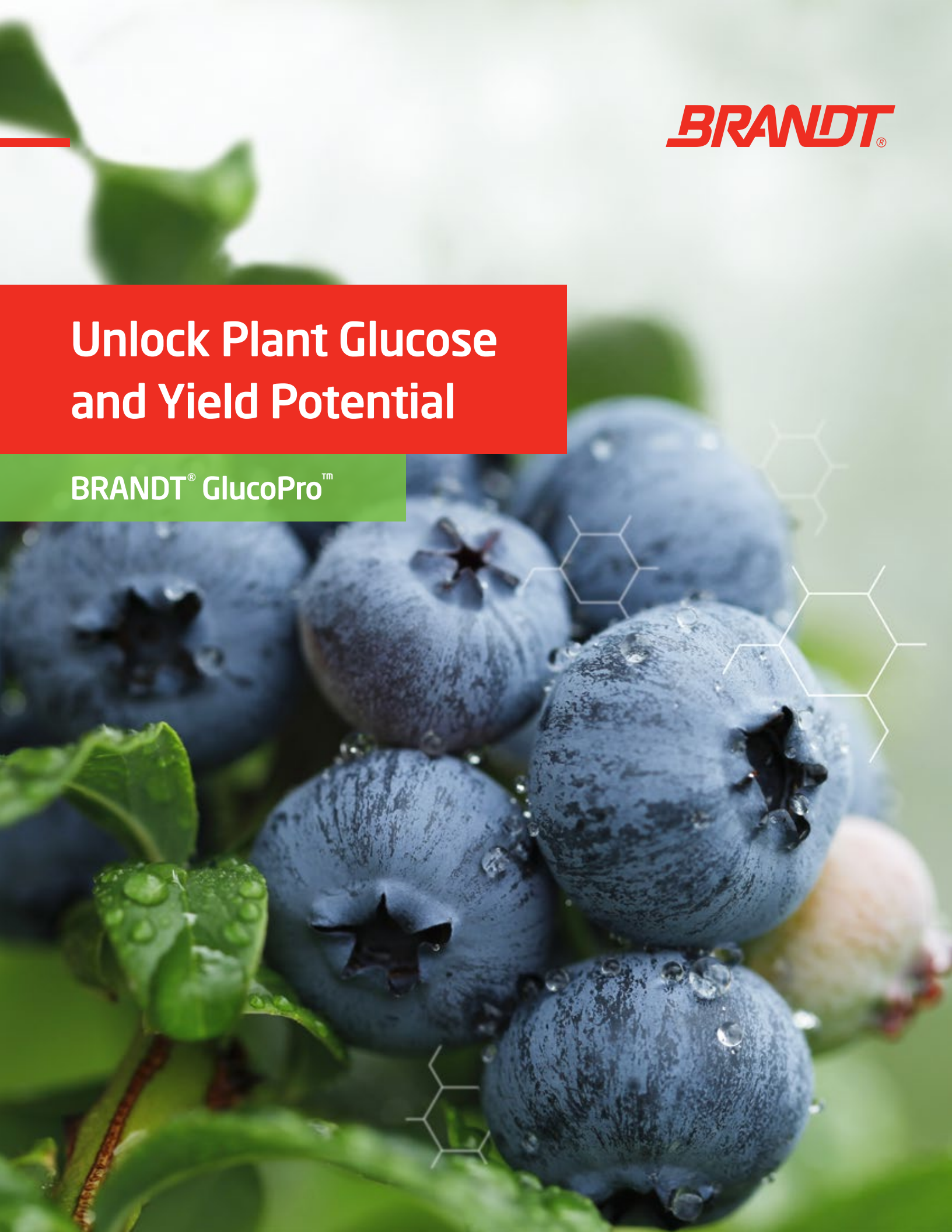


Unlock Plant Glucose and Yield Potential

BRANDT® GlucoPro™

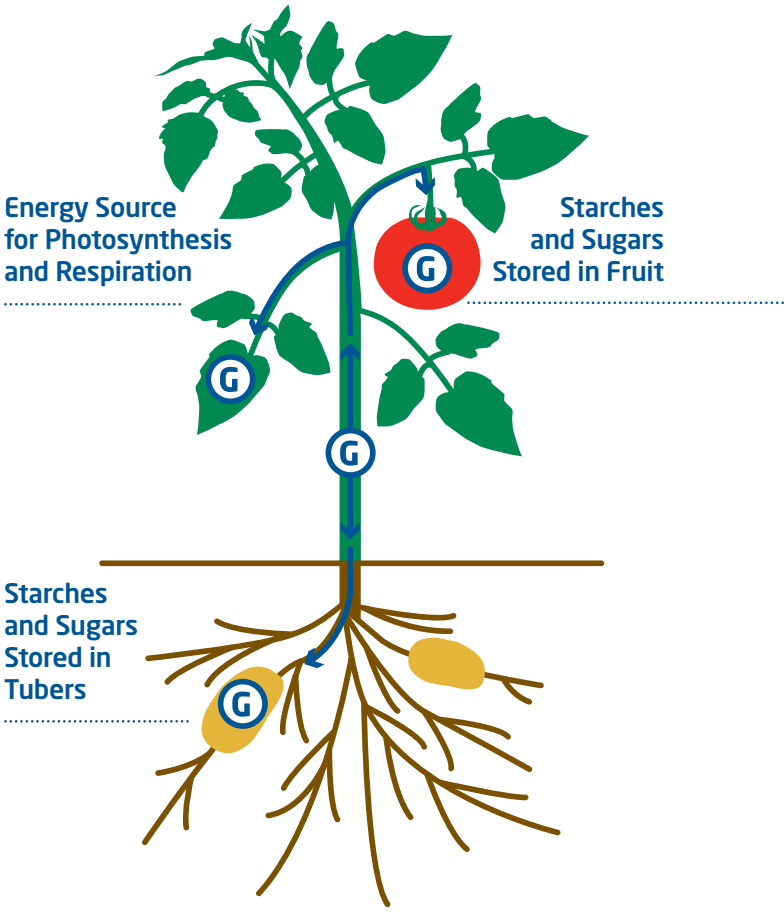
BRANDT GlucoPro is an entirely new Plant Growth Regulator concept and the first technology of its kind in agriculture.

The Importance of Glucose in Plants

All living cells require a continued source of energy to carry out their biological functions. One of the primary sources of plant energy is glucose, which is created by the plant during photosynthesis. Glucose also plays a role in the formation of starches and cellulose.

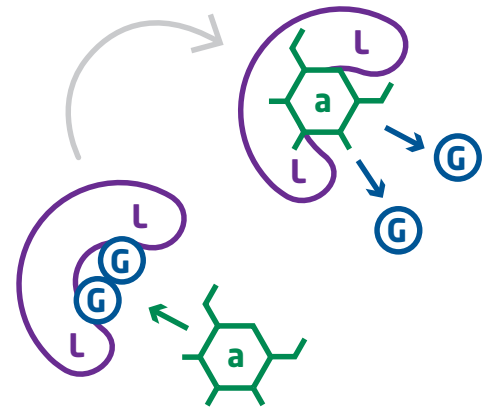
Factors That Limit Glucose Availability

While glucose directly impacts plant development, there are factors that can limit glucose availability inside the plant. One of those factors is the binding of Lectin proteins and glucose molecules. Lectin is a protein that is present in all plants and found in high concentrations in plant seeds and roots. The protein has a natural tendency to bind to glucose. When this occurs, the glucose is fixed to the Lectin and not available to the plant to use. Being able to turn off Lectin's affinity to bind to glucose is the key concept behind BRANDT GLUCOPRO technology.



