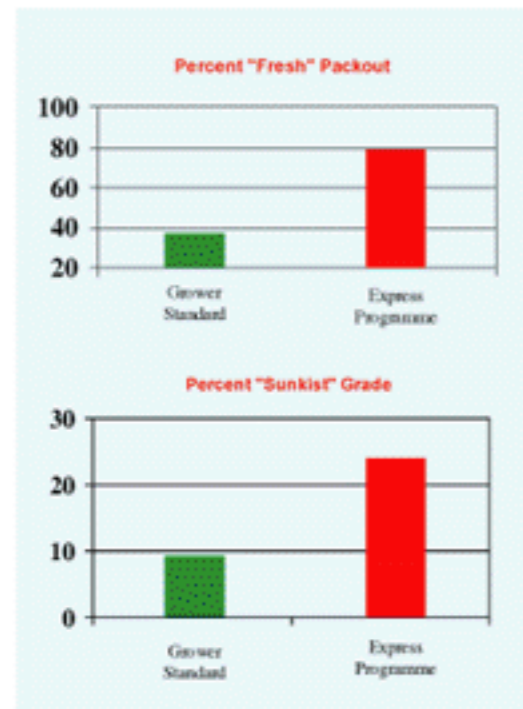


Lemon Trial, California USA 2004

Nutrient Express and Sugar Express were applied in the following programme during the growing season.

Early Bud Stage	Nutrient Express 18-18-18 6.2kg/ha Microplex 1kg/ha (chelated micronutrient)
Petal Fall	Sugar Express 4-10-40 6.2kg/ha Microplex 1kg/ha
Bud Formation	Nutrient Express 4-41-27 6.2kg/ha Microplex 1kg/ha

The pack out of the lemons are graded into "Fresh" (premium) which comprises "Sunkist" (export grade) and "Choice" (domestic premium grade). The Nutrient Express programme gave a greater pack out of premium grade fruits.



Hot Yellow Peppers Trial (Variety Santa Fe), Metler, California, USA 1997

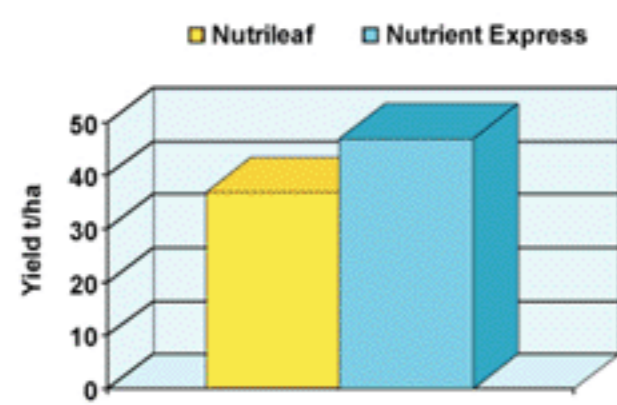
This trial showed a clear advantage of using Nutrient Express compared to normal foliar formulas. The Nutrient Express programme increased the yield of Hot Yellow Peppers by 9.88 tonnes per hectare (27%).

Treatment 1:

Nutrient Express 4-41-27	5.5 kg/ha	3 leaf stage
Nutrient Express 4-41-27	5.5 kg/ha	1st flower
Nutrient Express 18-18-18	5.5 kg/ha	14 days after
Nutrient Express 18-18-18	5.5 kg/ha	14 days after
Nutrient Express 18-18-18	5.5 kg/ha	14 days after

Treatment 2:

The standard treatment used Miller's Nutrileaf 12-48-8 and 20-20-20 at the same rates and timings as above.



