



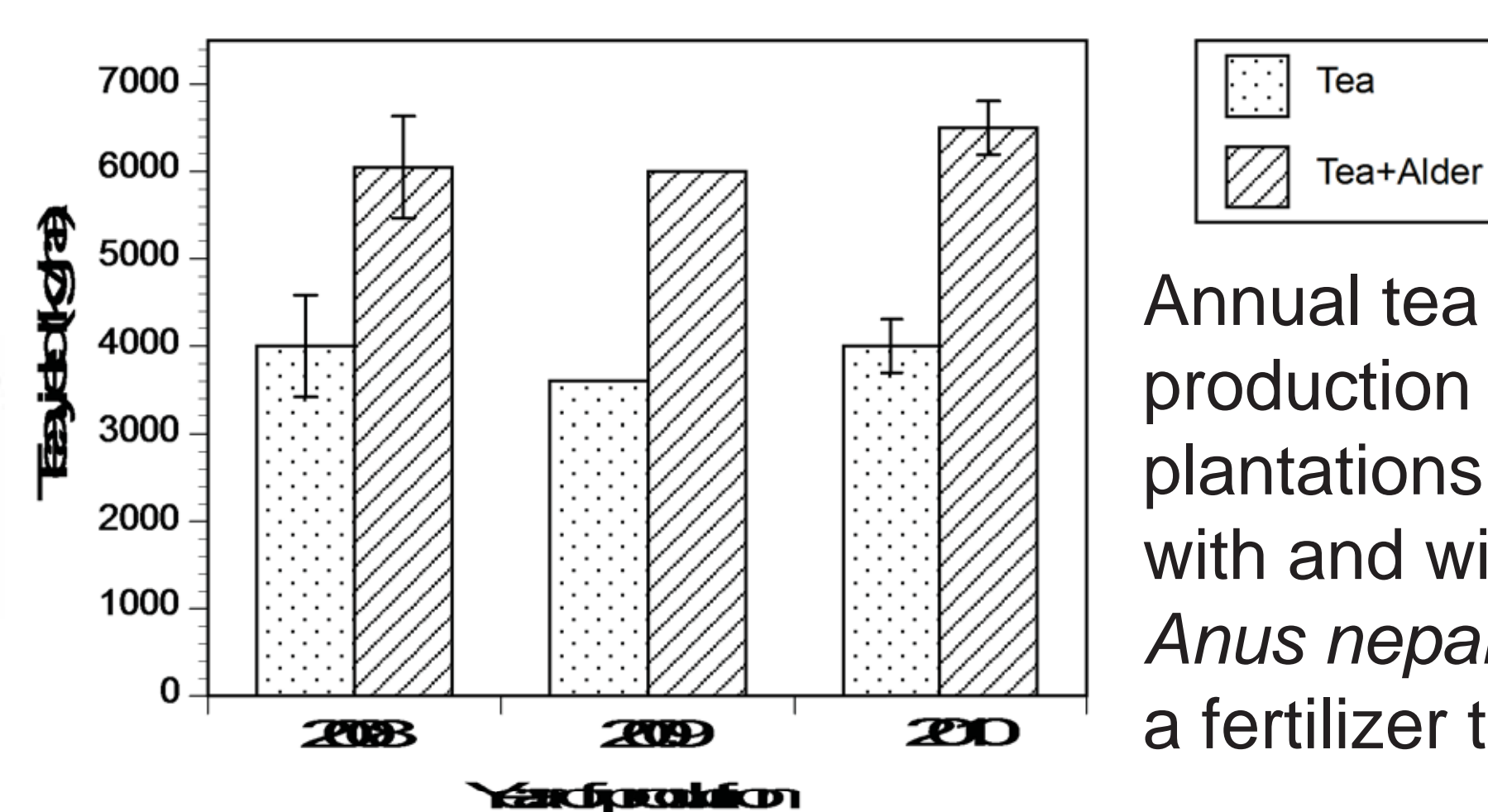
## Direct benefits from trees on farm?

