Planting date impact on soybean performance, Wishek, 2010.

(Greg Endres and Tim Indergaard)

A field study was conducted by the NDSU Carrington Research Extension Center at the Tri-county off-station trial site near Wishek to examine the performance of soybean planted at early and normal dates. Experimental design was a randomized complete block with four replications. Inoculated Dairyland Seed '0401' Roundup Ready soybean was direct -planted in wheat stubble at 175,000 pls/A in 7-inch rows on April 30 and May 21. On April 30, soil temperatures at 4-inch depth were <50 F 19 of 24 hours after planting with low temperatures reaching 41 F (NDAWN). Soil temperatures were ≥57 F during 24 hours after planting on May 21. Plant stand counts were taken on June 9. Seed was harvested with a plot combine on September 30.

Soybean plant, seed yield and size, and test weight were statistically similar among planting dates (Table). However, plant stand and yield tended to be higher with the early planting date. This is contrary to expected outcome considering the cool soil temperatures with the early planting date that potentially could have injured the soybean seed during initial germination.

Table.

Planting date	Plant stand	Seed yield	Test weight	Seeds/lb
	plt/A	lb/A	lb/bu	
30-Apr	104165	41.2	57.0	3557
21-May	66285	25.4	57.3	3456
mean	85225	33.3	57.1	3507
CV (%)	33.9	41.5	0.8	3.9
LSD (0.05)	NS	NS	NS	NS