Watermelon Trial (Variety Tri X313), Metler, California, USA 1997

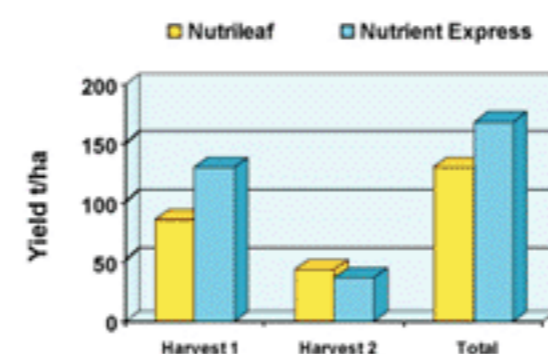
This trial showed a clear advantage of using Nutrient Express compared to normal foliar formulas. The Nutrient Express programme increased the yield of water melons by 37 tonnes per hectare (28%).

Treatment 1:

Nutrient Express 4-41-27	5.5 kg/ha	Third leaf
Nutrient Express 4-41-27	5.5 kg/ha	Runners 15cm
Nutrient Express 18-18-18	5.5 kg/ha	Early fruit set
Nutrient Express 18-18-18	5.5 kg/ha	14 days after
Nutrient Express 18-18-18	5.5 kg/ha	14 days after

Treatment 2:

The standard treatment used Miller's Nutrileaf 12-48-8 and 20-20-20 at the same rates and timings as above.



Cucumber Trial (Variety Speedway), Eastern Shore, Virginia, USA 1997

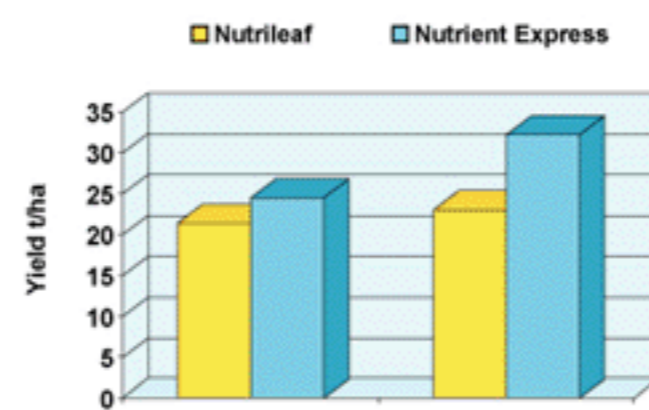
This trial showed a clear advantage of using Nutrient Express compared to normal foliar formulas. The Nutrient Express programme increased the total yield of cucumbers by 40%, and increased the yield of premium grade cucumbers by 14%.

Treatment 1:

Nutrient Express 18-18-18	5.5 kg/ha	3 to 5 leaf stage
Nutrient Express 18-18-18	5.5 kg/ha	14 days after
Nutrient Express 18-18-18	5.5 kg/ha	14 days after
Nutrient Express 4-41-27	5.5 kg/ha	after 1st harvest
Nutrient Express 4-41-27	5.5 kg/ha	7 days after

Treatment 2:

The standard treatment used Miller's Nutrileaf 12-48-8 and 20-20-20 at the same rates and timings as above.



Cucumber Trial (Variety Dinado), Marathona, GREECE 1997

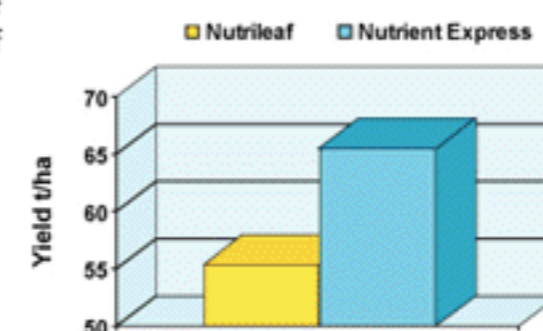
This trial showed a clear advantage of using Nutrient Express compared to normal foliar formulas. The Nutrient Express programme increased the total yield of cucumbers by 15.4%.

