

Annex 2 – Tables and charts

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A. HOUSEHOLD CHARACTERISTICS

Table 1: Household characteristics

	Obs.	Min	Mean	Std. dev.	Max
Male head of household ^a	21	1.00	1.00	0.00	1.00
Age (years)	21	27.00	53.76	11.17	69.00
Household size	21	4.00	12.05	9.21	38.00
Number of girls <15 years old in the household	21	0.00	2.71	3.07	11.00
Number of boys <15 years old in the household	21	0.00	3.24	3.32	13.00
Number of women 15-64 years old in the household	21	0.00	2.81	2.44	10.00
Number of men 15-64 years old in the household	21	0.00	2.90	1.84	6.00
Number of women 65+ years old in the household	21	0.00	0.19	0.40	1.00
Number of men 65+ years old in the household	21	0.00	0.19	0.40	1.00
Number of women 15-24 years old in the household	21	0.00	1.05	1.20	3.00
Number of men 15-24 years old in the household	21	0.00	1.33	1.43	4.00
Number of women 25+ years old in the household	21	1.00	1.95	1.72	7.00
Number of men 25+ years old in the household	21	1.00	1.76	0.94	4.00

^aAll surveyed heads of household are male

Table 2: Marital status of head of household

	Marital status of head of household		
	Freq.	Percent	Cum.
Civil marriage	4	19.05	19.05
Religious/customary marriage	16	76.19	95.24
Cohabitation	1	4.76	100.00
Total	21	100.00	

Table 3: Educational level of head of household

	Educational level of head of household		
	Freq.	Percent	Cum.
No education	4	19.05	19.05
Primary education	9	42.86	61.90
Junior secondary school	3	14.29	76.19
Senior secondary school	4	19.05	95.24
University	1	4.76	100.00
Total	21	100.00	

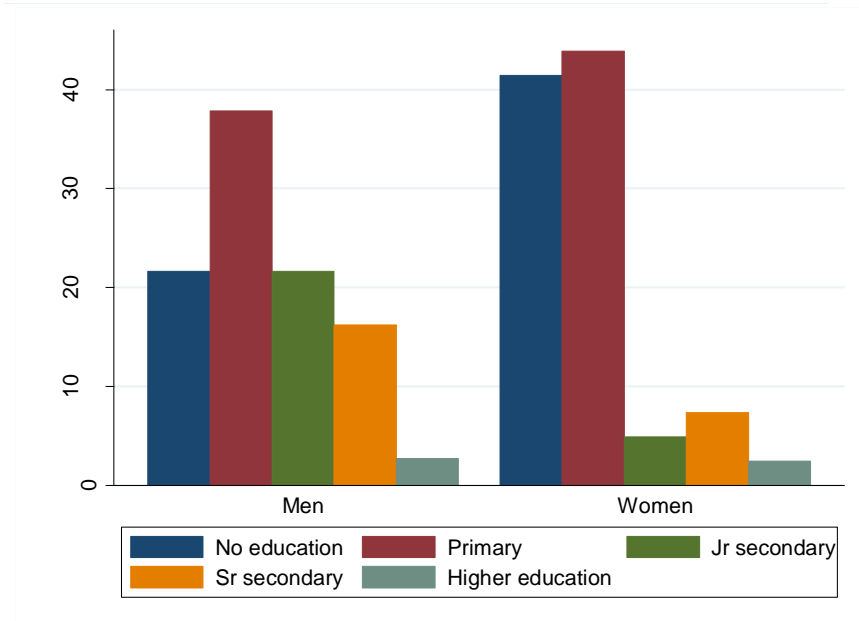
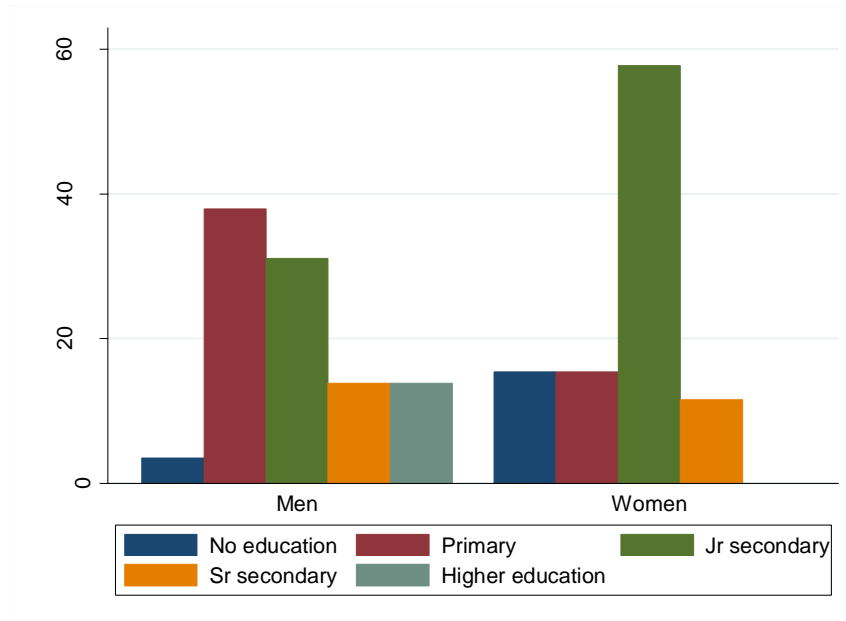
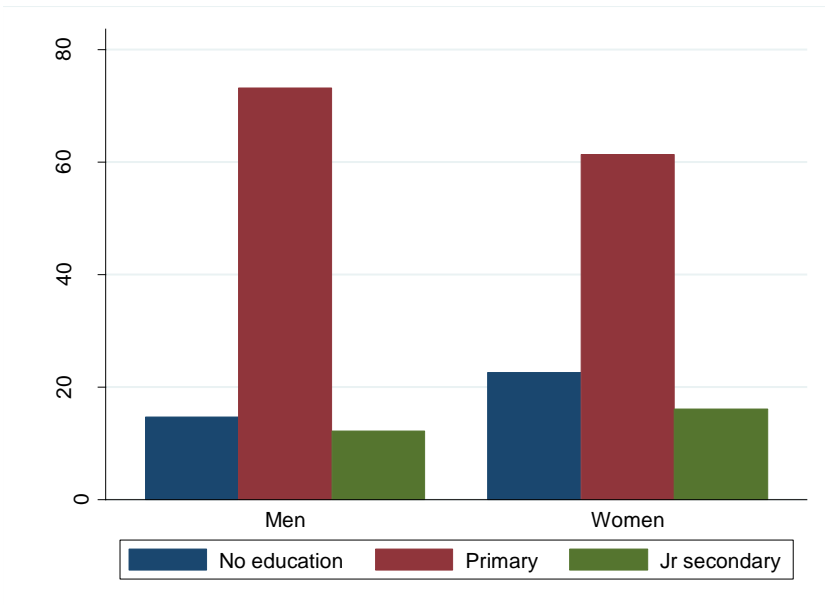


Figure 1: Education of household members across gender-age groups. Up left: 6-14 years old; up right: 15-24; bottom: 25+

B. DESCRIPTION OF PLOTS

ALL PLOTS

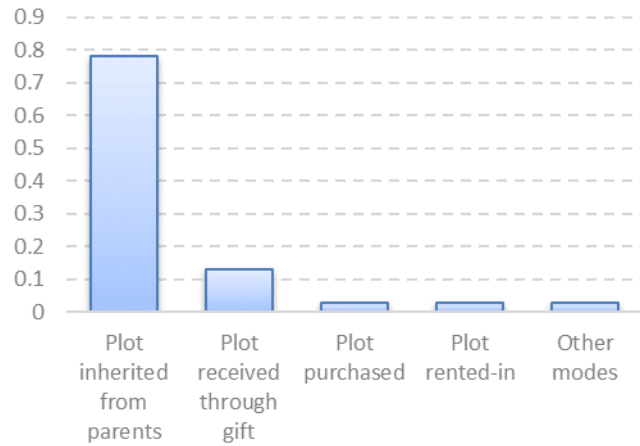


Figure 2. Mode of acquisition of land, all plots. N=67.

