



A REPORT on KIKO TECHNOLOGY™ to IMPROVE STRAWBERRY PRODUCTION and QUALITY BENEFITS

Prepared by: Kiko Technology Limited

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SYNOPSIS of the STRAWBERRY TRIAL RESULTS FROM 2012 to 2013

Water is one of the most fundamental resources for the agriculture sector, yet one of the least understood and largely taken for granted. The Kiko Technology Kinetic Energy Delivery System (coined as “KEDS”) was formulated on the scientific premise that the ground water’s harmonics at a molecular level can be accelerated and that by delivering direct physical kinetic energy to water, then there will be many benefits to all living organisms.

From 2012 to 2013, a series of applied field studies were conducted in Australia, United Kingdom and the United States with a variety of strawberry seed types and planting soil conditions. The deployment of the Kiko Technology KEDS system achieved impressive harvest results, greater productivity and growth yields, healthier and tastier fruits, longer perishable shelf life by days and weeks that benefit the transport and marketing logistics from farm to truckers to retailers

Kiko Technology improves Strawberry YIELDS by 10 to 15 %– EXTENDS perishable shelf life or freshness by days or even weeks – triggers the plant’s natural enzymes rendering BRILLIANT colors – accelerates bud and flowering growth rate – LESS or NO “white shoulder” – RESISTANCE to frost conditions – FASTER seed germination percentage – ENHANCES soil nutrients by allowing the molecular separation of minerals from H-O-H water molecules as well as separation of toxins and unwanted bacteria.

In these studies the key observation leads to this scientific or botanical question as to “WHY do plants FLOWER much FASTER when grown with Kiko treatment and why do so MANY MORE berry buds increase compared to the same plants grown in normal water?”

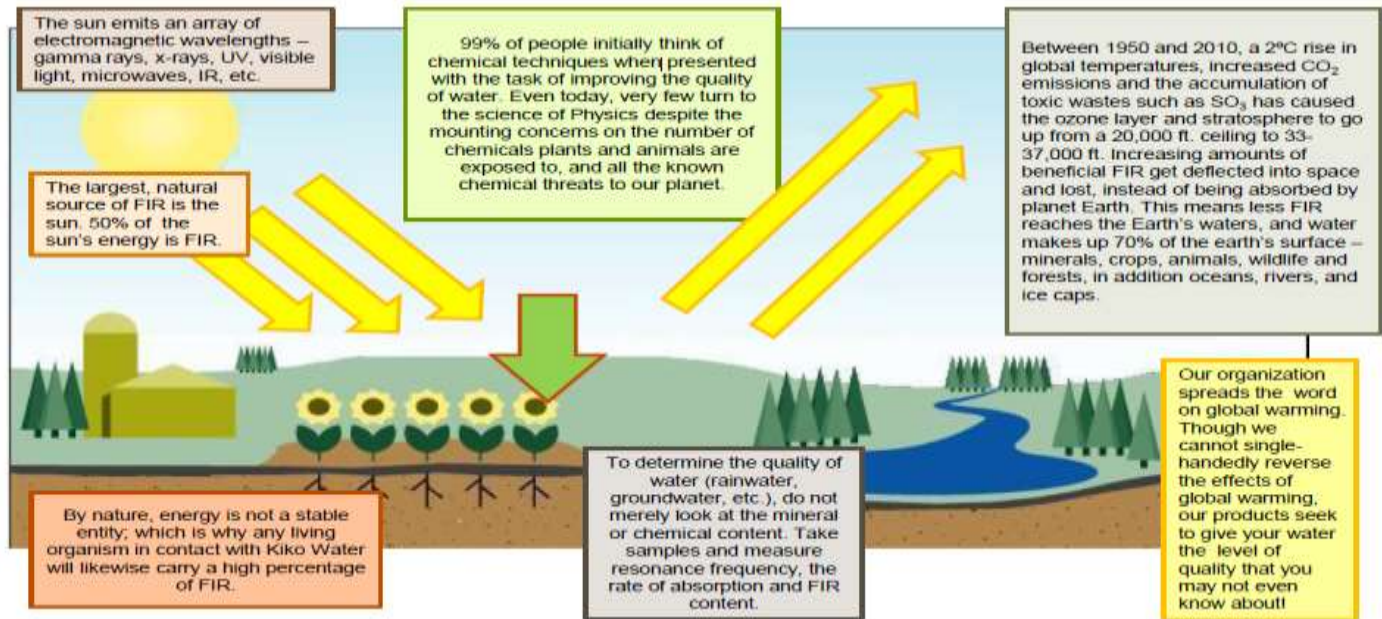
Our opinion: NATURE has a way to protect itself from the degradation of the natural frequency of water – and that is to yield less quantity (and at times NONE at all) – the plants’ buds and flowers remain slightly DORMANT – a sort of protective measure. Kiko Technology has observed in ALMOST EVERY STUDY conducted on orchard fruits of any percentage of glucose or sucrose brix content to have behaved identically – BUT once the orchards or fruit plants are immersed in the KEDS energized water and increased absorption of FIR energy, then plants grow to its optimum yields.