Treatment 1:

Nutrient Express 18-18-18	5.5 kg/ha	15 days after transplant
Nutrient Express 18-18-18	5.5 kg/ha	Flowering
Nutrient Express 18-18-18	5.5 kg/ha	10 days after
Nutrient Express 18-18-18	5.5 kg/ha	14 days after
Nutrient Express 18-18-18	5.5 kg/ha	14 days after

Treatment 2:

The standard treatment used Miller's Nutrileaf 20-20-20 at the same rates and timings as above.



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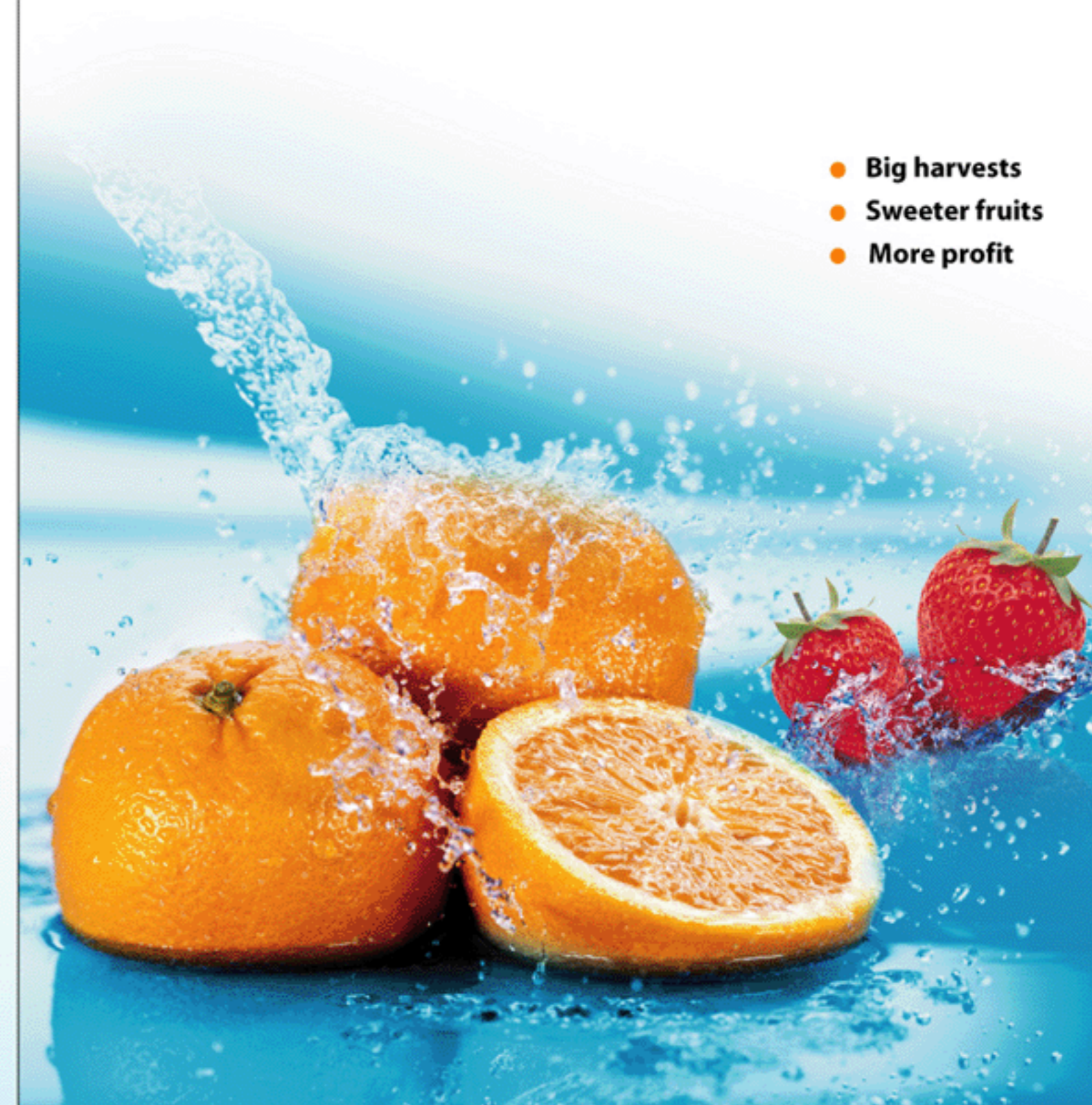
NUTRIENT EXPRESS™
Transcuticular Delivery System