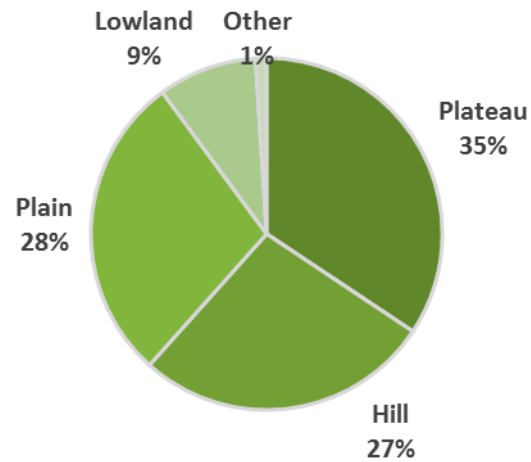


Figure 3. Localization of all plots, N=67.

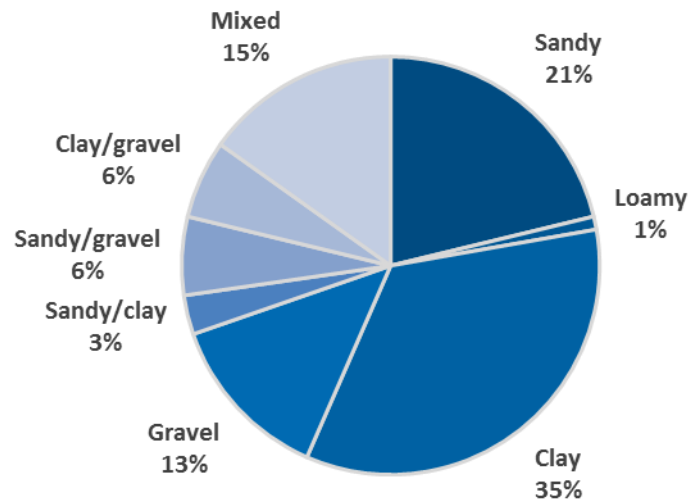


Figure 4. Type of soils, N=67.

Table 4: Characteristics of all plots

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Land tenure					
Mode of plot acquisition					
-Plot inherited from parents	67	0	0.78	0.42	1
-Plot received through gift	67	0	0.13	0.34	1
-Plot purchased	67	0	0.03	0.17	1
-Plot rented-in	67	0	0.03	0.17	1
-Other modes	67	0	0.03	0.17	1
Duration of tenure (years)	67	0	22.70	16.28	59
Panel B: Location and type of soil					
Location of the plot					
-Plateau	67	0	0.34	0.48	1
-Hill	67	0	0.27	0.45	1
-Plain	67	0	0.28	0.45	1
-Lowland	67	0	0.09	0.29	1
-Other	67	0	0.01	0.12	1
Type of soil					
-Sandy	67	0	0.21	0.41	1
-Loamy	67	0	0.01	0.12	1
-Clay	67	0	0.34	0.48	1
-Gravel	67	0	0.13	0.34	1
-Sandy/clay	67	0	0.03	0.17	1
-Sandy/gravel	67	0	0.06	0.24	1
-Clay/gravel	67	0	0.06	0.24	1
-Mixed	67	0	0.15	0.36	1
Panel C: Cultivation					
Plot cultivated ^a	67	0	0.96	0.21	1
Cocoa is grown on the plot (main crop or not)	67	0	0.60	0.49	1
Cocoa plot - cocoa is the main crop grown on the plot	67	0	0.57	0.50	1
Plot size (ha)	64	0.50	5.31	6.45	30
]0-1[ha	64	0.00	0.03	0.18	1
[1-2[ha	64	0.00	0.23	0.43	1

[2-5[ha	64	0.00	0.39	0.49	1
[5-10[ha	64	0.00	0.27	0.45	1
[10-30] ha	64	0.00	0.08	0.27	1
Plot size in Ahouanou village	36	1.50	6.45	6.96	30
Plot size in Ahougnanfoutou village	28	0.50	3.84	5.51	30

Panel D: Plot manager's characteristics

Male plot manager	64	1	1.00	0.00	1
Age of plot manager (years)	64	21	51.39	13.47	69
Relation to household head					
-Plot manager is household head	64	0	0.81	0.39	1
-Plot manager is son of household head	64	0	0.19	0.39	1
Education					
-Plot manager was not educated	64	0	0.19	0.39	1
-Plot manager received primary education	64	0	0.44	0.50	1
-Plot manager received jr secondary education	64	0	0.17	0.38	1
-Plot manager received sr secondary education	64	0	0.14	0.35	1
-Plot manager attained university	64	0	0.06	0.24	1

^a Sixty-four plots were cultivated; one plot (size of 6 ha) was rented out for 100 kg of cocoa; two plots newly inherited were not cultivated.

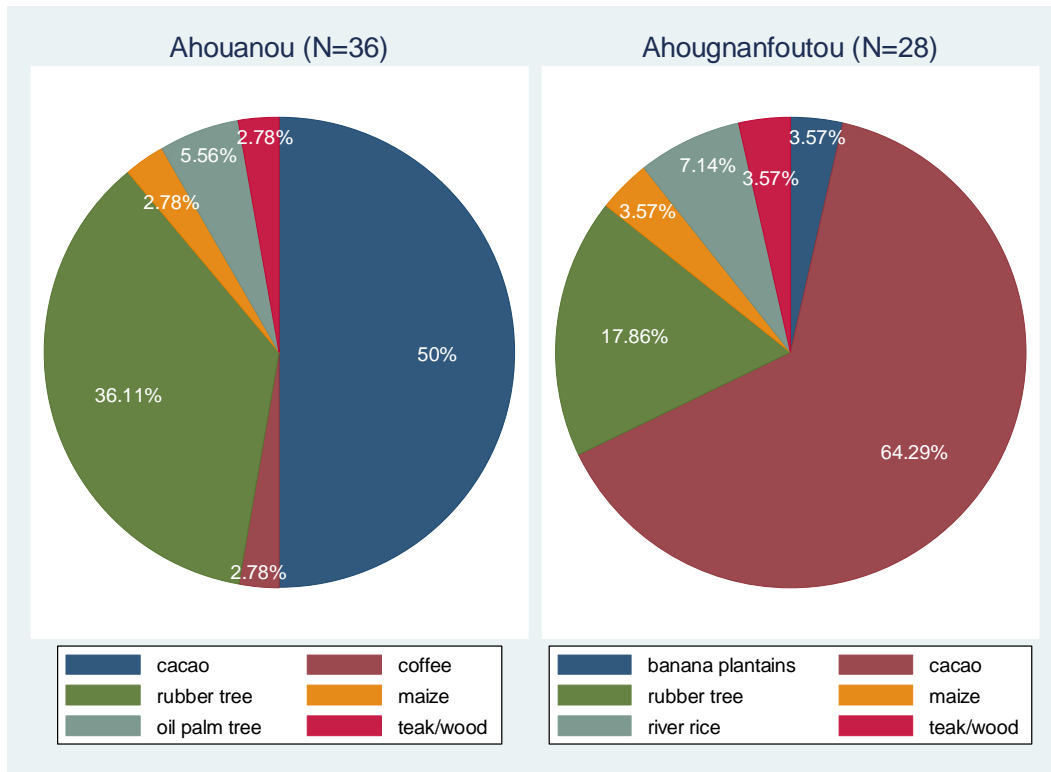


Figure 5: Main crop grown on cultivated plots by survey village

COCOA PLOTS

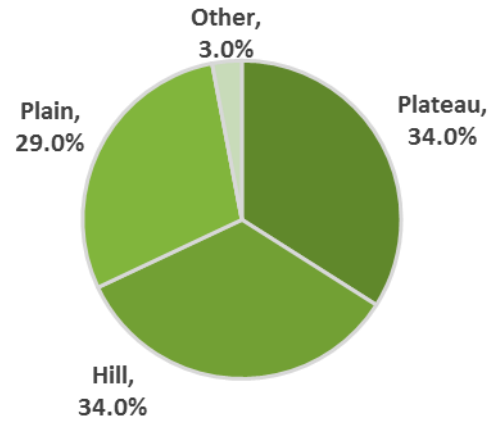
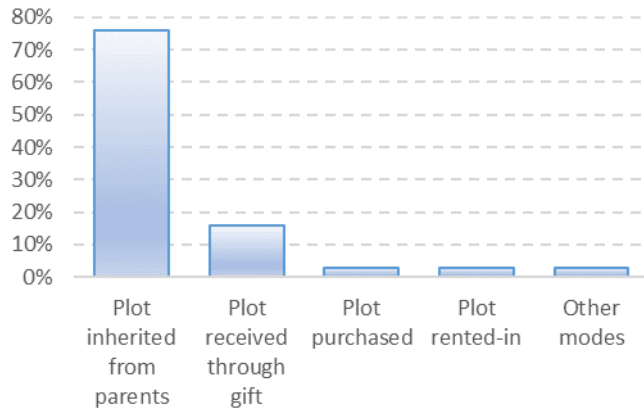


Figure 6. Mode of acquisition, cocoa fields, N=38.

