

Table S1: Coefficient estimates of the MVP without correlated random effects (CRE)

VARIABLES	CR	AM	MT	RR	CF	PH	IS	RH
Household/farm characteristics								
Sex_HHH	0.0471***	0.0478***	0.0256*	0.0518*	0.0668*	0.0488*	0.0496* **	0.0409*
	(0.011)	(0.0105)	(0.0107)	(0.0199)	(0.0290)	(0.0241)	(0.0181)	(0.0128)
Age_HHH	0.0043	0.0004	0.0005	0.00321	0.0014	-0.0112***	-0.0011	0.0003
	(0.0032)	(0.0032)	(0.0030)	(0.0035)	(0.0042)	(0.0010)	(0.0020)	(0.0032)
Education_HHH	0.0124	0.016	-0.0089	-0.0034	0.0224	-0.0838***	-0.0010	-0.0138
	(0.011)	(0.010)	(0.0113)	(0.0132)	(0.0155)	(0.0076)	(0.0159)	(0.0121)
Labour use	-0.0135	-0.0075	-0.0175	0.0189	-0.0132	0.0054	0.0105	-0.0131
	(0.0128)	(0.0121)	(0.011)	(0.0121)	(0.0164)	(0.0069)	(0.0191)	(0.0139)
TLU	0.268**	0.237**	0.501***	0.066	0.378***	0.643***	0.332** *	0.258***
	(0.121)	(0.112)	(0.137)	(0.515)	(0.075)	(0.111)	(0.081)	(0.093)
FBO membership status	0.035	0.0849	0.085	-0.0991	-0.0917	0.222	0.0241	0.00781
	(0.147)	(0.1439)	(0.136)	(0.167)	(0.196)	(0.913)	(0.189)	(0.169)
FBO_residual	0.100	-0.170	-0.190	-0.247	-0.229	0.131	0.0931	0.0151
	(0.13)	(0.160)	(0.140)	(0.166)	(0.213)	(0.122)	(0.199)	(0.178)
Asset_index	0.0450***	0.0424*	0.0409**	-0.136	0.0685***	0.0274*	0.0562* **	0.0449** *
	(0.0135)	(0.0233)	(0.0193)	(0.249)	(0.0231)	(0.0156)	(0.0181)	(0.0141)
Dep_ratio	-0.00383	0.0495	-0.216	-0.029	0.0328	0.0298	0.0141	0.0451
	(0.0528)	(0.0461)	(0.144)	(0.0574)	(0.0615)	(0.0413)	(0.0589)	(0.0471)
Plot_size	0.589***	-0.679***	0.923***	0.580***	-0.619***	-0.685***	- 0.338** *	-1.286**
	(0.191)	(0.158)	(0.212)	(0.226)	(0.051)	(0.213)	(0.081)	(0.621)
Plot_title	0.166***	0.381**	0.023	0.103	0.129***	0.017	0.111	0.268***

	(0.042)	(0.189)	(0.126)	(0.124)	(0.040)	(0.111)	(0.139)	(0.065)
Plot_distance	-0.589***	-0.679***	0.114**	0.405***	-0.921***	-0.655***	-0.358**	0.240*
	(0.191)	(0.158)	(0.045)	(0.129)	(0.217)	(0.111)	(0.151)	(0.141)
Institutional conditions								
Contract farming	-0.0741	0.0687	0.287	0.256	-0.0026	0.179	0.0712	-0.259**
	(0.222)	(0.219)	(0.211)	(0.242)	(0.309)	(0.132)	(0.268)	(0.127)
Credit	0.006**	-0.276*	-0.0179	0.466	-0.0961*	-0.0936**	-0.156*	0.159
	(0.002)	(0.148)	(0.121)	(0.164)	(0.0523)	(0.0430)	(0.0828)	(0.175)
Tenure security	-0.0138	0.116	0.129***	0.0502	0.108	-0.0379	-0.0153	-0.200*
	(0.141)	(0.139)	(0.028)	(0.151)	(0.196)	(0.0899)	(0.175)	(0.112)
Extension	-0.109	-0.0881	-0.199*	-0.279**	0.0684	0.168**	-0.246	-0.221
	(0.135)	(0.131)	(0.115)	(0.138)	(0.170)	(0.0831)	(0.166)	(0.149)
Agroecological/location dummies	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Infrastructure use								
Storage_facility	0.301***	0.552*	0.589**	0.519**	0.588*	0.319*	0.320*	0.444**
	(0.087)	(0.263)	(0.268)	(0.211)	(0.341)	(0.187)	(0.185)	(0.214)
Irrigation_facility	0.251***	0.296***	0.694**	0.825*	0.551*	0.351***	0.331*	-0.399***
	(0.088)	(0.053)	(0.311)	(0.440)	(0.280)	(0.122)	(0.199)	(0.111)
Year	0.004	0.003	0.003	-0.011***	-0.000	-1.212***	-1.170*	0.283**
	(0.003)	(0.004)	(0.003)	(0.000)	(0.000)	(0.301)	(0.651)	(0.114)
Constant	-2.165***	-1.599***	-0.169	-2.566***	-2.964***	-0.666***	-0.619**	-1.218***
	(0.184)	(0.351)	(0.323)	(0.311)	(0.410)	(0.211)	(0.243)	(0.311)
Observations	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548

Robust standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1