

Appendix D1. *Impact pathways certified farmers vs. controls in USD (2015)*

Impact pathway variables	C.A.F.E. (n=81)		AAA (n=141)		4C (n=74)		RA/AAA (n=79)		C (n=237)
	Mean	ATET	Mean	ATET	Mean	ATET	Mean	ATET	Mean
<i>Price premiums</i>									
Coffee sales revenue per carga (a)	247.79	7.88* (4.63)	243.50	6.79	258.03	16.49*** (3.92)	239.25	0.77	242.24
<i>Productivity</i>									
Production 2015	40.96	-0.96	22.56	-13.84*** (4.38)	33.11	-2.88	31.86	-5.88	39.18
Yields per hectare (in kg)	1,635.46	-6.63	1,438.02	-155.42	1625.35	-95.58	1,451.90	-20.95	1,604.12
<i>Costs of production</i>									
Agricultural inputs (per farm)	1,444.77	-125.31	897.65	-454.16** (199.49)	1,132.39	66.42	971.20	-526.44** (247.50)	1,434.72
Labour (per farm)	5,022.33	-376.36	2,950.76	-1,619.96*** (574.39)	4,021.58	-60.12	4,231.34	-1,079.28	5,150.94
Other	210.69	59.7	97.76	-25.09	164.53	52.97	159.14	38.02	136.92
Total per farm	6,723.61	-412.66	3,991.18	-2,100.01*** (781.70)	5,407.52	116.2	5,381.10	-1,563.90* (880.74)	6,759.46
Total per hectare	2,236.41	-149.49	2,001.79	-146.30	2,237.34	91.93	2,071.16	-91.00	2,324.69
<i>Access to credit</i>									
Received formal credit (dummy)	0.54	0.15*	0.42	-0.03	0.44	0.09	0.36	0.04	0.43
Received informal credit (dummy)	0.17	-0.01	0.14	-0.02	0.24	0.01	0.13	-0.05	0.16

Notes: \*\*\*p < 0.01; \*\*p < 0.05; \*p < 0.1. Robust standard errors displayed in parenthesis for significant coefficients. (a) 1 carga = 125 kg.

Appendix D2. *Underlying practices certified farmers vs. controls in USD (2015)*

Underlying practices	C.A.F.E. (n=81)		AAA (n=141)		4C (n=74)		RA/AAA (n=79)		C (n=237)
	Mean	ATET	Mean	ATET	Mean	ATET	Mean	ATET	Mean
<i>Training</i>									
Always attends trainings (dummy)	0.85	0.081* (0.05)	0.89	-0.05	0.82	0	0.95	0.087* (0.04)	0.82
Always implements learned in trainings (dummy)	0.85	0.04	0.9	-0.07*** (0.03)	0.93	0.04	0.94	0.23	0.87
<i>Agricultural practices</i>									
Prunes coffee plants (dummy)	0.43	0.13** (0.06)	0.44	0.16** (0.06)	0.31	0.04	0.53	0.27*** (0.07)	0.22
Practices removing the stems (dummy)	0.74	-0.03	0.67	0.01	0.65	-0.05	0.71	0.74	0.71
Implements insect control (dummy)	0.86	-0.02	0.89	0	0.74	-0.11* (0.06)	0.97	0.1** (0.04)	0.85
Utilises disease control (dummy)	0.11	-0.05	0.18	0.06	0.55	0.43*** (0.06)	0.01	-0.21*** (0.04)	0.18
Access to soil analysis (dummy)	0.12	-0.04	0.23	0.06	0.27	0.18*** (0.06)	0.30	0.15** (0.06)	0.14
Input fertilisers per hectare	466.26	-81.17	450.94	-3.39	533.83	108.83* (58.58)	367.11	-90.22* (46.80)	479.59
<i>Record keeping &amp; knowledge</i>									
Record keeping (dummy)	0.43	0.13* (0.07)	0.44	0.033	0.33	0.05	0.48	0.18** (0.07)	0.30
Spend 5+ hours in record keeping (dummy)	0.05	-0.05	0.03	-0.03	0	-0.06* (0.03)	0.05	-0.02	0.04

Notes: \*\*\*p < 0.01; \*\*p < 0.05; \*p < 0.1. Robust standard errors displayed in parenthesis for significant coefficients.