



Working closely with industry to deliver results, benefits for growers



By Trevor Dennis
Managing Director

THE official launch of the new 'Banana One-Shot' fertiliser blend in North Queensland is another proud moment for the Haifa Australia team.

It's been another case of working with industry – this time with Lindsay Rural and local banana growers – to supply what they have asked for and the early feedback from growers has been extremely promising.

This follows on the heels of our work with the almond industry and our philosophy of working closely with all industry segments to supply specialist nutrient products that deliver results and benefits for growers.

The use of Banana One-Shot, which is based on our high quality Poly-Feed product, is taking the hassle out of different fertiliser product applications for growers, it is making fertigation much easier and it is resulting in improved fertiliser use efficiency and production benefits. Our feature begins on page 8.

Meanwhile, Haifa recently completed another successful round of industry seminars, this time in the Netherlands on the fertigation of greenhouse crops and where we hosted a number of Australian delegates.

Haifa combined its resources and know-how from Israel and throughout western Europe to coordinate and sponsor the event in conjunction with horticulture experts at Wageningen University and Research Centre (WUR) in Bleiswijk.

The 'Haifa Pioneering Knowledge Seminar', which was staged over two days, focused on soilless grown cultivation in modern horticulture and included tours of the university's research facilities and local greenhouses.

Haifa's western Europe team also demonstrated the company's new nutrient software and latest products.

The conference highlighted Haifa's continued leadership in global horticulture nutrition and plans are afoot to deliver similar seminars in Australia soon. Haifa Australia only recently hosted leading Israeli soil science expert Dr Avner Silber in the country to talk with growers and industry advisers at the annual Australian Almond Conference and two regional seminars coordinated with the almond and nut industries.

Dr Silber discussed the benefits of pulse irrigation with regular application of small amounts of fertiliser (high frequency fertigation) for open field crops, extending from its traditional use in greenhouse crops.

This demonstrates Haifa's continued efforts to assist growers and industry with improved fertiliser application techniques and operational



Our coverage of the Netherlands Greenhouse Fertigation Conference starts on page 2.

productivity, in addition to supplying improved nutrient products.

Growers and distributors who may be keen to hold similar seminars in their regions should not hesitate in contacting the Haifa Australia team.

We are now looking forward to talking about some of the latest developments in controlled-release fertiliser nutrition soon.

Haifa Australia has good supplies of its high quality water soluble fertilisers available throughout its extensive distribution network and aims to provide strong support to growers and industry.

Come and talk to the Haifa team at

Banana Industry Congress

Palmer Coolum Resort, Sunshine Coast
May 29-June 1

AUSVEG National Convention

May 30-June 1

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Netherlands Greenhouse Fertigation Conference

Australian horticulture delegates learn Dutch fertigation tips

SEVERAL Australian horticulture industry delegates recently got an insight into Dutch greenhouse horticulture and the latest in fertigation of greenhouse crops at an international conference in the Netherlands.

Tony Bundock, Senior Instructor - Controlled Environment Horticulture, from the National Precision Growing Centre at the Chisholm Institute of TAFE in Victoria, Haifa Australia agronomists Shaul Gilan and Peter Anderson, and NSW grower Greg Jarman, of Corindi, near Coffs Harbour, attended the event, which was coordinated by Haifa in conjunction with horticulture experts at Wageningen University and Research Centre (WUR) in Bleiswijk.

The two-day conference also was attended by delegates from Africa, England, Eastern Europe, Western Europe, Scandinavia, Spain and Turkey.

Presented by University faculty members, the event covered basic plant nutrition, principals of fertilisation in greenhouse crops, nutrient management and future trends in fertilisation.

Delegates also toured a nearby commercial seedling nursery and research facilities investigating greenhouse water treatment systems; artificial lighting solutions, including LED lights; growing systems, including floating pots; and aspects of greenhouse design.

Other experiments involved diverse topics, such as algae production, growing systems for annual flower production and evaluation of trial material from plant breeders.

The strong response to the conference has prompted plans for another event in April, 2014.



Tony Bundock, of the National Precision Growing Centre at the Chisholm Institute of TAFE in Victoria, with trials evaluating greenhouse production of algae.



