

Supplementary Materials

Table S1. Monthly flow costs of storing one kilogram of maize in the polypropylene bag.

Month	Savalou								Boukoumbé								
	Cost (FCFA/kg)								Costs (FCFA/kg)								
	Variable cost				Total Storage Costs				Fixed Cost	Variable Cost				Total Storage Costs			
	Fixed Cost	Labor	Treatment	Maize Lost		Interest on Capital	- ctrol	+ ctrol		Labor	Treatment	Maize Lost		Interest on Capital	- Ctrol	+ Ctrol	
- ctrol				+ ctrol	- ctrol				+ ctrol								
Month 1	0.50	26.11	3.04	2.75	2.35	0.15	29.51	32.15	0.50	19.36	2.94	0.48	0.37	0.16	20.5	23.33	
Month 2	0.50	26.11	3.04	9.26	6.49	0.15	36.02	36.29	0.50	19.36	2.94	1.65	1.02	0.16	21.67	23.98	
Month 3	0.50	26.11	3.04	13.63	9.44	0.15	40.39	39.24	0.50	19.36	2.94	3.57	2.71	0.16	23.59	25.67	
Month 4	0.50	26.11	3.04	16.51	14.10	0.15	43.27	43.9	0.50	19.36	2.94	6.27	3.36	0.16	26.29	26.32	
Month 5	0.50	26.11	3.04	21.68	16.82	0.15	48.44	46.62	0.50	19.36	2.94	6.38	4.13	0.16	26.4	27.09	
Month 6	0.50	26.11	3.04	27.43	17.28	0.15	54.19	47.08	0.50	19.36	2.94	8.02	4.14	0.16	28.04	27.1	
Discounted costs	1.21	63.40	7.39	23.01	17.38	0.37	87.99	89.75	1.21	46.94	7.14	6.01	3.52	0.39	54.55	59.2	

Table S2. Monthly flow costs of storing one kilogram of maize in the PICS bags.

Month ²	Savalou								Boukoubé							
	Costs (FCFA/kg)								Cost (FCFA/kg)							

	Scenario 1								Scenario 2							
	Fixed Cost	Variable Cost				Total Storage Costs			Fixed Cost	Variable Cost				Total Storage Costs		
		Labor	Treatment	Maize Lost		Interest on capital	– Ctrol	+ Ctrol		Labor	Treatment	Maize Lost		Interest on Capital	– Ctrol	+ Ctrol
				– Ctrol	+ Ctrol							– Ctrol	+ Ctrol			
Month 1	1.62	26.11	3.04	0	0	0.15	27.88	30.92	1.77	19.36	2.94	0	0	0.16	21.29	24.23
Month 2	1.62	26.11	3.04	0	0	0.15	27.88	30.92	1.77	19.36	2.94	0	0	0.16	21.29	24.23
Month 3	1.62	26.11	3.04	7.01	6.14	0.15	34.89	37.06	1.77	19.36	2.94	2.53	1.47	0.16	23.82	25.7
Month 4	1.62	26.11	3.04	11.22	10.01	0.15	39.1	40.93	1.77	19.36	2.94	4.19	2.36	0.16	25.48	26.59
Month 5	1.62	26.11	3.04	15.31	12.11	0.15	43.19	43.03	1.77	19.36	2.94	5.46	3.42	0.16	26.75	27.65
Month 6	1.62	26.11	3.04	16.04	12.90	0.15	43.92	43.82	1.77	19.36	2.94	5.65	3.42	0.16	26.94	27.65
Discounted costs	3.94	63.40	7.39	10.25	8.68	0.37	77.96	83.78	4.30	46.94	7.14	3.58	2.07	0.39	55.21	60.84

Table S3. Monthly flow costs of storing one kilogram of maize in the Metal silo.

Month	Savalou								Boukoumbé							
	Cost (FCFA/kg)								Cost (FCFA/kg)							
	Fixed Cost	Variable cost					Total Storage Costs		Fixed Cost	Variable cost					Total Storage Costs	
		Labor	Treatment	Maize Lost		Interest on Capital										
				- Ctrial	+ Ctrial		- Ctrial	+ Ctrial		Interest on Capital	- Ctrial	+ Ctrial				
Month 1	13.12	26.11	3.04	5.44	5.18	0.15	44.82	47.6	13.01	19.36	2.94	0.98	0.45	0.16	33.51	35.92
Month 2	13.12	26.11	3.04	10.6	9.63	0.15	49.98	52.05	13.01	19.36	2.94	2.68	1.57	0.16	35.21	37.04

Month 3	13.12	26.11	3.04	20.13	1419	0.15	59.51	56.61	13.01	19.36	2.94	3.78	3.1	0.16	36.31	38.57
Month 4	13.12	26.11	3.04	23.31	16.14	0.15	62.69	58.56	13.01	19.36	2.94	5.83	4	0.16	38.36	39.47
Month 5	13.12	26.11	3.04	26.14	18.76	0.15	65.52	61.18	13.01	19.36	2.94	7.36	4.87	0.16	39.89	40.34
Month 6	13.12	26.11	3.04	27.82	18.84	0.15	67.2	61.26	13.01	19.36	2.94	9.08	5.23	0.16	41.61	40.7
Discounted costs	31.85	63.4	7.39	31.61	25.88	0.37	127.23	128.89	31.54	46.94	7.14	7.85	4.86	0.39	86.72	90.87

Table S4. Monthly flow costs of storing one kilogram of maize in the Improved clay granary.

Month	Savalou								Boukoumbé							
	Cost (FCFA/kg)								Cost (FCFA/kg)							
	Fixed Cost	Variable Cost				Interest on Capital	Total storage costs		Fixed cost	Variable Cost				Interest on Capital	Total Storage Costs	
		Labor	Treatmen t	Maize Lost			– Ctrol	+ Ctrol		Labor	Treatmen t	Maize Lost			– Ctrol	+ Ctrol
				– ctrol	+ Ctrol							– Ctrol	+ Ctrol			
Month 1	6.21	26.11	3.04	2.49	1.89	0,,15	34.96	37.4	4.8	19.36	2.94	1.2	0.64	0.16	25.52	27.9
Month 2	6.21	26.11	3.04	9.84	5.12	0.15	42.31	40.63	4.8	19.36	2.94	2.87	1.86	0.16	27.19	29.12
Month 3	6.21	26.11	3.04	20.03	9.75	0.15	52.5	45.26	4.8	19.36	2.94	6.15	4.24	0.16	30.47	31.5
Month 4	6.21	26.11	3.04	29.55	16.12	0.15	62.02	51.63	4.8	19.36	2.94	9.82	7.78	0.16	34.14	35.04
Month 5	6.21	26.11	3.04	34.56	21.72	0.15	67.03	57.23	4.8	19.36	2.94	15.57	10.03	0.16	39.89	37.29
Month 6	6.21	26.11	3.04	44.66	24.7	0.15	77.13	60.21	4.8	19.36	2.94	20.05	10.4	0.16	44.37	37.66
Discounted costs	15.08	63.4	7.39	26.1	15.67	0.37	104.95	101.91	11.63	46.94	7.14	9.24	7.61	0.39	68.2	73.71