

Table S5: CRE-OPRETRE estimates of determinants of household's use of irrigation facility and levels of SAP adoption

VARIABLES	(1) Ordered_SAP s	(2) Irrigation_facility	(3) /Ordered_SA Ps	(4) /
0b.Irrigation_facility#c.Labour use	0.163*** (0.0129)		0.163*** (0.0129)	
1.Irrigation_facility#c.Labour use	0.113*** (0.0297)		0.113*** (0.0297)	
0b.Irrigation_facility#c.TLU	0.306*** (0.0510)		0.306*** (0.0510)	
1.Irrigation_facility#c.TLU	0.181* (0.104)		0.181* (0.104)	
0b.Irrigation_facility#c.Sex_HHH	0.254** (0.111)		0.254** (0.111)	
1.Irrigation_facility#c.Sex_HHH	0.713** (0.301)		0.713** (0.301)	
0b.Irrigation_facility#c.Age_HHH	0.0015 (0.0019)		0.0015 (0.0019)	
1.Irrigation_facility#c.Age_HHH	0.0064 (0.0041)		0.0064 (0.0041)	
0b.Irrigation_facility#c.Education_HHH	0.0146** (0.0068)		0.0146** (0.0068)	
1.Irrigation_facility#c.Education_HHH	0.0353** (0.0157)		0.0353** (0.0157)	
0b.Irrigation_facility#c.FBO_residual	0.0100** (0.0050)		0.0100** (0.0050)	
1.Irrigation_facility#c.FBO_residual	-0.0120* (0.0071)		-0.0120* (0.0071)	
0b.Irrigation_facility#c.Plot_size	-0.0029 (0.0097)		-0.0029 (0.0097)	

1.Irrigation_facility#c.Plot_size	-0.0505 (0.0722)	-0.0505 (0.0722)
0b.Irrigation_facility#c.Contract farming	0.687*** (0.123)	0.687*** (0.123)
1.Irrigation_facility#c.Contract farming	0.368** (0.173)	0.368** (0.173)
0b.Irrigation_facility#c.Extension advice	0.0936*** (0.0158)	0.0936*** (0.0158)
1.Irrigation_facility#c.Extension advice	-0.157*** (0.057)	-0.157*** (0.057)
0b.Irrigation_facility#c.FBO membership status	-0.205** (0.089)	-0.205** (0.089)
1.Irrigation_facility#c.FBO membership status	0.509*** (0.183)	0.509*** (0.183)
0b.Irrigation_facility#c.Credit	-0.0317 (0.0863)	-0.0317 (0.0863)
1.Irrigation_facility#c.Credit	-0.282 (0.181)	-0.282 (0.181)
0b.Irrigation_facility#c.Tenure security	-0.0540* (0.0295)	-0.0540* (0.0295)
1.Irrigation_facility#c.Tenure security	0.378** (0.168)	0.378** (0.168)
0b.Irrigation_facility#c.Asset index	-0.0304** (0.0151)	-0.0304** (0.0151)
1.Irrigation_facility#c.Asset index	-0.0978* (0.0559)	-0.0978* (0.0559)
0b.Irrigation_facility#c.Dependency ratio	0.00198 (0.0287)	0.00198 (0.0287)
1.Irrigation_facility#c.Dependency ratio	0.0262 (0.0659)	0.0262 (0.0659)
0b.Irrigation_facility#c.Above_ave	-0.0640 (0.0725)	-0.0640 (0.0725)

1.Irrigation_facility#c.Above_ave	0.240 (0.164)	0.240 (0.164)
0b.Irrigation_facility#c.Average	-0.0369** (0.0168)	-0.0369** (0.0168)
1.Irrigation_facility#c.Average	0.643*** (0.181)	0.643*** (0.181)
0b.Irrigation_facility#c.Losess	-0.0388 (0.0232)	-0.0388 (0.0232)
1.Irrigation_facility#c.Losess	0.0240*** (0.0079)	0.0240*** (0.0079)
0b.Irrigation_facility#c.avFS	0.0508*** (0.0135)	0.0508*** (0.0135)
1.Irrigation_facility#c.avFS	0.0579*** (0.0122)	0.0579*** (0.0122)
0b.Irrigation_facility#c.avcontract	-0.669*** (0.155)	-0.669*** (0.155)
1.Irrigation_facility#c.avcontract	-0.189*** (0.058)	-0.189*** (0.058)
0b.Irrigation_facility#c.avext	-0.111 (0.104)	-0.111 (0.104)
1.Irrigation_facility#c.avext	0.373 (0.237)	0.373 (0.237)
0b.Irrigation_facility#c.avfbo	0.613*** (0.117)	0.613*** (0.117)
1.Irrigation_facility#c.avfbo	-0.558** (0.258)	-0.558** (0.258)
0b.Irrigation_facility#c.avcredit	0.0101 (0.121)	0.0101 (0.121)
1.Irrigation_facility#c.avcredit	0.247 (0.266)	0.247 (0.266)
0b.Irrigation_facility#c.avtenure	-0.798*** (0.113)	-0.798*** (0.113)