Evaluation of the efficiency of diffuse and direct sunlight underlines what Israeli greenhouse growers have known for a long time: that diffuse sunlight is more effective than direct sunlight. Sunlight is diffused by the use of special glass (or plastic, in the case of Israeli growers) on the roof and walls of the building, which allows efficient spreading of incident light, causing plants to experience light from different directions. Light can therefore reach lower parts of the crop canopy. Clear glass (or plastic) allows direct sunlight onto the crop, resulting in shading of lower areas in the canopy and higher likelihood of sunburn.



Walls made from clear (right) and diffuse (left) glass.



Water treatment systems using both ultra violet and hydrogen peroxide are being evaluated for water sterilising efficacy.



Artificial lighting is used in the production of seedlings and for short periods during winter for some greenhouse vegetable crops. The research is based on a cost comparison of existing conventional grow-lights with newer LED technology. Reports so far indicate no advantage with the LED systems compared with the current, energetically expensive grow lamps.



New greenhouse design is evaluated in structures built to minimise energy use and maximise crop production. In one structure, light is focused by innovative roof design on to photo-voltaic cells suspended above the crop. Extra light energy, not required by the crop, is utilised to produce electricity for heating and other purposes. CO² enrichment is used in some crops and produced as a by-product of burning natural gas for heating. In the low energy greenhouse, this extra CO² is collected and supplied to growers from a nearby industrial area. The aim of this research is to produce crops using the energy that can be supplied by the greenhouse itself, with no additional energy input.

Eye-opener at enormous greenhouse facility

DELEGATES at the recent international greenhouse fertigation conference in the Netherlands also toured the enormous Leo Ammerlaan seedling production facility located near the Wageningen University and Research Centre (WUR) in Bleiswijk.

The greenhouse facility, which comprises more than 25 hectares spread over four sites, produces 10 million vegetable seedlings in rockwool containers annually.

The family-owned company specialises in capsicums, tomatoes, eggplant and cucumber seedlings. Vegetables represent only 75 per cent of the annual output, with the balance including various flowers such as orchids, roses, bedding plants and pot plants.

At the time of the tour, only cucumbers were in the vegetable nursery. Tomato, eggplant and

capsicum already were planted in growers' greenhouses.

While not permitted to photograph the cucumber seedlings, Haifa Australia Agronomist Peter Anderson said Australian growers would have been surprised at the advancement of the seedlings.

"In rockwool containers, the more advanced seedlings were already at flowering stage and were connected to small stakes to keep the 30-40 centimetre vines off the ground," Peter said.

"Many eggplant and tomato seedlings are grafted onto disease-resistant rootstock on site.

"Grading of the seedlings for size is carried out using automated camera graders, with seedlings being graded into three sizes to ensure uniformity of growth when planted out in customers' production facilities."

The nursery is provided with artificial light, while all areas of the greenhouses can be enriched with CO² to promote faster and more efficient growth.

Various irrigation systems are used. A flood and drain system, overhead sprinklers and a travelling boom irrigator can all be used on all crops at various stages.

All irrigation is connected to the fertigation system, which applies fertiliser from a conventional two-tank hydroponic set-up.

The fertilisers used for the two tanks – in the familiar 'Tank A' and 'Tank B' arrangement – are supplied by Haifa and contain all of the macro-elements, plus iron required by the growers. Micro elements, such as copper, zinc and molybdenum, are supplied separately.



NSW grower Greg Jarman, of Corindi, near Coffs Harbour, in the Leo Ammerlaan nursery overlooking staff labelling geranium pots.



Haifa Australia Agronomist Peter Anderson and Tony Bundock, of the National Precision Growing Centre at the Chisholm Institute of TAFE in Victoria, in a potted geranium nursery at the enormous Leo Ammerlaan seedling production facility in the Netherlands.

REACTIONS BETWEEN MINERALS IN THE FERTIGATION SOLUTION AND BETWEEN THESE MINERALS AND PLANTS BECOME CRITICAL TO EFFICIENT PRODUCTION.

PETER ANDERSON, HAIFA AUSTRALIA

Better understanding fertigation solutions for soilless systems

HAIFA Australia Agronomist Peter Anderson says the Netherlands conference assisted a better understanding of the requirements and management of fertigation solutions used in soilless production systems.

Peter said it discussed nutrient requirements of various crops, selection of minerals and the nutrient levels required to achieve optimum crop production.

"As there is no soil to retain moisture in these systems, the supply of water to crops needs to be carefully applied so there is no 'drought' and no excess," he said.

