

Extensive tests were conducted on grasses grown in Kiko water (the test) versus tap or rain water (the control.) Two days after seeding, grasses sprayed with the former were seen to have deeper roots. After seven days (out of the full nine-day production cycle), yields had increased 16% to 65%. The variance is attributed to varying qualities of seed. All other parameters were kept constant. Further to this, stalks were significantly stronger and firmer. An added feature is the prolonged shelf life of the final product, opening export to distant markets where previously, transport and perishability issues limited the farmer's sales opportunities.

Replace our figures with those from your agricultural business according to the below parameters to determine the financial savings and environmental benefits behind Kiko Technology:

PARAMETERS	CONTROL	TEST (Kiko Technology)
CONDITIONS		
Humidity/temperature**	A/C* greenhouse	A/C* greenhouse
Dosage of water (water daily)	As before	Same, but immerse 1 filter in every 200 liters of water
No. of wheatgrass trays	200 trays	200 trays
RESULTS		
COLOUR		
Top shelf trays (most sunlight)	Dark green	Uniformly dark green
Middle trays	Green-yellow	Uniformly dark green
Bottom trays (least sunlight)	Yellow-green	Uniformly dark green
OTHER		
Root density	As before	75% denser roots
Stem structure	As before	Stronger & firmer
Taste/Brix test	Slight bitterness	Less bitter to slightly sweet
Total yield at harvest	As before	16% to 65% more yield
COST SAVINGS CALCULATIONS		
Unit cost of filters	--	USD \$50
No. of filters per 200 trays	--	5 filters
Total cost of filters (investment)***	--	USD \$250
COST BASED ON 200 TRAYS PER GROWTH CYCLE (9 DAYS)		
Average yield per tray	As before	40% increase
Income per tray per cycle	USD \$30	USD \$42
Income for 200 trays per cycle	USD \$6,000	USD \$8,400
Income prorated over 1 yr.	USD \$180,000	USD \$252,000
Extra income per yr.	--	USD \$72,000

Remarks:

* A/C = air-conditioned.

** Ensure humidity and temperate remains constant in both greenhouses throughout the experiment.

*** Investment is once every 3-5 years in accordance with the shelf life of filters.



Wheatgrass production trials and the Daily Green Farm, Bangkok, Thailand – (top) trays of seeds placed on shelves to grow at three levels; (middle) visibly denser roots at 3 days from planting. After the 9-day cycle, the roots of seeds grown in Kiko water become ultimately 75% denser and longer than in the contro; (bottom) Two trays taken from the middle shelf. Wheatgrass grown in Kiko water is a rich green and uniform in colour throughout. The wheatgrass in the control tray shows a yellowish-green colour towards the left of the tray.

OTHER VALUE BENEFITS (incl. intangible benefits)		
PARAMETERS	CONTROL	TEST (Kiko Technology)
Shelf life of final product	3-5 days	10-14 days
Taste	Slightly bitter	Less bitter to slightly sweet
Colour	Yellow to green	Uniformly rich green
Stalk strength	Less firm	Stronger & firmer