



CHANGING THE GAME TROPICAL FRUITS



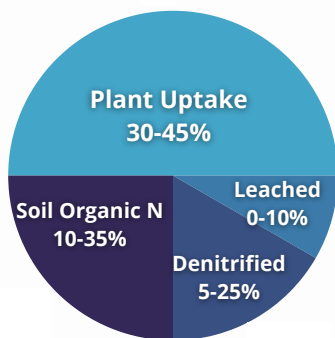
We help growers maximize the
potential of crops, sustainably...

**SPRAY
GRO**
LIQUID FERTILIZERS
AUSTRALIA
SIMON
A G R I

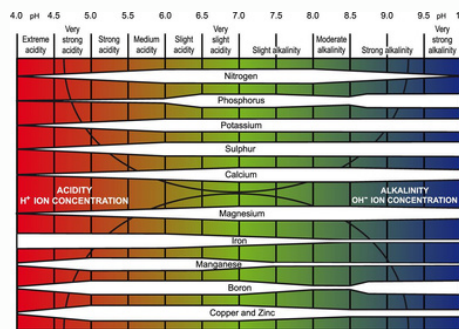
PLANT NUTRITION BASICS

WHY SMART RELEASE LIQUID FERTILIZERS?

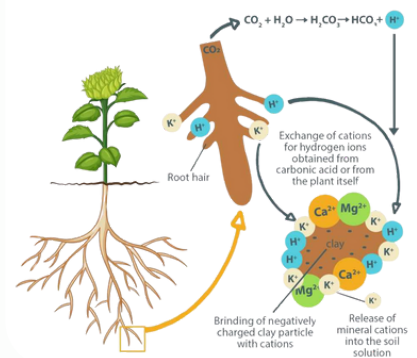
What happens to
Granular Nitrogen?



Nutrient Availability
VS pH Levels



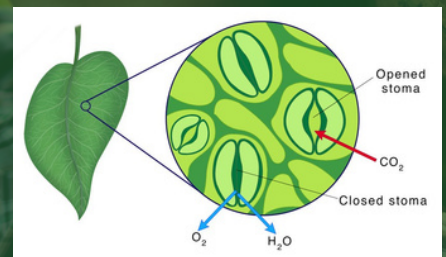
CATION EXCHANGE CAPACITY (CEC)



Plant Health Nutrition: Stomata Absorption Mechanism

The stomata are tiny pores found on the surface of plant leaves and stems that play a crucial role in gas exchange and water regulation. They are essential for plant health, as they allow carbon dioxide (CO₂) to enter for photosynthesis and enable the release of oxygen (O₂) and water vapor through a process called transpiration.

By utilizing Smart Release Foliar Fertilizers, plants get a rapid nutrient boost directly through the stomata (usually open during the cooler parts of the day (before 7AM & after 3PM where temperatures around @ 25°C), ensuring better nutrient absorption and promoting overall plant health without the dependency on soil conditions. This method is especially effective during critical growth stages, ensuring plants thrive and develop optimally.



NPK + TRACE ELEMENTS FUNCTIONAL VALUE

UNDERSTANDING NPK + TE

NUTRIENT	FUNCTIONAL VALUE	NUTRIENT	FUNCTIONAL VALUE
NITROGEN (1-6%)*	Nitrogen essential for leaf development and photosynthesis	COPPER (2-50ppm)*	Copper aids in pollen formation crucial for effective pollination and fruit setting
PHOSPHORUS (0.05-1%)*	Phosphorous promotes root growth, flowering and fruit setting	MANGANESE (5-500ppm)*	Manganese aids in pollen germination and growth of pollen tubes for successful fruit setting
POTASSIUM (0.3-6%)*	Potassium serves as activator for biomass production, biosynthesis of sugars and starches for bigger and better fruits	BORON (2-75ppm)*	Boron for growth and translocation of sugar, calcium, water, potassium & sulfur
IRON (10-1000ppm)*	Iron converts nutrients into energy, supporting the tree's vitality and productivity	ZINC (5-100ppm)*	Zinc for rapid crop response against stress, while promoting reproductive development, flowering, fruit setting and fruit quality

*Approximate Concentration in Plants Plant Analysis - A Diagnostic Tool, University of Wisconsin, Bulletin A2289 Table 27, p.120, Agronomy Handbook 2014 Edition, Don Ankerman, B.S. & Richard Large, Ph.D.