"Similarly, crops grown in soilless media need the mineral nutrition for growth to be supplied in the fertigation solution because there are no soil mineral reserves to tap into."

Peter said fertigation of soilless crops required more thoughtful selection of the quality and quantity of fertilisers used.

"Unlike soil-based production, in the soilless situation there is no accumulation, storage or 'buffering' of minerals."

"Reactions between minerals in the fertigation solution and between these minerals and plants become critical to efficient production.

"When certain minerals are not present in the solution in the required concentration, deficiency symptoms can appear in the crop. It is important to

understand symptoms of deficiency to be able to correct them.

"The inclusion of certain mineral fertilisers in specific proportions can be used in soilless crops to achieve a desired result ('steering'), however, this is not always possible in soil-grown crops due to the 'buffering' capacity of soils."

Mineral levels in soilless solutions are measured by the electrical conductivity (EC) of that solution.

"Understanding the relationship between the strength of nutrient solutions – expressed as EC – and plant growth is basic hydroponics," Peter said.

The reaction (pH) of nutrient solutions and the pH of soilless media can be controlled readily in hydroponics, unlike in soil-grown crops.

"Learning to regulate the media pH through control of the nutrient solution is a factor in soilless production," Peter said.

He said management of recycled nutrient solutions (run-off) was another critical factor.

"Soilless production allows collection and sometimes re-use of the run-off (excess) nutrient solution. This run-off can have a different pH, EC and blend of nutrients after it has been through the media, so understanding blending of run-off and fresh nutrient solution is important," Peter said.



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Years of soil improvement boosts Calavos capsicums



“OUR FERTILISER PROGRAM INCLUDES THE USE OF HAIFA MULTI-K, MAP AND MKP PRODUCTS, FERTIGATED THROUGH PRESSURE DIFFERENTIAL TANKS. WE’VE ALWAYS USED HAIFA FERTILISERS. THE SOLUBILITY OF THE PRODUCTS IS VERY GOOD. WE WON’T BUY ANYTHING FROM CHINA.”

LOU CURINO, CALAVOS



QUEENSLAND capsicum grower Lou Curino has spent a lot of time improving soils on the family’s Calavos properties near Bundaberg and so he is not about to put anything into them that may be of inferior quality.

Lou said the former tobacco farms largely comprised sand, but today the soil structure reflects the benefits of a capsicum and cane rotation, together with millet grown between the capsicum rows for extensive mulching. They also use the millet with sorghum for fallow crops and are now looking to incorporate brassica species.

Lou and his wife, Kerry, grow capsicums over 60 hectares and cane over 80ha on a rotation of three years of cane followed by three years of capsicums.

“The rotation with cane has been good,” Lou said.

“We have built up our soils over time and we now use 10-20 per cent less fertiliser.”

Soil testing is performed on land where cane has been grown for six years and Lou uses the highest quality fertilisers to ensure optimum capsicum production and quality.

The fertiliser program includes the use of Haifa Multi-K, MAP and MKP products, fertigated through pressure differential tanks.

“We’ve always used Haifa fertilisers. The solubility of the products is very good. We won’t buy anything from China,” Lou said.

The Haifa products are highly efficient early growth fertilisers.

The Curinos target up to 1.8 kilograms of capsicums per plant, equating to 2000 8kg boxes of “number one fruit” per acre.

Production can fluctuate according to different varieties, with Tycoon and Warlock now the dominant lines grown.

Capsicums are planted on January 15 for picking from April 10-15 and again on July 17 for harvest from November 17.

The high quality bore water is fed to crops three times each day during the night and early morning.

“We water during the calm periods, not in high winds, and before the heat of the day,” Lou said.

A new pump safely housed in a shed also is allowing Lou to “dial the horsepower” of the system.

“Instead of using 150psi pressures, we are down to 15-40 pound. This has cut our electricity bill in half.”

Recycling is another big focus for the Curinos. Trickle tape that is used under plastic for the capsicums is later pulled out and used for the cane production.

“We now water 30 acres of cane in 12 hours. Previously, this used to take 60hrs with a travelling irrigator,” Lou said.

The Curinos also fertigate their cane through the trickle system.



Queensland capsicum grower Lou Curino, Calavos, with Haifa Australia Sales Agronomist Peter Anderson and some of the Haifa fertilisers used in the capsicum nutrition program.



Lou and Peter inspect the quality of one of the Curino’s capsicum crops.