BRANDT GLUCOPRO Unlocks and Releases Glucose That Is Bound to Lectin Proteins

Providing the plant with a flush of glucose to use as an energy source



BRANDT GlucoPro Active Ingredient:

G Glucose L Lectin a aMM

Mechanism of Action

BRANDT GLUCOPRO is a ground-breaking new technology that disables Lectin proteins to prevent them from binding to glucose. The patented mechanism of action, "unlocks and releases" the glucose that is bound to the Lectins. This frees and releases the glucose into the plant, providing the plant with a flush of energy to carry out its biological functions.

ACTIVE INGREDIENTS:	
Methyl-alpha-D-mannopyranoside (CAS#617-04-9)	12.15%
OTHER INGREDIENTS:	87.85%
TOTAL:	100.00%

Contains 1.09 lbs of alpha methylmannoside per gallon

Key Advantages

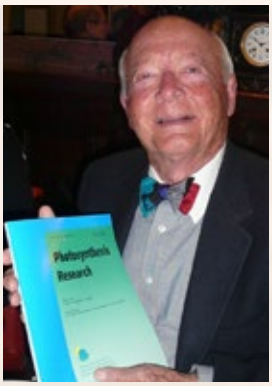
Applying BRANDT GLUCOPRO at planting and in early plant growth stages releases glucose that is fixed inside plant seeds and roots, which stimulates germination, root growth and tissue growth. Subsequent applications of BRANDT GLUCOPRO during high growth periods provide an additional supply of energy to the plant during fruit and vegetable development. The net result is:

- Increased yield and premium marketable yield
- Increased harvestable weight
- Larger fruit size and fruit count
- Increased quality
- Improved firmness and flavor
- Increased brix at harvest

BRANDT GLUCOPRO has received high praise and accolades from the global science community

"An elegant scientific advancement in agriculture"

- Russian Academy of Science



The late Dr. Andrew Benson

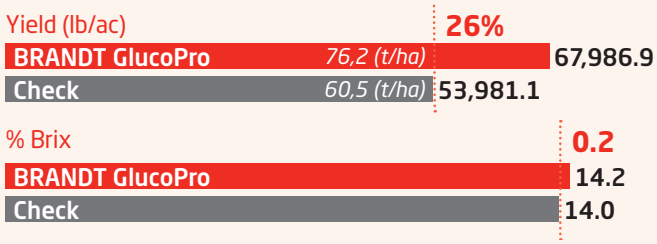
BRANDT GLUCOPRO is based on the research and discoveries of Dr. Arthur Nonomura and the late Dr. Andrew Benson. Dr. Benson is one of the most renowned plant scientists of the 20th century and one of the world's top experts on photosynthesis. Dr. Benson's work includes the discovery of the Calvin-Benson cycle and his colleague was awarded a Nobel prize in chemistry for their work. Dr. Benson's research continued under the leadership of Dr. Nonomura and in 2014 a joint venture was formed with BRANDT to develop this revolutionary new technology: BRANDT GLUCOPRO.

BRANDT GLUCOPRO

Blueberry Trial

Field Trial

Year	2017
Treatments	1. Check 2. BRANDT GLUCOPRO 6 fl oz/ac (0,4 l/ha), 4 foliar applications at 2 week intervals



26% yield increase

14,005 lb/ac (15,7 t/ha)

BRANDT GLUCOPRO increased blueberry yield and brix levels. Treated blueberries produced an additional 14,005 lbs/ac (15.7 t/ha) and had a 26% yield advantage over the untreated check. Treated blueberries also had a higher mean brix measurement at first harvest.

Application Rates and Timing For Blueberries

BRANDT GLUCOPRO may be applied as a foliar application on blueberries at a rate of 6-10 fl oz/ac (0,4 – 0,7 l/ha). The first application should be made at green fruit development stage starting at early fruit set. 2-3 additional applications may be made at 2 week intervals as needed until blueberries reach 10% blue stage.

Application 1

6-10 fl oz/ac
(0,4-0,7 l/ha)
As a foliar at
early fruit set

Applications 2-4

6-10 fl oz/ac
(0,4-0,7 l/ha)
As a foliar at 2 week intervals, last application around 10% blue

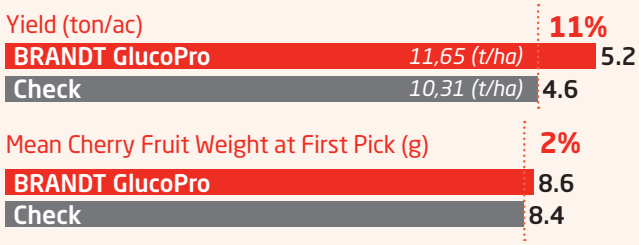
Bud Swell | Bud Break/Burst | Bloom | Petal Fall | Green Fruit | 10% Blue | 75% Blue | Fruit Bud Set (Post-Harvest)

BRANDT GLUCOPRO

Cherry Trial

Field Trial

Year	2017
Treatments	1. Check 2. BRANDT GLUCOPRO 20 fl oz/ac (1,5 /ha), 3 foliar applications



11% yield increase

0.525 tons/ac (1.17 t/ha)

BRANDT GLUCOPRO increased yield and marketable fruit count in cherry trials. Treated cherries produced an additional 0.525 tons/ac (1.17 t/ha) and had an 11% yield advantage over the untreated check.

Application Rates and Timing For Cherries

BRANDT GLUCOPRO may be applied as a foliar application on cherries at a rate of 10-20 fl oz/ac (0,7 – 1,5 l/ha). The first application should be made at post-bloom. A second application may be made 2 weeks later and a third application may be made at straw color stage.