Figure 7. Localization of cocoa plots, N=38.

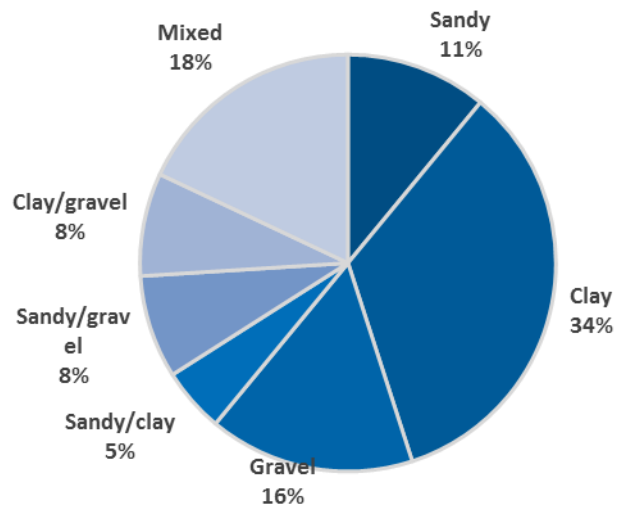


Figure 8. Type of soil, cocoa plots, N=38.

Table 5: Characteristics of cocoa plots

	Obs.	Min	Mean	S.d.	Max
Panel A: Land tenure					
Mode of plot acquisition					
-Plot inherited from parents	38	0	0.76	0.43	1
-Plot received through gift	38	0	0.16	0.37	1
-Plot purchased	38	0	0.03	0.16	1
-Plot rented-in	38	0	0.03	0.16	1
-Other modes	38	0	0.03	0.16	1
Duration of tenure (years)	38	0	22.03	15.53	59
Panel B: Location and type of soil					
Location of the plot					
-Plateau	38	0	0.34	0.48	1
-Hill	38	0	0.34	0.48	1
-Plain	38	0	0.29	0.46	1
-Lowland	38	0	0.00	0.00	0
-Other	38	0	0.03	0.16	1
Type of soil					
-Sandy	38	0	0.11	0.31	1
-Clay	38	0	0.34	0.48	1
-Gravel	38	0	0.16	0.37	1
-Sandy/clay	38	0	0.05	0.23	1
-Sandy/gravel	38	0	0.08	0.27	1
-Clay/gravel	38	0	0.08	0.27	1
-Mixed	38	0	0.18	0.39	1
Panel C: Cultivation					
Plot cultivated ^a	38	0	0.95	0.23	1
Plot size (ha)	36	1.00	6.13	7.01	30
]0-1[ha	36	0.00	0.00	0.00	0
[1-2[ha	36	0.00	0.11	0.32	1
[2-5[ha	36	0.00	0.53	0.51	1
[5-10[ha	36	0.00	0.25	0.44	1
[10-30] ha	36	0.00	0.11	0.32	1
Plot size in Ahouanou village	18	1.50	7.72	7.30	30
Plot size in Ahougnanfoutou village	18	1.00	4.53	6.51	30

Panel D: Plot manager's characteristics					
Male plot manager	36	1	1.00	0.00	1
Age of plot manager (years)	36	21	52.36	12.81	69
Relation to household head					
-Plot manager is household head	36	0	0.86	0.35	1
-Plot manager is son of household head	36	0	0.14	0.35	1
Education					
-Plot manager was not educated	36	0	0.22	0.42	1
-Plot manager received primary education	36	0	0.39	0.49	1
-Plot manager received jr secondary education	36	0	0.17	0.38	1
-Plot manager received sr secondary education	36	0	0.19	0.40	1
-Plot manager attained university	36	0	0.03	0.17	1

^a Two plots newly inherited were not cultivated.

C. ON-FARM LABOR

Table 6: Descriptive statistics of labor by farming activity - All cultivated plots

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Land preparation					
HH labor for land prep. (person-day/ha)	64	0.00	7.08	12.09	51.00
non-HH unpaid labor for land prep. (person-day/ha)	64	0.00	1.91	5.64	38.25
non-HH paid labor for land prep. (person-day/ha)	64	0.00	2.48	5.61	24.00
total labor for land prep. (person-day/ha)	64	0.00	11.48	12.61	51.00
Panel B: Planting					
HH labor for planting (person-day/ha)	64	0.00	8.60	11.35	51.00
non-HH unpaid labor for planting (person-day/ha)	64	0.00	0.81	3.86	25.71
non-HH paid labor for planting (person-day/ha)	64	0.00	0.34	2.43	19.40
total labor for planting (person-day/ha)	64	0.00	9.75	12.30	51.43
Panel C: Fertilizer application					
HH labor for fertilizers (person-day/ha)	64	0.00	0.06	0.30	2.00
non-HH unpaid labor for fertilizers (person-day/ha)	64	0.00	0.00	0.00	0.00
non-HH paid labor for fertilizers (person-day/ha)	64	0.00	0.00	0.00	0.00
total labor for fertilizers (person-day/ha)	64	0.00	0.06	0.30	2.00

Panel D: Manure application					
HH labor for manure (person-day/ha)	64	0.00	0.10	0.64	5.00
non-HH unpaid labor for manure (person-day/ha)	64	0.00	0.00	0.00	0.00
non-HH paid labor for manure (person-day/ha)	64	0.00	0.00	0.00	0.00
total labor for manure (person-day/ha)	64	0.00	0.10	0.64	5.00
Panel E: Pruning					
HH labor for pruning (person-day/ha)	64	0.00	0.94	1.89	10.00
non-HH unpaid labor for pruning (person-day/ha)	64	0.00	0.02	0.09	0.60
non-HH paid labor for pruning (person-day/ha)	64	0.00	0.03	0.16	1.00
total labor for pruning (person-day/ha)	64	0.00	0.99	1.88	10.00
Panel F: Herbicide application					
HH labor for herb. (person-day/ha)	64	0.00	0.56	2.54	19.58
non-HH unpaid labor for herb. (person-day/ha)	64	0.00	0.04	0.26	2.00
non-HH paid labor for herb. (person-day/ha)	64	0.00	0.09	0.25	1.50
total labor for herb. (person-day/ha)	64	0.00	0.69	2.55	19.58
Panel G: Harvesting					
HH labor for harvest (person-day/ha)	64	0.00	3.15	7.64	44.00
non-HH unpaid labor for harvest (person-day/ha)	64	0.00	0.46	1.66	12.00
non-HH paid labor for harvest (person-day/ha)	64	0.00	1.11	2.83	15.00
total labor for harvest (person-day/ha)	64	0.00	4.72	8.01	44.00
Panel H: Post-harvesting					
HH labor for post-harv. (person-day/ha)	64	0.00	0.57	1.45	9.60
non-HH unpaid labor for post-harv. (person-day/ha)	64	0.00	0.86	1.90	10.00
non-HH paid labor for post-harv. (person-day/ha)	64	0.00	0.38	2.08	14.40
total labor for post-harv. (person-day/ha)	64	0.00	1.81	3.16	14.40
Panel I: Threshing					
HH labor for threshing (person-day/ha)	64	0.00	0.47	1.92	15.00
non-HH unpaid labor for threshing (person-day/ha)	64	0.00	0.04	0.15	0.80
non-HH paid labor for threshing (person-day/ha)	64	0.00	0.14	0.91	7.20
total labor for threshing (person-day/ha)	64	0.00	0.64	2.09	15.00
Panel J: Transportation					
HH labor for transp. (person-day/ha)	64	0.00	1.13	4.77	35.00
non-HH unpaid labor for transp. (person-day/ha)	64	0.00	0.15	0.55	4.20
non-HH paid labor for transp. (person-day/ha)	64	0.00	0.38	1.90	15.00
total labor for transp. (person-day/ha)	64	0.00	1.66	5.06	35.00

