

A large watermelon is the central focus, resting on the ground in a field of green watermelon plants. The watermelon's skin is green with characteristic yellowish-green stripes. Overlaid on the watermelon and the surrounding foliage are several black chemical structures, which are hexagonal rings with various substituents, representing glucose molecules. The background is a bright, sunlit field with a lens flare effect in the upper right corner.

BRANDT®

Unlock Plant Glucose and Yield Potential

BRANDT® GlucoPro™



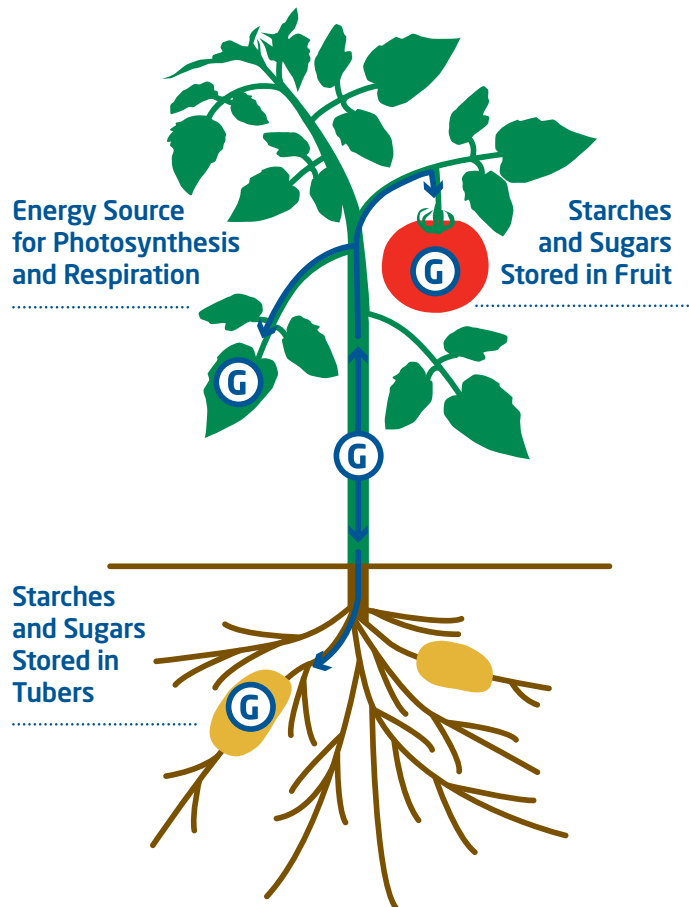
BRANDT GlucoPro is an entirely new Plant Growth Regulator concept and the first technology of its kind in agriculture.

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.

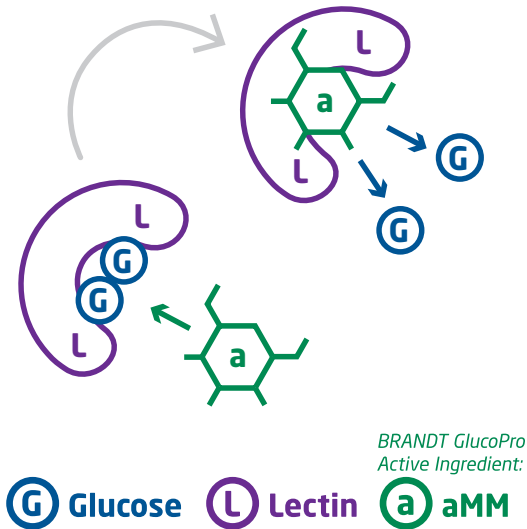
Factors That Limit Glucose Availability

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



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

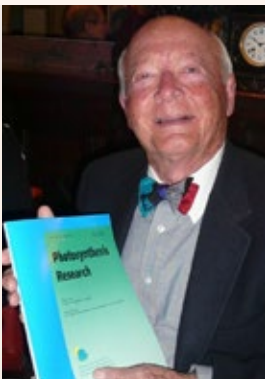
Applying BRANDT GLUCOPRO at planting and in early plant growth stages releases glucose that is fixed inside plant seeds and roots, which stimulates germination, root growth and tissue growth. Subsequent applications of BRANDT GLUCOPRO during high growth periods provide an additional supply of energy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

