

APPLES

ANTI-STRESS 550[®] is a non-toxic, biodegradable, water-based polymer concentrate. When applied as a foliar spray, Anti-Stress 550[®] creates a unique semi-permeable, elastic membrane that reduces moisture loss and insulates plants.

Benefits of applying **ANTI-STRESS 550[®]** to Apples:

- Reduces damage to buds and blooms during periods of late frost and freeze.
- Improves tolerance to frost/freeze by 4° - 6° F
- Improve skin finish and reduce russetting caused by wind and water stress.
- Allows for normal stomatic activity and does not interfere with photosynthesis.
- Allows for unrestricted plant growth permitting leaf and plant flexibility.

Application of **ANTI-STRESS 550[®]**:

- 1- 5 gallons of Anti-Stress 550[®] should be applied per 100 gallons of water, up to 5%.
- Anti-Stress 550[®] is a foliar spray that may be applied with most types of conventional farm, orchard or ground spray equipment.
- Critical Application Times: At late bud burst and at late green cluster.
- Application is effective for 30 – 45 days. Will not wash off with normal rainfall.
- Sufficient spray pressure/volume must be used to dispense Anti-Stress 550[®] over and throughout the entire plant surface.

Available in 2.5 gallon containers, 30 & 55 gallon drums, and 275 gallon totes.

Pesticide use permit not required / Applicators License not required
Anti-Stress 550[®] is exempt from reporting by California requirements
Not a Pesticide

Request **ANTI-STRESS 550[®]** by name
from your local Ag Retailer

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FEBRUARY 2001

Vol 11 No.9

Product that saves produce from stress

Richard and Audrey Staples have been growing apples for 47 years at Main Ridge on Victoria's Mornington Peninsula. They have been involved in trials of an antitranspirant product called Anti-Stress that has been in Australia for three years. They came across the product when their son Michael visited the Australian National field days at Orange, NSW.

Another son Glenn now manages their 12 hectare orchard which has a high density of 1500-1700 trees/ha. He picked out two small blocks for his trial, one being 0.4ha and the other of 0.3ha. He treated Fuji and Golden Delicious apples. On October 25, 1999 he used a ratio of 50:1 (that is 50 litres of water to one litre of Anti-stress) and set his sprayer at 150 litres/ha on the first block and upped the volume to 250 litres/ha on the second. A second application of Anti-stress was made later on November 25, 1999.

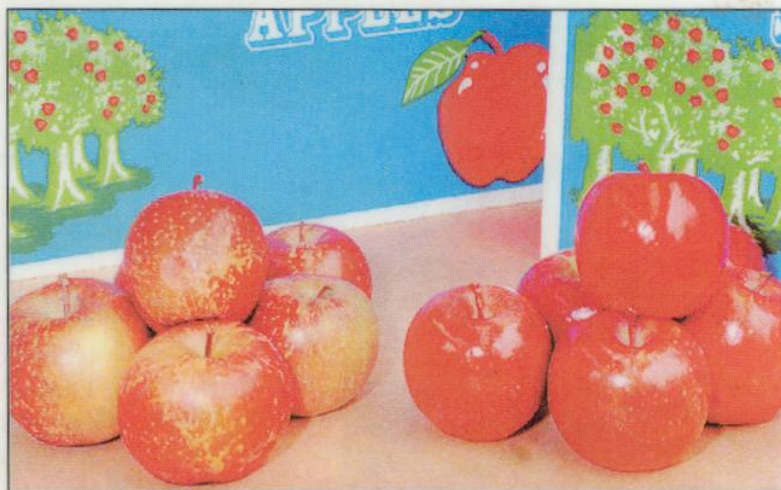
The product lasts for 30-45 days and is broken down by ultra violet sunlight, but is not washed off by rain. On the second occasion he used a ratio of 75:1 (that is 75 litres of water to one litre of Anti-stress) and using the same application rates of 150 litres/ha and 250 litres/ha for each of the blocks.

He noticed that over the growing season and after harvest the apples had a better skin finish, in particular the Fuji's. Apples are prone to russetting on the fruit caused by wind and water stress. Glenn Staples said russetting was reduced by using Anti-stress.

Audrey Staples, who is involved with the packing in the shed, estimated that in seasons past russetting rejects could be as high as 10% whereas by using the Anti-stress russetting was reduced to less than 1%. Glenn Staples was intending to conduct larger trials during the 2000 season.

In August 1998 *Good Fruit and Vegetables* reported on the fantastic results a farmer from the United Kingdom was receiving after using Anti-stress for the past seven years on apples, pears and plums. Since its introduction into Australia three years ago, Australian farmers have found that Anti-stress gives protection to plants that suffer from frost, wind, water or severe heat stress and is effective on a large range of horticultural crops including citrus, olives, potatoes and fruit trees.

Contact: Peter Newbury, phone (07) 4630 0622.
Material supplied by Friendly Ag Products Pty Ltd.



Wind and water stress have caused russetting on fruit on the left, while those on the right have been protected with Anti-Stress.



Glenn Staples shows the results that are possible through using Anti-Stress on these Fuji apples.