

PLANT STRESS MANAGEMENT

Nutri-Wise Report

FROST PROTECTION IS ONLY PART OF THE STORY

During periods of cold weather, or in severe circumstances — frost events, crops are subjected to periods of extreme stress and often these events coincide with critical periods of plant development.

Even in early spring each plant is setting its growth parameters for the season based on how it perceives its environment. Any “checks” in growth at this time can have a dramatic effect on both the yield and quality potential of the crop. Obviously protecting the crop from exceptionally cold conditions or frost is a priority, however, measures that can be taken to protect and enhance the plants physiology both before and after such an event are often overlooked.

It is a fact that plants which are growing and functioning at an optimum level are far less susceptible to frost damage than those which are under stress. You will have noticed that during very dry conditions, frost events appear to cause considerably more damage. So it is reasonable to conclude that if you can maintain optimum plant function even during periods of adverse weather, you will reduce the potential damage to the crop.



Terra-Sorb® foliar

Consider also the importance of achieving the quickest possible recovery of the crop after it has been exposed to adversely cold conditions. The longer the interval until the plant returns to optimum function, the greater the risk of secondary damage (from disease for example) and the greater the reduction in yield potential.

Until now various methods have been explored to prepare crops for cold conditions and to

aid their recovery. For example using potassium to harden growth and reduce crop injury, or using nitrogen to stimulate recovery. Both these methods compromise the overall well-being of the plant. More recently seaweed based growth stimulants have been evaluated, with encouraging but limited results.

Now there is a better way!

MAXIMISE YOUR CROPS POTENTIAL

Terra-Sorb foliar is a unique new product with technical credibility, that will greatly improve any crops ability to achieve its full genetic potential even in the face of adverse growing conditions.

Terra-Sorb is a fertiliser based on a package of all 18 essential amino acids required for plant function. These amino acids are derived by enzymatic hydrolysis, a process exclusive to Biolberica, the manufacturer. This is the only method of extracting “free” or L α amino acids and only Lα amino acids are able to form proteins, or “biologically active” These biologi-

cally active amino acids complement those produced by plants, and only Terra-Sorb contains all amino acids required to produce proteins.

So now when you apply Terra-sorb to a crop that could be adversely effected by cold conditions (any spring crop in the South Island!) you are complementing and supporting the plants own metabolic function. In addition to this each amino acid is enhancing the plants own functions, for example opening stomata and improving transpiration, which in turn lifts the plant

function as a whole. When you apply Terra-Sorb to crops during stress you provide a direct supply of amino acids which provide energy for essential physiological processes (nitrate-nitrite+ammonia). Combine this with Gibberellins and auxins (Seamac PCT) and get an important synergistic effect, the formation of cytokines the hormones that promote cell division or growth. All this contributes to a balanced nutritional state which in early spring increases your crop’s yield potential.

USE

Terra-Sorb®

NOW!

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merchant or



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