### Environmental and economic Fertilizer trees



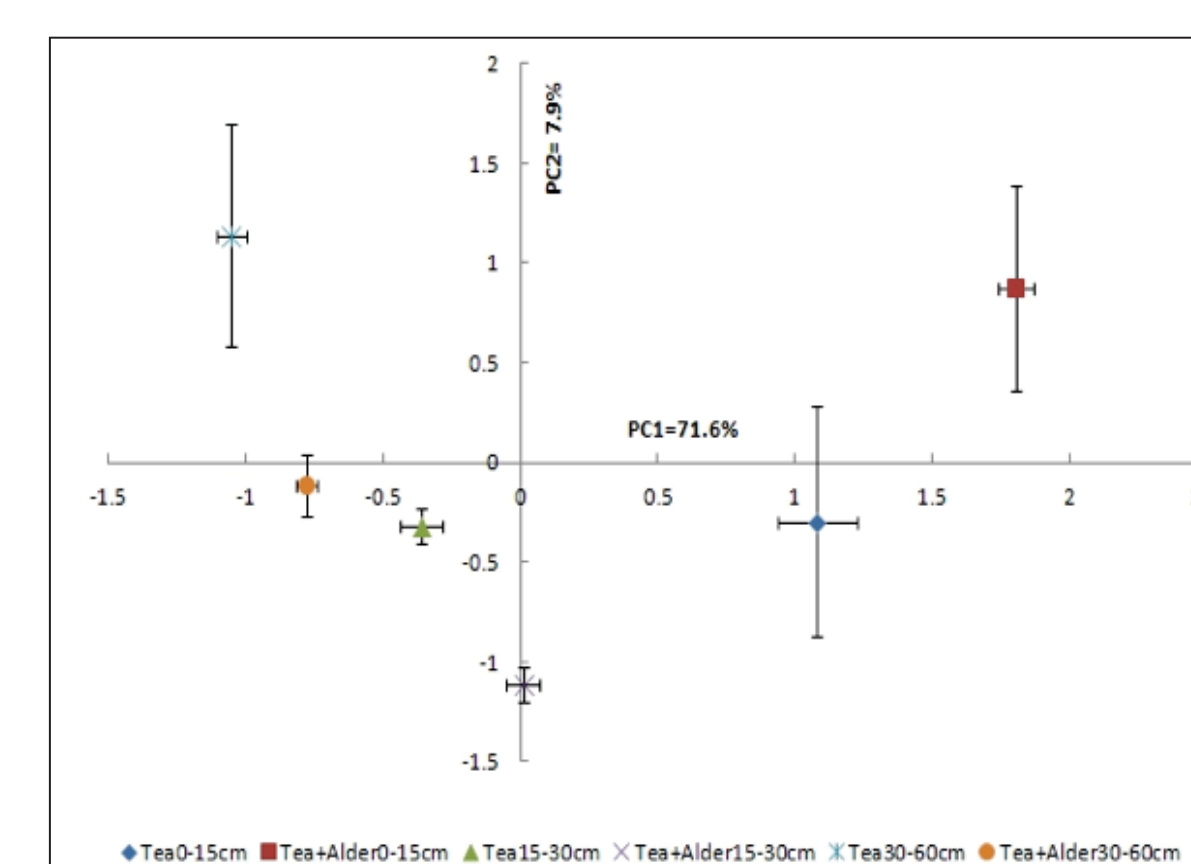
The planting of Alder trees in the tea terraces of western Yunnan Province, China has proven to be a highly successful agroforestry practice. We found that the soils under this agroforestry system were higher in bacterial and fungal diversity and that tea productivity increased substantially in comparison to the monoculture planting.

