

FIELD EXPERIMENT HISTORY

Year: 2020

Expt. No. 2020-181
Expt. Title: M-E: Micro-Energy corn plant health trial
Personnel: T.S. Maloney, T.M. Maloney and M. Nash
Location: Lein Farm, Whitewater, WI
Supported by: Agri-Tech Consulting and Micro-Energy N42.892034 W-88.746199

FIELD INFORMATION

Field: LF-2C
Soil type: Matherton silt loam
Soil Test Results: 05/01/2020 pH: 6.8 P: 44 ppm K: 145 ppm O.M. 3.3 % CEC = 20.9
Ca = 3885 ppm, Mg = 896 ppm, S = 3.4 ppm, B = 0.6 ppm, Mn = 24 ppm, Zn = 4.3 ppm
Fertilizer Applied: 250 lb/acre 46-0-0 applied April 25, 2020
90 lb/acre 11-52-0 + 200 lb/acre 0-0-62 applied April 25, 2020
16 gal/acre 32-0-0 applied June 18, 2020 as topdress
Tillage Operations: Fall chisel plowed, spring field cultivate to incorporate fertilizer and level field for planting
Previous Crop: Soybean
Previous Herbicide: Boundary fb FlexStar GT and Select Max
Irrigation: None

EXPERIMENTAL PROCEDURE

Exp. Design: RCB 1 factor
Replicates: 4
Variables: Factor A: Corn health treatment (4 treatments)
Plot Size: 10' x 50' plots = 0.011 acres Four 30" rows
Row Spacing: 30"
Cultivar: DSR 9804
Planting: Date: 8-May-20
Equipment: SRES 4-row precision vacuum planter
Rate: 35,000 seeds per acre
Depth: 2.5"
Other data obtained: Stand density, vigor, lodging, grain yield and moisture, test weight
Harvesting: Date: 12-Nov-20
Equipment: Case-IH 2144 plot combine with HarvestMaster HCGG and Allegro components
Pesticides

	<u>Material</u>	<u>Rate</u>	<u>Method</u>	<u>Date</u>
	Accuron	1.5 pt	pre emergence	10-May-20
	Atrazine	1.0 lb	pre emergence	10-May-20
	Halex GT	4.0 pt	post emergence	20-Jun-20
	Roundup WeatherMax	8.0 oz	post emergence	20-Jun-20

Results: Table 181