

GILES, JOSEPH F*, ALLAN W. CATTANACH, and NORMAN R. CATTANACH, Department of Soil Science, North Dakota State Univ., P.O. Box 5638, Walster Hall, Fargo, ND 58105. Sugarbeet plant stand establishment and sugar production using Deere MaxEmerge 2 planter attachments.

Placement of sugarbeet seed within the row can be a factor in sugar production. In recent years, numerous modifications and attachments for the Deere MaxEmerge 2 planter have appeared in the market. A field study was initiated with the primary objective of determining the performance from these modifications and attachments in seed placement accuracy and the effect on sugarbeet stand establishment and sugar production. Seed tube configuration, seed furrow attachment and closing wheel design had a significant effect on stand establishment, root yield and extractable sucrose.