Producer's Cooperative Association in Partnership with Landus Cooperative

Sul4r-Plus: 21% Calcium (Ca), 17% Sulfur (S) Dry Fertilizer

Product Overview

Sulfur is essential for many plant metabolic processes including protein synthesis, amino acid formation, photosynthesis, nitrogen utilization, and nodule formation in legumes, specifically soybeans. With a low salt source of sulfur and calcium, fulvic acid content (6-8%) to improve soil health, and improved mineralization of organic matter and nitrogen fixation, Sul4r Plus is the primary choice for secondary nutrients.

PCA's Trial

Producer's Cooperative Association is currently conducting a soybean field trial in Southeast Kansas, comparing traditional Ammonium Sulfate (AMS) vs. Sul4r-Plus. Using our Growers Standard Practice (GSP) of 50lbs Ammonium Sulfate (AMS), a 22.75 acre field had fertilizer applied, broadcasted, on April 22nd with 50lbs of AMS, 100lbs of DAP, and 100lbs of Potash. On the same day, a 20.84 acre field was broadcast applied with 70lbs of Sul4r-Plus, 100lbs of DAP, and 100lbs of Potash. We used 70lbs of Sul4r Plus (11.9lbs Sulfate) to equal our GSP of 50lbs AMS (12lbs Sulfate). The beans were then planted two days later. Throughout the trial, our team has tracked vegetative growth staging, inflorescence, and bean production in the later reproductive stages. Six plants were randomly pulled throughout both fields, and data collection was taken. We believe this could be a great alternative as a replacement for traditional AMS.

Trial Data

FERTILIZER TYPE	VIABLE PODS/PLANT	VIABLE BEANS/PLANT	AVERAGE BEANS/POD	BEAN SIZE (G)
AMS	41	99	2.4	18.7
AMS	46	107	2.3	20.4
AMS	47	111	2.4	20.1
AMS	77	163	2.1	33.3
AMS	79	164	2.1	32.0
AMS	92	201	2.2	41.0
AMS AVERAGES	**63.67**	**140.83**	**2.2**	**27.58**
SUL4R PLUS	70	150	2.1	25.2
SUL4R PLUS	123	295	2.4	60.3
SUL4R PLUS	136	316	2.3	67.2
SUL4R PLUS	137	296	2.2	73.1
SUL4R PLUS	141	329	2.3	68.9
SUL4R PLUS	250	578	2.5	128.1
SUL4R PLUS AVERAGES	**142.83**	**327.33**	**2.3**	**70.47**