Table 7: Descriptive statistics of labor by farming activity - Cocoa plots

	Obs.	Min	Mean	S.dev.	Max
Panel A: Land preparation					
HH labor for land prep. (person-day/ha)	36	0.00	6.29	10.50	51.00
non-HH unpaid labor for land prep. (person-day/ha)	36	0.00	1.42	3.48	17.00
non-HH paid labor for land prep. (person-day/ha)	36	0.00	2.08	4.30	17.00
total labor for land prep. (person-day/ha)	36	0.00	9.79	10.81	51.00
Panel B: Planting					
HH labor for planting (person-day/ha)	36	0.00	6.69	11.74	51.00
non-HH unpaid labor for planting (person-day/ha)	36	0.00	0.58	2.89	17.00
non-HH paid labor for planting (person-day/ha)	36	0.00	0.07	0.35	2.00
total labor for planting (person-day/ha)	36	0.00	7.35	11.73	51.00
Panel C: Fertilizer application					
HH labor for fertilizers (person-day/ha)	36	0.00	0.06	0.23	1.20
non-HH unpaid labor for fertilizers (person-day/ha)	36	0.00	0.00	0.00	0.00
non-HH paid labor for fertilizers (person-day/ha)	36	0.00	0.00	0.00	0.00
total labor for fertilizers (person-day/ha)	36	0.00	0.06	0.23	1.20
Panel D: Manure application					
HH labor for manure (person-day/ha)	36	0.00	0.17	0.84	5.00
non-HH unpaid labor for manure (person-day/ha)	36	0.00	0.00	0.00	0.00
non-HH paid labor for manure (person-day/ha)	36	0.00	0.00	0.00	0.00
total labor for manure (person-day/ha)	36	0.00	0.17	0.84	5.00
Panel E: Pruning					
HH labor for pruning (person-day/ha)	36	0.00	0.54	0.68	2.50
non-HH unpaid labor for pruning (person-day/ha)	36	0.00	0.03	0.12	0.60
non-HH paid labor for pruning (person-day/ha)	36	0.00	0.05	0.20	1.00
total labor for pruning (person-day/ha)	36	0.00	0.61	0.68	2.50
Panel F: Herbicide application					
HH labor for herb. (person-day/ha)	36	0.00	0.22	0.43	1.75
non-HH unpaid labor for herb. (person-day/ha)	36	0.00	0.01	0.04	0.25
non-HH paid labor for herb. (person-day/ha)	36	0.00	0.16	0.32	1.50
total labor for herb. (person-day/ha)	36	0.00	0.38	0.59	2.25
Panel G: Harvesting					

HH labor for harvest (person-day/ha)	36	0.00	2.46	4.07	21.75
non-HH unpaid labor for harvest (person-day/ha)	36	0.00	0.47	1.01	4.00
non-HH paid labor for harvest (person-day/ha)	36	0.00	0.49	1.40	6.80
total labor for harvest (person-day/ha)	36	0.00	3.42	3.90	21.75
Panel H: Post-harvesting					
HH labor for post-harv. (person-day/ha)	36	0.00	0.71	1.10	5.10
non-HH unpaid labor for post-harv. (person-day/ha)	36	0.00	1.25	1.85	6.27
non-HH paid labor for post-harv. (person-day/ha)	36	0.00	0.44	2.40	14.40
total labor for post-harv. (person-day/ha)	36	0.00	2.40	3.14	14.40
Panel I: Threshing					
HH labor for threshing (person-day/ha)	36	0.00	0.81	2.52	15.00
non-HH unpaid labor for threshing (person-day/ha)	36	0.00	0.07	0.20	0.80
non-HH paid labor for threshing (person-day/ha)	36	0.00	0.22	1.20	7.20
total labor for threshing (person-day/ha)	36	0.00	1.10	2.71	15.00
Panel J: Transportation					
HH labor for transp. (person-day/ha)	36	0.00	0.38	0.70	3.00
non-HH unpaid labor for transp. (person-day/ha)	36	0.00	0.11	0.21	1.00
non-HH paid labor for transp. (person-day/ha)	36	0.00	0.17	0.37	1.40
total labor for transp. (person-day/ha)	36	0.00	0.66	0.75	3.00

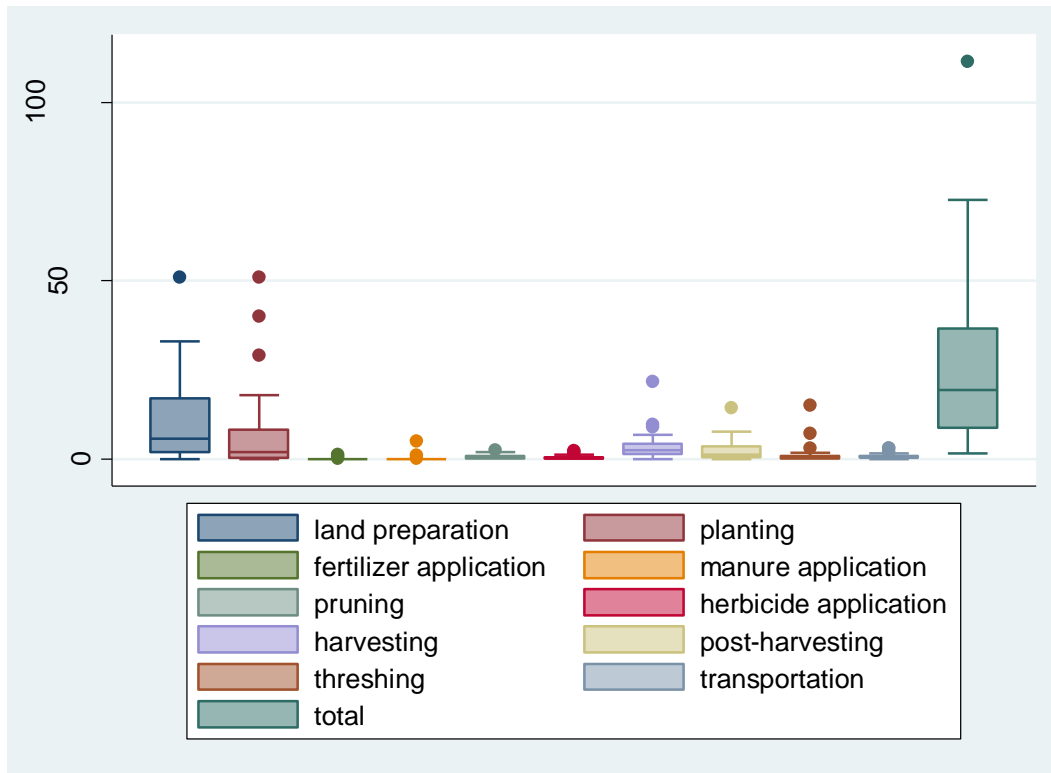


Figure 9: Farm labor on cocoa plots

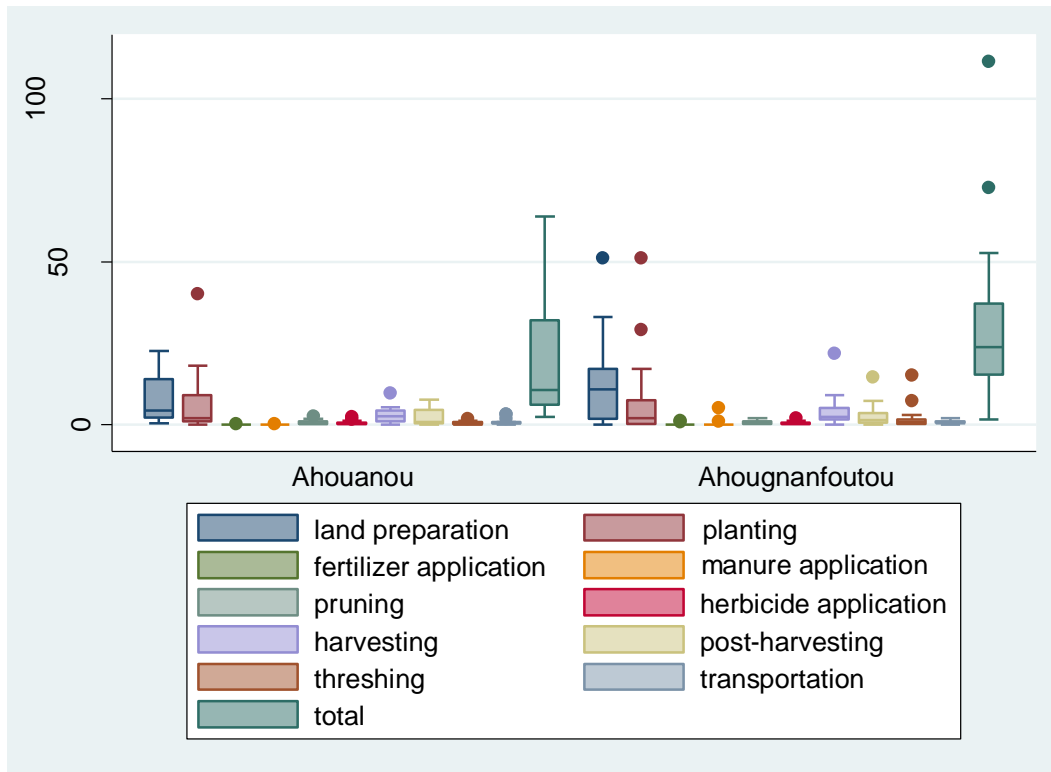


Figure 10: Farm labor on cocoa plots by survey village

Table 8: Descriptive statistics of labor by farming activity - Cocoa plots in Ahouanou village

