0.4
Subarea V	Used	0.19	0.27	0.4
	Projected	0.2	0.28	0.42

# POTATOES

ET		Emergence	Early Vegetative	
Subarea I	Used	0.2	0.26	
	Projected	0.21	0.27	
Subarea II&VI	Used	0.16	0.21	
	Projected	0.17	0.22	
Subarea III	Used	0.19	0.25	
	Projected	0.2	0.26	
Subarea IV	Used	0.18	0.23	
	Projected	0.19	0.25	
Subarea V	Used	0.19	0.25	
	Projected	0.2	0.26	

# DRY BEANS

ET		Emergence	Cover 10-50%	
Subarea I	Used	0.12	0.12	
	Projected	0.13	0.13	
Subarea II&VI	Used	0.1	0.1	
	Projected	0.1	0.1	
Subarea III	Used	0.11	0.11	
	Projected	0.12	0.12	
Subarea IV	Used	0.11	0.11	
	Projected	0.11	0.11	
Subarea V	Used	0.11	0.11	
	Projected	0.12	0.12	

# ALFALFA

ET			
Subarea I	Used	2	
	Projected	2.1	
Subarea II&VI	Used	1.6	
	Projected	1.7	
Subarea III	Used	1.9	
	Projected	2	
Subarea IV	Used	1.8	
	Projected	1.9	
Subarea V	Used	1.9	
	Projected	2	

# GRASS

ET			
Subarea I	Used	1.6	
	Projected	1.7	
Subarea II&VI	Used	1.6	
	Projected	1.7	
Subarea III	Used	1.6	
	Projected	1.7	
Subarea IV	Used	1.6	
	Projected	1.7	
Subarea V	Used	1.6	
	Projected	1.7	

# UNWNRD Subarea Map

