

ON-FARM TRIAL RESEARCH INSTRUCTIONS

PURPOSE

Conduct an on-farm trial to demonstrate the value of MicroEssentials® vs. conventional fertilizer products (i.e., MAP, DAP, AS). Listed below are guidelines for product application and yield collection, including pre- and post-actions needed for proper data collection.

- 1 Site Selection**—Select a field that is relatively uniform in terms of soil type, terrain, drainage, cropping history and fertility. Note: Avoid fields with a history of manure applications.
- 2 Soil Samples**—Collect soil samples and analyze for pH, OM, CEC, N, P, K, S, Zn and B prior to fertilizer application.
- 3 Fertilizer Application**—Apply a conventional fertilizer product at a flat rate on half of the field. On the other half, replace the phosphate source with MicroEssentials. Make sure the lbs/ac of actual N, P₂O₅ and K₂O remain the same in both treatments.
- 4 As-applied File**—Gather as-applied file if available. Save to data card and submit to precision ag coordinator.
- 5 Planting**—Plant the entire trial area using the same hybrid/variety and planting rate.
- 6 Management Practices**—Manage and apply insecticide and fungicide as needed. Apply the same rate across entire trial area.
- 7 Yield Data**—Record yield for each treatment area using weigh wagon, grain cart scales or calibrated yield monitor.
- 8 Submit Data**—Submit data using the Mosaic data submission form and send to the Mosaic Technical Sales Manager in your area.

**MAXIMIZE YOUR YIELD
POTENTIAL — AND YOUR PROFITS.**

By providing the right ratio of nutrients at the right time, MicroEssentials® fertilizer enables uniform nutrient distribution, increased nutrient uptake and season-long sulfur availability across the field. Three distinct formulas are tailored to meet soil conditions and crop needs to maximize your crops' yield potential.

ONE POWERFUL GRANULE.

Our proprietary Fusion technology creates the ideal balance of nitrogen, phosphorus, sulfur and zinc (MicroEssentials® SZ™). All four nutrients are fused into one nutritionally balanced granule, providing a season-long boost in soil fertility.

THE PROOF IS IN THE DIRT.

Backed by over a decade of results, MicroEssentials has proven its effectiveness across a variety of crops and soil conditions. You can be confident that MicroEssentials delivers the optimum performance you expect from a premium product by The Mosaic Company.

EXAMPLE SIDE-BY-SIDE TRIAL



Contact your Mosaic Technical Sales Manager for alternative trial designs.

> For more information, visit MicroEssentials.com
or contact your Mosaic Technical Sales Manager.

