

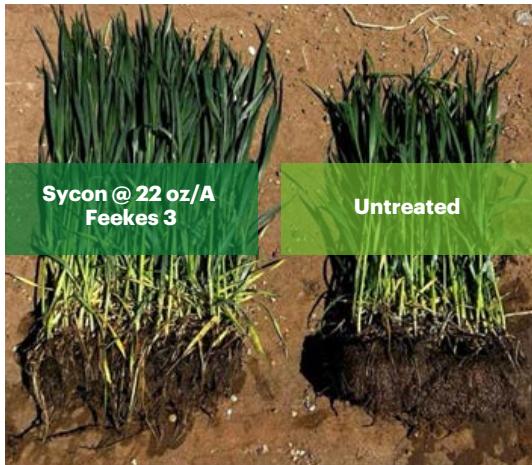
## MITIGATING STRESS AND INCREASING PLANT VITALITY IN WHEAT

Sycon contains six natural metabolites in a potassium complex that activate plants' internal pathways for maximized growth, stress tolerance and yield. By improving nutrient use efficiency (NUE), Sycon enhances nutrition, water use and energy production for stronger wheat vitality.

Environmental stress slows growth by reducing sunlight efficiency. Sycon helps wheat stay healthy from early stages by minimizing stress effects so plants are able to convert sunlight into higher yields.

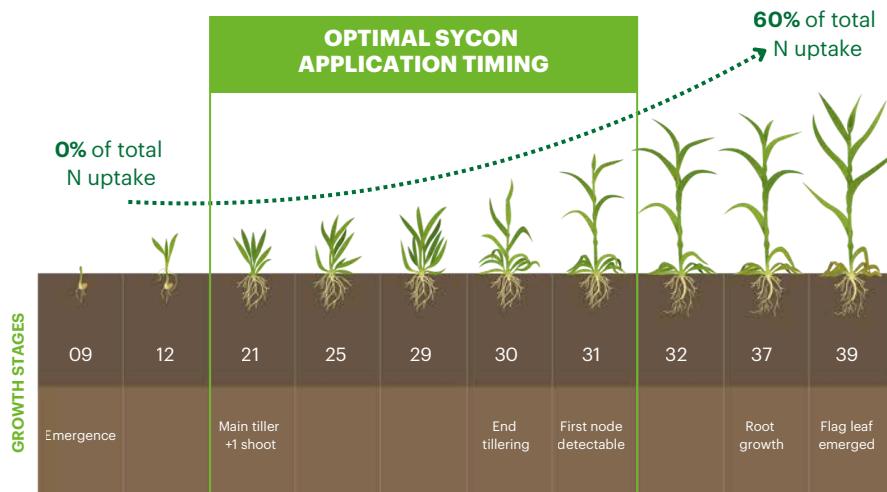


### EFFECTS ON THE PLANT



Sycon is a unique formulation of **proprietary bio-stimulants, potassium, sulfur, nitrogen, manganese and zinc** that enhance nutrient and water use efficiency, plus support enzymes that convert nitrates to ammonium  $[\text{NH}_4]^+$ , and further helping turn  $[\text{NH}_4]^+$  into essential amino acids for higher yield production. HELM's genomic research has revealed Sycon enhances wheat and other crops by:

- Improving nutrient uptake, transport, storage and mobilization
- Increasing energy through elevated  $\text{CO}_2$  acquisition and photosynthetic activity, which benefits nutrient use, water use and stress mitigation
- Maximizing plant growth in any environmental condition





## 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

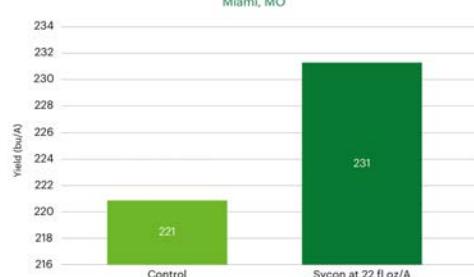
Greater CO<sub>2</sub> uptake and elevated photosynthetic activity increases available energy.

### Vitality

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

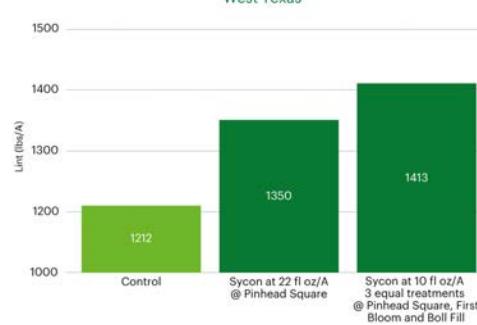
### CORN AT V5

Miami, MO



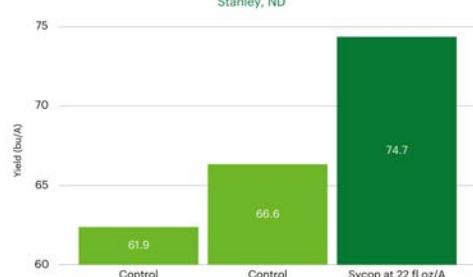
### COTTON AT PINHEAD SQUARE

West Texas



### WHEAT AT FEEKES 3

Stanley, ND



### CROP SOLUTIONS

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