### Economic benefits



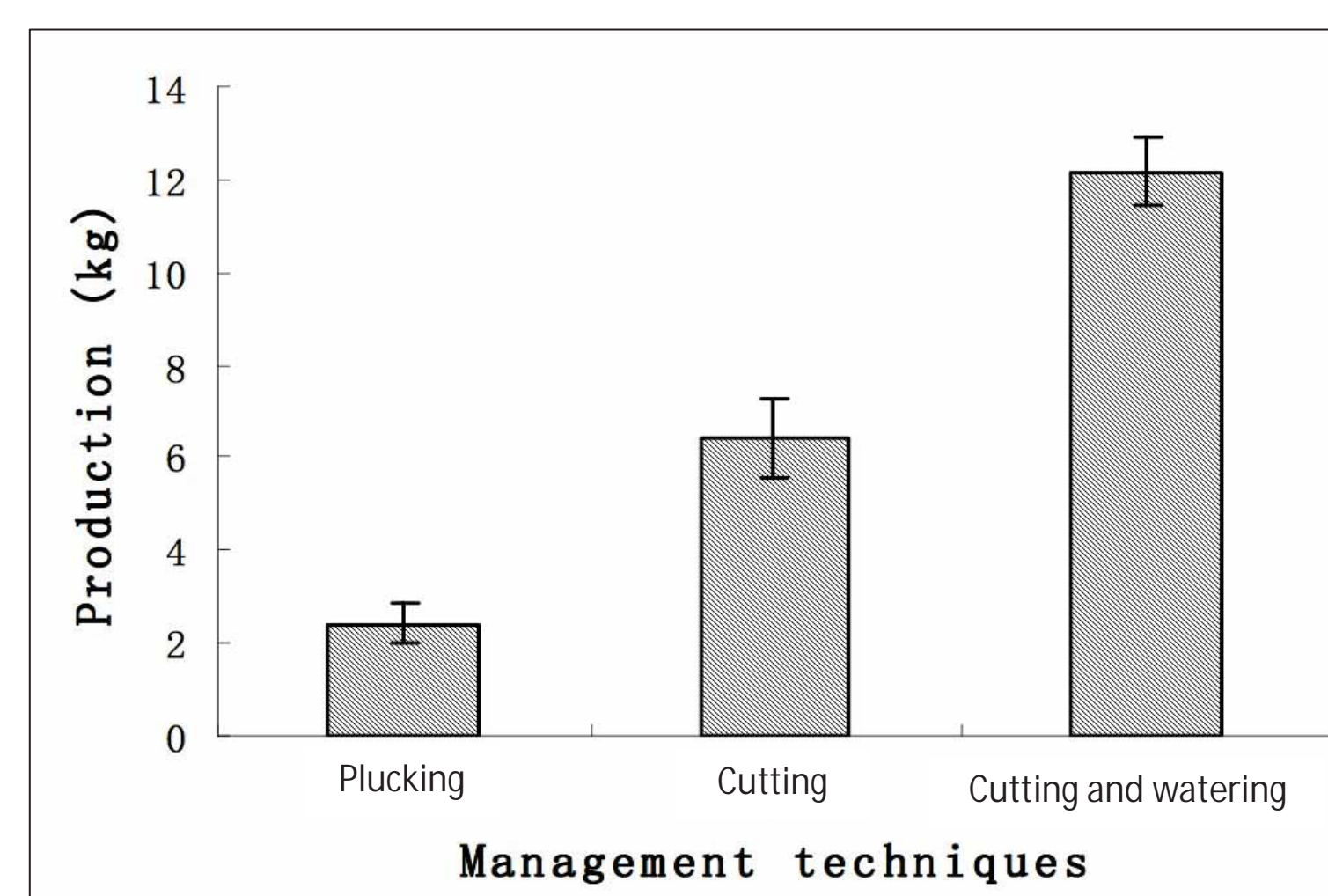
Annual tea production for tea plantations grown with and without *Anus nepalensis* as a fertilizer tree.

### Environmental benefits



Below ground microbial communities, at different soil depths. Taken from monoculture and agroforestry tea plantations.

### Mushrooms as alternative sources of income



*Pinus yunnanensis* and *Thelephora ganbanum* – mushroom productivity was increased by 86% over a two year period as a result of a few changes in forest management. Changes included practices such as cutting the fruiting body instead of plucking them, stacking leaf litter to create microhabitats and canopy management.

