



LIME, RICE & PAPAYA

HEDGE NATURAL DEFENSE PLANT PROTECTANT TRIALS

LIME TRIALS

Left: lime trees with and without HND treatment. All trees are of the same age - two years old. Growers report treated trees to be much healthier looking, and to be producing fruit of extremely high quality.

Middle: Isolated untreated lime on otherwise treated tree (note healthy limes in background)

Right: Fruit clusters from treated tree



RICE TRIALS

Rice plants treated with HND protectant were tested against traditional fungicide for overall productivity performance. Growers reported healthier, larger fruits with extended harvest season.

PRODUCTIVITY IMPROVEMENT IN RICE			
PER 4 MONTHS PRODUCTION CYCLE	CONVENTIONAL FUNGICIDES	HND PP	Improvement
TONNE YIELD/HECTARE	6	7.2	1.2 more
SELLING PRICE PER TONNE	US\$500	US\$500	--
DOLLAR YIELD / HECTARE	US\$3000	US\$3,600	US\$600 more
FUNGICIDE APPLICATIONS /CYCLE	2	2	---
USAGE PER HECTARE / CYCLE	400 liters	60 liters	340 Liters less
COST OF 2 APPLICATIONS	US\$80	confidential	AMP is more expensive
NET BENEFIT / HECTARE	US\$2920	US \$3,405	+ US\$485 more!



PAPAYA TRIALS

Papaya trees treated with HND were tested against traditional fungicide for overall productivity performance. Growers reported healthier plants capable of producing at their full potential.

PRODUCTIVITY IMPROVEMENT IN PAPAYA			
<i>COSTS & EARNINGS PER PRODUCTION CYCLE</i>	<i>FUNGICIDES</i>	<i>HND PP</i>	<i>Improvement</i>
TREES PLANTED PER HECTARE	2,200	2,200	--
BACTERIA KILLED TREES / HECTARE	330	110	220 fewer
HARVESTED TREES PER HECTARE	1,870	2090	+220 more
HARVEST MONTHS	9	14	5 months longer
YIELD PER TREE PER CYCLE	75 Kilos	85 Kilos	10 kg more
YIELD PER HECTARE /CYCLE	140.25 Kilos	177.65 kilos	37.400 kg more
SELLING PRICE / KILO	US\$0.25	US\$0.25	--
DOLLARS YIELD / HECTARE / CYCLE	US\$35,062	US\$44,412	+ US\$ 9,350 more
APPLICATIONS PER CYCLE / HECTARE	128	63	65 fewer
FUNGICIDE USAGE PER HECTARE / CYCLE	25.600 liters	315 liters	25,285 liters less
FUNGICIDE'S COST PER LITER	US\$0.03	confidential	AMP is more expensive
FUNGICIDE'S COST /HECTARE/ CYCLE	US\$768	confidential	AMP is more expensive
MAN HOURS / APPLICATION	1 hour	15 minutes	45 mins less/cycle
LABOR COST / CYCLE	US\$275	US\$13	US\$262 less /cycle
NET BENEFIT / HECTARE	US\$34,019	US\$42,824	+ US\$8,805 more!



HND TREATED PLANTS