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Crop Water Use Report for the week of August 29th, 2022.

This is Tricia Goes with the UNWNRD and this is the Crop Water Use Report for the week of August 29th 2022.

Over the past week, corn used 1.63 inches.
Expected use by corn for this week is 1.82 inches.

Over the past week, beets used 1.55 inches.
Expected use by beets for this week is 1.73 inches.

Over the past week, potatoes used 0.17 inches.
Expected use by potatoes for this week is 0.19 inches.

Over the past week, dry beans used 1 inch.
Expected use by dry beans for this week is 1.12 inches.

Over the past week, soybeans used 1.87 inches.
Expected use by soybeans for this week is 2.09 inches.

Over the past week, sunflowers used 1.96 inches.
Expected use by sunflowers for this week is 2.19 inches.

Over the past week, alfalfa used 1.7 inches.
Expected use by alfalfa for this week is 1.9 inches.

Over the past week, actively growing lawns used 1.3 inches.
Expected use by actively growing lawns for this week 1.5 inches.

Average ET gauge readings was 1.7 inches.

The weather forecast for the next week shows highs in the 80's and low 90's, and lows in the 50's and 60's.

In the last week, soil moisture monitoring station 1 showed 24% water available at 12", 26% water available at 24", and 37% 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 40.5% water available at 8", 36.3% water available at 18", and 34% 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		Black Layer	Full Maturity
Subarea I	Used	0.96	0.16
	Projected	1.08	0.18
Subarea II&VI	Used	0.96	0.16
	Projected	1.08	0.18
Subarea III	Used	1.02	0.17
	Projected	1.14	0.19
Subarea IV	Used	1.2	0.2
	Projected	1.32	0.22
Subarea V	Used	1.08	0.18
	Projected	1.2	0.19

SUNFLOWERS

ET		Late Seed	Mature
Subarea I	Used	1.84	0.32
	Projected	2.07	0.36
Subarea II&VI	Used	1.84	0.32
	Projected	2.07	0.36
Subarea III	Used	1.96	0.34
	Projected	2.07	0.38
Subarea IV	Used	2.3	0.4
	Projected	2.53	0.44
Subarea V	Used	2.19	0.38
	Projected	2.42	0.42

SOYBEANS

ET		R4	R5	Begin Mature
Subarea I	Used	1.76	1.76	1.44
	Projected	1.98	1.98	1.62
Subarea II&VI	Used	1.76	1.76	1.44
	Projected	1.98	1.98	1.62
Subarea III	Used	1.87	1.87	1.53
	Projected	2.09	2.09	1.71
Subarea IV	Used	2.2	2.2	1.8
	Projected	2.42	2.42	1.98
Subarea V	Used	2.09	2.09	1.71
	Projected	2.31	2.31	1.89

SUGAR BEETS

ET		Max LAI	Root Stage	
Subarea I	Used	1.46	1.46	
	Projected	1.64	1.64	
Subarea II&VI	Used	1.46	1.46	
	Projected	1.64	1.64	
Subarea III	Used	1.55	1.55	
	Projected	1.73	1.73	
Subarea IV	Used	1.82	1.82	
	Projected	2	2	
Subarea V	Used	1.73	1.71	
	Projected	1.91	1.89	

DRY BEANS

ET		Pod Fill	Dry Down
Subarea I	Used	1.33	0.94
	Projected	1.49	1.06
Subarea II&VI	Used	1.33	0.94
	Projected	1.49	1.06
Subarea III	Used	1.41	1
	Projected	1.58	1.12
Subarea IV	Used	1.66	1.18
	Projected	1.83	1.3
Subarea V	Used	1.58	1.12
	Projected	1.74	1.24

ALFALFA

ET			ET		
Subarea I	Used	1.6	Subarea I	Used	1.3
	Projected	1.8		Projected	1.5
Subarea II&VI	Used	1.6	Subarea II&VI	Used	1.3
	Projected	1.8		Projected	1.5
Subarea III	Used	1.7	Subarea III	Used	1.3
	Projected	1.9		Projected	1.5
Subarea IV	Used	2	Subarea IV	Used	1.3
	Projected	2.2		Projected	1.5
Subarea V	Used	1.9	Subarea V	Used	1.3
	Projected	2.1		Projected	1.5

POTATOES

ET		Senescence	Mature	
Subarea I	Used	0.16	0.16	
	Projected	0.18	0.18	
Subarea II&VI	Used	0.16	0.16	
	Projected	0.18	0.18	
Subarea III	Used	0.17	0.17	
	Projected	0.19	0.19	
Subarea IV	Used	0.2	0.2	
	Projected	0.22	0.22	
Subarea V	Used	0.19	0.19	
	Projected	0.21	0.21	

GRASS

Subarea I	Used	1.3	
	Projected	1.5	
Subarea II&VI	Used	1.3	
	Projected	1.5	
Subarea III	Used	1.3	
	Projected	1.5	
Subarea IV	Used	1.3	
	Projected	1.5	
Subarea V	Used	1.3	
	Projected	1.5	

UNWNRD Subarea Map