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Land preparation					
HH labor for land prep. (person-day/ha)	18	0.00	5.17	6.96	20.00
non-HH unpaid labor for land prep. (person-day/ha)	18	0.00	1.49	2.88	11.25
non-HH paid labor for land prep. (person-day/ha)	18	0.00	0.78	1.83	6.67
total labor for land prep. (person-day/ha)	18	0.40	7.44	7.49	22.50
Panel B: Planting					
HH labor for planting (person-day/ha)	18	0.00	6.79	10.11	40.00
non-HH unpaid labor for planting (person-day/ha)	18	0.00	0.00	0.00	0.00
non-HH paid labor for planting (person-day/ha)	18	0.00	0.00	0.00	0.00
total labor for planting (person-day/ha)	18	0.00	6.79	10.11	40.00
Panel C: Fertilizer application					
HH labor for fertilizers (person-day/ha)	18	0.00	0.01	0.04	0.17
non-HH unpaid labor for fertilizers (person-day/ha)	18	0.00	0.00	0.00	0.00
non-HH paid labor for fertilizers (person-day/ha)	18	0.00	0.00	0.00	0.00
total labor for fertilizers (person-day/ha)	18	0.00	0.01	0.04	0.17
Panel D: Manure application					
HH labor for manure (person-day/ha)	18	0.00	0.01	0.03	0.11
non-HH unpaid labor for manure (person-day/ha)	18	0.00	0.00	0.00	0.00
non-HH paid labor for manure (person-day/ha)	18	0.00	0.00	0.00	0.00
total labor for manure (person-day/ha)	18	0.00	0.01	0.03	0.11
Panel E: Pruning					
HH labor for pruning (person-day/ha)	18	0.00	0.49	0.74	2.50
non-HH unpaid labor for pruning (person-day/ha)	18	0.00	0.06	0.17	0.60
non-HH paid labor for pruning (person-day/ha)	18	0.00	0.00	0.00	0.00
total labor for pruning (person-day/ha)	18	0.00	0.55	0.77	2.50
Panel F: Herbicide application					
HH labor for herb. (person-day/ha)	18	0.00	0.25	0.43	1.60
non-HH unpaid labor for herb. (person-day/ha)	18	0.00	0.01	0.06	0.25
non-HH paid labor for herb. (person-day/ha)	18	0.00	0.17	0.40	1.50
total labor for herb. (person-day/ha)	18	0.00	0.43	0.65	2.25
Panel G: Harvesting					

HH labor for harvest (person-day/ha)	18	0.00	1.60	2.50	9.63
non-HH unpaid labor for harvest (person-day/ha)	18	0.00	0.80	1.31	4.00
non-HH paid labor for harvest (person-day/ha)	18	0.00	0.47	1.13	3.50
total labor for harvest (person-day/ha)	18	0.00	2.87	2.42	9.63
Panel H: Post-harvesting					
HH labor for post-harv. (person-day/ha)	18	0.00	0.63	1.21	5.10
non-HH unpaid labor for post-harv. (person-day/ha)	18	0.00	1.60	2.12	6.27
non-HH paid labor for post-harv. (person-day/ha)	18	0.00	0.04	0.09	0.25
total labor for post-harv. (person-day/ha)	18	0.00	2.27	2.76	7.60
Panel I: Threshing					
HH labor for threshing (person-day/ha)	18	0.00	0.26	0.42	1.20
non-HH unpaid labor for threshing (person-day/ha)	18	0.00	0.08	0.23	0.80
non-HH paid labor for threshing (person-day/ha)	18	0.00	0.00	0.00	0.00
total labor for threshing (person-day/ha)	18	0.00	0.33	0.52	1.80
Panel J: Transportation					
HH labor for transp. (person-day/ha)	18	0.00	0.42	0.82	3.00
non-HH unpaid labor for transp. (person-day/ha)	18	0.00	0.11	0.18	0.50
non-HH paid labor for transp. (person-day/ha)	18	0.00	0.16	0.37	1.40
total labor for transp. (person-day/ha)	18	0.00	0.69	0.92	3.00

Table 9: Descriptive statistics of labor by farming activity - Cocoa plots in Ahougnanfoutou village

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Land preparation					
HH labor for land prep. (person-day/ha)	18	0.00	7.41	13.27	51.00
non-HH unpaid labor for land prep. (person-day/ha)	18	0.00	1.35	4.07	17.00
non-HH paid labor for land prep. (person-day/ha)	18	0.00	3.38	5.58	17.00
total labor for land prep. (person-day/ha)	18	0.00	12.13	13.15	51.00
Panel B: Planting					
HH labor for planting (person-day/ha)	18	0.00	6.59	13.47	51.00
non-HH unpaid labor for planting (person-day/ha)	18	0.00	1.17	4.06	17.00
non-HH paid labor for planting (person-day/ha)	18	0.00	0.14	0.48	2.00

total labor for planting (person-day/ha)	18	0.00	7.90	13.43	51.00
Panel C: Fertilizer application					
HH labor for fertilizers (person-day/ha)	18	0.00	0.10	0.32	1.20
non-HH unpaid labor for fertilizers (person-day/ha)	18	0.00	0.00	0.00	0.00
non-HH paid labor for fertilizers (person-day/ha)	18	0.00	0.00	0.00	0.00
total labor for fertilizers (person-day/ha)	18	0.00	0.10	0.32	1.20
Panel D: Manure application					
HH labor for manure (person-day/ha)	18	0.00	0.33	1.19	5.00
non-HH unpaid labor for manure (person-day/ha)	18	0.00	0.00	0.00	0.00
non-HH paid labor for manure (person-day/ha)	18	0.00	0.00	0.00	0.00
total labor for manure (person-day/ha)	18	0.00	0.33	1.19	5.00
Panel E: Pruning					
HH labor for pruning (person-day/ha)	18	0.00	0.59	0.63	2.00
non-HH unpaid labor for pruning (person-day/ha)	18	0.00	0.00	0.00	0.00
non-HH paid labor for pruning (person-day/ha)	18	0.00	0.09	0.28	1.00
total labor for pruning (person-day/ha)	18	0.00	0.68	0.59	2.00
Panel F: Herbicide application					
HH labor for herb. (person-day/ha)	18	0.00	0.18	0.44	1.75
non-HH unpaid labor for herb. (person-day/ha)	18	0.00	0.00	0.00	0.00
non-HH paid labor for herb. (person-day/ha)	18	0.00	0.16	0.23	0.80
total labor for herb. (person-day/ha)	18	0.00	0.34	0.53	2.00
Panel G: Harvesting					
HH labor for harvest (person-day/ha)	18	0.00	3.31	5.13	21.75
non-HH unpaid labor for harvest (person-day/ha)	18	0.00	0.14	0.41	1.67
non-HH paid labor for harvest (person-day/ha)	18	0.00	0.51	1.67	6.80
total labor for harvest (person-day/ha)	18	0.00	3.96	4.99	21.75
Panel H: Post-harvesting					
HH labor for post-harv. (person-day/ha)	18	0.00	0.80	1.02	3.87
non-HH unpaid labor for post-harv. (person-day/ha)	18	0.00	0.90	1.50	5.00
non-HH paid labor for post-harv. (person-day/ha)	18	0.00	0.83	3.39	14.40
total labor for post-harv. (person-day/ha)	18	0.00	2.53	3.56	14.40
Panel I: Threshing					
HH labor for threshing (person-day/ha)	18	0.00	1.37	3.49	15.00
non-HH unpaid labor for threshing (person-day/ha)	18	0.00	0.06	0.18	0.70

non-HH paid labor for threshing (person-day/ha)	18	0.00	0.43	1.69	7.20
total labor for threshing (person-day/ha)	18	0.00	1.86	3.70	15.00
Panel J: Transportation					
HH labor for transp. (person-day/ha)	18	0.00	0.33	0.58	2.00
non-HH unpaid labor for transp. (person-day/ha)	18	0.00	0.12	0.25	1.00
non-HH paid labor for transp. (person-day/ha)	18	0.00	0.18	0.38	1.20
total labor for transp. (person-day/ha)	18	0.00	0.63	0.54	2.00