The KIKO TECHNOLOGY™ provides a complementary technique to long in-grained farming practices –via the “physics of water” e.g. water frequency at a molecular level - “Water” is the most fundamental resource, yet the most overlooked component to increase farm yield and fruit qualities. This report validates a comprehensive study in cooperation with prominent strawberry farming entities and renowned agricultural research laboratory.

SUMMARY of the KIKO TECHNOLOGY™ RESULTS

The science behind the Kiko Technology™ was developed by the Founder Mr. James T. Osugi a former engineer in the NASA aerospace program. There is a global climatic change, denied or otherwise by governments, yet verifiable by sophisticated laboratory testing (e.g. equipment such as Nuclear Magnetic Resonance, Far Infrared spectrometers, surface tension dynes and so on).

The continuous atmospheric damage, over dosage of chemical fertilizers and pesticides means today's water simply does not vibrate as fast as it once did 60 years ago. Kiko Technology allows our water to become vibrant in nano-seconds; the action coined "energized or activated water". The fundamentals behind the science are seemingly mysterious yet the field results are quantified yields, freshness, shelf life and productivity.



The Kiko Technology is formulated in Japan, the carrier being natural volcanic stones that change the molecular interrelations including bond structure, surface tension, far infrared absorption and harmonic motion (the science is related to "phonon molecular theory").



Benefit Summary for Strawberry Planters

PARAMETERS	BENEFITS ACHIEVED WITH KIKO TECHNOLOGY™ TREATMENT
Seeding germination	5% to 30 % HIGHER
Days to flowering	EARLIER
“White shoulder”	MUCH LESS or NONE
Taste	SWEETER, JUICIER fruits
Extra yield	10 - 15 % HIGHER
Shelf life	LONGER by days or weeks
Resistance to virus/pests	BETTER
Resistance to frost	BETTER (our validation indicated 3 days of frost over a 12 day period affected CONTROL only)
Root & Fruit structure	MORE DEVELOPED & CLEANER roots, MORE EFFICIENT water & nutrient uptake, FIRMER & HEALTHIER fruits
Soil improvement	Natural nutrient like Nitrate Nitrogen, Magnesium & Potassium (K+) levels remained HIGH – implies LESS fertilizer dosage

KIKO STRAWBERRY TRIAL RESULTS:

1) SEEDING FARMING – WESTERN AUSTRALIA

A trial was conducted in September 2012 with several known difficult seeds of which germination and growth are usually not uniform. Six hundred seeds split with variation of three seed types, i.e. “Fiero, Valiant and Sierra” were each placed in a foam box on top of a wet towel (300 in each box) and one box was watered with Kiko energized water whilst the remaining box (Control) without. These seeds were monitored after a 5 day and a 12 day cycle.

SEED TYPE	KIKO-treated			CONTROL		
	GERMINATED	GEMINATED PERCENTAGE	VARIANCE	GERMINATED	GEMINATED PERCENTAGE	VARIANCE
Fiero 5 days	284 / 300	95%	+ 12%	250 / 300	83%	N.A.
Valiant 12 days	175 / 300	58%	+ 34%	73 / 300	24%	N.A.
Sierra 12 days	97 / 300	32%	+ 5%	83 / 300	27%	N.A.

Results:

- An increase from 5% to 34% greater germination in the Kiko treated replicates.
- All the kiko germinated plants were 50% larger / longer vs the Control.
- This translates into a quicker growing plant with greater root density implying larger plants

2) STRAWBERRY FARMING – WESTERN AUSTRALIA

The Kiko Technology first batch of contracted clients in Western Australia started growing strawberry in their farms from July 2013. Kiko cartridges were inserted and buried in the ground and watered for 10 weeks and the performance results are very positive.

A farmer client commented that “It’s the best crop has ever looked”. For the first time ever, these Kiko-treated berries had little to no white shoulder. The farmer is extremely pleased able to sell at good prices to the market. Another West Australian farmer has already extended his contract for more cartridges to do another farm in a different location.



The Australian CSBP – Soil & Plant Analysis Laboratory report (below) revealed that the strawberry farm soil contained higher levels of Magnesium, Potassium (K+), Calcium and Nitrate Nitrogen nutrients after Kiko treatment. This implies less fertilizers dosage could be applied.

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Soil & Plant Analysis Laboratory



ANALYSIS REPORT

		Lab No	130908	130909
		Name	Water Bore Direct	Water Sample After Filter
		Customer	Kiko	Kiko
Ammonium Nitrogen	mg/L		< 0.10	< 0.10
Nitrate Nitrogen	mg/L		2.32	17.16
Boron	mg/L		< 0.05	< 0.05
Calcium	mg/L		82.03	92.08
Copper	mg/L		< 0.05	< 0.05
Iron	mg/L		0.15	0.34
Magnesium	mg/L		22.41	25.07
Manganese	mg/L		0.06	< 0.05
Phosphorous	mg/L		< 0.05	< 0.05
Potassium	mg/L		8.42	9.83
Sodium	mg/L		100.30	101.30
Sulphur	mg/L		71.06	68.85
Zinc	mg/L		< 0.05	< 0.05
Conductivity	dS/m		1.084	1.151
pH			6.7	6.5