Application 1

10-20 fl oz/ac
(0,7-1,5 l/ha)
As a foliar at
post-bloom

Applications 2-3

10-20 fl oz/ac
(0,7-1,5 l/ha)
As a foliar at 2 week intervals,
last application around straw color

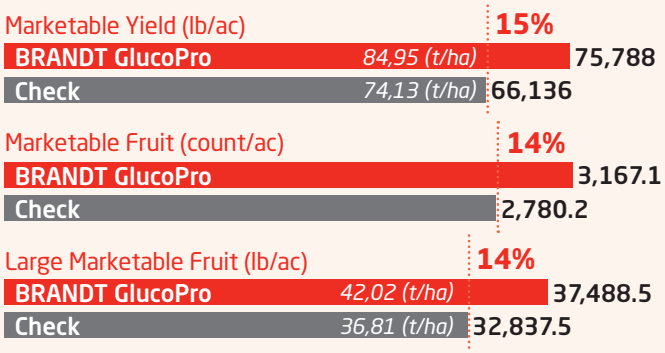
Bud Burst | White Bud | Bloom | Petal Fall | Shuck Fall | Fruit Set | Fruit Development | Maturity

BRANDT GLUCOPRO

Watermelon Trial

Field Trial

Year	2017, Raymondville, TX
Treatments	1. Check 2. BRANDT GLUCOPRO 10 fl oz/ac (0,7 l/ha), 2 applications through drip



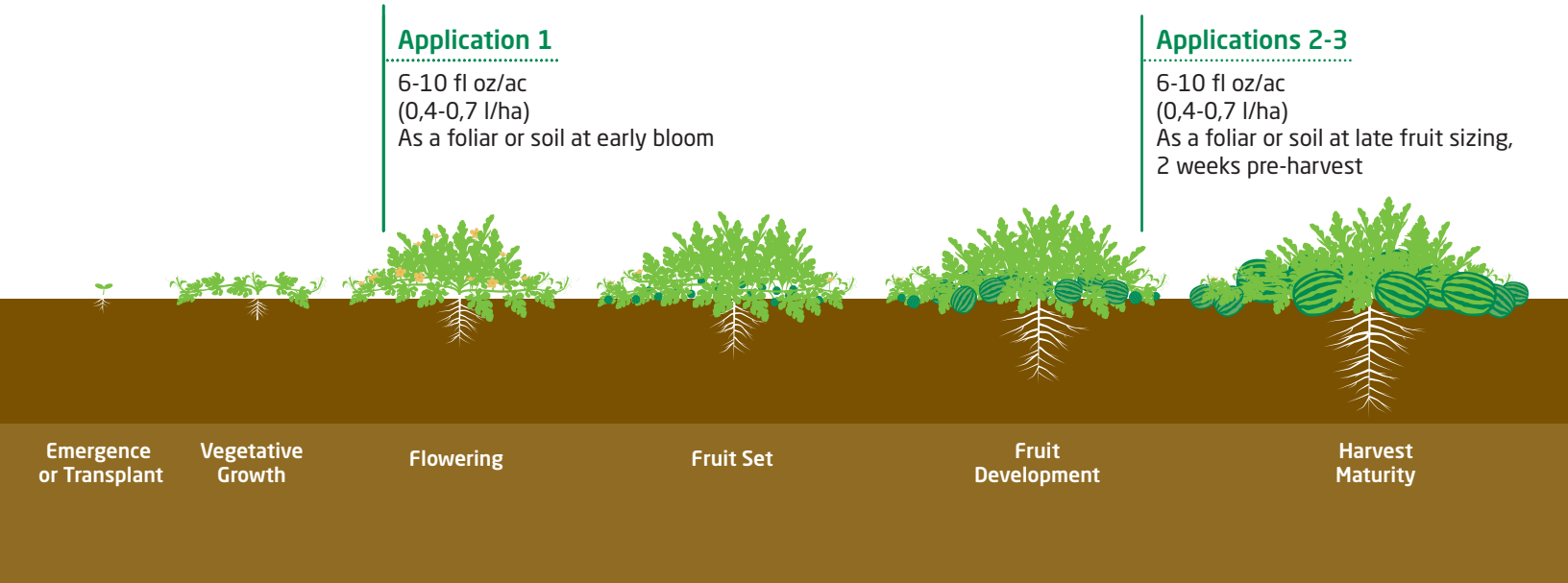
15% yield increase

9,652 lb/ac (10.82 t/ha)

BRANDT GLUCOPRO increased marketable yield and fruit count in watermelon trials. Treated watermelon plots produced an additional 9,652 lbs/ac (10.82 t/ha) and had a 15% yield advantage over the untreated check.

Application Rates and Timing For Watermelon

BRANDT GLUCOPRO may be applied as a foliar or soil application on watermelon at a rate of 6-10 fl oz/ac (0,4 – 0,7 l/ha). The first application should be made at early bloom stage. 1-2 additional applications may be made at 2 week intervals as needed until watermelons reach late fruit sizing stage. A final application is recommended 2-3 weeks before harvest.



