



Sweet Potato - Opportunities at transplant

Agronomics / Background

Like most crops, it's important for sweet potatoes to get off to a fast start and the first opportunity to ensure a quality start is at transplant. BRANDT has a pair of fertility options that, when included with transplant water, will help give sweet potatoes the early vigor needed to reach their potential.

BRANDT Plant Start is a concentrated liquid fertilizer with N, P, K and Mo designed to promote early growth, healthy root systems and plant vigor.

BRANDT[®] GlucoPro[®] is a plant growth regulator that helps unlock glucose from lectin proteins. This flush of glucose allows the plant to utilize this energy to carry out metabolic functions. As with BRANDT Plant Start, BRANDT GlucoPro offers the best return when used with transplant water.

Conditions Leading to Nutrient Deficiencies

Sweet potatoes can tolerate drought to some extent but are sensitive to low oxygen supply and cannot withstand waterlogging. Therefore they are most often grown on sandy, well-drained soils. Optimal soil pH is 5.8-6.2 but lower pH can lead to nutrient deficiencies.

Desired Tissue Test Values

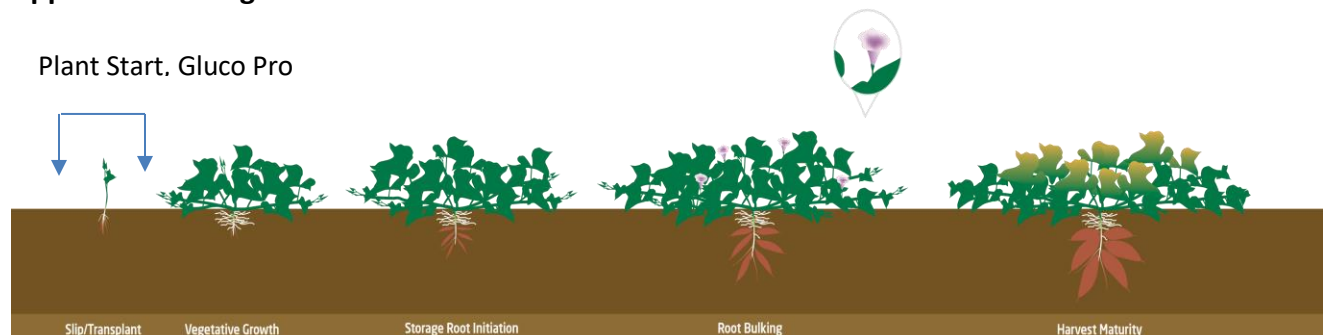
Crop: Sweet Potato			
Stage: Early vining – most recently matured leaf and petiole			
Macronutrients %		Micronutrients ppm	
N	4 - 5	Fe	40 - 100
P	0.3 – 0.5	Mn	40 – 100
K	2.5 - 4	B	25 – 60
Ca	0.8 – 1.6	Cu	205 - 10
Mg	0.4 – 0.8	Zn	20 - 40
S	0.2 – 0.6	Mo	0.19 – 0.22

*Bryson, Mills, et al. "Plant Analysis Handbook III". 2014.

Key Application Timings and Rates

- Use 1 quart of BRANDT Plant Start per 100g of transplant water, or 2-4 quarts per acre.
- Use 10 oz per acre of BRANDT GlucoPro during transplant to increase available glucose.

Application timings





Trial Data:

BRANDT GlucoPro Trial on Covington Sweet Potatoes conducted in Elm City, NC in 2019

Application Info:

- Application: May 24, 2019
- Harvest: October 3, 2019
- Post-Harvest Evaluations made on 13 day intervals from harvest to November 25, 2019