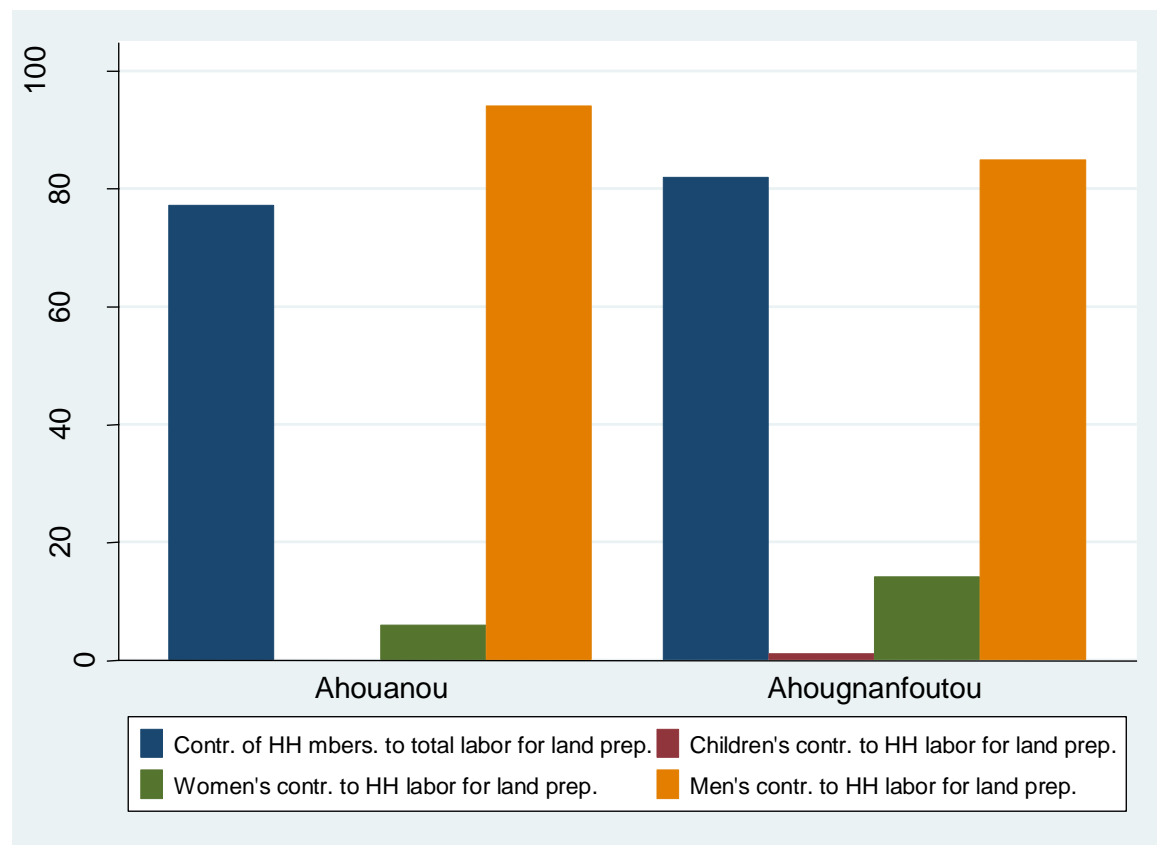


Figure 11: Contributions of HH members to labor for land preparation on cocoa plots by survey village

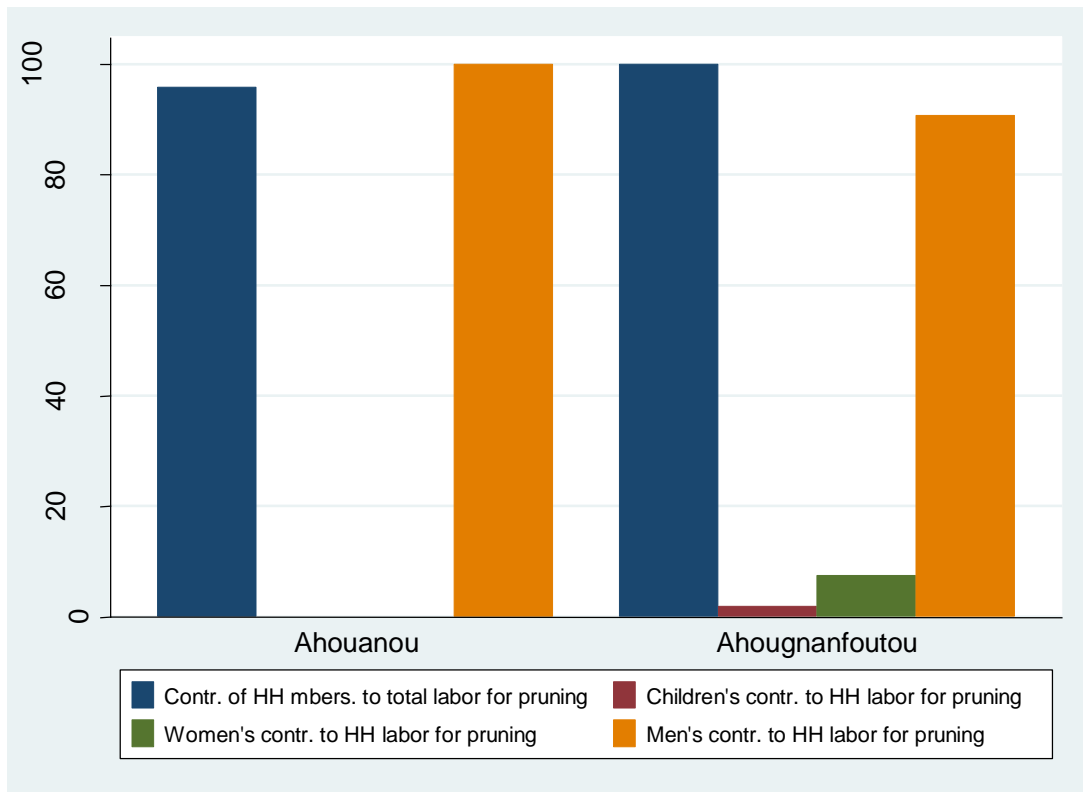


Figure 12: Contributions of HH members to labor for pruning on cocoa plots by survey village

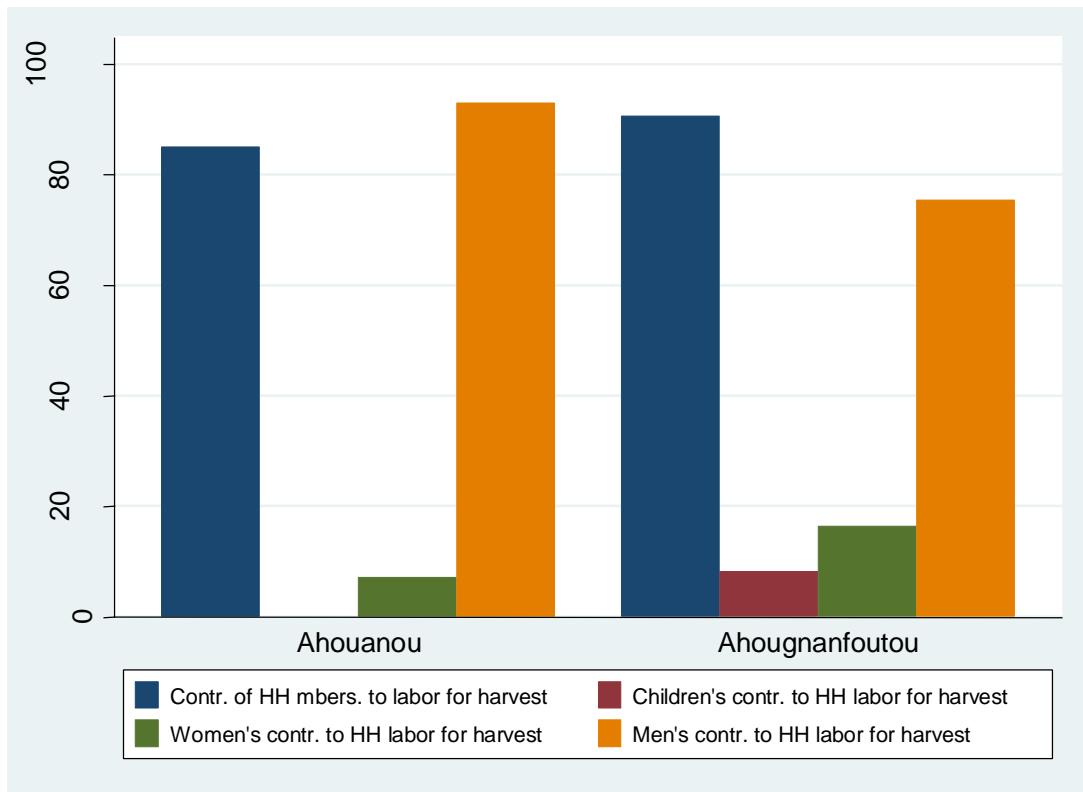


Figure 13: Contributions of HH members to labor for harvesting on cocoa plots by survey village