BRANDT GLUCOPRO

Cantaloupe Trial

Field Trial

Year	2014, Tonopah, AZ
Treatments	1. Check 2. BRANDT GLUCOPRO 6.6 fl oz/ac (0,5 l/ha), 2 foliar applications

12% increase in fruit weight

0.6 lb (0.27 kg)

BRANDT GLUCOPRO increased cantaloupe fruit weight, size, brix level and yield in cantaloupe trials. Treated cantaloupe weighed 12% more than untreated cantaloupe and had a statistically significant brix increase of 1 point.

Application Rates and Timing For Cantaloupe

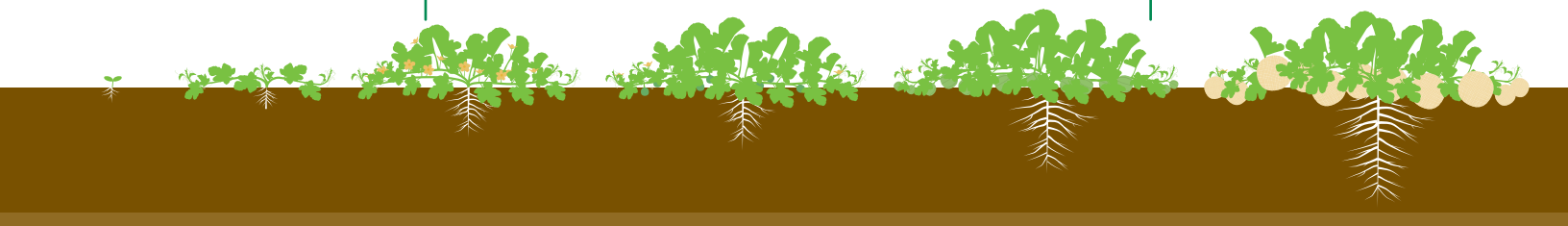
BRANDT GLUCOPRO may be applied as a foliar or soil application on cantaloupe at a rate of 6-10 fl oz/ac (0,4 – 0,7 l/ha). The first application should be made at early bloom stage. 1-2 additional applications may be made at 2 week intervals as needed until cantaloupes reach late fruit sizing stage. A final application is recommended 2-3 weeks before harvest.

Application 1

6-10 fl oz/ac
(0,4-0,7 l/ha)
As a foliar or soil at early bloom

Application 2

6-10 fl oz/ac
(0,4-0,7 l/ha)
As a foliar or soil at late fruit sizing, 2 weeks pre-harvest



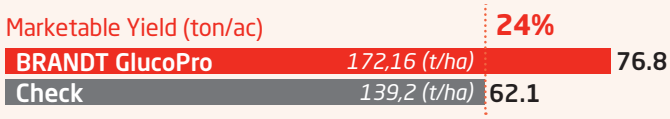
Emergence or Transplant | Vegetative Growth | Flowering | Fruit Set | Fruit Development | Harvest Maturity

BRANDT GLUCOPRO

Tomato Trial

Field Trial

Year	2015
Treatments	1. Check 2. BRANDT GLUCOPRO 10 fl oz/ac (0,7 l/ha), 3 foliar applications



24% yield increase

14.7 tons/ac (32.95 t/ha)

