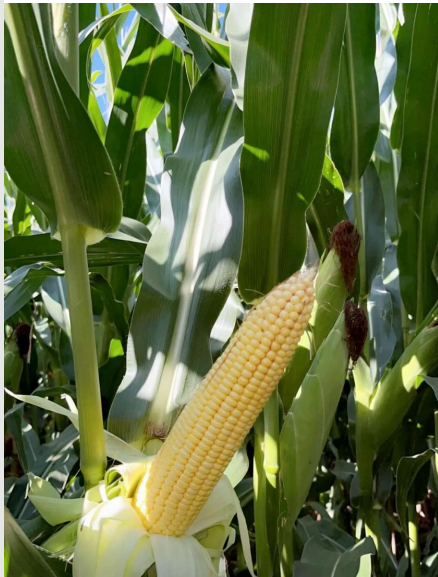




## Corn Water Use

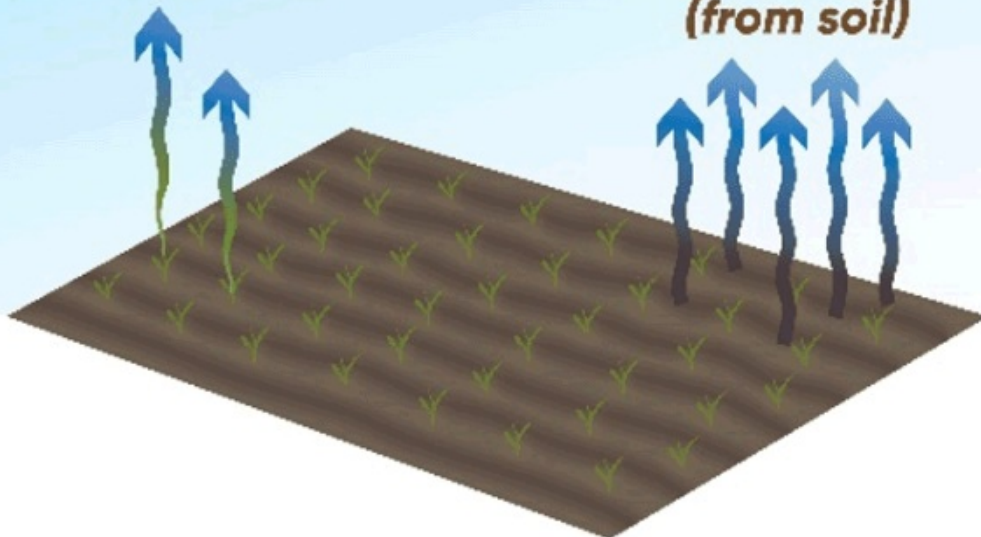


- [Corn Water Use - Pioneer Article](#)
- [NDSU Crop & Pest Report](#)

### Early in Growing Season

**Less Transpiration  
(from plants)**

**More Evaporation  
(from soil)**

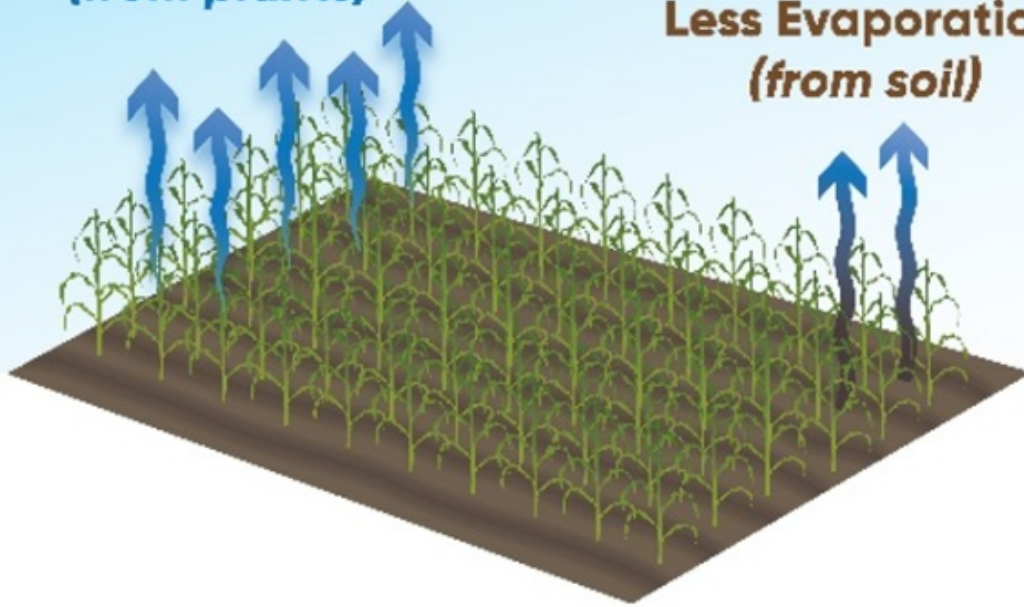


Early in the growing season, more water leaves the soil through evaporation compared to the small amount transpired by the small plants.