Growers urged to consider high frequency fertigation to reach next productivity level

PULSE irrigation with regular application of small amounts of fertiliser (high frequency fertigation) is not just for greenhouses – growers reap major benefits from employing this practice in open field crops too.

That was one of the key messages delivered recently by leading Israeli soil science expert Dr Avner Silber, who was in Australia as a guest of Haifa to talk with growers and industry advisers.

Dr Silber, who works with the Agricultural Research Organisation at the Volcani Centre in Israel, said there was a strong synergistic “effect” from adopting regular irrigation with small doses of fertiliser and it resulted in better plant growth.

“High frequency fertigation enhances the ‘time-averaged’ moisture content in the root region, increasing water availability to plants, as well as nutrient availability,” Dr Silber said.

He said there were some in the industry who consider this approach suitable only for greenhouses, but he demonstrated the improved results also could be achieved in open fields and with open irrigation.

“Yield gains that follow increases of fertigation frequency are attributed to the improved availability of non-mobile nutrients, especially phosphorus and micronutrients.”

Dr Silber said phosphorus was one of the most expensive inputs to apply and was highly immobile in the soil, but by using pulse irrigation and small amounts of fertiliser, plants achieve improved access to the nutrient and better growth.



Haifa Australia Managing Director Trevor Dennis with leading Israeli soil science expert, Dr Avner Silber, who was in Australia as the company’s guest to talk with growers and industry advisers.

Regular fertigation also limits concentrations of immobile elements in irrigation water, reducing environmental pollution.

Dr Silber said frequent fertigation improved nutrient uptake through two main mechanisms:

- Continuous replenishment of nutrients in the depletion zone near soil roots.
- Enhanced transport of dissolved nutrients due to the increased average water content supplied.

It also was important to use the correct fertiliser in the correct manner for optimal results, and this is where it was vital to talk with specialty fertiliser companies like Haifa.

Dr Silber urged growers to hone their fertigation skills for further improvements in fertiliser use efficiency and crop productivity.

He said efficient irrigation with latest technology injection systems can lead to increased fertiliser use efficiency and,

ultimately, reduced total input usage.

Fertigation through drip irrigation devices is becoming the preferred system of leading enterprises. Fertigation advantages include:

- Accurate and uniform nutrient application.
- Nutrient application is restricted to the wetted area in the root zone.
- Volume and concentration of nutrients can be adjusted to specific crop requirements.
- Reduced time fluctuation in nutrient concentrations.
- Safer irrigation with sewage effluents or mildly saline water.
- Convenient use of ready-mixed fertilisers, especially micro-nutrients, which are otherwise difficult to apply accurately.

Crop foliage is kept dry, thereby retarding development of plant pathogens and avoiding leaf burn.

New specialist banana fertiliser is making fertigation easy



THE new, complete fertiliser blend specifically designed for bananas, 'Banana One-Shot', was originally conceived by Lindsay Rural agronomists in North Queensland.

The requirements were for an all-inclusive, completely soluble fertiliser containing the correct ratio of nitrogen, phosphorous, potassium, magnesium, zinc, boron and other micro elements for growing bananas in North Queensland, and which was suitable for application via irrigation systems.

The production of Banana One-Shot fertiliser also was not to include any urea or fertilisers containing chlorides.

Lindsay Rural approached its soluble fertiliser supplier, Haifa Australia, which was then able to develop the special blend based on the company's world renowned Poly-Feed range.

Haifa Australia has since begun production of Banana One-Shot soluble fertiliser, which is available exclusively through Lindsay Rural stores.

Faster fruit-fill, improved production, quality with 'Rolls Royce' fertiliser



Lindsay Rural Innisfail Agronomist David McDowell, Haifa Australia Queensland Sales Agronomist Peter Anderson and banana grower Parv Dhothar check the development of the family's fruit on their property at Garradunga, near Innisfail.

A CHANGE in nutritional strategy using the new 'Banana One-Shot' fertiliser blend he had a hand in developing has accelerated fruit-fill, increased production and improved quality for Innisfail banana grower Parv Dhothar.

Using the one blend for all nutrient requirements has also been easier than spreading granular fertiliser and mixing straight water soluble fertilisers into a blend for application through the irrigation system (fertigation).

Parv and his parents, Shangara and Kashmir, produce bananas over 30 hectares at Garradunga near Innisfail, plus another 10ha on a recently acquired property at Fishery Falls.