Yield (lb/ac)		26%
BRANDT GlucoPro	76,2 (t/ha)	67,986.9
Check	60,5 (t/ha)	53,981.1
% Brix		0.2
BRANDT GlucoPro		14.2
Check		14.0

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 or drip 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

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

Applications 2-4

As a foliar or drip
6-10 fl oz/ac (0,4-0,7 l/ha)
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

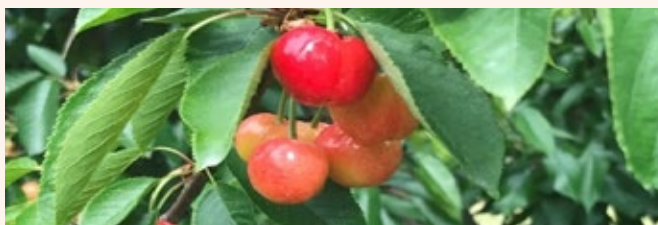
Year	2017
Treatments	1. Check 2. BRANDT GLUCOPRO 20 fl oz/ac (1,5 /ha), 3 foliar applications

Yield (ton/ac)		11%
BRANDT GlucoPro	11,65 (t/ha)	5.2
Check	10,31 (t/ha)	4.6
Mean Cherry Fruit Weight at First Pick (g)		2%
BRANDT GlucoPro	8.6	
Check	8.4	

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

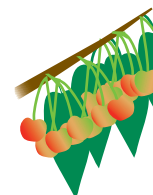
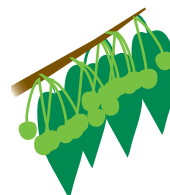
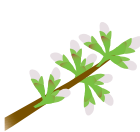
BRANDT GLUCOPRO may be applied as a foliar or drip application on cherries at a rate of 10-20 fl oz/ac (0,7 - 1,5 l/ha). The first application should be made at post-bloom. A second application may be made 2 weeks later and a third application may be made at straw color stage.

Application 1

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

Applications 2-3

As a foliar or drip
10-20 fl oz/ac (0,7-1,5 l/ha)
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.

Marketable Yield (lb/ac)	15%
BRANDT GlucoPro 84,95 (t/ha)	75,788
Check 74,13 (t/ha)	66,136
Marketable Fruit (count/ac)	14%
BRANDT GlucoPro	3,167.1
Check	2,780.2
Large Marketable Fruit (lb/ac)	14%
BRANDT GlucoPro 42,02 (t/ha)	37,488.5
Check 36,81 (t/ha)	32,837.5



Application Rates and Timing For Watermelon

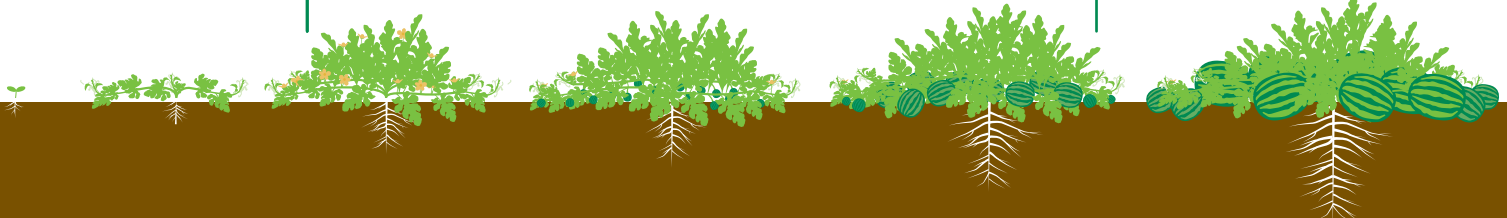
BRANDT GLUCOPRO may be applied as a foliar or soil application on watermelon at a rate of 6-10 fl oz/ac (0,4 - 0,7 l/ha). The first application should be made at early bloom stage. 1-2 additional applications may be made at 2 week intervals as needed until watermelons reach late fruit sizing stage. A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

Application 1

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

Applications 2-3

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



Emergence
or Transplant

Vegetative
Growth

Flowering

Fruit Set

Fruit
Development

Harvest
Maturity

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 watermelons reach late fruit sizing stage. A final application is recommended 2-3 weeks before harvest.

