

Have You Had Heavy Rains, Hail, And Strong Winds? Boost Your Plants Recovery Post Stress Periods

By Damara Bio Agri



Cloud cover, a plants brix levels, and its photosynthetic capabilities are tied together in a complex web of interaction. The aim of this article is to get to grips with understanding how a plants energy, ultimately their brix level, is impacted because of prolonged cloud cover, heavy rains, hail and strong winds, and how this influences the plants natural process of photosynthesis. We will then discuss how Plantsure, an organic plant derived product, available at Damara Bio-Agri can help to boost your plants recovery post stress periods.

First and foremost, let's understand more about Brix;

"The sugar levels in a plant are like a gauge of photosynthetic activity. They are also a gauge of the health of the plant; the **higher the sugar levels, the healthier the plant.**" Brix is the measurement of sugar levels, vitamins, minerals, proteins, and other solid content in plants and is measured using a refractometer. When a plant has a high brix level it is an indication that the plant has been grown in a healthy medium, with sufficient nutrients and water. The plant has the capacity to build essential oils to protect itself from pests and diseases functioning at an optimal level of photosynthesis, turning light into yield at its maximum capacity.

Low Brix (sugar) values in plants means poor nutrition and signal a weak plant. Weak plants attract pests and diseases. When a plant has deficiencies, it consists of simple sugars and incomplete proteins that are natural attractors of pests. This plant will tend to photosynthesise less, during which time the plant is not able to efficiently use the energy input from the sun to absorb carbon dioxide from the air, and water from the soil, to produce the necessary sugars and carbohydrates that coincide with a high yield. However, if you have a healthy plant with a high brix level, a pest, for instance, will not be attracted to the plant and will thus go elsewhere.

This is where the effect of cloud cover is most prominent on crops. If you think about it, Zimbabwean summers are characterised by hot sunny days only alleviated by the cool afternoon thunderstorms. Although we all wait in anticipation of rain, have you ever given thought to how those thunderstorms impact a plants energy level? Firstly, have a think about what constitutes a thunderstorm.

The answer to that is clouds! Not only when a thunderstorm is building, but also after a thunderstorm, there tends to be an increase in cloud cover. This increase in cloud cover can persist for hours if not days. Thus, if your crop is already failing to photosynthesise optimally, as a low brix level would highlight, because it has not had access to the correct soil nutrition, persistent cloud cover would only serve to disturb the process of photosynthesis even further. This will have a detrimental impact on the overall crop performance, where studies have predicted that this costs plants 7.5 to 40% of their yield, depending on the type of plant and temperature.

Compounding this issue is the fact that when a plant faces abiotic stressors such as heavy rains, hail or strong winds, as we typically experience in our summers, the sugar levels of that plant further decrease, ultimately meaning plant health decreases. When plant health decreases the plant becomes more susceptible to pests and diseases which can become rampant post stress periods. This is why boosting your plants recovery post stress periods is so important.

There's only one way to boost your plants recovery = **Increase Brix Levels**

So, how can we do this?

Building a core foundation is always going to be the most important way to maintain a high energy and healthy plant. However, when we are faced with the challenge of increasing a plants photosynthetic rate post stress periods

we've got a solution at Damara Bio-Agri called Plantsure. Plantsure is an organic product derived from natural plant material, consisting of L- Amino Acids, Organic Acids and Phytohormones. Plantsure is a product that has been proven to increase Brix (sugar) levels in plants. With growth promoting auxins and cytokinins, resistance inducing organic acids and the purest form of amino acids that can be readily absorbed by the plant, Plantsure stimulates overall plant health and increases plant immunity.

Using a product like Plantsure to increase your plants photosynthetic rate and ultimately the Brix level of that plant will offer various benefits:

- Increased resistance to pests and disease
- Improves plants recovery post stress periods
- Increases general plant health
- Plants with a higher Brix level will not rot and mould as easily

Readily available in 1L, 5L and 20L containers and suitable for use on all crops.

Please note we also have refractometers available at Damara Bio-Agri that can be used to measure the Brix (sugar) levels of your crops on farm.

If you would like to know more about Plantsure or Refractometers please get in touch with us at sales@damarabioagri.com or 08677005277.

Plantsure™

Have you had Heavy Rains, Hail and Strong Winds?

Boost your plants **RECOVERY** post stress periods.

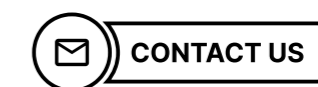
There's only **ONE** way to boost recovery = **INCREASE BRIX LEVELS**

How does Plantsure help boost your plants recovery following abiotic stress?

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