

## OPTIMIZED EFFICIENCY FOR MAXIMIZED COTTON YIELD

Boosting nitrogen use efficiency (NUE) is crucial for maximizing cotton yield and mitigating stress.

Efficient nutrient uptake supports vegetative growth, photosynthesis and root strength, which leads to resilience during adverse conditions triggered by heat, drought and salinity. Improved NUE boosts plant health and yield potential, while promoting a sustainable cotton crop.



Sycon helps create a plant that wants to continue to create. Its unique nutritional complex of six metabolites helps cotton thrive. It improves nitrogen use efficiency by aiding enzymes that convert nitrates to ammonium  $[\text{NH}_4]^+$  and then to essential amino acids for yield production. It links plant nutrition, water use, and energy production to reduce the effects of environmental stressors and boost overall crop vitality.



Enhances Nutrient Use Efficiency



Creates Nutritional Balance



Increases Chlorophyll Content

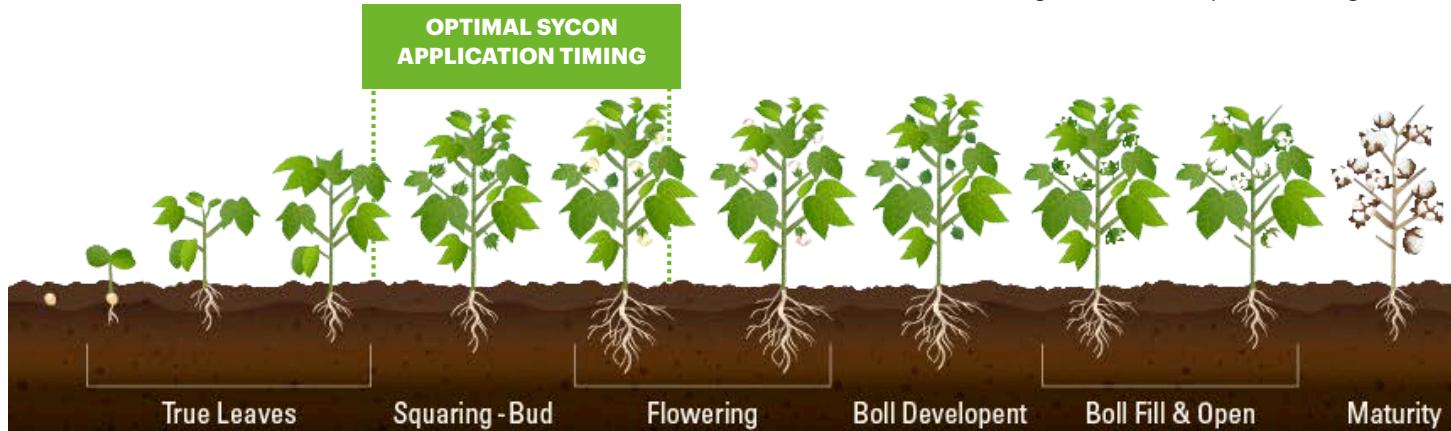


Promotes Yield Development

### EFFECTS ON THE PLANT

Sycon is a unique formulation of **proprietary bio-stimulants, potassium, sulfur, nitrogen, manganese and zinc**. HELM's genomic research has revealed Sycon enhances cotton and other crops by:

- Optimizing photosynthesis and sugar metabolism to increase square and boll retention
- Increasing potassium and sulfur uptake and utilization, which leads to efficient water use during heat and drought stress
- Elevating  $\text{CO}_2$  acquisition for more robust vegetative and reproductive growth





## SYCON BENEFITS

- Studies show increased yields in programs with this technology across a variety of crops
- Works across all growing environments and conditions through multiple active ingredients
- Excellent tank mix partner with easy-to-use formulation that allows for safe handling and application
- Highly compatible in a tank mix with a low use rate
- Distinguished crop and environmental safety profile

## PRODUCT SPECIFICATIONS

<b>Brand Name</b>	<b>Sycon</b>
<b>Category</b>	Bio-stimulant and nutritional (crop development and defense)
<b>Active Ingredient</b>	Complex of nutrients and proprietary plant metabolites
<b>Crops</b>	All
<b>Formulation</b>	Liquid solution
<b>Packaging</b>	2x2.5 gal 264-gal tote
<b>Applications</b>	
Corn	V3 - V5 and/or VT - R1
Wheat	Feekes 4 - Feekes 7 and/or Feekes 10.1 - Feekes 10.5
Soybeans	V2 - V4 and/or R1 - R3
Cotton	Pinhead Square - First Bloom
<b>Rate</b>	Recommended at 22 fl oz/A

**Sycon utilizes multiple avenues to achieve three main effects.**

### Nutrient Use Efficiency

Improved nitrogen use efficiency results in increased uptake and assimilation into amino acids and proteins.

### Energy

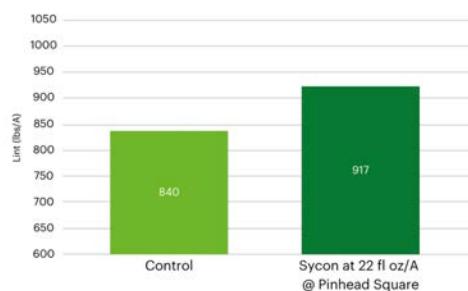
Greater CO<sub>2</sub> uptake and elevated photosynthetic activity increases available energy.

### Vitality

Metabolites affect and regulate the plant's immune response to biotic and abiotic stressors.

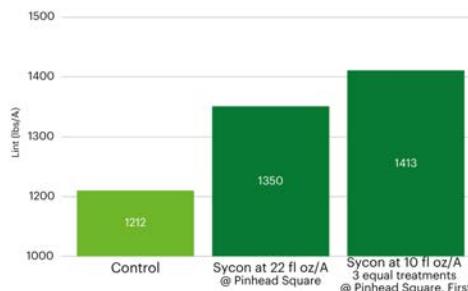
## W. TEXAS TRIAL RESULTS '23

Plainview, Texas 2023; 6 replications



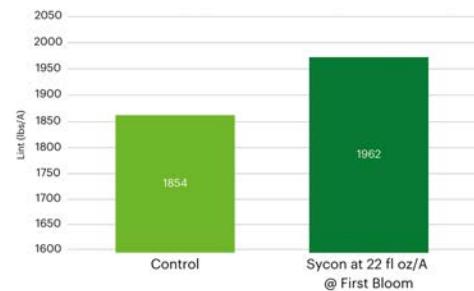
## W. TEXAS TRIAL RESULTS '24

Plainview, Texas 2024; 6 replications



## N. CAROLINA TRIAL RESULTS

Tidewater Region, North Carolina 2024; 6 replications



## CROP SOLUTIONS

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