

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

*430 East Second Street Chadron, Nebraska 69337*

*Phone 308.432.6190*

*[www.unwnrd.org](http://www.unwnrd.org)*

*Fax 308.432.6187*



**Crop Water Use Report for the week of July 19<sup>th</sup>, 2021.**

This is Erin Lee with the UNWNRD and this is the Crop Water Use Report for the week of July 19<sup>th</sup>, 2021.

Over the past week, wheat used 0.16 inches.  
Expected use by wheat for this week is 0.17 inches.

Over the past week, corn used 1.10 inches.  
Expected use by corn for this week is 1.24 inches.

Over the past week, beets used 0.77 inches.  
Expected use by beets for this week is 0.82 inches.

Over the past week, potatoes used 1.36 inches.  
Expected use by potatoes for this week is 1.53 inches.

Over the past week, dry beans used 0.77 inches.  
Expected use by dry beans for this week is 0.82 inches.

Over the past week, soybeans used 1.44 inches.  
Expected use by soybeans for this week is 1.53 inches.

Over the past week, sunflowers used 0.16 inches.  
Expected use by sunflowers for this week is 0.17 inches.

Over the past week, alfalfa used 1.60 inches.  
Expected use by alfalfa for this week is 1.80 inches.

Over past week, actively growing lawns used 1.6 inches.  
Expected use by actively growing lawns for this week 1.80 inches.

In the past week average ET gauge readings were 1.58 inches.

The average rainfall for the district was 0.62 inches.

The weather forecast for the next week shows upper 90s and low 100s, and lows in the low 70s. It will be mostly sunny and hot with chances of showers and thunderstorms on Friday and into the weekend.

In the last week, soil moisture monitoring station 1 showed 29% water available at 12", 48% water available at 24", and 58% 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 37% water available at 12", 52% water available at 24", and 60% 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.

## CORN

ET		V8	V10	V12
Subarea I	Used	0.87	1.17	1.5
	Projected	0.97	1.31	1.67
Subarea II&VI	Used	0.82	1.1	1.41
	Projected	0.92	1.24	1.58
Subarea III	Used	0.77	1.04	1.32
	Projected	0.87	1.17	1.5
Subarea IV	Used	0.71	0.97	1.23
	Projected	0.82	1.1	1.41
Subarea V	Used	0.87	1.17	1.5
	Projected	0.97	1.31	1.67

# SOYBEANS

ET		V3	R1	R2
Subarea I	Used	1.02	1.53	1.7
	Projected	1.08	1.62	1.8
Subarea II&VI	Used	0.96	1.44	1.6
	Projected	1.02	1.53	1.7
Subarea III	Used	0.9	1.35	1.5
	Projected	0.96	1.44	1.6
Subarea IV	Used	0.84	1.26	1.4
	Projected	0.9	1.35	1.5
Subarea V	Used	1.02	1.53	1.7
	Projected	1.08	1.62	1.8

# SUNFLOWERS

ET		Bud		
		Vegetative	Formation	
Subarea I	Used	0.17	1.7	
	Projected	0.18	1.8	
Subarea II&VI	Used	0.16	1.6	
	Projected	0.17	1.7	
Subarea III	Used	0.15	1.5	
	Projected	0.16	1.6	
Subarea IV	Used	0.14	1.4	
	Projected	0.15	1.5	
Subarea V	Used	0.17	1.7	
	Projected	0.18	1.8	

# WHEAT

ET		Ripening	Mature	
Subarea I	Used	0.85	0.17	
	Projected	0.9	0.18	
Subarea II&VI	Used	0.8	0.16	
	Projected	0.85	0.17	
Subarea III	Used	0.75	0.15	
	Projected	0.8	0.16	
Subarea IV	Used	0.7	0.14	
	Projected	0.75	0.15	
Subarea V	Used	0.85	0.17	
	Projected	0.9	0.18	

# SUGAR BEETS

ET		50-70% Cover	70-80% Cover	80-90% Cover
Subarea I	Used	0.58	0.82	1.2
	Projected	0.65	0.91	1.14
Subarea II&VI	Used	0.54	0.77	0.96
	Projected	0.61	0.86	1.08
Subarea III	Used	0.51	0.72	0.9
	Projected	0.58	0.82	1.2
Subarea IV	Used	0.48	0.67	0.84
	Projected	0.54	0.77	0.96
Subarea V	Used	0.58	0.82	1.2
	Projected	0.65	0.91	1.14

# POTATOES

ET		Tuberization	Tuber Bulk	Bulk
Subarea I	Used	1.55	1.45	1.02
	Projected	1.73	1.62	1.14
Subarea II&VI	Used	1.46	1.36	0.96
	Projected	1.64	1.53	1.08
Subarea III	Used	1.37	1.28	0.9
	Projected	1.55	1.45	1.02
Subarea IV	Used	1.27	1.19	0.84
	Projected	1.46	1.36	0.96
Subarea V	Used	1.55	1.45	1.02
	Projected	1.73	1.62	1.14

# DRY BEANS

ET		10-50% Cover	50-80% Cover	80%-Full Cover
Subarea I	Used	0.1	0.82	1.38
	Projected	0.11	0.86	1.46
Subarea II&VI	Used	0.1	0.77	1.3
	Projected	0.1	0.82	1.38
Subarea III	Used	0.09	0.72	1.22
	Projected	0.1	0.77	1.3
Subarea IV	Used	0.08	0.67	1.13
	Projected	0.09	0.72	1.22
Subarea V	Used	0.1	0.82	1.38
	Projected	0.11	0.86	1.46

# ALFALFA

ET

Subarea I	Used	1.7		
	Projected	1.9		
Subarea II&VI	Used	1.6		
	Projected	1.8		
Subarea III	Used	1.5		
	Projected	1.7		
Subarea IV	Used	1.4		
	Projected	1.6		
Subarea V	Used	1.7		
	Projected	1.9		

# GRASS

ET

Subarea I	Used	1.5		
	Projected	1.7		
Subarea II&VI	Used	1.5		
	Projected	1.7		
Subarea III	Used	1.5		
	Projected	1.7		
Subarea IV	Used	1.5		
	Projected	1.7		
Subarea V	Used	1.5		
	Projected	1.7		

# UNWNRD Subarea Map

