

Why Rebeearth

Improve Your Yields and Product Quality Through Bio-Stimulation

Rebeearth helps the plant to reach its optimum productive power in a natural way, produce more and of better quality. It stimulates processes in the soil and the plant such as microbiology, genetics, photosynthesis, auto-immune, hormonal and (re)production. In the same process, the negative effects of various forms of stress that affect the productivity and health of the plant are strongly reduced or eliminated.

Eliminate Stress

Stress is a major cause of low productivity and bad quality products today. It interferes with several important processes such as the availability of nutrients, the micro life of the soil and the total development of the plant from root to fruit. Rebeearth eliminates stress, so the soil and the plant behave in a more optimal way, resulting in a significant increase in quality and productivity.

All crops are affected by some level of stress that interferes with their natural processes of productivity, plant health and harvest quality. Sorts of stress:

1. Phenological changes: germination, vegetative development, flowering, setting, fruit development
2. Agricultural practices: sowing, transplanting, pruning, flowering stimulation
3. Climate: dry, excessive rain, cold, heat
4. Nutritional excesses & deficiencies
5. Chemical application and poisoning

With Rebeearth these negative effects are reduced and productivity and health are restored to the plant.

Improve Processes in the Soil and Plant

In the soil, Rebeearth stimulates and strengthens beneficial microbiology towards a natural balance, thus improving pathogen control. It stimulates root development, with more roots and absorbent hairs, the plant is able to nourish itself better in a natural way and produce important components of its defensive system. In that state a plant is able to defend itself much more against pests and diseases.

Besides increasing productivity, the final product of the plant (seed, leaf, flower or fruit) will have a higher concentration of solids. With more solids the final product is more resistant, of better quality (taste/color) and with a longer shelf life.

Proven Innovative Technology

Rebeearth is an advanced technology developed in the Netherlands over the past 20 years. With its origin in naturopathic medicine for human health it combines the functions and benefits of many natural inputs into one product. It works on the level of ionic charges, harmonizing charges to minimize the negative effects of nutrient and molecule excesses and deficiencies in the soil. With the combination of functions Rebeearth combines we see increased availability of nutrients for the plant.

The Benefits of Bio-Stimulation with Rebearth

Soil micro life

1. It accelerates the reproduction of beneficial microorganisms
2. It enhances the functions of the beneficials (N-fixation, solubilization, defense)
3. It creates limiting conditions for pathogens

Root system (roots)

1. Stimulates growth in time and size
2. More production and stability of absorbent hairs (important for Ca)
3. Healthier roots, better resistance to fungi (fusarium, phytophthora) and insects

Plant development

1. Faster natural growth (less braking) in various crops
2. More homogeneous plant size, less difference in height
3. Increases photosynthesis and protein production at all stages

Plant Health

1. Strengthens all plant tissue, increases dry matter.
2. Strengthens auto-immune system (repellent, toxic, repair)
3. Reduces presence and damage from diseases and pests

Productivity

1. Increases branching, number of flowers, fruit set, number of fruits and total kilos
2. Improves weight in dry matter (starch, protein, minerals) of leaf, fruit and grains/seeds
3. More export quality or premium product, less damage

Harvest quality

1. Improves shelf life and resistance to pests, diseases and post-harvest dehydration
2. Improved taste due to greater variety and concentration of components in the dry matter
3. Sizes of produce are more homogeneous, more commercial

Compatibility

1. Rebearth is compatible with all types of input, like fertilizer, pesticides and herbicides
2. Does not require a specific soil and water pH level
3. Can be applied as a foliar application in wet conditions and low sun/heat

Pesticides and biological inputs

1. Rebearth reduces stress to the plant caused by pesticides without affecting its function
2. Rebearth has a synergy with biological inputs as well as fertilizers
3. Works great with bio-fertilizers, mycorrhizae, tri-choderma and soil improvers

About Artificial Inputs, Cost Reduction and Testing

Fertilizers

We have seen in multiple trials that reducing NPK (mainly Nitrogen) and even eliminating fertilizers altogether can give an increase in productivity and crop quality. Although Rebeearth improves plant conditions and nutritional efficiency, local conditions do vary.

