# **Soybean Date of Planting by Variety Trial**

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### **Objective**

Determine the effects of maturity selectin (varieties) and date of planting on soybean yields to define best management practices.

## **Materials and Methods**

#### Crop Year–2021

Soil Type: Galva	Canisteo			
Previous Crop	Corn			
Variety	P18T91E, P20T64E, P22T18E, P22T86E, and P26T23E			
Planting Date	April 23, May 5, May 19, June 5			
Row Spacing	30-in.			
Seeding Rate	140,000 seeds/acre			
Tillage	Soil Finisher: April 16			
Fertilizer	optimum to high soil test			
Harvest Date	October 9			
Experimental Design	Randomized complete block design by corn brand			
Replications	Four			
Treatments Variety: P18T91E, P20T64E, P22T18E, P22T86E, P26 Planting date: April 23, May 5, May 19, June 5				

### Results

Table 1. Soybean grain yields for date of planting and variety main effects.<sup>a</sup>

	Planting Date				
	23-Apr	5-May	19-May	4-Jun	
Variety	soyb	ean yield (	Variety Mean		
P18T91E	39.1	39.1	38.6	39.9	39.2
P20T64E	40.4	40.9	39.7	39.8	40.2
P22T18E	36.2	38.0	37.1	37.3	37.2
P22T86E	36.6	38.2	37.3	38.4	37.6
P26T23E	41.7	41.1	41.8	39.5	41.0
	P = 0.9248				P < 0.0001
Planting Date Mean	38.8	39.5	38.9	39.0	
	P = 0.8075				

# Key Takeaways

- The main interaction of soybean variety was highly significant where P20T64E and P26T23E (2.0 and 2.6 maturity group) were higher yielding than P22T18E and P22T86E (both 2.2 maturity group).
- There was no date of planting main effect or date of planting x variety interaction effect.
- Yield levels were lower due to drought conditions throughout the early to middle part of the growing season.

## **Acknowledgements**

This project would not have been possible without the seed donations from Corteva.