

Poly4 Sulfur Alternative

Objective

Evaluate the effect of Poly4 polyhalite as an alternative source of sulfur fertilizer

***Fertilizer application and yield maps are required for this trial.**

Field Selection

- Recent soil test within the last 2 years
- K preferably below 120 ppm
- No recent MESZ or elemental sulfur applications within the last 3-5 years

Treatments

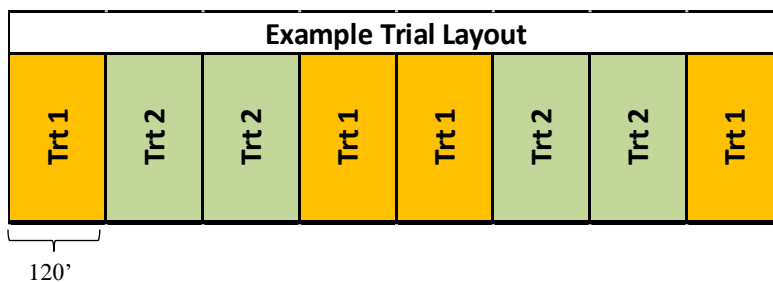
Control Producer's standard fertilizer blend of NPK + 10 units sulfur as AMS or MESZ

Treatment Grower's NPK blend + 10 units S as Poly4 as the S source, balanced for N and K content

- 10 units S as Poly4 ~ 53 lbs product

Plot size: Strips should be wide enough to harvest one combine pass **without sprayer tracks**, and at least 750-1000 ft long.

Replications: Four replications of each treatment (8 plots total) is preferred. Three replications (6 plots total) may be acceptable if field size cannot accommodate 8 plots.



Please notify the Research Coordinator or your coordinating agronomist before planting and harvest so they assist with the trial

Harvest

- Yield monitor must be calibrated prior to harvesting the trial
- Yield should also be measured using one of MN Wheat's weigh wagons to record yield and obtain protein samples
 - MN Wheat Staff will be available with the weigh wagon to assist with harvest
- OR
- Yield can be measured in the producer's grain cart with a calibrated scale
 - Protein samples will need to be collected as the combine empties each plot into the grain cart
- Combine passes **MUST** avoid sprayer tracks and down-outs

Data MN Wheat will Collect

- Application and yield maps are required
- Precipitation and other weather data.
- Grain yield, moisture, test weight, protein

Producer Report

- Participants will receive a preliminary statistical analysis of all harvested trials as soon as all trials are harvested, and the data can be analyzed by MN Wheat.
- Participants will receive a pdf copy of the annual On-Farm Research Report following the annual On-Farm Research Summit (paper copies can be mailed upon request).
- Participants are eligible for one free night at the CanadInn during the Prairie Grains conference in December in Grand Forks, ND, if they plan to attend MN Wheat's annual On-Farm Research Summit.

Data Use

- According to MN Wheat's data use and privacy policy, trial data will be included anonymously in the annual On-Farm Research Report booklet, shared at MN Wheat's annual On-Farm Research Summit in December, and posted on-line on MN Wheat's On-Farm Research Network homepage at the link below.

Compensation

Producers will be compensated \$1500 + Poly4 fertilizer supplied by Anglo American, up to 3 tons per trial.