



## FOR INCREASING PLANT YIELDS AND VITALITY

Sycon combines six natural metabolites in a potassium complex to activate plants' internal pathways for optimal growth, stress tolerance and yield potential. By improving nutrient use efficiency (NUE), Sycon strengthens the link between nutrition, water use and energy production—boosting overall crop vitality.

From early development, Sycon helps plants unlock their genetic yield potential. Supported by HELM's nutrigenomic research, it boosts nutrient-to-protein conversion to create a strong foundation for vigorous growth and high productivity.



*+17% increase in number of kernels vs. UTC*



### SCIENCE EXPLAINED

- Includes a unique formulation of **proprietary bio-stimulants, potassium, sulfur, nitrogen, manganese and zinc**
- Strengthens defense mechanisms to help plants mount a natural, comprehensive immune response against the threat of biotic and abiotic stressors

### EFFECTS ON THE PLANT

- Improves nitrogen use efficiency by supporting nitrate and nitrite reductase enzymes, converting nitrates taken up by the plant into ammonium  $[\text{NH}_4]^+$ , and further helping turn  $[\text{NH}_4]^+$  into essential amino acids for higher yields
- Elevates  $\text{CO}_2$  acquisition and photosynthetic activity to benefit nutrient use, water use and stress mitigation
- Maximizes plant growth in any environmental condition





<b>REI</b>	None
<b>PHI</b>	None
<b>Restricted Use</b>	No
<b>Packaging</b>	2x2.5 gal 264-gal tote
<b>OMRI Listed</b>	No

## 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 crop defense)								
<b>Active Ingredient</b>	Complex of nutrients and proprietary plant metabolites								
<b>Crops</b>	All								
<b>Formulation</b>	Liquid solution								
<b>AI/Gallon</b>	2.83 lb a.i./gal								
<b>Applications</b>	<table> <tr><td>Corn</td><td>V3 - V5 and/or VT - R1</td></tr> <tr><td>Wheat</td><td>Feekes 4 - Feekes 7 and/or Feekes 10.1 - Feekes 10.5</td></tr> <tr><td>Soybeans</td><td>V2 - V4 and/or R1 - R3</td></tr> <tr><td>Cotton</td><td>Pinhead Square - First Bloom</td></tr> </table> <p>Consult your local agronomist for application recommendations on other crops, such as potatoes, pome fruit, stone fruit and tree nuts.</p>	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
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<b>Rates</b>	<p>Recommended at 22 fl oz/A</p> <p>Reach out to your HELM Regional Sales Manager for crop-specific application rates.</p>								

## 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

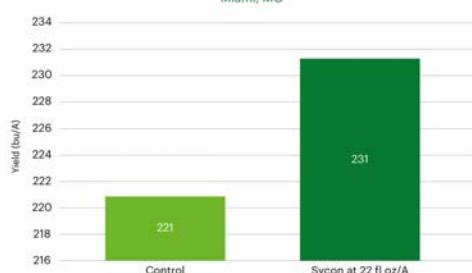
Greater CO<sub>2</sub> uptake and elevated photosynthetic activity increases available energy.

### Vitality

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

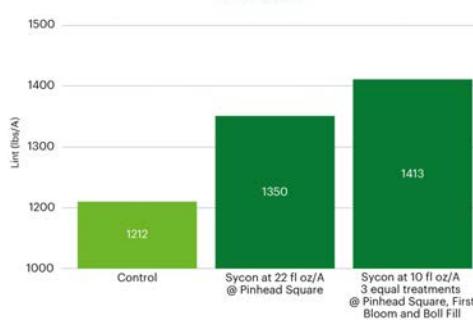
## CORN AT V5

Miami, MO



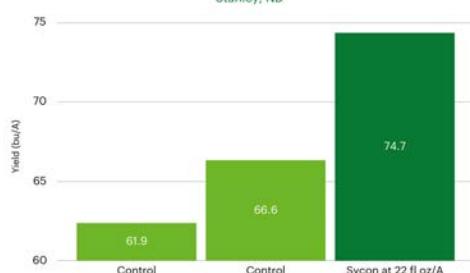
## COTTON AT PINHEAD SQUARE

West Texas



## WHEAT AT FEEKES 3

Stanley, ND



## CROP SOLUTIONS

**HELM Crop Solutions** | 401 E. Jackson St. | Suite 1600 | Tampa, FL 33602  
P: 813.621.8846 | F: 813.621.0763

For more information, visit [HELMcrop.com](http://HELMcrop.com).