

Table S1. Papers meeting two out of three criteria with risk of bias

Reference	Location	Commodity	Certification program
(Melo and Wolf, 2005)	Ecuador	Banana	Fairtrade, Rainforest Alliance
(Jacobi et al., 2015)	Bolivia	Cocoa	Organic
(Smith Dumont et al., 2014)	Cote d'Ivoire	Cocoa	Rainforest Alliance, UTZ
(Gockowski et al., 2013)	Ghana	Cocoa	Rainforest Alliance
(Saswattecha et al., 2015)	Thailand	Oil palm	RSPO
(Ochieng et al., 2013)	Kenya	Tea	Rainforest Alliance
(Lyngbaek et al., 2001)	Costa Rica	Coffee	Organic
(Bacon et al., 2014)	Nicaragua	Coffee	Fairtrade
(Elder et al., 2012) (Elder et al., 2013)	Rwanda	Coffee	Fairtrade
(Bacon, 2005)	Nicaragua	Coffee	Fairtrade, organic
(Bacon et al., 2008)	Nicaragua	Coffee	Fairtrade
(Mendez et al., 2010)	Central America and Mexico	Coffee	Fairtrade, Organic, Fairtrade/organic
(Philpott et al., 2007)	Mexico	Coffee	Fairtrade, Fairtrade/organic
(Jaffee, 2009)	Mexico	Coffee	Fairtrade

See Table S2 spreadsheet for response variables

Table S3. Number of response variables and cases included in the review by category, certification program, and commodity

CATEGORY VS CERTIFICATION PROGRAM

NO. OF RESPONSE VARIABLES				NO. OF CASES		
	CATEGORY			CATEGORY		
CERTIFICATION PROGRAM	ENV	ECO	SOC	ENV	ECO	SOC
Fair Trade	8	114	54	4	10	9
Organic	0	25	0	0	4	0
Rainforest Alliance	16	4	5	2	1	1
Fair Trade/Utz	0	26	5	0	1	1
Fair Trade/organic	0	4	0	0	1	0
Utz	0	56	32	0	6	5

COMMODITY VS CERTIFICATION PROGRAM

NO. OF RESPONSE VARIABLES				NO. OF CASES		
	COMMODITY			COMMODITY		
CERTIFICATION PROGRAM	tea	banana	coffee	tea	banana	coffee
Fair Trade	0	49	127	0	2	8
Organic	20	0	5	2	0	2
Rainforest Alliance	0	0	25	0	0	2
Fair Trade/Utz	0	0	31	0	0	1
Fair Trade/organic	0	0	4	0	0	1
Utz	0	0	88	0	0	6

COMMODITY VS CATEGORY

NO. OF RESPONSE VARIABLES				NO. OF CASES		
	COMMODITY			COMMODITY		
CATEGORY	tea	banana	coffee	tea	banana	coffee
ENV	0	4	20	0	2	4
ECO	20	30	179	2	2	19
SOC	0	15	81	0	2	14

Figure S1. Average fraction of positive, not significant and negative response variables within the aggregated economic category (n=14 for household income and n=12 for revenue from commodity) (top) and aggregated environmental category (n=2 for habitat conservation and n=5 for other environmental practices) (bottom). Error bars are 95% confidence intervals.