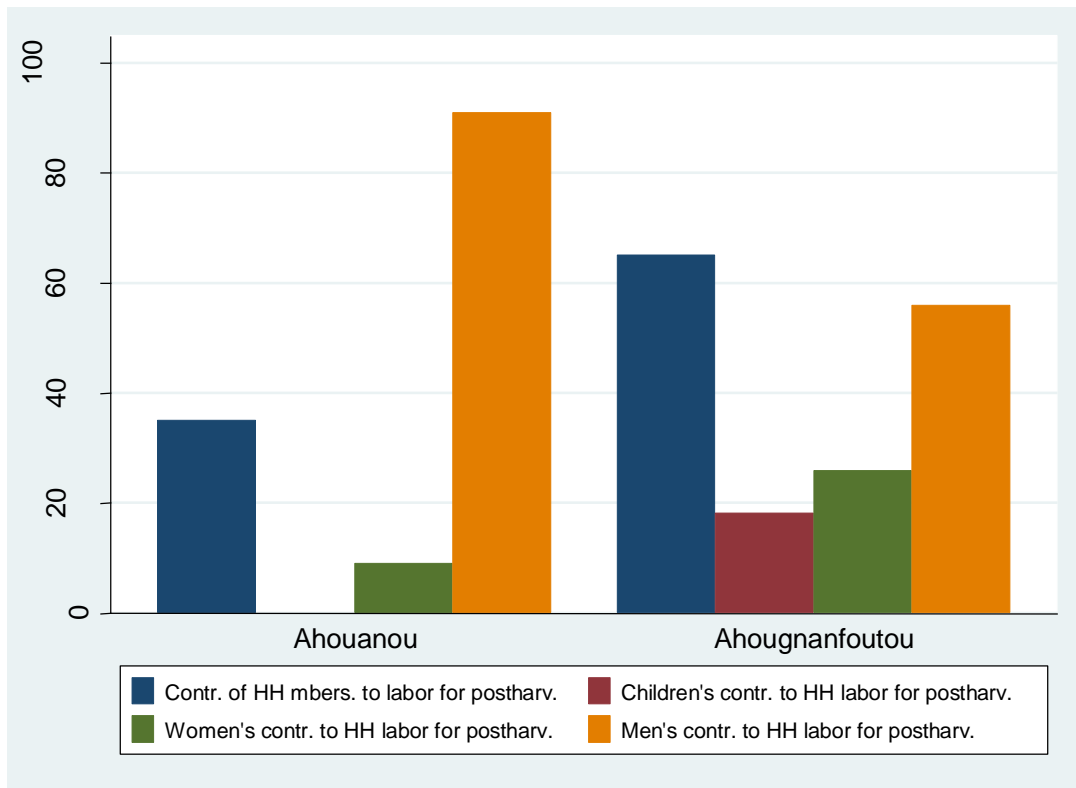


Figure 14: Contributions of HH members to labor for post-harvesting on cocoa plots by survey village

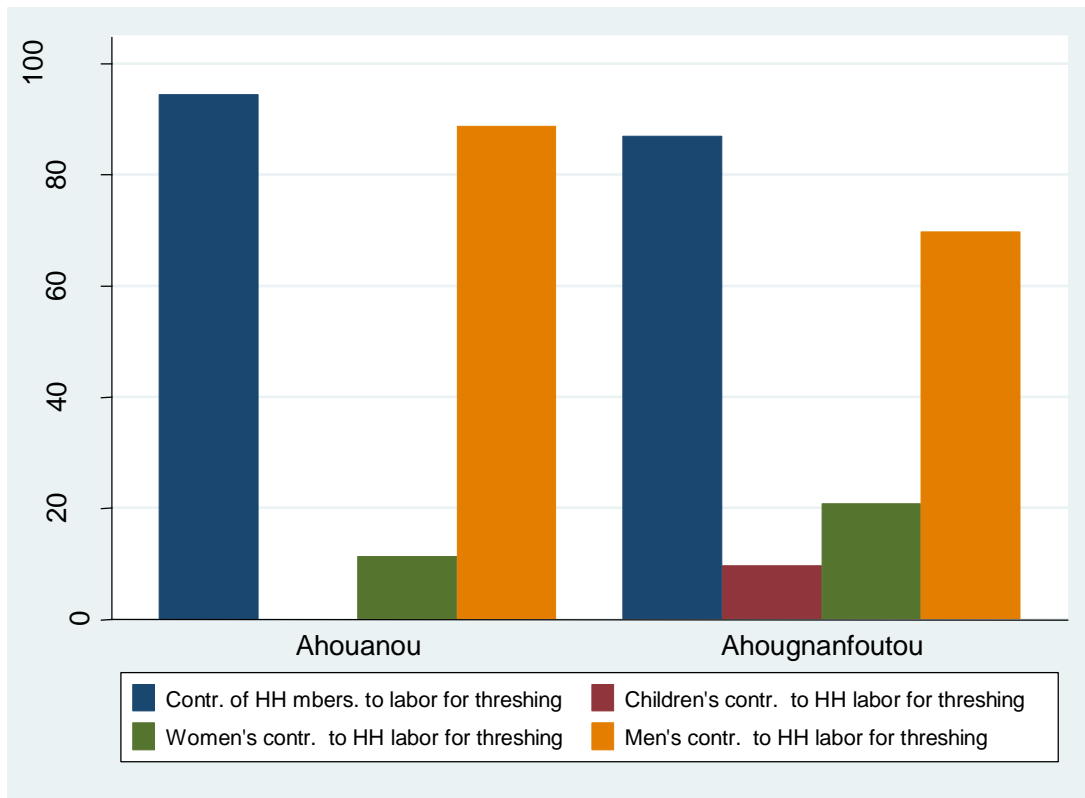


Figure 15: Contributions of HH members to labor for threshing on cocoa plots by survey village

Table 10: Contributions of household members to farm labor - All cultivated plots

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Land preparation					
HH contr. to total labor for land prep. (%)	37	7.69	78.05	33.26	100.00
Children contr. to HH labor for land prep. (%)	37	0.00	1.49	7.60	45.45
Women's contr. to HH labor for land prep. (%)	37	0.00	9.56	16.90	58.33
Men's contr. to HH labor for land prep. (%)	37	22.73	88.94	19.95	100.00
Panel B: Planting					
HH contr. to total labor for planting (%)	50	25.93	95.84	13.90	100.00
Children contr. to HH labor for planting (%)	50	0.00	0.57	4.00	28.30
Women's contr. to HH labor for planting (%)	50	0.00	14.88	25.91	100.00
Men's contr. to HH labor for planting (%)	50	0.00	84.56	27.04	100.00
Panel C: Fertilizer application					
HH contr. to total labor for fertilizers (%)	4	100.00	100.00	0.00	100.00
Children contr. to HH labor for fertilizers (%)	4	0.00	0.00	0.00	0.00
Women's contr. to HH labor for fertilizers (%)	4	0.00	0.00	0.00	0.00
Men's contr. to HH labor for fertilizers (%)	4	100.00	100.00	0.00	100.00
Panel D: Manure application					
HH contr. to total labor for manure (%)	3	100.00	100.00	0.00	100.00
Children contr. to HH labor for manure (%)	3	0.00	0.00	0.00	0.00
Women's contr. to HH labor for manure (%)	3	0.00	0.00	0.00	0.00
Men's contr. to HH labor for manure (%)	3	100.00	100.00	0.00	100.00
Panel E: Pruning					
HH contr. to total labor for pruning (%)	32	50.00	97.40	10.46	100.00
Children contr. to HH labor for pruning (%)	32	0.00	0.63	3.54	20.00
Women's contr. to HH labor for pruning (%)	32	0.00	2.57	10.13	41.18
Men's contr. to HH labor for pruning (%)	32	58.82	96.80	10.57	100.00
Panel F: Herbicide application					
HH contr. to total labor for herb. (%)	16	33.33	85.68	25.00	100.00
Children contr. to HH labor for herb. (%)	16	0.00	0.00	0.00	0.00
Women's contr. to HH labor for herb. (%)	16	0.00	0.00	0.00	0.00
Men's contr. to HH labor for herb. (%)	16	100.00	100.00	0.00	100.00
Panel G: Harvesting					