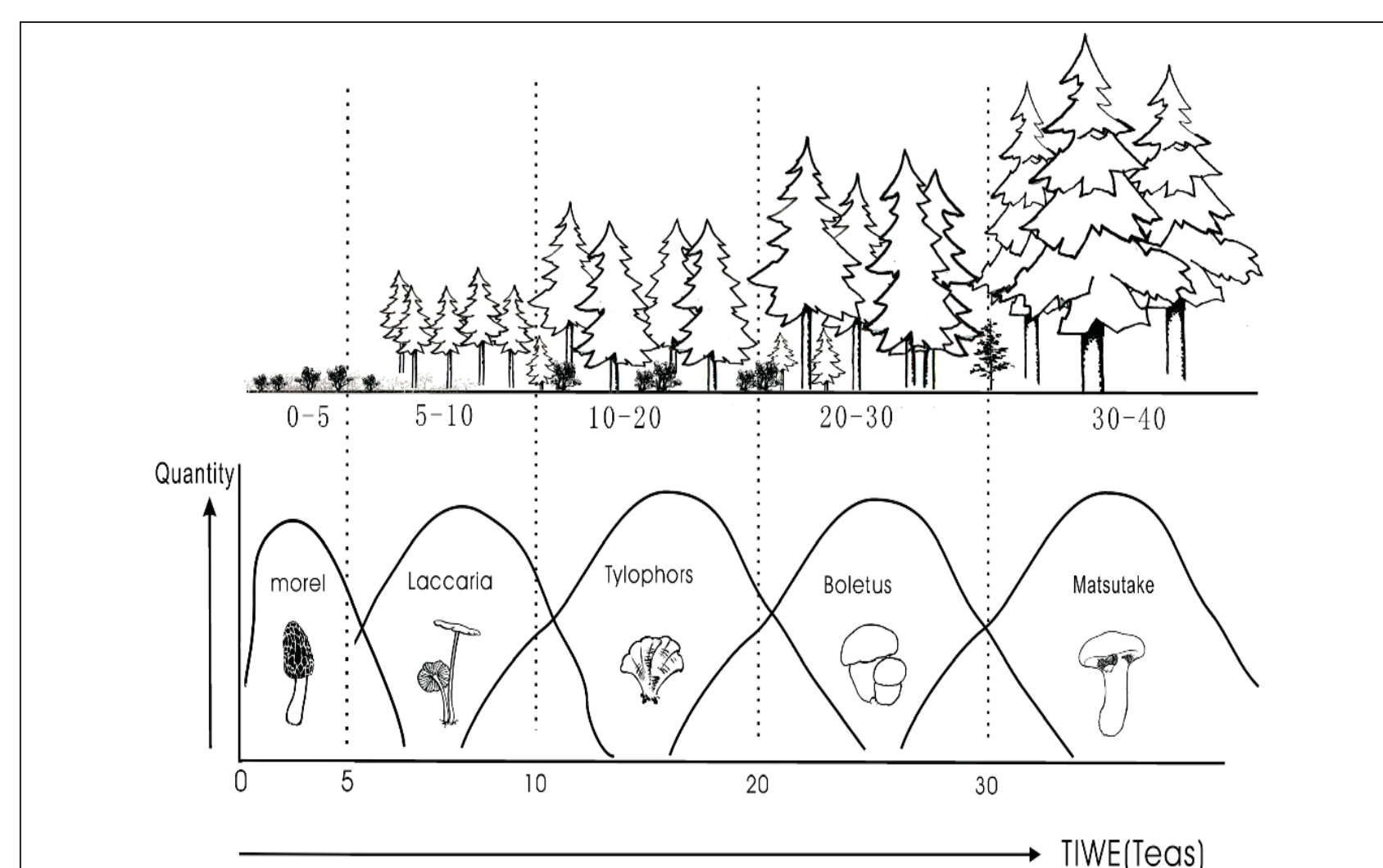


Before intervention

After intervention

Households	Area (ha)	2006		2007		2008	
		Production (kg)	Cash Income (USD)	Production (kg)	Cash Income (USD)	Production (kg)	Cash Income (USD)
Household A	0.40	20.0	285.71	30.4	431.43	43.2	987.14
Household B	0.33	12.0	171.43	16.6	285.71	21.6	442.86
Household C	1.00	10.0	128.57	29.6	511.43	46.1	980.00
Household D	1.00	37.5	428.57	47.9	815.71	51.2	1085.71
Household E	1.00	25.0	285.71	40.0	571.43	56.4	1262.86
<b>Average</b>	<b>0.75</b>	<b>20.9</b>	<b>260.00</b>	<b>32.9</b>	<b>523.14</b>	<b>43.5</b>	<b>971.71</b>

% indicate the increasing rate of production and net income against previous year.



Wild harvesting of mushrooms in forests and plantations is big business in Yunnan. Last year the trade of *Tricholoma matsutake* alone topped \$100 million. Many of the harvesting areas for this species are in pine plantations, giving extra value to these man made forests.