

# Planting Date Impact on Soybean Performance, Wishek

Greg Endres, Tim Indergaard, Kelsie Egeland, Sheldon Gerhardt, and Crystal Schaunaman

A field trial was conducted by the NDSU Carrington Research Extension Center at the Tri-county off-station research site near Wishek to examine the performance of soybean planted mid and late May with varieties of contrasting maturity groups. Experimental design was a randomized complete block with split-plot arrangement (whole plot = planting date and split plot = varieties with 0.2 and 0.8 maturity groups) and with four replications. Inoculated and fungicide-treated Mycogen ‘5B024R2’ and ‘5B080R2’ were planted in wheat stubble in 7-inch rows on May 13 and May 22. Seed was harvested with a plot combine on October 20.

Averaged across varieties, a denser stand occurred with the later planting date (Table). Grain yield was similar between planting dates but tended to be higher with the later date. Other seed factors were similar between planting dates. Across planting dates, the later maturing variety had a denser plant stand and yield advantage of 6.7 bu/A (15%) compared to the early maturing variety. Statistically significant differences occurred with seed oil and protein with the interaction of planting date and varieties.

Treatment	Plant Stand (June 17) plt/A	Seed				
		Yield bu/A	Test Weight	Number/lb	Oil	Protein
	lb/bu		%			
<b>Planting Date:</b>						
May 13	109,610	41.0	56.3	2795	15.7	35.2
May 22	143,775	44.2	56.4	2760	15.7	35.1
LSD (0.05)	17,540	NS	NS	NS	NS	NS
<b>Maturity Group (Variety):</b>						
0.2 (5B024R2)	113,170	39.3	56.2	2300	16.0	35.7
0.8 (5B080R2)	140,220	46.0	56.5	3255	15.5	34.6
LSD (0.05)	17,540	6.1	NS	50	NS	0.3
<b>Planting Date x Maturity Group:</b>						
May 13 x 0.2	99,645	36.6	56.1	2315	16.0	36.0
May 22 x 0.2	126,695	42.0	56.3	2285	16.0	35.3
May 13 x 0.8	119,575	45.5	56.5	3275	15.5	34.3
May 22 x 0.8	160,860	46.5	56.5	3235	15.4	34.9
LSD (0.05)	NS	NS	NS	NS	0.3	0.5
Mean	126,695	42.6	56.3	2780	15.7	35.2
C.V. %	13.5	9.4	0.4	1.8	1.7	1.0