SUGAR Express
Transcuticular Delivery System

Growth, fruit and flower stimulant, sweeter fruit, and high absorption foliar fertilizer

- Big harvests
- Sweeter fruits
- More profit





Express Technology

Nutrient Express™ and Sugar Express™ are the latest from the stable of Express Technology foliar fertilizers developed by Miller Chemical and Fertilizer Company (USA), containing the revolutionary Transcuticular Delivery System™.

Miller's 60 years experience in producing high grade horticultural foliar fertilizer, led them to combine their experience with current research to produce the Express products. Express products stimulate the plant's metabolism to increase its natural defences against diseases, stimulates flowering, reduce flower drop, improve fruit development and colour, increase the brix level of fruit and provide a higher absorption of nitrogen, phosphorous, potassium and micro-nutrients into the leaves of plants.

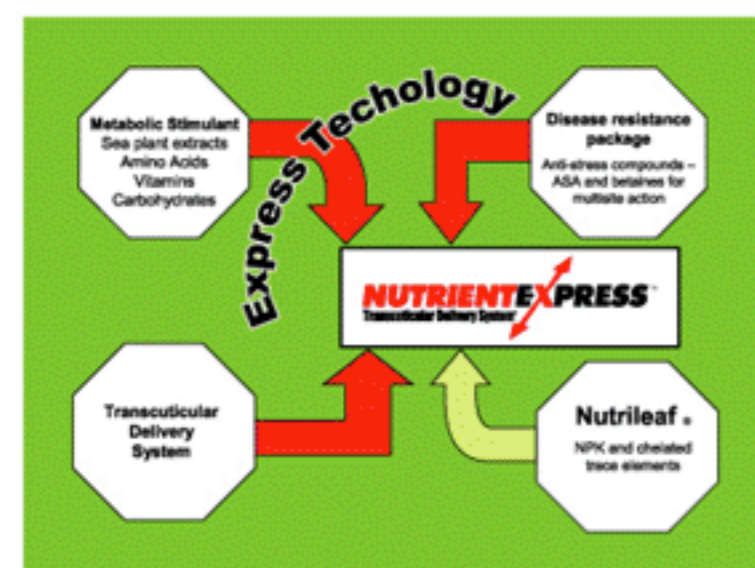
What does it contain?

Nutrient Express and Sugar Express contains sea plant extracts from *Ascophyllum nodosum* (Kelp), Protein in the form of Amino Acids, Carbohydrates form Natural Plant Sources, a multi-vitamin complement and the Transcuticular Delivery System™ designed to ensure maximum absorption of the product into the leaf of the plant with minimal loss on the leaf.

It is the unique combination of many

known plant growth stimulants that makes Nutrient Express a unique product. Powerful flower and growth promotion coupled with the highest quality foliar fertilizer in the world.

It contains Miller's high quality NPK foliar fertilizers which are free of salt and low in biuret. Every Miller formula contains 100% chelated micro-nutrients



How does it work?

Nutrient Express™ improves the metabolic activity of plants. It stimulates root growth, flowering, enhances flower retention, fruit development, nutrient availability, colour, ripening and sugar levels.

What is the Transcuticular Delivery System?