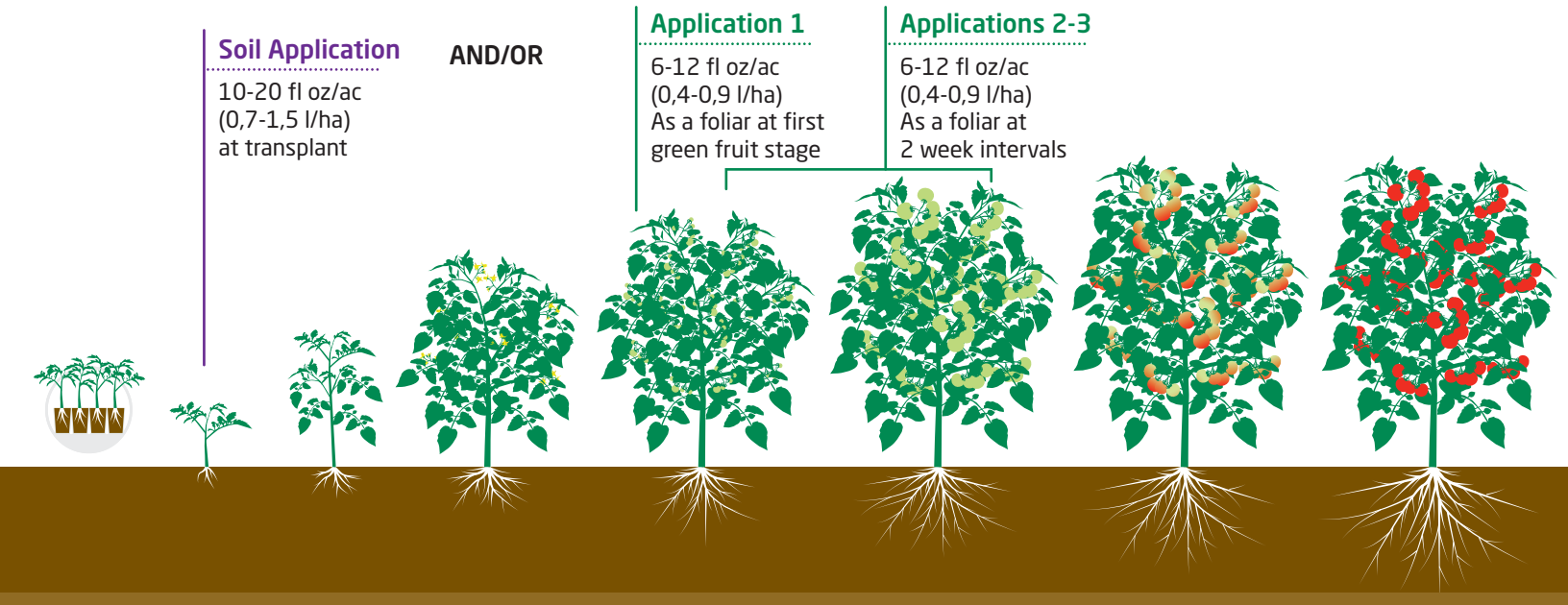
BRANDT GLUCOPRO increased marketable yield in tomato trials. Treated tomatoes produced an additional 14.7 tons/ac (32.95 t/ha) and had a 24% yield advantage over the untreated check.

Application Rates and Timing For Tomatoes

BRANDT GLUCOPRO should first be applied on tomato plants as a soil application at transplant or immediately following transplant at a rate of 10-20 fl oz/ac (0,7 – 1,5 l/ha).

AND/OR

Apply BRANDT GLUCOPRO as a foliar at first green fruit stage at a rate of 6-12 fl oz/ac (0,4 – 0,9 l/ha). 1-2 additional applications may be made at 2 week intervals as needed.

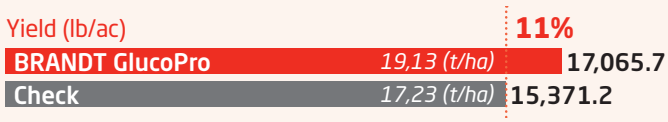


BRANDT GLUCOPRO

Pepper Trial

Field Trial

Year	2017
Treatments	1. Check 2. BRANDT GLUCOPRO 10 fl oz/ac (0,7 l/ha), 2 foliar applications



11% yield increase

1,694 lb/ac (1.9 t/ha)