## Mid Growing Season

**More Transpiration**  
*(from plants)*

**Less Evaporation**  
*(from soil)*



By mid-season, leaf area is much larger than the exposed soil surface and transpiration accounts for 90 to 98% of ET.



Table 1. Average daily corn water use (ETc), water use per growth stage, and cumulative water use over the course of the growth season.

Growth Stage	Daily Water Use Rate	Water Use Per Stage	Cumulative Water Use
Emergence (VE)	0.08	0.8	0.8
4-leaf (V4)	0.10	1.8	2.6
8-leaf (V8)	0.18	2.9	5.5
12-leaf	0.26	1.8	7.3
Early tassel (R1)	0.32	3.8	11.1
Silking (R2)	0.35	4.1	15.2
Blister Kernel (R3)	0.32	1.9	17.1
Beginning Dent (R4.7)	0.24	3.8	20.9
Full Dent (R5.5)	0.20	3.8	24.7
Maturity (R6)	0.10	1.4	26.1

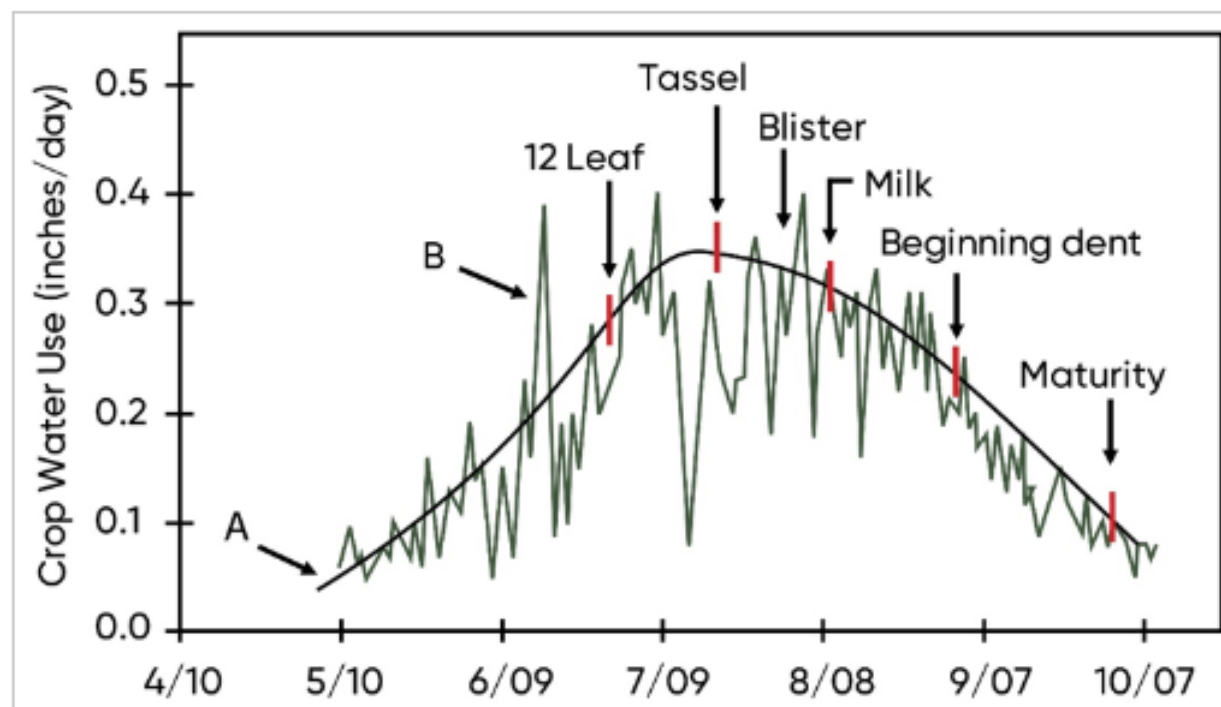


Figure 1. Long-term daily average (black line) and individual year (green line) corn water use by growth stage (Kranz et al., 2008).

## 2022 Plot Locations





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