

Serving Box Butte, Dawes, Sheridan and Sioux Counties

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Crop Water Use Report for the week of August 26th 2019

Over the past week, corn used 1.43 inches.
Expected use by corn for this week is 1.32 inches.

In the past week, beets used 1.18 inches.
Expected use by beets for this week is 1.09 inches.

Over the past week, potatoes used 0.39 inches.
Expected use by potatoes for this week is 0.36 inches.

Over the past week, dry beans used 0.77 inches.
Expected use by dry beans for this week is 0.71 inches.

Over the past week, soybeans used 1.17 inches.
Expected use by soybeans for this week is 1.08 inches.

Over the past week, sunflowers used 1.5 inches.
Expected use by sunflowers for this week is 1.38 inches.

Over the past week, alfalfa used 1.3 inches.
Expected use by alfalfa for this week is 1.2 inches.

In past week, actively growing lawns used 1.4 inches.
Expected use by actively growing lawns for this week is 1.3 inches.

In the past week average ET gage readings were 1.3 inches.

The average rainfall for the district was 0.70 inches.

The weather forecast for the next week shows highs being in the 70's and 80's with lows in the 50's. There is a chance of rain later this week.

In the last week soil moisture monitoring station 1 showed 50% water available at 12", 70% water available at 24", and 71% water available at 36". The producer did not 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 65% water available at 12", 65% water available at 24", and 90% water available at 36". The producer did not irrigate. Remember this is in a **Loam** soil type with **Dry Beans** 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 for 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. We are committed to helping Nebraskans conserve and protect groundwater.

CORN

| ET | | V16 | Full Dent | |
|---------------|-----------|------|-----------|--|
| Subarea I | Used | 1.54 | 1.34 | |
| | Projected | 1.43 | | |
| Subarea II&VI | Used | 1.43 | 1.25 | |
| | Projected | 1.32 | | |
| Subarea III | Used | 1.43 | 1.25 | |
| | Projected | 1.32 | | |
| Subarea IV | Used | 1.32 | 1.15 | |
| | Projected | 1.21 | | |
| Subarea V | Used | 1.54 | 1.34 | |
| | Projected | 1.43 | | |

SOYBEANS

| ET | | R3-5 | Begin Mature | |
|---------------|-----------|------|--------------|--|
| Subarea I | Used | 1.54 | 1.26 | |
| | Projected | | 1.17 | |
| Subarea II&VI | Used | 1.43 | 1.17 | |
| | Projected | | 1.08 | |
| Subarea III | Used | 1.43 | 1.17 | |
| | Projected | | 1.08 | |
| Subarea IV | Used | 1.32 | 1.08 | |
| | Projected | | 0.99 | |
| Subarea V | Used | 1.54 | 1.26 | |
| | Projected | | 1.17 | |

SUNFLOWERS

| ET | | Flower Initiation | 50% Disk Formation | Early Seed |
|---------------|-----------|----------------------|-----------------------|------------|
| Subarea I | Used | 1.54 | 1.61 | 1.61 |
| | Projected | | 1.5 | |
| Subarea II&VI | Used | 1.43 | 1.5 | 1.5 |
| | Projected | | 1.38 | |
| Subarea III | Used | 1.43 | 1.5 | 1.5 |
| | Projected | | 1.38 | |
| Subarea IV | Used | 1.32 | 1.38 | 1.38 |
| | Projected | | 1.27 | |
| Subarea V | Used | 1.54 | 1.61 | 1.61 |
| | Projected | | 1.5 | |

SUGAR BEETS

| ET | | Full Cover | Max LAI | Root Stage |
|---------------|-----------|------------|---------|------------|
| Subarea I | Used | 1.16 | 1.27 | 1.27 |
| | Projected | | 1.18 | |
| Subarea II&VI | Used | 1.08 | 1.18 | 1.18 |
| | Projected | | 1.09 | |
| Subarea III | Used | 1.08 | 1.18 | 1.18 |
| | Projected | | 1.09 | |
| Subarea IV | Used | 1 | 1.09 | 1.09 |
| | Projected | | 1 | |
| Subarea V | Used | 1.16 | 1.27 | 1.27 |
| | Projected | | 1.18 | |

POTATOES

| ET | | Bulk | Pre- Senescence | Senescence |
|---------------|-----------|------|--------------------|------------|
| Subarea I | Used | 0.84 | 0.42 | 0.14 |
| | Projected | | 0.39 | |
| Subarea II&VI | Used | 0.78 | 0.39 | 0.13 |
| | Projected | | 0.36 | |
| Subarea III | Used | 0.78 | 0.39 | 0.13 |
| | Projected | | 0.36 | |
| Subarea IV | Used | 0.72 | 0.36 | 0.12 |
| | Projected | | 0.33 | |
| Subarea V | Used | 0.84 | 0.42 | 0.14 |
| | Projected | | 0.39 | |

DRY BEANS

| ET | | Pod Fill | Dry Down | Senescence |
|---------------|-----------|----------|----------|------------|
| Subarea I | Used | 1.16 | 0.83 | 0.42 |
| | Projected | | 0.77 | |
| Subarea II&VI | Used | 1.08 | 0.77 | 0.39 |
| | Projected | | 0.71 | |
| Subarea III | Used | 1.08 | 0.77 | 0.39 |
| | Projected | | 0.71 | |
| Subarea IV | Used | 1 | 0.71 | 0.36 |
| | Projected | | 0.65 | |
| Subarea V | Used | 1.16 | 0.83 | 0.42 |
| | Projected | | 0.77 | |

ALFALFA

| ET | | | | |
|---------------|-----------|-----|--|--|
| Subarea I | Used | 1.4 | | |
| | Projected | 1.3 | | |
| Subarea II&VI | Used | 1.3 | | |
| | Projected | 1.2 | | |
| Subarea III | Used | 1.3 | | |
| | Projected | 1.2 | | |
| Subarea IV | Used | 1.2 | | |
| | Projected | 1.1 | | |
| Subarea V | Used | 1.4 | | |
| | Projected | 1.3 | | |

GRASS

| ET | | | | |
|---------------|-----------|-----|--|--|
| Subarea I | Used | 1.4 | | |
| | Projected | 1.3 | | |
| Subarea II&VI | Used | 1.4 | | |
| | Projected | 1.3 | | |
| Subarea III | Used | 1.4 | | |
| | Projected | 1.3 | | |
| Subarea IV | Used | 1.4 | | |
| | Projected | 1.3 | | |
| Subarea V | Used | 1.4 | | |
| | Projected | 1.3 | | |

UNWNRD Subarea Map

