

Table 1. 2021 Experimental conditions and culture.

Conditions			Culture	Corn	Soybean
Location			Dates		
	42.811667		Planting	5/11	5/11
	-88.4875		Variety	Renk	Renk
Soil Test	April 2021			RK710DGV2P	G2550E
pH:	6.8		Rate (k/acre)	32.1	202
OM (%):	1.9				
P (ppm):	49		Emergence	5/20	5/20
K (ppm):	99				
S (ppm):	2.5		Stand Counts		
			3 Day	5/23	5/23
Precipitation (in)			6 Day	5/26	
Month	2021	Mean ⁽¹⁾	30 Day	6/12	6/12
Apr.	1.15	3.39			
May	2.55	4.08	Shear test	5/26	
June	2.68	4.94			
July	1.01	3.79	Tissue sampling	7/19	7/19
Aug	2.77	3.54			
Sept.	0.58	3.49	Harvest	10/9	9/30
Season total	10.74	23.23			
2021, % of long-term	46.2		Applications		
30-day post-planting rainfall events			Gypsum	at planting	
5/15		0.22	Full rate (lb/a)	70	55
5/18		0.23	Half rate (lb/a)	35	28
5/19		0.02			
5/21		0.37	Starter fertilizer	at planting	
5/22		0.04	Actual nutrient (lb/a)	3.3 - 4 - 8 - 3.4	
5/27		0.35			
6/11		0.44	Sulfur (tmt 4)	5/24	5/24
			0-0-0-90, lb S/a	50	
GDD Accumulation ⁽²⁾			Nitrogen	5/26	
Month	2021	Mean	32-0-0, lb N/a	127	
Apr.	90	60			
May	300	236	Preemergence herbicide	5/17	5/17
June	681	509			
July	736	708			
Aug	797	681			
Sept.	558	449			
Season total	3,162	2,643			
2021, % of long-term	119.6		Post emergence herbicide		7/2
					glyphosate
					2,4-D choline

⁽¹⁾ 20-year mean, 2000-2019.

⁽²⁾ Growing Degree Day, Base 50, NOAA National Weather Service, Sullivan, WI.

<https://www.weather.gov/wrh/Climate?wfo=mkx>

(accessed 1/30/2022).