NITROBOOST®

"The Growth & Yield Booster"

N P K
30.75 - 0 - 0

Chelated
Micronutrients

Zinc (3,070 mg/L)
Boron (3,070 mg/L)



SMART RELEASE®
Nitrogen Series

- 21 to 30 Days Smart-Release NITROGEN
- NanoTech: efficient absorption & translocation
- Superior growth & yield performance

Nitrogen essential for leaf develop

Boron for growth and translocation of sugar, calcium, water, potassium & sulfur

Zinc for rapid crop response against stress, while promoting reproductive development, flowering, fruit setting and fruit quality

Methanal component serves as sticker during foliar spray

Technical grade, no chlorides, no burn

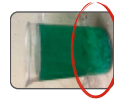
Low salt index, no phytotoxicity

NITROBOOST®

Other Brands



Homogenous Neon Liquid



Coagulated Precipitates

SEEDLING BOOSTER®

"For Crop Development, Vigour & Recovery"

N P K
2 - 4 - 6.7

Chelated
Micronutrients

Zinc (2,000ppm)
Boron (500ppm)



Benefits

Flowers

Buds

Fruits

DEVELOPMENT

VIGOUR

Heat Stress

Water Stress

Pest Infestation Stress

Getting the Right Balance!!!

SUGARS	FULVIC ACID	LEUCINE	METHIONINE	KELP
CARBOHYDRATES	HUMIC ACID	CELLULOSE	TYROSINE	
RIBOFLAVIN (VITAMIN B2)	PYRIDOXINE (VITAMIN B6)	ALANINE	VALINE	
PHENYLALANINE	SERINE	ASPARTIC ACID	ASH	
CYSTEINE	PROLINE	THREONINE	HISTIDINE	ZINC
GLUTAMIC ACID	ISOLEUCINE	GLYCINE	TRYPTOPHAIN	
NITROGEN	PHOSPHORUS	POTASSIUM	BORON	

COMPLETO+®

"Enhancing Crop Quality, Volume Plus BRX"

N P K
19 - 9 - 19

Chelated Trace Elements

Iron (1,300mg/L)
Zinc (630mg/L)
Boron (200mg/L)
Copper (630mg/L)
Manganese (700mg/L)



SMART RELEASE®
Nitrogen Series

- 14 Days Smart-Release Fertilizer
- 4x to 30x plant absorption efficiency
- Enhances crop quality & performance

Nitrogen essential for leaf development and photosynthesis

Phosphorous promotes root growth, flowering and fruit setting

Potassium serves as activator for biomass production, biosynthesis of sugars and starches for bigger and better fruits

Boron for growth and translocation of sugar, calcium, water, potassium & sulfur

Copper aids in pollen formation crucial for effective pollination and fruit setting

Iron converts nutrients into energy, supporting the tree's vitality and productivity

Manganese aids in pollen germination and growth of pollen tubes for successful fruit setting

Zinc for rapid crop response against stress, while promoting reproductive development, flowering, fruit setting and fruit quality

SUGARBLASTER®

"Bigger & Sweeter!"

