

Serving Box Butte, Dawes, Sheridan and Sioux Counties

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Crop Water Use Report for the week of July 27th 2020.

This is Tricia Goes with the UNWNRD and this is the Crop Water Use Report for the week of July 27th 2020.

Over the past week, corn used 2.2 inches.
Expected use by corn for this week is 2.31 inches.

In the past week, beets used 1.66 inches.
Expected use by beets for this week is 1.74 inches.

Over the past week, potatoes used 1.2 inches.
Expected use by potatoes for this week is 1.26 inches.

Over the past week, dry beans used 1.62 inches.
Expected use by dry beans for this week is 1.7 inches.

Over the past week, soybeans used 2.2 inches.
Expected use by soybeans for this week is 2.31 inches.

Over the past week, sunflowers used 0.2 inches.
Expected use by sunflowers for this week is 0.21 inches.

Over the past week, alfalfa used 2.0 inches.
Expected use by alfalfa for this week is 2.1 inches.

In past week, actively growing lawns used 2.0 inches.
Expected use by actively growing lawns for this week is 2.1 inches.

In the past week average ET gage readings were 2.02 inches.

The average rainfall for the district was 0.24 inches.

The weather forecast for the next week shows highs being in the 90's and 80's with lows in the 60's. There is a chance of rain in the middle of the week with scattered thunderstorms in the evenings.

In the last week soil moisture monitoring station 1 showed 74% water available at 12", 71% 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 72% water available at 12", 48% water available at 24", and 26% 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 Tricia Goes at the Upper Niobrara White Natural Resources District at 308.432.6190 or visit our website at www.unwnrd.org. We are committed to helping Nebraskans conserve and protect groundwater.

CORN

ET		V14	V16	
Subarea I	Used	2.22	2.42	
	Projected	2.32	2.53	
Subarea II&VI	Used	1.92	2.09	
	Projected	2.02	2.2	
Subarea III	Used	2.12	2.31	
	Projected	2.22	2.42	
Subarea IV	Used	2.12	2.31	
	Projected	2.22	2.42	
Subarea V	Used	1.82	1.98	
	Projected	2.02	2.2	

SOYBEANS

ET		R2	R3-R5	Begin Mature
Subarea I	Used	2.2	2.42	1.98
	Projected	2.3	2.53	2.07
Subarea II&VI	Used	1.9	2.09	1.71
	Projected	2	2.2	1.8
Subarea III	Used	2.1	2.31	1.89
	Projected	2.2	2.42	1.98
Subarea IV	Used	2.1	2.31	1.89
	Projected	2.2	2.42	1.98
Subarea V	Used	1.8	1.98	1.62
	Projected	1.9	2.09	1.71

SUNFLOWERS

ET		Vegetative	Bud Formation	
Subarea I	Used	0.22	2.2	
	Projected	0.23	2.3	
Subarea II&VI	Used	0.19	1.9	
	Projected	0.2	2	
Subarea III	Used	0.21	2.1	
	Projected	0.22	2.2	
Subarea IV	Used	0.21	2.1	
	Projected	0.22	2.2	
Subarea V	Used	0.18	1.8	
	Projected	0.19	1.9	

SUGAR BEETS

ET		Full Cover	Mas LAI	
Subarea I	Used	1.83	2	
	Projected	1.91	2.09	
Subarea II&VI	Used	1.58	1.73	
	Projected	1.66	1.82	
Subarea III	Used	1.74	1.91	
	Projected	1.83	2	
Subarea IV	Used	1.74	1.91	
	Projected	1.83	2	
Subarea V	Used	1.49	1.64	
	Projected	1.58	1.73	

POTATOES

ET		Tuber Bulk	Pre-Senescence	
Subarea I	Used	1.32	0.66	
	Projected	1.38	0.69	
Subarea II&VI	Used	1.14	0.57	
	Projected	1.2	0.6	
Subarea III	Used	1.26	0.63	
	Projected	1.32	0.66	
Subarea IV	Used	1.26	0.63	
	Projected	1.32	0.66	
Subarea V	Used	1.08	0.54	
	Projected	1.14	0.57	

DRY BEANS

ET		80%-Full	Pod	
			Elongation	Pod Fill
Subarea I	Used	1.78	2.2	1.83
	Projected	1.86	2.3	1.91
Subarea II&VI	Used	1.54	1.9	1.58
	Projected	1.62	2	1.66
Subarea III	Used	1.7	2.1	1.74
	Projected	1.78	2.2	1.83
Subarea IV	Used	1.7	2.1	1.74
	Projected	1.78	2.2	1.83
Subarea V	Used	1.46	1.8	1.49
	Projected	1.54	1.9	1.58

ALFALFA

ET				
Subarea I	Used	2.2		
	Projected	2.3		
Subarea II&VI	Used	1.9		
	Projected	2		
Subarea III	Used	2.1		
	Projected	2.2		
Subarea IV	Used	2.1		
	Projected	2.2		
Subarea V	Used	1.8		
	Projected	1.9		

GRASS

ET				
Subarea I	Used	2		
	Projected	2.1		
Subarea II&VI	Used	2		
	Projected	2.1		
Subarea III	Used	2		
	Projected	2.1		
Subarea IV	Used	2		
	Projected	2.1		
Subarea V	Used	2		
	Projected	2.1		

UNWNRD Subarea Map