Higher quality fruit is sold to chain stores and a portion of their production also heads to markets in Melbourne.

The Dhothers have previously spread a balanced granular fertiliser and blended straight water soluble fertilisers including calcium and potassium nitrate for fertigating the bananas.

Parv said with half the granular fertiliser generally dissolving under morning dew

conditions, they previously tried to apply it through their irrigation system, but the magnesium oxide component in the product "turned to sludge".

Leaf and soil samples are constantly analysed by Incitec Pivot's Werribee laboratory in Victoria for the property, which comprises red soils typical of the region, and Parv used the test results to help local Lindsay Rural Agronomist David McDowell to develop the new banana fertiliser blend.

Banana One-Shot can be applied year-round by fertigation and is available exclusively from Lindsay Rural.

“THE BANANA ONE-SHOT HAS GOT TO BE THE ROLLS ROYCE FERTILISER FOR BANANAS. IT IS BETTER THAN ANY OTHER SOLUBLE FERTILISER ON THE MARKET. WE ARE PUMPING OUT A LOT OF FRUIT. WE HAVE NEVER HAD SO MUCH FRUIT.”

PARV DHOTER.



New fertiliser, fertigation system a life changer for Innisfail grower

APPLYING the new 'Banana One-Shot' fertiliser blend through a new fertigation unit is making life a whole lot easier for Innisfail banana grower Kerry Alcock.

Kerry has chalked up 35 years on the family property after commencing in the industry in 1962 at Murwillumbah near the Tweed River on New South Wales' north coast.

Most of the family's 'Alcock Bananas', produced off about 80 hectares, head to Brisbane and Adelaide.

Until recently, Kerry has encountered some

problems delivering fertilisers through his existing fertigation system.

Potassium nitrate with some trace elements has mainly been applied.

"We have had to put the nitrates through one week and the sulphates through in another week," Kerry said.

"We also manually spread Nitrophoska and we have been using liquids too, but they don't seem to give the bananas a jolt."



The quality of the early "followers" has been very good and healthy after the Banana One-Shot applications.

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The one shot fertiliser mix, which is based on the high quality Haifa fertiliser, Poly-Feed, comprises pure plant nutrients and generous quantities of essential micro-elements such as magnesium, boron and zinc. The product contains 13 per cent nitrogen, just 0.17pc phosphorus, a high 24pc potassium, 8.7pc sulphur and 2.1pc magnesium.

David said Banana One-Shot reflected Haifa's "teaspoon feeding" philosophy and offered a higher potassium level and good trace elements.

Parv said the family planned to apply 250 kilograms per hectare of the fertiliser per month, but they had never reached this volume.

The family is fertigating every three weeks via a 1500-litre tank that irrigates 8-acre sections at a time.

"It has amounted to 100kgs/ac/month or a 25kg bag/ac/week," Parv said.

David said these rates supply 400 units of nitrogen and 700 units of potassium, which was the annual requirement for fruit-bearing bananas.

Parv said they were previously applying 16 tonnes of fertiliser over 30ha, whereas they were now applying only 1200kgs with Banana One-Shot.

"I haven't spread any fertiliser for six months."

"And because there is more K in the fertiliser and it is available immediately, it gives it a big hit straight away and the fruit fills very quickly.

"The time until the fruit is ready is quick and the quality of the fruit has been better and picked up by buyers, who are looking for good, consistent quality.

"We are pumping out a lot of fruit. We have never had so much fruit."

He said they also had undertaken follow-up soil testing and the nutrients "were still all there in the soil".

"The Banana One-Shot has got to be the Rolls Royce fertiliser for bananas. It is better than any other soluble fertiliser on the market. There is a similar product, but it is not as good and is too costly. Nothing beats it – you would have to apply foliar sprays," Parv said.



Parv says the use of the new Banana One-Shot fertiliser blend has accelerated fruit-fill, increased production and improved the quality of the family's bananas.



Parv and Peter discuss the nutritional products used for the Dhothar's bananas.



New fertiliser, fertigation system a life changer for Innisfail grower

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He said the family had been trialing the new Banana One-Shot fertiliser blend for the past eight months over a 6.5ha area planted in July 2011 that was previously in cane production.