Pesticides

For greater health of the soil, plant, root system, foliage, flower and fruit, we recommend reducing the amount of pesticides since the application of REBEARTH will increase in the self-defense system of the plant that seriously reduces the presence of pests and diseases.

For instance in Africa and South America, the application of Rebeearth has proven to be very effective in eradicating Fall army-worm, Striga-weed, aphids, root-rot, nematodes, stem-borer and many common bacteria and fungi.

Hormones

We recommend minimizing or eliminating the use of hormones at all stages. Rebeearth acts as a de-stresser and gives the information that your plants genetics use to grow without stress, without being held back by nutrient or chemical excesses or deficiencies.

Testing

We advise testing with a Rebeearth only test plot next to the regular method and monitor the results.

NOTE: For best comparison. Be sure that run-off water and or spray can't effect the regular treated crops.

The Use of Rebeearth in Agriculture Means:

1. **Organic and Chemical free Plant and Soil care**
2. Higher germination percentage (especially with seed treatment)
3. Faster, wider and better quality vegetative development
4. Reduction of soil fungal damage
5. Better flowering and setting, more commercial fruit
6. More homogeneous fruit development per plant
7. Reduction or illumination of most invaders like: aphids, thrips, whitefly, leaf-miner, Fall Armyworm, mildew, Striga-weed, many bacteria and fungi
8. Heavier fruit, dry matter, more compact
9. Brix level can increase, if too low. In case of good Brix, the taste is improved by increasing acids and proteins in the pulp
10. Longer shelf life and stress resistance in logistics
11. **In Short: Rebeearth acts like an Organic Pest-Control and Fertilizer in One**

Application Protocol

G1 Cereals

Applications	First	Second	Third
	As Seed Treatment	1 Week After Germination	After 1 st Weeding/ 3-4 Weeks
Maize	Yes	Yes	Yes
Sorghum	No	Yes	Yes
Beans	Yes	Yes	Yes
Green grams	Yes	Yes	Yes
Pigeon peas	Yes	Yes	Yes
Watermelon	Optional	Yes	Yes
Sunflower	Optional	Yes	Yes

Seed Treatment

For 1 Acre of Seeds use 5L Water in a Bucket, add 1 Sachet of Rebeearth 5.0. Let it stay overnight.

Application in the field with backpack, pump or handspray

Add 1x 5ML sachet Rebeearth 5.0 for ±1000m² to enough water, 16L-20L backpack

Use 4x 5ML sachets Rebeearth 5.0 for 1 Acre.

Always Apply Rebeearth on a Wet Soil !

Rebeearth has no competition or negative influence with other inputs and is allowed to mix with all types of inputs, as long as it reaches the soil. Rebeearth makes other inputs stronger so we advise to use less of these to prevent negative effects like burn on leaves. It works at any pH.

See Application Guidelines for Optimal Performance

Application Protocol

G2 Vegetables

Applications	First	Second	Third
	At Seedbed	At Transplant	Once A Month thereafter
Local	Yes	Yes	Yes
Capsicum	Yes	Yes	Yes
Tomatoes	Yes	Yes	Yes
Kale	Yes	Yes	Yes
Pili Pili	Yes	Yes	Yes

The treatment above also includes other vegetables not mentioned here

Application in the field with backpack, pump or handspray

Add 1x 5ML sachet Rebeearth 5.0 for ±1000m² to enough water, 16L-20L backpack

Use 4x 5ML sachets Rebeearth 5.0 for 1 Acre.

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See Application Guidelines for Optimal Performance

Application Protocol

G3

Applications	First	Second	Third
	At Seedbed	At Transplant	Once A Month thereafter
Groundnut	Yes	Optional	No

Groundnut like Sweet Potatoes require minimal fertility hence few applications

G4

Applications	First	Second	Third
	One Week After Planting	At Transplant	Once A Month thereafter
Sweet Potatoes	No	Yes	Optional
Irish Potatoes	No	Yes	Optional
Cassava	No	Yes	Optional

Application with backpack, pump or handspray

Add 1x 5ML sachet Rebeearth 5.0 for $\pm 1000\text{m}^2$ to enough water, 16L-20L backpack

Use 4x 5ML sachets Rebeearth 5.0 for 1 Acre.

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