

Identified High - Value *Citrus* species, Best Grown in the Northern Philippines

RATIONALE:

It is a common belief that high value citrus can only be grown in semi-temperate areas, however, many of such high value citrus species are being grown in some of the backyards of the populace in Region I. The terrain and climate of the region is considered very favorable for some of the high value citrus species. Thus, this study was conducted to identify the most productive species of high value citrus to help supply the local demand for citrus in the country.



Yield per tree (kg)	468.05
Weight per fruit (g)	108.60
Sweetness (°Brix)	12.75
Cost of Production (Php)	1,666.23
Net Income (Php)	12,425.27
ROI (%)	768.78

Magallanes



Yield per tree (kg)	696.07
Weight per fruit (g)	882.00
Sweetness (°Brix)	12.25
Cost of Production (Php)	1,666.23
Net Income (Php)	1,864.22
ROI (%)	111.00

Red Chandler



Yield per tree (kg)	674.33
Weight per fruit (g)	1,090.20
Sweetness (°Brix)	11.95
Cost of Production (Php)	1,666.23
Net Income (Php)	3,778.41
ROI (%)	226.78

Siamese



Yield per tree (kg)	243.00
Weight per fruit (g)	207.30
Sweetness (°Brix)	16.00
Cost of Production (Php)	1,680.00
Net Income (Php)	3,342.77
ROI (%)	200.70

Perante Orange



Yield per tree (kg)	555.82
Weight per fruit (g)	252.30
Sweetness (°Brix)	12.00
Cost of Production (Php)	1,680.00
Net Income (Php)	15,058.37
ROI (%)	938.69

King Mandarin

CONCLUSIONS:

- As to yield of oranges across years of fruiting, result showed that year 2008 produced the highest yield with a mean of 82.59 kg/ tree and Perante orange obtained the highest percentage survival with 91.11%.
- On the mean yield of pummelo across years, year 2010 obtained the highest year of production, which means that the pummelo had reached their stage of bearing to produce the peak of production, which means that the trees were already matured to bear fruits. Red Chandler recorded the highest percentage survival with 96.67% but did not differ significantly to Magallanes with 90.00% survival.
- In terms of Mandarin, year 2008 obtained the highest year of production; this might be attributed when a tree produced a heavy crop one year, called an "on crop", followed by an "off crop" the next year. King Mandarin maintained a 100% survival across years.

RECOMMENDATION:

- Perante orange, Red Chandler, Siamese pummelo, Magallanes pummelo and King Mandarin gave the best performance as to yield and survival and are recommended for planting.

