

Serving Box Butte, Dawes, Sheridan and Sioux Counties

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Crop Water Use Report for the week of June 13th, 2022.

This is Erin Lee with the UNWNRD and this is the Crop Water Use Report for the week of June 13th, 2022.

Over the past week, wheat used 1.43 inches.
Expected use by wheat for this week is 1.65 inches.

Over the past week, corn used 0.13 inches.
Expected use by corn for this week is 0.15 inches.

Over the past week, beets used 0.13 inches.
Expected use by beets for this week is 0.15 inches.

Over the past week, potatoes used 0.13 inches.
Expected use by potatoes for this week is 0.15 inches.

Over the past week, dry beans used 0.08 inches.
Expected use by dry beans for this week is 0.09 inches.

Over the past week, soybeans used 0.13 inches.
Expected use by soybeans for this week is 0.15 inches.

Over the past week, sunflowers used 0.13 inches.
Expected use by sunflowers for this week is 0.15 inches.

Over the past week, alfalfa used 1.30 inches.
Expected use by alfalfa for this week is 1.50 inches.

Over the past week, actively growing lawns used 0.80 inches.
Expected use by actively growing lawns for this week 1.00 inches.

Average ET gauge readings were 1.34 inches.

The average rainfall for the district was 0.48 inches.

The weather forecast for the next week shows highs in the upper 70s and 80s, and reaching triple digits by the weekend, and lows in the upper 40s to mid-60s. It will be mostly sunny and dry throughout the week with a slight chance of showers and thunderstorms over the weekend.

In the last week, soil moisture monitoring station 2 showed 22.4% water available at 8", 35.4% water available at 18", and 20.8% water available at 36". The producer did not irrigate. Remember this is in a **Loam** soil type with **Wheat** 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 | | V2 | V4 | |
|---------------|-----------|------|------|--|
| Subarea I | Used | 0.11 | 0.2 | |
| | Projected | 0.13 | 0.23 | |
| Subarea II&VI | Used | 0.1 | 0.18 | |
| | Projected | 0.12 | 0.22 | |
| Subarea III | Used | 0.13 | 0.23 | |
| | Projected | 0.15 | 0.27 | |
| Subarea IV | Used | 0.18 | 0.32 | |
| | Projected | 0.2 | 0.36 | |
| Subarea V | Used | 0.15 | 0.27 | |
| | Projected | 0.17 | 0.31 | |

SOYBEANS

| ET | | VC | V1 | |
|---------------|-----------|------|------|--|
| Subarea I | Used | 0.11 | 0.22 | |
| | Projected | 0.13 | 0.26 | |
| Subarea II&VI | Used | 0.1 | 0.2 | |
| | Projected | 0.12 | 0.24 | |
| Subarea III | Used | 0.13 | 0.26 | |
| | Projected | 0.15 | 0.3 | |
| Subarea IV | Used | 0.18 | 0.36 | |
| | Projected | 0.2 | 0.4 | |
| Subarea V | Used | 0.15 | 0.3 | |
| | Projected | 0.17 | 0.34 | |

SUNFLOWERS

| ET | Early Vegetative | | |
|---------------|------------------|------|--|
| Subarea I | Used | 0.11 | |
| | Projected | 0.13 | |
| Subarea II&VI | Used | 0.1 | |
| | Projected | 0.12 | |
| Subarea III | Used | 0.13 | |
| | Projected | 0.15 | |
| Subarea IV | Used | 0.18 | |
| | Projected | 0.2 | |
| Subarea V | Used | 0.15 | |
| | Projected | 0.17 | |

WHEAT

| ET | | Jointing | Boot | Heading |
|---------------|-----------|----------|------|---------|
| Subarea I | Used | 1.13 | 1.21 | 1.21 |
| | Projected | 1.34 | 1.43 | 1.43 |
| Subarea II&VI | Used | 1.03 | 1.1 | 1.1 |
| | Projected | 1.24 | 1.32 | 1.32 |
| Subarea III | Used | 1.34 | 1.43 | 1.43 |
| | Projected | 1.55 | 1.65 | 1.65 |
| Subarea IV | Used | 1.85 | 1.98 | 1.98 |
| | Projected | 2.06 | 2.2 | 2.2 |
| Subarea V | Used | 1.55 | 1.65 | 1.65 |
| | Projected | 1.75 | 1.87 | 1.87 |

SUGAR BEETS

| ET | | Emergence | 10-30% Cover |
|---------------|-----------|-----------|--------------|
| Subarea I | Used | 0.11 | 0.15 |
| | Projected | 0.13 | 0.18 |
| Subarea II&VI | Used | 0.1 | 0.14 |
| | Projected | 0.12 | 0.17 |
| Subarea III | Used | 0.13 | 0.18 |
| | Projected | 0.15 | 0.21 |
| Subarea IV | Used | 0.18 | 0.25 |
| | Projected | 0.2 | 0.28 |
| Subarea V | Used | 0.15 | 0.21 |
| | Projected | 0.17 | 0.24 |

POTATOES

| ET | | Emergence | Vegetative | |
|---------------|-----------|-----------|------------|--|
| Subarea I | Used | 0.11 | 0.14 | |
| | Projected | 0.13 | 0.17 | |
| Subarea II&VI | Used | 0.1 | 0.13 | |
| | Projected | 0.12 | 0.16 | |
| Subarea III | Used | 0.13 | 0.17 | |
| | Projected | 0.15 | 0.2 | |
| Subarea IV | Used | 0.18 | 0.23 | |
| | Projected | 0.2 | 0.26 | |
| Subarea V | Used | 0.15 | 0.2 | |
| | Projected | 0.17 | 0.22 | |

DRY BEANS

| ET | | Emergence | | |
|---------------|-----------|-----------|--|--|
| Subarea I | Used | 0.07 | | |
| | Projected | 0.08 | | |
| Subarea II&VI | Used | 0.06 | | |
| | Projected | 0.07 | | |
| Subarea III | Used | 0.08 | | |
| | Projected | 0.09 | | |
| Subarea IV | Used | 0.11 | | |
| | Projected | 0.12 | | |
| Subarea V | Used | 0.09 | | |
| | Projected | 0.1 | | |

ALFALFA

| ET | | | |
|---------------|-----------|-----|--|
| Subarea I | Used | 1.1 | |
| | Projected | 1.3 | |
| Subarea II&VI | Used | 1 | |
| | Projected | 1.2 | |
| Subarea III | Used | 1.3 | |
| | Projected | 1.5 | |
| Subarea IV | Used | 1.8 | |
| | Projected | 2 | |
| Subarea V | Used | 1.5 | |
| | Projected | 1.7 | |

GRASS

| ET | | | |
|---------------|-----------|-----|--|
| Subarea I | Used | 0.8 | |
| | Projected | 1 | |
| Subarea II&VI | Used | 0.8 | |
| | Projected | 1 | |
| Subarea III | Used | 0.8 | |
| | Projected | 1 | |
| Subarea IV | Used | 0.8 | |
| | Projected | 1 | |
| Subarea V | Used | 0.8 | |
| | Projected | 1 | |

UNWNRD Subarea Map

