



17% Sulfate Sulfur 21% Soluble Calcium

	AMS	SUL4R-PLUS®
<u>Key Comparisons</u>		
Provides available calcium to reduce disease	No	Yes
Low salt index	No	Yes
Sustained release for over 60 days	No	Yes
Does not acidify soils	No	Yes
Does not add N to crops that don't need it	No	Yes
Lowest cost per day sulfur source	No	Yes
<u>Conclusion</u>		
Ideal source of sulfur and calcium for potatoes	No	Yes

Why SUL4R-PLUS® Fertilizer?

- Good source of plant-available forms of sulfate sulfur and soluble calcium.
- Plant safe (salt index of 5) and immediately available as compared to **AMS which is very salty** (salt index of 88.3).
- Provides the best seasonally sustained release of sulfate and calcium.
- Most economical form of plant-available sulfate combined with essential calcium.
- Potato application program: **100 lbs. per acre** preplant through tuber initiation.

Some Basics on Sulfur:

- Because of reduced air pollution, more sulfur fertilizer application is needed for most crops.
- Like nitrogen, sulfur has multiple forms that change in the soil.
- The sulfate form is the form utilized by plants and like nitrate is easily leached.
- SUL4R-PLUS fertilizer sustainably releases the sulfate form proven to match the pattern of crop uptake of most crops.

Some Basics on Calcium:

- Calcium has the third highest nutrient uptake amount behind only nitrogen and potassium.
- Calcium is essential for healthy growing vegetation and when limited, increased quality disorders such as internal brown spot and hollow heart can occur.
- Calcium must be in a plant available form for plant uptake and soil testing has many limitations estimating how much and when their will be adequate calcium in an available form.
- SUL4R-PLUS fertilizer sustainably releases plant available calcium throughout the season.



2019 Field Trial – Idaho Rexburg



Yield increase of 32 cwt using SUL4R-PLUS fertilizer.

2019 Field Trial - Idaho Russet Burbank

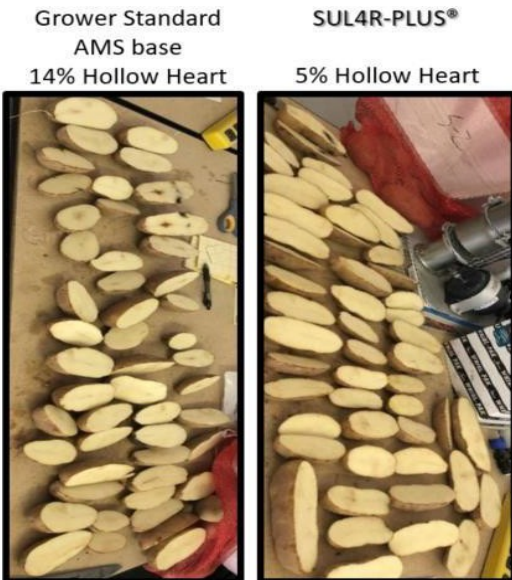


Yield increase of 22 cwt using SUL4R-PLUS fertilizer.

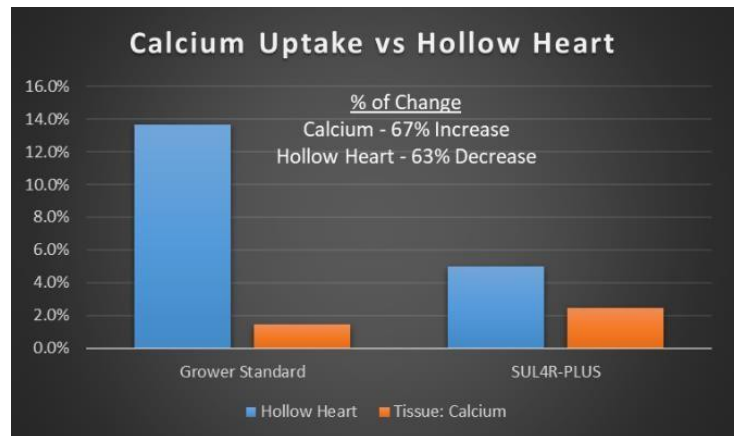
It's not just the yield that is important.

Plant nutrition affects plant health and that affects both yield and quality. Calcium has been directly linked with problems like hollow heart in potatoes. The data below is from the same trial shown in the upper right.

2019 Field Trial - Idaho Russet Burbank



Yield increase of 22 cwt using SUL4R-PLUS fertilizer. 2/3 reduction of Hollow Heart of 9% using SUL4R-PLUS fertilizer.



The difference in hollow heart was similar to the difference measured in the tissue calcium concentration.