Application 1

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

Application 2

As a foliar or drip
6-10 fl oz/ac (0,4-0,7 l/ha)
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.

Marketable Yield (ton/ac)		24%
BRANDT GlucoPro	172,16 (t/ha)	76.8
Check	139,2 (t/ha)	62.1



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.

Soil Application

10-20 fl oz/ac
(0,7-1,5 l/ha)
at transplant

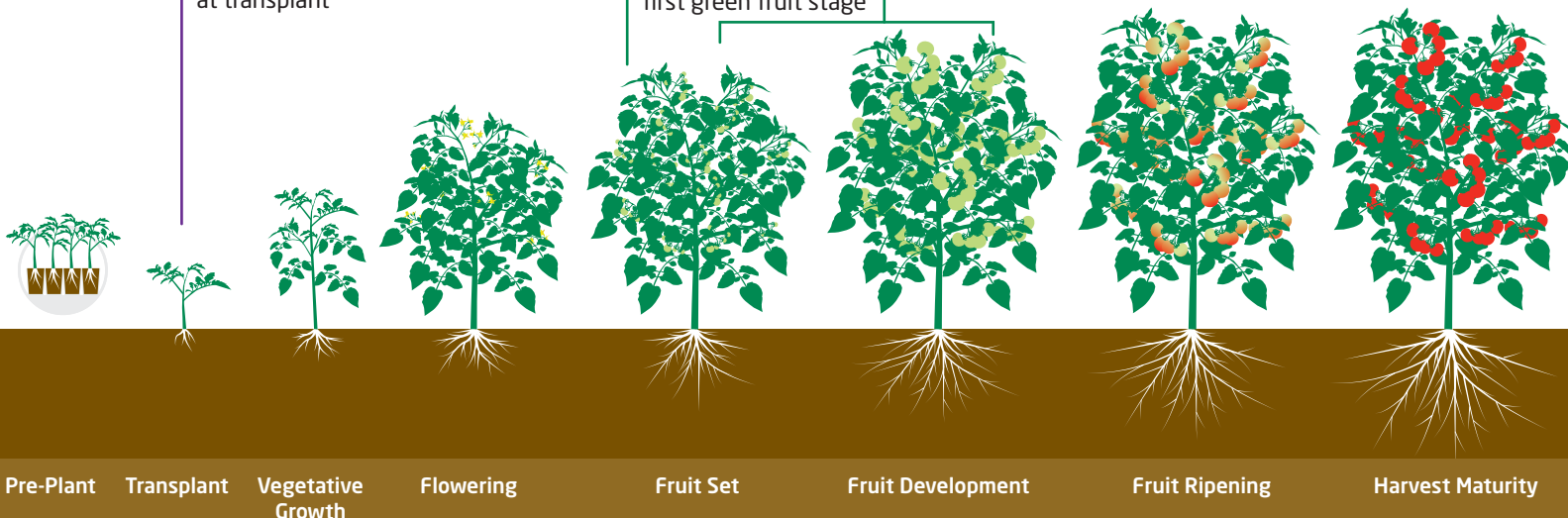
AND/OR

Application 1

As a foliar or drip
6-12 fl oz/ac
(0,4-0,9 l/ha) at
first green fruit stage

Applications 2-3

As a foliar or drip
6-12 fl oz/ac (0,4-0,9 l/ha)
at 2 week intervals



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.

Yield (lb/ac)		11%
BRANDT GlucoPro	19,13 (t/ha)	17,065.7
Check	17,23 (t/ha)	15,371.2



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.

Soil Application

10-20 fl oz/ac
(0,7-1,5 l/ha)
at transplant

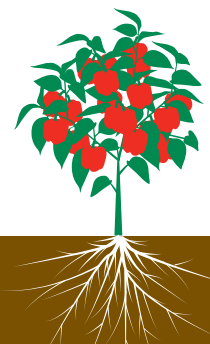
AND/OR

Application 1

As a foliar or drip
6-12 fl oz/ac
(0,4-0,9 l/ha) at
first green fruit stage

Application 2-3

As a foliar or drip
6-12 fl oz/ac (0,4-0,9 l/ha)
at 2 week intervals



Pre-Plant

Transplant

Vegetative
Growth

Flowering

Fruit Set

Fruit Development

Fruit Ripening

Harvest Maturity



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.