1.Irrigation_facility#c.avtenure	-0.541** (0.264)	-0.541** (0.264)
0b.Irrigation_facility#c.avAAv	0.361*** (0.106)	0.361*** (0.106)
1.Irrigation_facility#c.avAAv	-0.888*** (0.246)	-0.888*** (0.246)
0b.Irrigation_facility#c.avAv	0.0324 (0.107)	0.0324 (0.107)
1.Irrigation_facility#c.avAv	-0.231 (0.242)	-0.231 (0.242)
0b.Irrigation_facility#c.Ethiopia	0.698*** (0.106)	0.698*** (0.106)
1.Irrigation_facility#c.Ethiopia	0.816*** (0.204)	0.816*** (0.204)
0b.Irrigation_facility#c.Ghana	0.0435 (0.0961)	0.0435 (0.0961)
1.Irrigation_facility#c.Ghana	0.278 (0.223)	0.278 (0.223)
0b.Irrigation_facility#c.Kenya	0.213** (0.102)	0.213** (0.102)
1.Irrigation_facility#c.Kenya	0.289*** (0.104)	0.289*** (0.104)
0b.Irrigation_facility#c.Malawi	-0.542*** (0.121)	-0.542*** (0.121)
1.Irrigation_facility#c.Malawi	-0.0746*** (0.0228)	-0.0746*** (0.0228)
0b.Irrigation_facility#c.Nigeria	-0.415*** (0.114)	-0.415*** (0.114)
1.Irrigation_facility#c.Nigeria	0.292** (0.119)	0.292** (0.119)
0b.Irrigation_facility#c.Tanzania	0.922*** (0.262)	0.922*** (0.262)

1.Irrigation_facility#c.Tanzania	0.683*** (0.212)	0.683*** (0.212)
0b.Irrigation_facility#c.Mozambique	0.226** (0.101)	0.226** (0.101)
1.Irrigation_facility#c.Mozambique	0.452* (0.271)	0.452* (0.271)
Labour use		0.448* (0.239)
Sex_HHH		0.391** (0.178)
Age_HHH		-0.617** (0.263)
Education_HHH		-0.0195* (0.0101)
Plot_size		-0.624*** (0.210)
Labour use		-1.585*** (0.465)
Contract farming		-0.0808 (0.173)
Extension advice		-0.363** (0.148)
FBO membership status		-1.280** (0.582)
Credit		0.0921 (0.123)
Tenure security		0.0432 (0.113)
Asset index		0.0561* (0.0301)
Dependency ratio		0.0352*** (0.0120)

Above_ave	-0.746*
	(0.398)
Average	0.00353
	(0.110)
Losess	-0.0072*
	(0.0038)
avFS	-0.370***
	(0.146)
avcontract	0.511***
	(0.136)
avext	0.332***
	(0.089)
avfbo	-0.733*
	(0.412)
avcredit	-0.557**
	(0.273)
avtenure	-0.625*
	(0.367)
avAAv	-0.387**
	(0.156)
avAv	1.073**
	(0.435)
Ethiopia	2.039**
	(1.023)
Ghana	0.0207
	(0.131)
Kenya	-0.725***
	(0.179)
Malawi	0.266*
	(0.156)
Nigeria	-0.506*
	(0.297)

Tanzania		-0.191***		
		(0.020)		
Zambia		-0.483***		
		(0.162)		
1.Associations_HH_manage		-0.218**		
		(0.0948)		
1.Supravillage_organisations		0.386**		
		(0.155)		
corr(e.Irrigation_facility,e.Odered_SAPs)				-0.874***
				(0.112)
var(Odered_SAPs[hhid])				0.259***
				(0.0678)
var(Irrigation_facility[hhid])				0.286**
				(0.143)
corr(Irrigation_facility[hhid],Odered_SAPs[hhid])				-0.467***
				(0.171)
Constant		-1.174***		
		(0.319)		
Observations	2,548	2,548	2,548	2,548
Number of hhid	1,889	1,889	1,889	1,889

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1