

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

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**Crop Water Use Report for the week of June 29<sup>th</sup> 2020.**

This is Maria Baglieri with the UNWNRD and this is the Crop Water Use Report for the week of June 29th 2020.

Over the past week, wheat used 1.98 inches.  
Expected use by wheat for this week is 2.31 inches.

Over the past week, corn used 0.92 inches.  
Expected use by corn for this week is 1.07 inches.

In the past week, beets used 0.61 inches.  
Expected use by beets for this week is 0.71 inches.

Over the past week, potatoes used 0.95 inches.  
Expected use by potatoes for this week is 1.11 inches.

Over the past week, dry beans used 0.11 inches.  
Expected use by dry beans for this week is 0.13 inches.

Over the past week, soybeans used 0.72 inches.  
Expected use by soybeans for this week is 0.84 inches.

Over the past week, sunflowers used 0.18 inches.  
Expected use by sunflowers for this week is 0.21 inches.

Over the past week, alfalfa used 1.8 inches.  
Expected use by alfalfa for this week is 2.1 inches.

In past week, actively growing lawns used 2.1 inches.  
Expected use by actively growing lawns for this week is 2.4 inches.

In the past week average ET gage readings were 1.8 inches.

The average rainfall for the district was 0.35 inches.

The weather forecast for the next week shows highs being in the 90's and lows in the 60's. It will be sunny to partly cloudy throughout the week with a chance of scattered thunderstorms.

In the last week soil moisture monitoring station 1 showed 32% water available at 12", 50% water available at 24", and 76% 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 specific; weather, irrigation management, topography, management practices, crop, and soil type.

In the last week soil moisture monitoring station 2 showed 40% water available at 12", 60% water available at 24", and 82% water available at 36". The producer did irrigate. Remember this is in a **Loam** soil type with **Corn** planted and will vary depending on site specific; weather, irrigation management, topography, management practices, crop, and soil type.

The crop water use report is completed using the average growth stage for each crop and ET gage reading from across the district. To find the conversion your specific crop growth stage visit <https://nawmn.unl.edu/GrowthStageData>

For more information or to inquire about ET gages or soil moisture monitoring equipment, please contact Maria Baglieri 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		V6	V8	V10
Subarea I	Used	0.77	1.12	1.52
	Projected	0.88	1.28	1.73
Subarea II&VI	Used	1.28	0.87	1.17
	Projected	0.7	1.02	1.38
Subarea III	Used	0.6	0.87	1.17
	Projected	0.7	1.02	1.38
Subarea IV	Used	0.6	0.87	1.17
	Projected	0.7	1.02	1.38
Subarea V	Used	0.56	0.82	1.1
	Projected	0.67	0.97	1.31

## SOYBEANS

ET		V1	V2	V3
Subarea I	Used	0.44	0.88	1.32
	Projected	0.5	1	1.5
Subarea II&VI	Used	0.34	0.68	1.02
	Projected	0.4	0.8	1.2
Subarea III	Used	0.34	0.68	1.02
	Projected	0.4	0.8	1.2
Subarea IV	Used	0.34	0.68	1.02
	Projected	0.4	0.8	1.2
Subarea V	Used	0.32	0.64	0.96
	Projected	0.38	0.76	1.14

# WHEAT

ET		Flowering	Grain Fill	Stiff Dough
Subarea I	Used	2.42	2.42	2.2
	Projected	2.75	2.75	2.5
Subarea II&VI	Used	1.87	1.87	1.7
	Projected	2.2	2.2	2
Subarea III	Used	1.87	1.87	1.7
	Projected	2.2	2.2	2
Subarea IV	Used	1.87	1.87	1.7
	Projected	2.2	2.2	2
Subarea V	Used	1.76	1.76	1.7
	Projected	2.09	2.09	1.9

# SUNFLOWERS

ET		Vegetative		
Subarea I	Used	0.22		
	Projected	0.25		
Subarea II&VI	Used	0.17		
	Projected	0.2		
Subarea III	Used	0.17		
	Projected	0.2		
Subarea IV	Used	0.17		
	Projected	0.2		
Subarea V	Used	0.16		
	Projected	0.19		

# SUGAR BEETS

ET		30%-50% Cover	50%-70% Cover	
Subarea I	Used	0.46	0.75	
	Projected	0.53	0.85	
Subarea II&VI	Used	0.36	0.58	
	Projected	0.42	0.68	
Subarea III	Used	0.36	0.58	
	Projected	0.42	0.68	
Subarea IV	Used	0.36	0.58	
	Projected	0.42	0.68	
Subarea V	Used	0.34	0.54	
	Projected	0.4	0.65	

# POTATOES

ET		Vegetative	Blossom	Early Tuber
Subarea I	Used	0.66	1.17	1.67
	Projected	0.75	1.33	1.9
Subarea II&VI	Used	0.51	0.9	1.29
	Projected	0.6	1.06	1.52
Subarea III	Used	0.51	0.9	1.29
	Projected	0.6	1.06	1.52
Subarea IV	Used	0.51	0.9	1.29
	Projected	0.6	1.06	1.52
Subarea V	Used	0.48	0.85	1.22
	Projected	0.57	1.01	1.44

# DRY BEANS

ET		10%-50% Cover	50%-80% Cover	
Subarea I	Used	0.13	1.06	
	Projected	0.15	1.2	
Subarea II&VI	Used	0.1	0.82	
	Projected	0.12	0.96	
Subarea III	Used	0.1	0.82	
	Projected	0.12	0.96	
Subarea IV	Used	0.1	0.82	
	Projected	0.12	0.96	
Subarea V	Used	0.1	0.77	
	Projected	0.11	0.91	

# ALFALFA

ET				
Subarea I	Used	2.2		
	Projected	2.5		
Subarea II&VI	Used	1.7		
	Projected	2		
Subarea III	Used	1.7		
	Projected	2		
Subarea IV	Used	1.7		
	Projected	2		
Subarea V	Used	1.6		
	Projected	1.9		

# 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

