POINDEXTER, STEVEN S.*, THOMAS J. WENZEL, Michigan State University Extension, One Tuscola Street, Suite #100A, Saginaw, MI 48607**. Field evaluations of Clariva™pn seed treatment on beet yield and sugarbeet cyst nematode.**

Research was conducted in 2014, 2015 and 2016 to evaluate the effect of Clariva™pn seed treatment on beet yield and sugarbeet cyst nematode (SBCN) population. Six replicated strip trials were conducted in commercial sugarbeet fields that are known to have SBCN. A commercial nematode tolerant and susceptible variety treated with and without Clariva seed treatment were used at each location. Nematode samples were taken in late summer between sugarbeet plants in two fifty foot rows per replication. All seed treatments were commercially applied.

Visual observations in all three trial years did not show any difference in growth, coloration or wilting when comparing Clariva treated treatments to the untreated check of the same variety. Nematode susceptible varieties showed more wilt during hot periods as compared to tolerant varieties. Yield and quality results in four trials with significant nematodes conducted in 2014/15 did not show any significant difference (LSD 5%) when comparing treated versus untreated of the same variety. Yields for the nematode susceptible variety with Clariva averaged 34.4 tons/acre compared to the susceptible check at 34.7 tons/acre. The average of the nematode tolerant varieties with Clariva yielded 36.3 tons/acre compared to the tolerant check of 35.6 tons/acre. Clariva treated seed with any variety did not significantly reduce nematode populations compared to check. Research data from two trials conducted in 2016 is pending.