Supplementary Materials

Tree/Crop	System	Basal Application (kg ha ⁻¹ Year ⁻¹)	Top-Dressing (kg ha ⁻¹ Year ⁻¹)		
Maize	SM	Mineral NPK fertiliser (5–10–3): 600	Urea: 280 KCl: 120		
			Urea: 250 in the first three years; 240 in		
	IMC	Mineral NPK fertiliser (5-10-3): 540 in the first three	years 4 and 5; 230 in years 6 and 7		
	LING	years; 520 in years 4 and 5; 500 in years 6 and 7	KCl: 110 in the first three years; 105 in years		
			4 and 5; 100 in years 6 and 7		
Longen	SL	Mineral NPK fertiliser (5–10–3): 400	Mineral NPK fertiliser (5–10–3): 400		
Longan		Manure: 6000	Manure: 8000 in years 5–7		
	LMG	Mineral NPK fertiliser (5–10–3): 240	Mineral NPK fertiliser (5–10–3): 240		
		Manure: 3600	Manure: 4800 in years 5–7		
Com tre	SST	Mineral NPK fertiliser (5–10–3): 500	Minoral NIDK fortilizor (E. 10, 2), 450		
Son tra		Manure: 7500	Mineral NFK lertiliser (5–10–5): 450		
	STG	Mineral NPK fertiliser (5–10–3): 500	Minoral NPK fortilizor (5, 10, 2), 450		
		Manure: 7500	Winteral Ni K leitinsei (3–10–3). 450		
	STM	Mineral NPK fertiliser (5–10–3): 500	Minoral NIDK fortilizor (E. 10, 2), 450		
		Manure: 7500	witheral INFK tertiliser $(5-10-3)$: 450		

Table S1. Fertilisation regime applied in the sole-crop and agroforestry systems in Van Chan and Tuan Giao.

SM: sole-crop maize, SL: sole-crop longan, LGM: longan-maize-forage grass, SST: sole-crop son tra, STG: son tra-guinea grass, STM: son tra-mulato grass. Mineral NPK fertiliser (NPK 5–10–3), urea (46% N), and potassium chloride (48.6% K). Manure (composted animal manure).

Innuto	Price (USD Seedling ⁻¹ or kg ⁻¹ or Bottle ⁻¹ or Day ⁻¹)						
Inputs	2012	2013	2014	2015	2016	2017	2018
Longan (seedlings)	4.80	2.13	2.10	2.00	1.98	1.98	1.93
Son tra (seedlings)	1.68	1.66	1.64	1.55	1.54	1.54	1.50
Guinea grass (kg)	0.14	0.14	0.14	0.13	0.13	0.13	0.13
Mulato grass (kg)	0.14	0.14	0.14	0.13	0.13	0.13	0.13
Maize seeds (kg)	5.28	5.21	5.14	4.88	5.07	5.06	4.93
Urea (kg)	0.48	0.47	0.33	0.29	0.29	0.29	0.28
NPK (kg)	0.22	0.24	0.19	0.18	0.18	0.18	0.17
KCl (kg)	0.41	0.40	0.40	0.35	0.35	0.35	0.34
Animal manure (kg)	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Pesticides (bottle)	1.20	1.18	1.17	1.11	1.10	1.10	1.07
Labour (day)	4.80	4.74	4.68	4.43	4.41	4.40	4.29
Products			Sale Pr	ice (US	D kg-1)		
Longan (fruit)	1.44	1.42	1.17	0.80	0.79	0.88	0.43
Son tra (fruit)	0.58	0.57	0.70	0.44	0.44	0.44	0.43
Maize (dry grain)	0.31	0.28	0.26	0.21	0.20	0.20	0.19
Grass (fresh biomass)	0.07	0.07	0.07	0.07	0.07	0.07	0.06

Table S2. Cost of cropping inputs and prices paid for products at the study sites, 2012–2018 (data provided by the provincial extension department).

Exchange rate US dollars (USD) to Vietnamese dollars (VND) in 2012, 2013, 2014, 2015, 2016, 2017, and 2018 was 20,825, 21,105, 21,388, 22,550, 22,687, 22,710, and 23,336 VDN per USD, respectively).

Table S3. Groups selected for farmer group discussions (FGD).

				Famer Groups			
Province	District	Commune	Village	Poor Male (n)	Poor Female (n)	Non-Poor (Mix of Males and Females) (n)	Total FGD
Yen Bai	Van	Son Thinh	Van Thi 3	5	5	5	3
	Chan		Van Thi 4*	5	5	5	3

Dien Bien	Tuan	Toa Tinh	Hua Sa A*	5	5	5	3
	Giao		Long	5	5	5	3

*Experiment locations.

Table S4. List of questions used in farmer group discussions.

1	What do you think about the performance of trees/crops/grass in agroforestry compared with sole crops in terms of growth and productivity? How, why, solutions?
	why, solutions?
2	How can individual components in agroforestry provide benefits?
	Can these benefits be determined in the long term? Why and how?
	What are the effects of agroforestry compared with sole-crop cultivation on:
	(i) Soil loss and soil fertility? How, why, solutions?
3	(ii) Resilience under local weather conditions, extreme conditions (drought, storm, snow)? How and why, solutions?
	(iii) Susceptibility to weeds/pest/disease? How, why, solutions?
4	What do you think about agroforestry as an option for farmers in your village/commune in terms of land, labour, financial/investment requirements compared with sole-crop cultivation?
	How, why, solutions?
5	Is there access to a market for the tree/grass/annual crop products from agroforestry? How, why, solutions?
	What do you think about the market in the future? Stable, unstable, other? How, why, solutions?
	What do you think about the future development of agroforestry in your village/commune/district? How, why, solutions?
	Which products would you be most interested in?
6	What would be required to encourage a larger number of farmers in your village/commune/district to adopt agroforestry? How, why, solutions?
	What are the constraints to the expansion of agroforestry? Solutions enabling expansion?