Yield (lb/ac)		24%	
BRANDT GlucoPro	65,25 (t/ha)		58,216.6
Check	52,56 (t/ha)		46,889.3

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Application Rates and Timing For Lettuce

BRANDT GLUCOPRO may be applied as a foliar or drip application on 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.

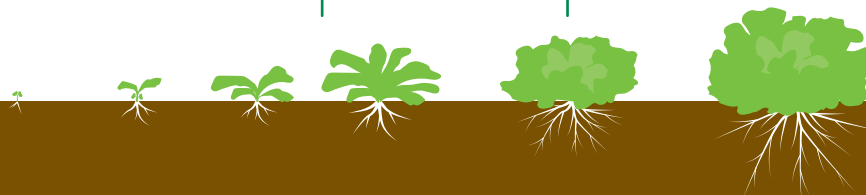
For head forming varieties of lettuce, a foliar or drip application should be made at a rate of 6-10 fl oz/ac (0,4 - 0,7 l/ha). The first application should be at the head initiation growth stage and a second application should be made 1-2 weeks before harvest.

Application 1

As a foliar or drip
6-10 fl oz/ac
(0,4-0,7 l/ha)
4 weeks pre-harvest,
at 8 leaf stage

Application 2

As a foliar or drip
6-10 fl oz/ac
(0,4-0,7 l/ha)
1-2 weeks pre-harvest,
at early head formation



Emergence or
Transplant

Early Growth
([N] Leaves)

Heading

Harvest
Maturity

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.

Total Harvest (lb/ac)		7%
BRANDT GlucoPro	51,51 (t/ha)	45,953.5
Check	48,26 (t/ha)	43,056
Premium Yield (lb/ac)		6%
BRANDT GlucoPro	46,16 (t/ha)	41,181
Check	43,47 (t/ha)	38,784

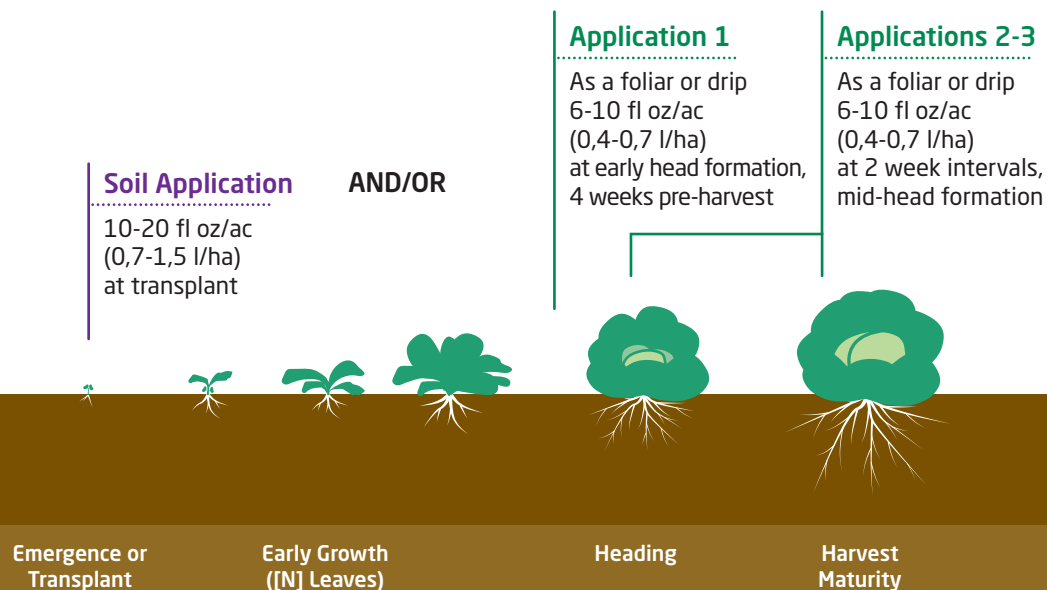


Application Rates and Timing For Cabbage

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 or drip 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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