N P K
0 - 0 - 43.2

with
Sulfur (as
Thiosulfate) **9.7**

SMART RELEASE®
Nitrogen Series



Potassium (as Potassium oxide) - 43.2% w/v
Sulfur (as Thiosulfate) - 9.7% w/v

Promotes biosynthesis of sugars and starches leading to higher yield and BRIX levels

Restores vital crop water balance

Regulates stomatal opening to improve photosynthesis

Activates enzymes for biomass production

Foliar spray facilitates improvement in fruit quality and size as well as sugar content & BRIX

Contains thiosulfate sulfur that releases sulfuric acid to activate root zone for better nutrient uptake

Contains a high concentration of potassium in liquid form that promotes plant growth and volume

Pre-dissolved potassium and sulfur source that readily mix with water for more efficient leaf or root absorption

Provides optimum availability of potassium in heavily leached sands

Conveniently applied through the drippers without blockages

Can be easily blended with ammonium polyphosphate to facilitate NPK absorption

PINEAPPLE

NITROBOOST 3-5L/HA	45DAP, 75DAP, 105DAP, 135DAP, 165DAP, 195DAP, 225DAP, 255DAP, 285DAP, 315DAP, 345DAP, 12DAFI
COMPLETO+ 3-5L/HA	60DAP, 90DAP, 120DAP, 150DAP, 180DAP, 210DAP, 240DAP, 270DAP, 300DAP, 330DAP, 360DAP, 12DAFI, 50DAFI, 80DAFI, 110DAFI
SEEDLING BOOSTER 5L/HA 15 DAP / 30 DAP / 45 DAP / 60 DAP	SUGAR BLASTER 5L/HA 360 DAP / 420 DAP / 480 DAP

10DAT	SEEDLING BOOSTER 300ml/16L H2O
14DAT	NITROBOOST 300ml/16L H2O
25-28DAT	COMPLETO+ 300ml/16L H2O
42-45DAT	COMPLETO+ 300ml/16L H2O
55DAT	SUGAR BLASTER 500ml/16L H2O

10DAT	14DAT	25-28DAT	42-45DAT	55DAT
SEEDLING BOOSTER 300ml/16L H2O	NITROBOOST 300ml/16L H2O	COMPLETO+ 300ml/16L H2O	COMPLETO+ 300ml/16L H2O	SUGAR BLASTER 500ml/16L H2O

[illegible]

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NITROBOOST (5L/HA)	✓		✓		✓		✓		✓		✓	
COMPLETO+ (5L/HA)		✓		✓		✓		✓		✓		✓
SUGAR BLASTER (5L/HA)								✓		✓		

- Apply @ nursery stage monthly
- Apply to daughter plants monthly
- Apply monthly before and after flower and fruit set
- Apply as needed during heat, water and pest related stress for recovery

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NITROBOOST (5L/HA)	✓		✓		✓		✓		✓		✓	
COMPLETO+ (5L/HA)		✓		✓		✓		✓		✓		✓
SEEDLING BOOSTER		✓		✓		✓		✓				✓

2L-3L/HA SEEDLING BOOSTER 30 DAFI / 60 DAFI 90 DAFI

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NITROBOOST (5L/HA)	✓		✓		✓		✓		✓		✓	
COMPLETO+ (5L/HA)		✓		✓		✓		✓		✓		✓
SEEDLING BOOSTER		✓		✓		✓		✓				✓

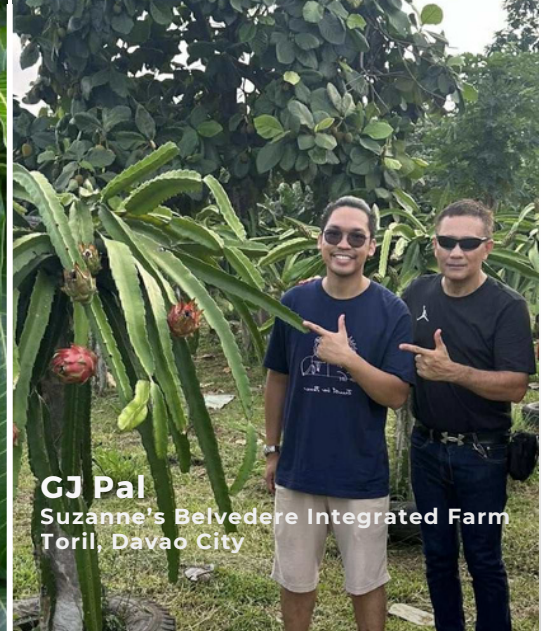
2L-3L/HA SEEDLING BOOSTER 30 DAFI / 60 DAFI 90 DAFI