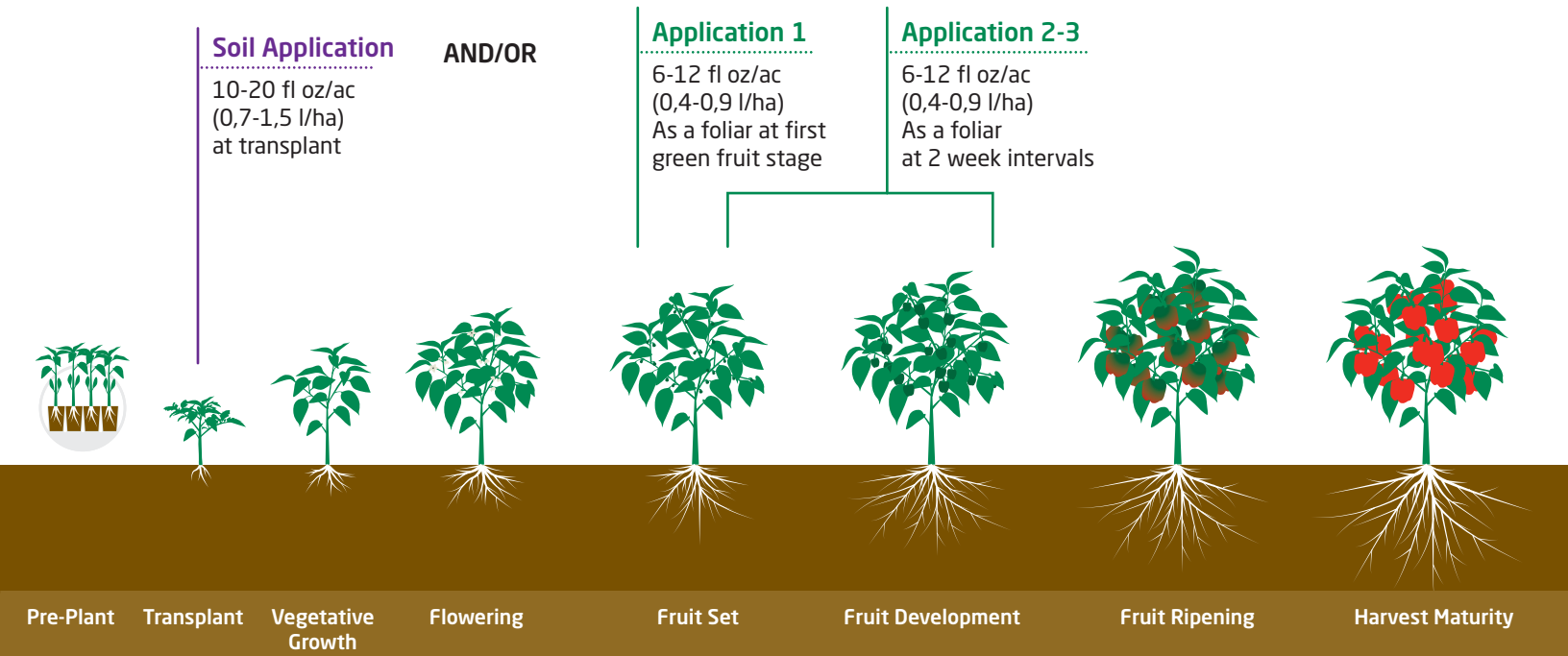
BRANDT GLUCOPRO effectively increased yield in pepper trials. Treated peppers produced an additional 1,694 lbs/ac (1.9 t/ha) and had an 11% yield advantage over the untreated check.

Application Rates and Timing For Peppers

BRANDT GLUCOPRO should first be applied on pepper plants as a soil application at transplant or immediately following transplant at a rate of 10-20 fl oz/ac (0,7 – 1,5 l/ha).

AND/OR

Apply BRANDT GLUCOPRO as a foliar at first green fruit stage at a rate of 6-12 fl oz/ac (0,4 – 0,9 l/ha). 1-2 additional applications may be made at 2 week intervals as needed.

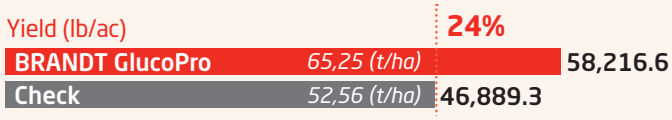


BRANDT GLUCOPRO

Romaine Lettuce Trial

Field Trial

Year	2015
Treatments	1. Check 2. BRANDT GLUCOPRO 10 fl oz/ac (0,7 l/ha), 2 foliar applications



24% yield increase

11,327.3 lb/ac (12.7 t/ha)

BRANDT GLUCOPRO effectively increased yield in romaine lettuce trials. Treated lettuce produced an additional 11,327 lbs /ac (12.7 lbs/ha) and had a 24% yield advantage over the untreated check.

Application Rates and Timing For Lettuce

BRANDT GLUCOPRO may be applied as a foliar application on leafy varieties of lettuce at a rate of 6-10 fl oz/ac (0,4 – 0,7 l/ha). The first application should be made 4 weeks before harvest and a second application should be made 1-2 weeks before harvest.

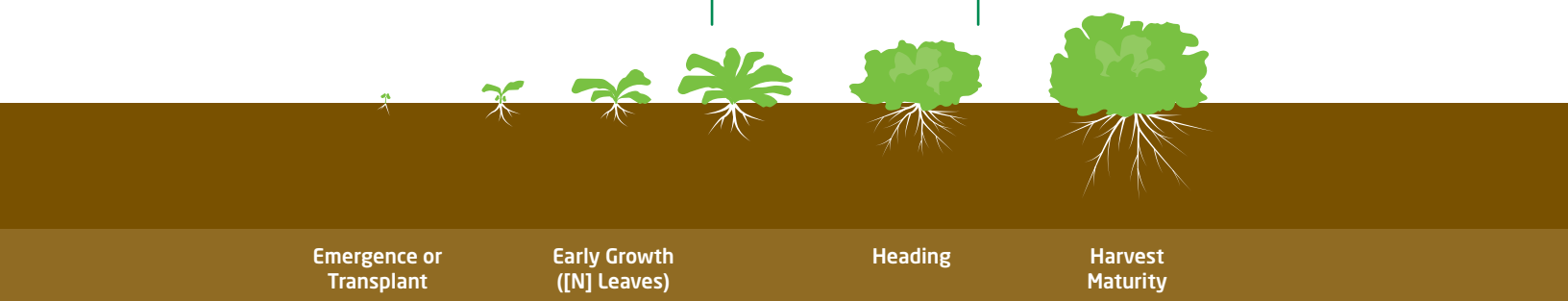
For head forming varieties of lettuce, a foliar application should be made at a rate of 6-10 fl oz/ac (0,4 – 0,7 l/ha). The first application should be at the head initiation growth stage and a second application should be made 1-2 weeks before harvest.