3) WINTER CROPPING STRAWBERRY – UNITED KINGDOM

Location	College Street Market Gardens, Oakington, Cambridge, UK
Fruit type	El Santo Strawberries – the most common variety marketed by supermarkets in the UK. It has a brix level of 7 and is an attractive, bright-red colored fruit.
Trial dates	June to November 2012
Objectives	<p>To observe Kiko effects in fulfilling following objectives :</p> <p>1) To meet increasing output targets : 1.1 million plants currently produce 500 tons of fruit annually. The farm has a target of 800 tons by the end of 2012 and 1,200 tons in 2013.</p> <p>2) To increase the sweetness of fruit: Sweetness can range from 3–9 on the sucrose sweetness index. 7 is the minimum for acceptance by client.</p> <p>3) Other factors : Better root structure, more plant growth, improved color, longer shelf life, etc.</p>
Procedures & Cultivation Bench Marks	<p>College Street Market Gardens is a 15-acre farm in Cambridge, UK. College Street belongs to a small 8-farm cooperative. The company grows indoors in a large greenhouse complex as well as on 25-acres outdoors</p> <p>The strawberries are grown intensively in a polytunnel greenhouse complex. 90% of irrigation water comes piped from two (2) water storage tanks with 50,000-litre and 70,000-litre capacities respectively. The remaining 10% comes from rain capture.</p> <p>Water is pumped from the storage tanks to the greenhouses via pipes, and then fed into trays via small plastic bore tubes. The trays are about waist-high on which compost bags are placed. The strawberry plants are inserted in the compost bags. Pests are not a major problem since the plants are grown 1 meter above ground.</p> <p>Disease, however, can be problematic and to combat this, plants are sprayed with chemicals to reduce the impact.</p> <p>All plants are grown in one huge greenhouse split 50/50 by a central service track. The client is able to direct one watering tank to one side and the other for the second side. Airflow between the two test areas might not be stopped and the issue of airborne water transfer to the surrounding plant trays is a minor concern. The same variety mix will be used on both sides to ensure an unbiased test.</p> <p>Two (2) Kiko Tritan cartridges were inserted in the hydroponic line feeding around 16,000 plants. The greenhouse holds 130,000 plants in 8 bays and Kiko was put into 1 bay.</p>

	
Results	<p>Both the test (Kiko) and Control rows/lines were observed carefully to ensure one or the other wasn't exposed to better light, etc. (One of the characteristics of the winter crop is that not all the green berries will ripen due to fading sunlight.)</p> <ul style="list-style-type: none"> • The Kiko plants looked much healthier and around 10 cm higher than the Control. • The Kiko plants had at least 30% more fruit bearing trusses. • The grower calculated that the yield was in excess of 17% higher on the Kiko plants. • The Kiko fruit was more vibrant in color and actually had an amazing shine. The packers can easily identify Kiko strawberries on the conveyor just by the shine. 

4) FROST RESISTANCE STRAWBERRIES – OXNARD, CALIFORNIA, UNITED STATES

The California strawberry fields after engagement of Kiko treatment had minor frost for 3 days in March 2012. All the Control strawberries were wilted and had NO taste – a complete WRITE OFF whereas the KIKO treated berries still tasted superb – NO White Shoulder – and SALEABLE



Oxnard Farm watering system



Kiko strawberries – not affected by frost

CONCLUSION

- 1) Kiko Technology improves water utilization at the molecular level by an action called harmonics (e.g. frequency of water). This frequency is not visible to the human eyes except for plants, animals and living organisms. The effects seen in this trial study are from a scientific viewpoint, comparable to the 200+ other Kiko Technology studies. Many crop yields increased from 10% to 90% above and beyond Control including Palay rice, strawberries, tomato, spinach, okra, zucchini, chili, lime, banana, orchards, flowers, sugar cane and other agriculture crops.
- 2) Kiko Technology presents Game Changing opportunities for strawberry planters. The improvements quantified in this report include more yields, higher quality and healthier fruits in more vibrant, appearing colors as well as frost resistance capability.
- 3) Kiko Technology improves soil conditions by penetrating dormant and tightly bond minerals and OH- ions deep in the sub-soil. More R&D effort is required but this study presents sufficient qualitative observations that a healthy vibrant soil lessens insect and fungus damage.
- 4) Kiko cartridges are best used by burying in the Earth spaced about 20 - 30 meters (the rate is 5 cartridges spaced evenly over one hectare area). In addition these studies also confirm that strawberry seeds do increase its germination rates after irrigated by Kiko water.
- 5) Kiko Technology opens the opportunity for future R&D cooperative efforts such as in the fields of plant entomology, nutrient uptake, urea formulations, seed technology or adopting frequency or quantum energy techniques to combat viruses, insects and pests.
- 8) Overall studies verify that the science behind Kiko Technology changes the physics of water, including moisture particles, and this has a knock-on, Game Changer effect for strawberry output with healthy fruits.

END OF KIKO REPORT