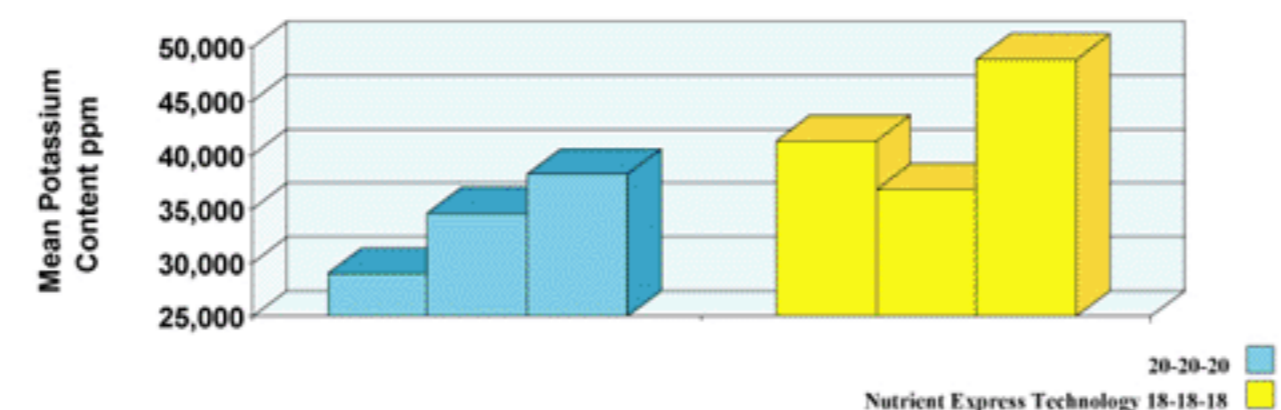
This is an advanced adjuvant system, designed to maximize absorption over wide ranging environments and stress conditions. It helps movement through phloem and xylem tissue in order to improve total plant utilization.

Conventional foliar fertilizers begin to dry once applied to the leaves and begin to crystallize. The adjuvant system in Nutrient Express has three main roles. Firstly it slows the drying process and crystallization of the foliar nutrient so that more is available to plants. Secondly, it is an effective penetrant helping nutrients into the plant. Thirdly it protects the ingredients from wash off by rainfall.

The Transcuticular Delivery Sytem™ has been tested and shown to improve the uptake of foliar nutrients. A trial was conducted by Micro macro International Research, USA 1999 showing the mean Potassium content recorded in the leaves of "California Wonder" Bell peppers. Leaf analysis taken at three intervals.

H= Harvest 1, 2 or 3

LEAVES



How do the ingredients of Nutrient Express work?

Many years of experience and a co-operation between Miller, Roche, AE Staley, Mandops and University Research literature resulted in the development of the Express Technology. The exact formula of Nutrient Express is a carefully guarded secret. The key ingredients are:

Algal Extracts

Algal extracts influence auxin production in the plant. Auxin is a plant hormone that is critical for cell division and is important for root and fruit development and shoot formation.

Amino Acids

Nutrient Express contains amino acids in the L- form – the most readily assimilated amino acids for plants. Amino acids are the building blocks of proteins. By applying them through foliar spraying plants conserve energy and can continue growing during times of stress (heat, cold) when the energy levels of the plant are low. Amino acids stimulate the plant metabolism and also increase the movement of plant nutrients into the leaf.



Vitamin Package

Research into vitamins in plants is complex and has been conducted for many years. Only certain vitamins are beneficial to plants. Vitamins are important for cell development and some vitamins stimulate flowering and reduce flower drop. Research in cotton has shown that vitamins can increase flower production by 15-20%. Other vitamins have been proven to improve pigmentation (colouring) of fruits.

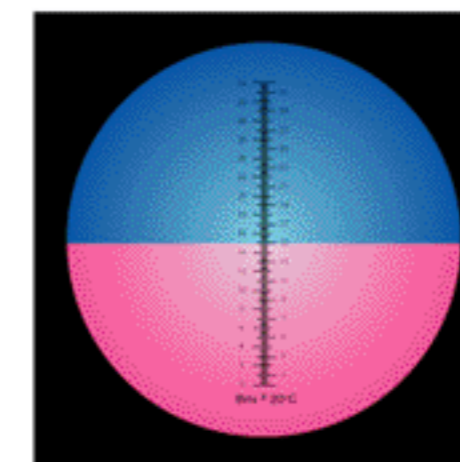
Carbohydrates

Certain carbohydrates are added to Nutrient Express to increase temperature tolerance and to improve the brix (sugar) levels of fruits. As temperatures increase past optimum photosynthesis and carbohydrate production decrease. In the early stages of a plant's growth carbohydrates are used for vegetative growth and during fruit production they are moved to the fruit for the production of sugars.

