RESEARCH UPDATE: MLC CORN

TRIAL DETAILS

LOCATION
Quantico, MD

COOPERATOR
Mulford Agronomics

CORN VARIETY
DEKALB(VT2PRIB) - RM 112 Day

AVG. SEED RATE
34,500

PLANT DATE
May 10, 2021

HARVEST DATE
October 19, 2021

TRIAL DESCRIPTION AND EXPERIMENTAL DESIGN

This field trial was replicated 4 times and arranged in a randomized complete block design. Soil type is a Mattapeake Silt Loam.

TREATMENTS

Treatment	Rate	Application	Rows	Plot Size	Reps
MLC	1 qt/A	In-furrow	9	30ft x 100 ft	4
MLC	2 qt/A	In-furrow	9	30ft x 100 ft	4
MLC	4 qt/A	In-furrow	9	30ft x 100 ft	4
Control	--	--	9	30ft x 100 ft	4

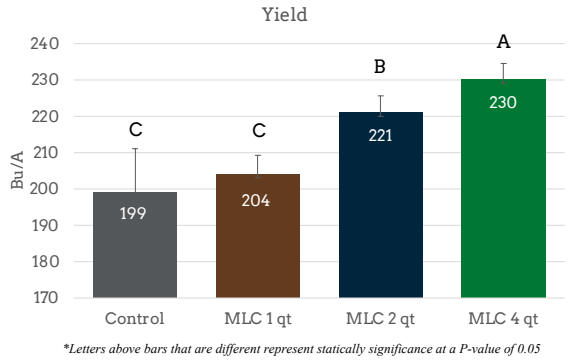
MAINTENANCE

All plots received an herbicide application on 4/30/2021 of 10 gal water + 1 pt 2, 4-D Ester + 1.25 pts Dual + 28 oz of Roundup up to 24 gal with water. Postemergence herbicide was applied on 5/26/21 at V4, with 10 gal water + 2.5 qts/A Harness Extra + 24 oz Roundup up to 24 gal. All plots received a pre-plant broadcast dry fertilizer application of 125 lb/A 0-0-60 + 58 lbs/A of 11-52-0 + 65 lbs/A urea coated with 2 lbs/ton equivalent of Excelis Maxx. 5/10/21: In-row starter of 4.5 gal/A 11-37-0 + 0.5 lb/A Zn from 1 qt/A 9% EDTA Zinc up to 9 gal/A water. Growth Stage V6: dribble sidedress between corn rows, 38.5 gal/A 30%UAN (125 lbs N/A).

TRIAL RESULTS SUMMARY

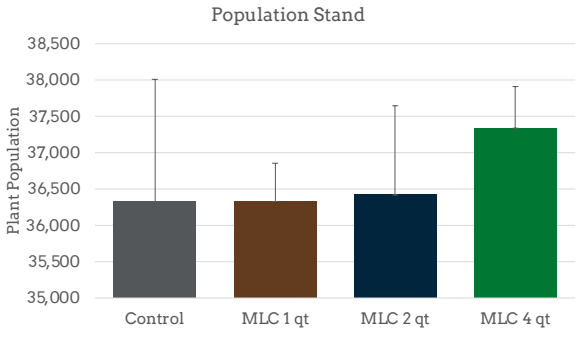
Monty's Liquid Carbon (MLC) significantly increased yield, as well as increased stand population and ROI compared to the control plots. Yield was significantly increased at 2 and 4 qt/A application rate with highest yield and ROI achieved at 4 qt/A rate increasing yield 31 bu/A. An average ROI of $93.49/A was achieved from 1-4 qt/A application of MLC in-furrow. At both the 2 and 4 qt/A rate stand population was increased.

A



*Letters above bars that are different represent statically significance at a P-value of 0.05

B



Treatment	ROI/Control per Acre*
MLC 4 qt/A	$148.60
MLC 2 qt/A	$109.73
MLC 1 qt/A	$22.16

*Calculated at $5.45 Bu/A