

Serving Box Butte, Dawes, Sheridan and Sioux Counties

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Crop Water Use Report for the week of August 23rd, 2021.

This is Erin Lee with the UNWNRD and this is the Crop Water Use Report for the week of August 23rd, 2021.

Over the past week, corn used 1.65 inches.
Expected use by corn for this week is 1.87 inches.

Over the past week, beets used 1.37 inches.
Expected use by beets for this week is 1.55 inches.

Over the past week, potatoes used 0.15 inches.
Expected use by potatoes for this week is 0.16 inches.

Over the past week, dry beans used 0.89 inches.
Expected use by dry beans for this week is 0.94 inches.

Over the past week, soybeans used 1.65 inches.
Expected use by soybeans for this week is 1.76 inches.

Over the past week, sunflowers used 1.73 inches.
Expected use by sunflowers for this week is 1.84 inches.

Over the past week, alfalfa used 1.50 inches.
Expected use by alfalfa for this week is 1.70 inches.

Over the past week, actively growing lawns used 1.50 inches.
Expected use by actively growing lawns for this week 1.70 inches.

In the past week average ET gauge readings were 1.52 inches.

The average rainfall for the district was 0.61 inches.

The weather forecast for the next week shows highs in the upper 80s and low 90s, with lows in the mid to upper 50s and low 60s. It will be warm and sunny at the start of the week with chances of showers and thunderstorms starting Wednesday evening and carrying into the weekend.

In the last week, soil moisture monitoring station 1 showed 59% water available at 12", 67% water available at 24", and 72% 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 29% water available at 12", 29% 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. We are committed to helping Nebraskans conserve and protect groundwater.

CORN

ET		Blister	Dough	Begin Dent
Subarea I	Used	1.98	1.98	1.98
	Projected	2.2	2.2	2.2
Subarea II&VI	Used	1.76	1.76	1.76
	Projected	1.98	1.98	1.98
Subarea III	Used	1.54	1.54	1.54
	Projected	1.76	1.76	1.76
Subarea IV	Used	1.43	1.43	1.43
	Projected	1.65	1.65	1.65
Subarea V	Used	1.65	1.65	1.65
	Projected	1.87	1.87	1.87

SOYBEANS

ET		Full Pod	Begin Seed	Full Seed
Subarea I	Used	1.98	1.98	1.98
	Projected	2.09	2.09	2.09
Subarea II&VI	Used	1.76	1.76	1.76
	Projected	1.87	1.87	1.87
Subarea III	Used	1.54	1.54	1.54
	Projected	1.65	1.65	1.65
Subarea IV	Used	1.43	1.43	1.43
	Projected	1.54	1.54	1.54
Subarea V	Used	1.65	1.65	1.65
	Projected	1.76	1.76	1.76

SUNFLOWERS

ET		Flower Initiation	50% Disk Formation	Early Seed
Subarea I	Used	1.98	2.07	2.07
	Projected	2.09	2.19	2.19
Subarea II&VI	Used	1.76	1.84	1.84
	Projected	1.87	1.96	1.96
Subarea III	Used	1.54	1.61	1.61
	Projected	1.65	1.73	1.73
Subarea IV	Used	1.43	1.5	1.5
	Projected	1.54	1.61	1.61
Subarea V	Used	1.65	1.73	1.73
	Projected	1.76	1.84	1.84

SUGAR BEETS

ET		Full Cover	Max LAI	Root Stage
Subarea I	Used	1.49	1.64	1.64
	Projected	1.66	1.82	1.82
Subarea II&VI	Used	1.33	1.46	1.46
	Projected	1.49	1.64	1.64
Subarea III	Used	1.16	1.27	1.27
	Projected	1.33	1.46	1.46
Subarea IV	Used	1.08	1.18	1.18
	Projected	1.25	1.37	1.37
Subarea V	Used	1.25	1.37	1.37
	Projected	1.41	1.55	1.55

POTATOES

ET		Pre- Senescence	Senescence	Mature
Subarea I	Used	0.54	0.18	0.18
	Projected	0.57	0.19	0.19
Subarea II&VI	Used	0.48	0.51	0.51
	Projected	0.16	0.17	0.17
Subarea III	Used	0.42	0.14	0.14
	Projected	0.45	0.15	0.15
Subarea IV	Used	0.39	0.13	0.13
	Projected	0.42	0.14	0.14
Subarea V	Used	0.45	0.48	0.48
	Projected	0.15	0.16	0.16

DRY BEANS

ET		Pod Fill	Dry Down	Senescence
Subarea I	Used	1.49	1.06	0.54
	Projected	1.58	1.12	0.57
Subarea II&VI	Used	1.33	0.94	0.48
	Projected	1.41	1	0.51
Subarea III	Used	1.16	0.83	0.42
	Projected	1.25	0.89	0.45
Subarea IV	Used	1.08	0.77	0.39
	Projected	1.16	0.83	0.42
Subarea V	Used	1.25	0.89	0.45
	Projected	1.33	0.94	0.48

ALFALFA

ET

Subarea I	Used	1.8	
	Projected	2	
Subarea II&VI	Used	1.6	
	Projected	1.8	
Subarea III	Used	1.4	
	Projected	1.6	
Subarea IV	Used	1.3	
	Projected	1.5	
Subarea V	Used	1.5	
	Projected	1.7	

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

