MONTY'S RESEARCH UPDATE: CORN

TRIAL DETAILS

LOCATION Shelbyville, Ky

COOPERATOR Monty's Plant Food **PLANT DATE** April 27, 2021 HARVEST DATE October 8, 2021

TRIAL DESCRIPTION AND EXPERIMENTAL DESIGN

This field trial was replicated 3 times and arranged in a strip plot design. Soil properties: pH: 5.6, OM: 2.3, CEC: 12.8%, BS-K: 2.9%, BS-Mg: 6.9%, BS-Ca: 55.9%, BS-H: 33.7%, BS-Na: 0.38%.

TREATMENTS

| Treatment | Rate* | Application | Row Spacing | Plot Size | Reps |
|-----------|--------|-------------|--------------------|---------------|------|
| MLC + | 2 qt/A | Broadcast | | | |
| AgriSweet | 2 qt/A | | 30 in | 40ft x 400 ft | 3 |
| Midnight | 1 qt/A | Foliar (V5) | | | |
| Control | | | 30 in | 40ft x 400 ft | 3 |

APPLICATION

The treated plots received 2 qt/A of Monty's Liquid Carbon (MLC) and Agri-Sweet broadcast pre-plant at burndown. At V6, 1 qt/A of Midnight was sprayed foliar.

TRIAL RESULTS SUMMARY

The Monty's treatment had greater yield with 4.78 bu/a more compared to the control. Broadcast application of MLC and Agri-Sweet significantly increased P, K, and Mg tissue levels by V2-V3 stage of corn (Fig. 2). Within 30 DPA, a significant increase in soil P and Mg were measured due to the Monty's treatment (Fig. 3). At harvest, the Monty's program significantly increased soil OM (Fig. 4). An average ROI of \$4.75/A was achieved from this program.

RESULTS

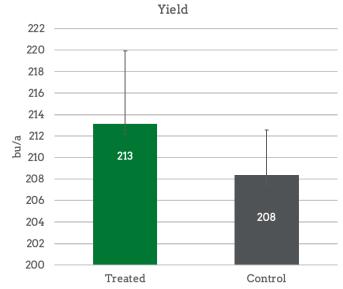


Figure 1. Average yield in Bu/A and ROI calculated at \$5.45 bu.

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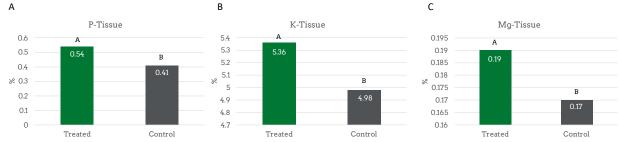


Figure 2. Tissue levels of (**A**) P, (**B**) K, and (**C**) 30 days after MLC + Agri-Sweet broadcast application. Letters above bars that are different represent statical significance at a p-value of 0.10.

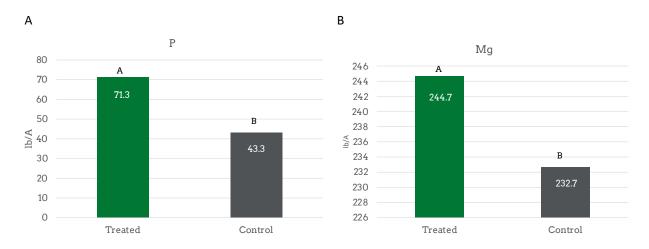


Figure 3. Soil levels of (**A**) P and (**B**) Mg in lb/A 30 days after MLC + Agri-Sweet broadcast application. Letters above bars that are different represent statical significance at a p-value of 0.10.

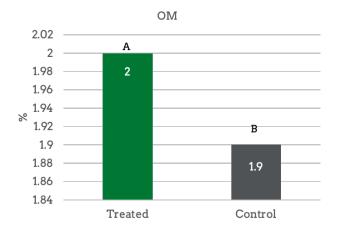


Figure 4. Soil organic matter (OM) at harvest. Letters above bars that are different represent statical significance at a p-value of 0.10.