CITRUS	
Nursery <12 months	Developmental 1-10 years old
SEEDLING BOOSTER 300ml/16L H2O	NITROBOOST 5L/HA/mo or 500ml/200L drum for 20 trees
	SEEDLING BOOSTER 3L/HA / 200ml / drum
Fruiting-Maturity 11-30 years old	COMPLETO+ 5L/HA or 500ml/200L drum for 10-15 trees applied 2x/month
	SUGAR BLASTER 500ml/16L H2O

Nursery <12 months	SEEDLING BOOSTER 300ml/16L H2O	SEEDLING BOOSTER 3L/HA / 200ml / drum
Developmental 1-10 years old	NITROBOOST 5L/HA/mo or 500ml/200L drum for 20 trees	SEEDLING BOOSTER 3L/HA / 200ml / drum
Fruiting-Maturity 11-30 years old	COMPLETE+ 5L/HA or 500ml/200L drum for 10-15 trees applied 2x/month	SUGAR BLASTER 500ml/16L H2O

SODACO Farm
Davao Del Sur, Philippines

Davao Del Sur, Philippines



	Plant Tissue Nutrient Sufficiency Guide Ranges* Per KG Leaves										
	Percentage (%)						Parts Per Million (ppm)				
	N	S	P	K	Mg	Ca	B	Zn	Mn	Fe	Cu
Avocado	1.60 - 2.20	0.20 - 0.60	0.10 - 0.25	1.00 - 2.00	0.30 - 0.80	1.00 - 3.00	50 - 100	30 - 50	30 - 80	50 - 150	5 - 15
Banana	2.0 - 3.5	0.1 - 0.3	0.2 - 0.5	2.5 - 4.5	0.2 - 0.5	0.5 - 2.0	20 - 100	20 - 50	40 - 300	50 - 200	5 - 20
Cacao	2.5 - 4.0	0.15 - 0.5	0.15 - 0.6	1.5 - 3.0	0.2 - 0.6	0.3 - 1.0	20-60	15 - 60	20 - 400	50 - 300	4 - 20
Citrus	2.40 - 3.00	0.20 - 0.40	0.25 - 0.30	1.00 - 2.00	0.25 - 0.70	3.50 - 5.50	30 - 60	25 - 70	30 - 100	60 - 150	10 - 20
Coffee	2.0 - 3.5	0.1 - 0.4	0.1 - 0.5	1.0 - 2.5	0.2 - 0.6	0.3 - 1.0	20 - 100	15 - 60	20 - 400	50 - 300	4 - 20
Dragonfruit	2.5 - 3.5	0.15 - 0.5	0.2 - 0.5	1.5 - 3.5	0.3 - 0.8	0.5 - 2.0	20 - 50	20 - 50	40 - 200	50 - 200	5 - 20
Grapes	1.5 - 2.5	0.1 - 0.4	0.1 - 0.4	1.0 - 2.5	0.2 - 0.5	0.5 - 3.0	20 - 100	15 - 60	20 - 400	50 - 300	4 - 20
Jackfruit	2.0 - 3.5	0.1 - 0.4	0.1 - 0.5	1.0 - 2.5	0.2 - 0.6	0.5 - 3.0	20-60	15 - 60	20 - 400	50 - 300	4 - 20
Lanzones	2.0 - 3.5	0.1 - 0.4	0.1 - 0.5	1.0 - 2.5	0.2 - 0.6	0.5 - 3.0	20-60	15 - 60	20 - 400	50 - 300	4 - 20
Mango	1.00 - 2.00	0.15 - 0.35	0.10 - 0.35	0.80 - 1.50	0.15 - 0.50	1.50 - 5.00	25 - 50	20 - 50	50 - 100	50 - 200	8 - 20
Papaya	2.0 - 3.5	0.1 - 0.4	0.1 - 0.5	1.0 - 3.0	0.2 - 0.5	0.5 - 3.0	20-60	15 - 60	20 - 400	50 - 300	4 - 20
Pineapple	2.5 - 3.5	0.15 - 0.5	0.2 - 0.5	1.5 - 3.5	0.3 - 0.8	0.5 - 2.0	20 -50	20 - 50	40 - 200	50 - 200	5 - 20
Strawberry	2.0 - 4.0	0.1 - 0.4	0.2 - 0.5	1.0 - 3.0	0.2 - 0.5	0.5 - 3.0	20 - 100	15 - 60	20 - 400	50 - 300	4 - 20