Available exclusively through Lindsay Rural, the one shot fertiliser mix, which is based on the high quality Haifa fertiliser, Poly-Feed, comprises pure plant nutrients and generous quantities of essential micro-elements such as magnesium, boron and zinc. It contains 13 per cent nitrogen, just 0.17pc phosphorus, a high 24pc potassium, 8.7pc sulphur and 2.1pc magnesium.

“With the new fertigation unit, we can put 600 kilograms of the Banana One-Shot through it in one go for the 16 acres in 10 minutes. It goes through really well,” Kerry said.

“We also have another set-up we can put it through and stop it using a timer.

“We got the fertiliser in 600kg bags rather than smaller individual bags, which is a hard job and hard on your back.

“It saves work and time. We get the

600kg in and out every two weeks. It (the area) is getting about 250kg (per hectare) per month.

“We haven’t noticed a lot of difference with the bananas yet, but we started in the real cold months and we are at least getting the same production with less effort and less time.

“It was also an old cane paddock that had been growing cane for 106 years. It’s had a flogging. It will have been in bananas two years in June – and it can take five years to set soils up for bananas, so it’s going well.”

Since the application of the Banana One-Shot fertiliser, the area produced its second crop of bananas in just seven months instead of the typical nine months and it is now bunching again for its third crop.

“It has been a couple of months ahead. We got four trailers out of the first returns after it had been in just 14 months,” Kerry said.

The quality of the early “followers” also has been very good and healthy.

The area has since also received an application of Nitrophoska.

Leaf tissue testing coordinated for the site by Haifa Australia and Lindsay Rural clearly highlighted the improved nutrition levels following the Banana One-Shot applications.

Analysis at the start of applications indicated very low to marginal uptake of phosphorus, potassium, zinc and boron, however phosphorus and boron uptake was at optimal levels in just two months and potassium and zinc after just four months of applications.

Haifa Australia Queensland Sales Agronomist Peter Anderson said Banana One-Shot was developed to help growers supply complete crop nutrition in “one shot”, rather than have to use mixtures of “straight” fertilisers.

“It virtually supplies all nutrient requirements, except calcium, and when applied consistently, it should achieve better results than slugging straight fertilisers through irrigation systems at periodic intervals. There are no temporary setbacks caused by delays in application,” Peter said.

Banana One-Shot is recommended to be applied at the rate of 250kg/ha/month.



Lindsay Rural Innisfail Agronomist David McDowell, local grower Kerry Alcock and Haifa Australia Queensland Sales Agronomist Peter Anderson check a section of the Alcock’s banana plantation that has received the new Banana One-Shot fertiliser blend.

Easy, efficient fertiliser application boosts growth, quality at East Palmerston

EASIER fertiliser applications, more efficient nutrient usage and improved growth and fruit quality have been the strong benefits of switching to the new ‘Banana One-Shot’ fertiliser blend for East Palmerston growers Michael and Gail Dunne and their son, Matthew.

The Dunnes have about 40 hectares under banana production at East Palmerston, via Innisfail, with their produce sold mainly to the Adelaide market and also to Melbourne. They also run cattle on their property.

Michael said the family previously applied fertiliser mixes that were blended and potassium nitrate through their irrigation system, while they also spread Nitrophoska every four to six weeks throughout the plantation.

“We had a spreader on a tractor going up every row,” Michael said.

“We were using two bags every four to six weeks, but with a good rain it was gone.”

He said the family was now applying Banana One-Shot generally every week.

“We try to put it out every week and it is easy to do.”

“We have got three pump sites, so the bags suit us. We put out three bags when we do it. We put it straight into a vat and it mixes and then goes through the irrigation.

“We start the pump up, it goes for three quarters of an hour and it’s gone. We put it in for the last 15 minutes of the irrigation.

“It dissolves really well in the vat with no sediment. You could just about drink the water 45 minutes later.

“It is so much easier – and time becomes money.”

Michael said the weekly applications meant they now had nutrients in the soil “all of the time” and the Banana One-Shot had improved production.

“We noticed the difference in growth last year and we have noticed the benefit in the fruit.”

“The fruit colour is very good,” he said.



Haifa Australia Queensland Sales Agronomist Peter Anderson and East Palmerston banana grower Michael Dunne discuss the use of the new Banana One-Shot fertiliser blend for the family’s plantation.

Banana One-Shot
Exclusively available through



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Michael and Peter pictured with a vat where the Banana One-Shot fertiliser is dissolved prior to its injection through the irrigation.