



Kiko Technology Agricultural Trial Report on Spinach Vegetable – PR China

Updated 03 January 2014

Date	October to November 2013	
Location	Huang-Jiang County, Dongguan City, Guangdong Province, China	
Subject	Spinach vegetable	
Conducted By	Mr G.K Chung of Grace Resources Limited (HK)	
Objectives	<p>To observe the effects of Kiko Technology impacting the growth & shelf life of spinach vegetable.</p> <p>a) Normal Spinach : Takes 38 to 40 days to harvest in one cycle</p> <p>b) Kiko treated spinach : Takes 30 to 32 days to harvest in one cycle</p>	
Procedures	<p>Four (4) replication plots each measured 1.1 M x 17 M (22 SqM) was deployed in the trial with variation in positioning, irrigation practices & cultivation techniques.</p>	
	Replication	Positioning, irrigation practices & cultivation techniques
	Control A	Irrigated by normal river water – positioned 30 M away from Kiko plots
	Kiko B	Irrigated by mixture of Kiko energized water & normal river water
	Kiko C	Irrigated by Kiko energized water plus insertion of one (1) Kiko Tritan cartridge in the soil.
	Control D	Irrigated by normal river water – positioned 100 M away from Kiko plots, planted 12 days before plot A,B & C
<div style="display: flex; justify-content: space-around;">   </div>		

A) On 30th days harvest observation - 15 Nov 13 (see photo below) :



Results

Replication	Harvest observation
Control A (<i>by normal river water/30M away from Kiko</i>) - on left in blue ribbon	Roots appeared slightly red, size 15 % smaller than Kiko plot B
Kiko B (<i>by mixture of Kiko & normal river water</i>) - center in pink ribbon	Roots appeared slightly red, size 15% larger, 20% heavier than Control A
Kiko C (<i>by Kiko energized water + one Tritan cartridge</i>) - on right in black strap	Roots appeared to be very red, size 15% larger, 20% heavier than Control A. The over red coloring of roots indicated it can be harvested by 3 to 4 days earlier.

B) On 31st days harvest observation - 16 Nov 13 (see photo below) :



Replication	Harvest observation
Control D (<i>by normal river water/100M away from Kiko</i>) – on left in yellow ribbon	Roots appeared over red however this replicate was at its 43rd days, i.e. planted 12 days before Kiko plots, size comparatively much smaller
Kiko B (<i>by mixture of Kiko & normal river water</i>) - center in pink ribbon	On time harvested on 31th days, size, 30% larger, 30% heavier than Control D
Kiko C (<i>by Kiko energized water + one Tritan cartridge</i>) - on right in black strap	Roots appeared over red, indicated it can be harvested 3 to 4 days earlier, size 30% larger, 30% heavier than Control D.

C) One week (from 16 o 23 Nov 13) shelf life comparison in covered, open air conditions :



Replication	Harvest observation
Control D (<i>by normal river water/100M away from Kiko</i>) – on right in yellow ribbon	Both leaves & stems were badly dehydrated, shrunk very much in size
Kiko C (<i>by Kiko energized water + one Tritan cartridge</i>) - on left without ribbon	Drying of leaves in much slower pace, stems still appeared fresh

Conclusion of trial observations

- 1) Kiko water can energized the growth of plants, enhances its absorption of far infrared, better root uptakes of soil nutrients, improves photosynthesis, thence increase yield (weight) to as much as 30% in each cycle, with improved shelf life.
- 2) Kiko energized water molecules can carry the energy from one to another, even plants located 30 M away can easily respond to Kiko energy to enhance its growth.
- 3) Kiko energized water can deliver even better effects, besides speeding up plant growth with enhanced yield per cycle, it can achieve additional planting cycles implying more income to the farmers in each year.

Follow Up Analysis & Commercial Implication

Usual vegetable cultivation practices in China:

- Farmers in China stagger their vegetable planting in bid to harvest once every 2 to 3 days. On average, about 9 to 10 back to back rolling rotations in one year.
- Upon harvest, they will immediately start planting again with new seeds.

Projection of positive kiko effects impacting Spinach production on per “Mu” (667 SqM) basis against Control farm (irrigated with normal river water only & minimum 100M away from Kiko):

	Control plot	Kiko treated plot
Yield of each 1.1 M x 1.7 M (22 SqM) plot in one cycle	70 to 75 Kg (in 38 to 40 days cycle)	90 Kg (in 30 to 32 days cycle)
Project yield of one “Mu” (22 SqM x 33.3) plot in one cycle @ 1 “Mu” = 667 SqM	2,497 Kg	2,997 Kg (can harvest 8 days earlier)
Project extra yield per “Mu” per cycle	N.A.	+ 500Kg
Project extra income per “Mu” per cycle FGP@RMB 2.0 (US\$ 0.32) /Kg	N.A.	+ RMB 1,000 (US\$ 161)
<i>Exchange @ 1 US\$ = RMB 6.2</i>		
Project yield per “Mu” per every 4 cycles (152-160 days)	2,497 Kg x 4 cycles = 11,988 Kg	2,997 Kg x 5 cycles (can plant one more cycle @ 30-32 days x 5) = 14,985 Kg
Project extra yield per “Mu” per every 4 cycles	N.A.	+ 2,997 Kg
Project extra Income per “Mu” per every 4 cycles FGP@RMB 2.0 (US\$ 0.32) /Kg	N.A.	+ RMB 5,994 (US\$ 967)
Maximum planting cycles per Year (360 days)	9 cycles	11 cycles or more
Project yield per “Mu” per year	2,497 x 9 = 22,473 Kg	2,997 x 11 = 32,967 Kg
Project extra yield per “Mu” per year	N.A.	+ 10,494 Kg
Project income per “Mu” per year @RMB 2.0 /Kg	RMB 44,946 (US\$ 7,249)	RMB 65,934 (US\$ 10,635)
Project extra income per “Mu” per year	N.A.	+ RMB 20,988 (US\$ 3,385)
Project extra income per Ha per year (10,000 SqM) @ 1 Ha = 15 “Mu”	N.A.	+ RMB 314,820 (USD 50,775)