

Serving Box Butte, Dawes, Sheridan and Sioux Counties

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Crop Water Use Report for the week of August 15th, 2022.

This is Tricia Goes with the UNWNRD and this is the Crop Water Use Report for the week of August 15th 2022.

Over the past week, corn used 2.21 inches.
Expected use by corn for this week is 2.3 inches.

Over the past week, beets used 1.91 inches.
Expected use by beets for this week is 1.99 inches.

Over the past week, potatoes used 1.38 inches.
Expected use by potatoes for this week is 1.44 inches.

Over the past week, dry beans used 2.3 inches.
Expected use by dry beans for this week is 2.4 inches.

Over the past week, soybeans used 2.53 inches.
Expected use by soybeans for this week is 2.64 inches.

Over the past week, sunflowers used 2.65 inches.
Expected use by sunflowers for this week is 2.76 inches.

Over the past week, alfalfa used 2 inches.
Expected use by alfalfa for this week is 2.1 inches.

Over the past week, actively growing lawns used 2.3 inches.
Expected use by actively growing lawns for this week 2.4 inches.

Average ET gauge readings was 2.3 inches.

The average rainfall for the district was 0.88 inches.

The weather forecast for the next week shows highs in the 80's and 90's, and lows in the 60's with slight chance of rain.

In the last week, soil moisture monitoring station 1 showed 33% water available at 12", 27% water available at 24", and 48% 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 42.4% water available at 8", 38% water available at 18", and 31.5% water available at 36". The producer did irrigate. Remember this is in a **Loam** soil type with **Sugarbeets** 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		Full Dent	Black Layer
Subarea I	Used	2.4	1.5
	Projected	2.5	1.6
Subarea II&VI	Used	2.11	1.32
	Projected	2.21	1.38
Subarea III	Used	1.82	1.14
	Projected	1.92	1.2
Subarea IV	Used	2.11	1.32
	Projected	2.21	1.38
Subarea V	Used	2.6	1.7
	Projected	2.8	1.9

SUNFLOWERS

ET		50% Disk Formation	Early Seed
Subarea I	Used	2.88	2.88
	Projected	2.9	2.9
Subarea II&VI	Used	2.53	2.53
	Projected	2.65	2.65
Subarea III	Used	2.19	2.19
	Projected	2.3	2.3
Subarea IV	Used	2.53	2.53
	Projected	2.65	2.65
Subarea V	Used	2.9	2.9
	Projected	3.1	3.1

SOYBEANS

ET		R2	R3	R4
Subarea I	Used	2.5	2.75	2.75
	Projected	2.6	2.8	2.8
Subarea II&VI	Used	2.1	2.31	2.31
	Projected	2.2	2.42	2.42
Subarea III	Used	1.9	2.09	2.09
	Projected	2.1	2.31	2.31
Subarea IV	Used	2.2	2.42	2.42
	Projected	2.3	2.53	2.53
Subarea V	Used	2.7	2.9	2.9
	Projected	2.8	3.1	3.1

SUGAR BEETS

ET		90-Full Cover	Full Cover	Max LAI
Subarea I	Used	1.83	2.08	2.28
	Projected	1.92	2.1	2.4
Subarea II&VI	Used	1.61	1.83	2
	Projected	1.68	1.91	2.09
Subarea III	Used	1.39	1.58	1.73
	Projected	1.46	1.66	1.82
Subarea IV	Used	1.61	1.83	2
	Projected	1.68	1.91	2.09
Subarea V	Used	1.9	2.1	2.4
	Projected	2.1	2.3	2.6

DRY BEANS

ET		Full Cover	Pod Elongation	Pod Fill
Subarea I	Used	2.5	2.5	2.08
	Projected	2.6	2.6	2.1
Subarea II&VI	Used	2.2	2.2	1.83
	Projected	2.3	2.3	1.91
Subarea III	Used	1.9	1.9	1.58
	Projected	2	2	1.66
Subarea IV	Used	2.2	2.2	1.83
	Projected	2.3	2.3	1.91
Subarea V	Used	2.7	2.7	2.4
	Projected	2.9	2.9	2.6

POTATOES

ET		Bulk Tuber	Pre-Senescence	Senescence
Subarea I	Used	1.5	0.75	0.25
	Projected	1.6	0.8	0.1
Subarea II&VI	Used	1.32	0.66	0.22
	Projected	1.38	0.69	0.23
Subarea III	Used	1.14	0.57	0.19
	Projected	1.2	0.6	0.2
Subarea IV	Used	1.32	0.66	0.22
	Projected	1.38	0.69	0.23
Subarea V	Used	1.7	0.9	0.31
	Projected	1.9	1.2	0.45

ALFALFA

ET			ET		
Subarea I	Used	2.5	Subarea I	Used	2.3
	Projected	2.6		Projected	2.4
Subarea II&VI	Used	2.2	Subarea II&VI	Used	2.3
	Projected	2.3		Projected	2.4
Subarea III	Used	1.9	Subarea III	Used	2.3
	Projected	2		Projected	2.4
Subarea IV	Used	2.2	Subarea IV	Used	2.3
	Projected	2.3		Projected	2.4
Subarea V	Used	2.7	Subarea V	Used	2.3
	Projected	2.9		Projected	2.4

GRASS

Used	2.3	
Projected	2.4	
Used	2.3	
Projected	2.4	
Used	2.3	
Projected	2.4	
Used	2.3	
Projected	2.4	

UNWNRD Subarea Map