Source: Plant Analysis - A Diagnostic Tool, University of Wisconsin, Bulletin A2289, Agronomy Handbook, 2014 Edition, Don Ankerman, B.S. & Richard Large, Ph.D.

MANGO GAMECHANGER Liquid Feeding Program

Flushing 180/150 DBFI	Conditioning 120/90/60 DBFI	Flower Induction (0 DAFI)	Bud Emergence & Elongation (10-14 DAFI)	Pre-bloom (Pabaon 20-26 DAFI)	Fruit Setting (33-37 DAFI)	Fruit Setting (38-43 DAFI)	Fruit Dev't (44-49 DAFI)	Fruit Dev't (56-60 DAFI)
								
		Contact Insecticide + Fungicide (if wet season) +	Systemic with contact insecticide + Contact fungicide +	Systemic insecticide + Protectant foliar-applied fungicide +	Systemic insecticide + Fungicide +	Systemic + contact insecticide + Fungicide +	Contact insecticide + Fungicide +	Insecticide + Protectant foliar-applied fungicide +
NITROBOOST 500ml / 200L water + SEEDLING BOOSTER 200ml / 200L water	COMPLETO+ 200ml / 200L water	SUPERBLOOM 1-2L / 200L water	COMPLETO+ 200ml / 200L water	SEEDLING BOOSTER 200ml / 200L water	COMPLETO+ 200ml / 200L water	COMPLETO+ 200ml / 200L water	COMPLETO+ 200ml / 200L water	SUGARBLASTER 200ml / 200L water
								

Apply **SEEDLING BOOSTER** as needed in any stage of the crop to recover from heat, water or pest related stress conditions

**DBFI - Days Before Flower Induction
**DAFI - Days After Flower Induction

**Spray Volume:

>Century Old Trees = 6 x 200L Drum
>Large Canopy Grafted Trees = 3 x 200L Drum

>Medium Canopy Grafted Trees = 2 x 200L Drum
>Small Canopy Grafted Trees = 1 x 200L Drum

BIG TIME HARVEST, BIG TIME FARMER

"Ang ganda talaga ng epekto ng GameChanger liquid fertilizers na Nitroboost, Completo+, Seedling Booster at SugarBlaster sa mga fruit trees ko like dalandan, longkong, lanzones, dragon fruit at iba pa!!!"

"Sumasayad sa lupa sa hitik ng bunga!...at napakatamis pa!"

Ric Espiritu
Proprietor
Espiritu Integrated Farming Inc

"Sa Completo+ pa lng na 200ml/drum ang ganda ng quality at size ng bunga at tumitimbang ng 500 grams to 700 grams kada bunga. Sa GameChanger protocols nadagdagang kita ko sa isang area ko ng Php120,000!!!"

Rickson Olimpus
Vice - President
Mindanao Integrated Mango Stakeholder Association (MIMSA),
Mindanao, Philippines



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SIMON
A G R I

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