Anti-Stress Compounds

These help plants to strengthen against disease attacks and to reduce environmental stress. Betaines and ASA (salicylic acid) help preserve the structure of enzyme proteins during periods of heat and cold, water stress and in high alkaline soil conditions.

Field tests have shown an increase in brix in dragon fruits up to 10% after using Sugar Express



The brix meter is used to measure increases in brix (sugar) levels.



What type of crop improvements do we get?

The metabolic improvement and the increased nutrient absorption give a number of distinct advantages. Nutrient Express improves flower set and because it stimulates flowering the crop will tend to flower earlier. For crops prone to flower abortion, Nutrient Express will help retain flowers resulting in more flower and fruits per crop.

Crop yields are increased through larger fruit size and greater fruit set.

Why is Nutrient Express more expensive than other fertilizer formulas?

Nutrient and Sugar Express are primarily metabolic stimulants while fertilizing at the same time. The nutrient uptake is improved by 10-20% depending on environmental conditions. Farmers using Nutrient and Sugar Express on high value crops consistently have higher yields, better pack outs and higher net returns compared to using a standard foliar fertilizer programme.

Field Trial Results Strawberries

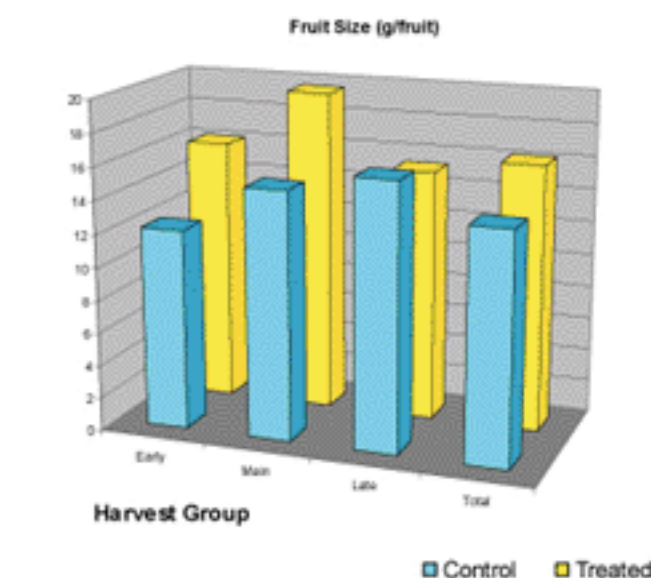
Trial 1: New Zealand 2003

A trial was carried out using a Nutrient Express 18-18-18 foliar fertilizer programme, compared with a standard foliar fertilizer programme, on Strawberry (Gaviota variety) strawberry in the Waikato region.

Early season yield for the treated plants was 50.9g/plant compared with 30.7g/plant for the control plants. Total yield per hectare benefit was 1416 kg / ha

Trial 2: New Zealand 2004-2005

Nutrient Express 18-18-18 was applied 18 times at 5kg/ha over the growing season. Nutrient Express treated fruit were significantly larger than the control treatment fruit in the Early and Main parts of the harvest season and over the Total harvest season. The yield for the Nutrient Express treatment was 124.9 g/plant compared with 93.7 g/plant for the control



For the main part of the harvest season, there was a significant difference between the Nutrient Express treatment and the control. The yield for the Nutrient Express treatment was 73.7 g/plant compared with 42.9 g/plant for the control. For the total harvest season (42 picks) the total yield gain per hectare was 5 Tonnes.