Application 1

6-10 fl oz/ac
(0,4-0,7 l/ha)
As a foliar 4 weeks pre-harvest for leafy varities, at head initiation for head forming varities

Application 2

6-10 fl oz/ac
(0,4-0,7 l/ha)
As a foliar 1-2 weeks pre-harvest

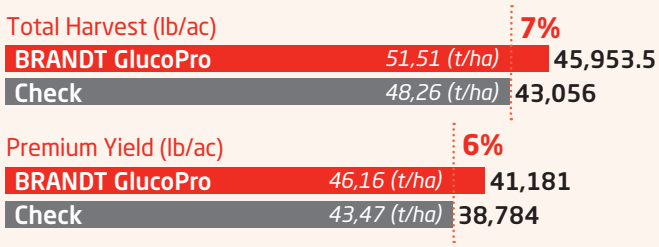


BRANDT GLUCOPRO

Cabbage Trial

Field Trial

Year	2017, Chula, GA
Treatments	1. Check 2. BRANDT GLUCOPRO 10 fl oz/ac (0,7 l/ha), 2 applications through drip irrigation



7% yield increase

2,897 lb/ac (3.25 t/ha)

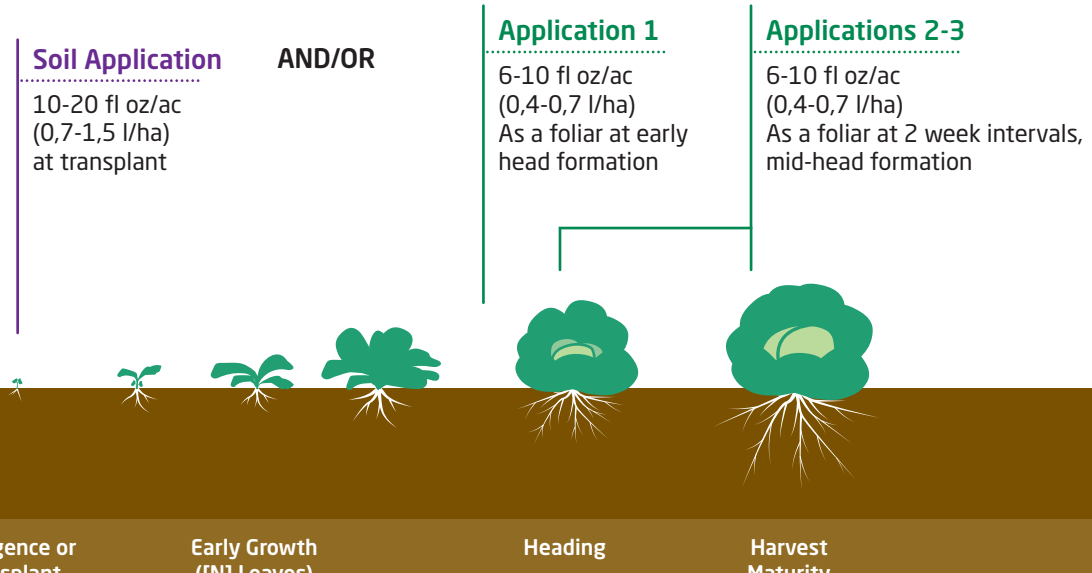
BRANDT GLUCOPRO increased yield and premium marketable yield in cabbage trials. Treated cabbage produced an additional 2,897 lbs/ac (3.25 lbs/ha) and had a 7% yield advantage over the untreated check.

Application Rates and Timing For Cabbage

BRANDT GLUCOPRO should first be applied on cabbage as a soil application at transplant or immediately following transplant at a rate of 10-20 fl oz/ac (0,7 – 1,5 l/ha).

AND/OR

BRANDT GLUCOPRO may be applied as a foliar at head initiation stage at a rate of 6-10 fl oz/ac (0,4 – 0,7 l/ha). 1-2 additional applications may be made at 2 week intervals as needed.



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2018-11