HH contr. to total labor for harvest (%)	33	34.88	88.08	20.96	100.00
Children contr. to HH labor for harvest (%)	33	0.00	5.09	14.29	50.00
Women's contr. to HH labor for harvest (%)	33	0.00	13.92	21.82	63.64
Men's contr. to HH labor for harvest (%)	33	22.73	80.98	25.73	100.00
Panel H: Post-harvesting					
HH contr. to total labor for post-harv. (%)	26	6.99	52.88	41.35	100.00
Children contr. to HH labor for post-harv. (%)	26	0.00	8.38	16.72	50.00
Women's contr. to HH labor for post-harv. (%)	26	0.00	21.85	27.51	100.00
Men's contr. to HH labor for post-harv. (%)	26	0.00	69.77	32.99	100.00
Panel I: Threshing					
HH contr. to total labor for threshing (%)	17	19.54	90.37	23.06	100.00
Children contr. to HH labor for threshing (%)	17	0.00	5.61	15.87	50.00
Women's contr. to HH labor for threshing (%)	17	0.00	16.19	28.77	93.33
Men's contr. to HH labor for threshing (%)	17	6.67	78.19	32.67	100.00
Panel J: Transportation					
HH contr. to total labor for transp. (%)	21	21.25	83.31	28.47	100.00
Children contr. to HH labor for transp. (%)	21	0.00	0.33	1.49	6.85
Women's contr. to HH labor for transp. (%)	21	0.00	22.41	31.83	100.00
Men's contr. to HH labor for transp. (%)	21	0.00	77.26	32.04	100.00

Note: All contributions are conditional on HH labor spent on the farming activity.

Table 11: Contributions of household members to farm labor - Cocoa plots

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Land preparation					
HH contr. to total labor for land prep. (%)	22	11.11	79.16	29.30	100.00
Children contr. to HH labor for land prep. (%)	22	0.00	0.45	2.09	9.80
Women's contr. to HH labor for land prep. (%)	22	0.00	9.26	17.03	58.33
Men's contr. to HH labor for land prep. (%)	22	41.67	90.29	17.09	100.00
Panel B: Planting					
HH contr. to total labor for planting (%)	25	25.93	95.79	15.83	100.00
Children contr. to HH labor for planting (%)	25	0.00	0.00	0.00	0.00

Women's contr. to HH labor for planting (%)	25	0.00	17.20	26.45	100.00
Men's contr. to HH labor for planting (%)	25	0.00	82.80	26.45	100.00
Panel C: Fertilizer application					
HH contr. to total labor for fertilizers (%)	3	100.00	100.00	0.00	100.00
Children contr. to HH labor for fertilizers (%)	3	0.00	0.00	0.00	0.00
Women's contr. to HH labor for fertilizers (%)	3	0.00	0.00	0.00	0.00
Men's contr. to HH labor for fertilizers (%)	3	100.00	100.00	0.00	100.00
Panel D: Manure application					
HH contr. to total labor for manure (%)	3	100.00	100.00	0.00	100.00
Children contr. to HH labor for manure (%)	3	0.00	0.00	0.00	0.00
Women's contr. to HH labor for manure (%)	3	0.00	0.00	0.00	0.00
Men's contr. to HH labor for manure (%)	3	100.00	100.00	0.00	100.00
Panel E: Pruning					
HH contr. to total labor for pruning (%)	19	66.67	98.25	7.65	100.00
Children contr. to HH labor for pruning (%)	19	0.00	1.05	4.59	20.00
Women's contr. to HH labor for pruning (%)	19	0.00	4.33	12.98	41.18
Men's contr. to HH labor for pruning (%)	19	58.82	94.61	13.42	100.00
Panel F: Herbicide application					
HH contr. to total labor for herb. (%)	12	33.33	80.90	27.44	100.00
Children contr. to HH labor for herb. (%)	12	0.00	0.00	0.00	0.00
Women's contr. to HH labor for herb. (%)	12	0.00	0.00	0.00	0.00
Men's contr. to HH labor for herb. (%)	12	100.00	100.00	0.00	100.00
Panel G: Harvesting					
HH contr. to total labor for harvest (%)	24	34.88	88.48	21.37	100.00
Children contr. to HH labor for harvest (%)	24	0.00	5.11	14.29	50.00
Women's contr. to HH labor for harvest (%)	24	0.00	12.89	20.47	63.64
Men's contr. to HH labor for harvest (%)	24	36.36	82.00	23.19	100.00
Panel H: Post-harvesting					
HH contr. to total labor for post-harv. (%)	23	6.99	50.68	40.61	100.00
Children contr. to HH labor for post-harv. (%)	23	0.00	9.47	17.52	50.00
Women's contr. to HH labor for post-harv. (%)	23	0.00	17.82	21.98	58.33
Men's contr. to HH labor for post-harv. (%)	23	22.73	72.71	30.47	100.00
Panel I: Threshing					
HH contr. to total labor for threshing (%)	16	19.54	89.76	23.68	100.00

Children contr. to HH labor for threshing (%)	16	0.00	5.97	16.32	50.00
Women's contr. to HH labor for threshing (%)	16	0.00	17.20	29.40	93.33
Men's contr. to HH labor for threshing (%)	16	6.67	76.83	33.24	100.00

Panel J: Transportation

HH contr. to total labor for transp. (%)	16	21.25	82.79	27.92	100.00
Children contr. to HH labor for transp. (%)	16	0.00	0.00	0.00	0.00
Women's contr. to HH labor for transp. (%)	16	0.00	13.37	25.14	77.78
Men's contr. to HH labor for transp. (%)	16	22.22	86.63	25.14	100.00

Note: All contributions are conditional on HH labor spent on the farming activity.

Table 12: Labor costs and wages by farming activity - All cultivated plots

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Labor costs					
Per hectare labor cost for land preparation (FCFA/ha)	18	1071.43	11732.18	9783.55	35000.00
Per hectare labor cost for planting (FCFA/ha)	3	1000.00	12666.67	15307.95	30000.00
Per hectare labor cost for fertilizer application (FCFA/ha)	0				
Per hectare labor cost for manure application (FCFA/ha)	0				
Per hectare labor cost for pruning (FCFA/ha)	3	1000.00	3277.78	2250.51	5500.00
Per hectare labor cost for herbicide application (FCFA/ha)	11	555.56	2453.32	1872.58	6000.00
Per hectare labor cost for harvesting (FCFA/ha)	15	587.47	20026.47	30330.93	120000.00
Per hectare labor cost for post-harvesting (FCFA/ha)	7	1833.33	16516.44	16889.63	43750.00
Per hectare labor cost for threshing (FCFA/ha)	2	600.00	1216.67	872.10	1833.33
Per hectare labor cost for transportation (FCFA/ha)	15	0.00	46821.54	105635.18	380952.28
Panel B: Labor wages					
Labor wage for land preparation (FCFA/person-day)	18	357.14	2523.62	2424.33	7500.00
Labor wage for planting (FCFA/person-day)	3	1546.39	2237.69	1094.85	3500.00
Labor wage for fertilizer application (FCFA/person-day)	0				
Labor wage for manure application (FCFA/person-day)	0				
Labor wage for pruning (FCFA/person-day)	3	2666.67	4388.89	1512.30	5500.00
Labor wage for pruning (FCFA/person-day) - trimmed	3	2666.67	3074.07	352.83	3277.78
Labor wage for herbicide application (FCFA/person-day)	11	2500.00	4689.39	1796.64	7500.00
Labor wage for herbicide application (FCFA/person-day) - trimmed	11	2453.32	2453.32	0.00	2453.32
Labor wage for harvesting (FCFA/person-day)	15	600.00	8588.11	14697.27	50000.00
Labor wage for harvesting (FCFA/person-day) - trimmed	15	600.00	5424.97	6463.54	20026.47

Labor wage for post-harvesting (FCFA/person-day)	7	600.00	84881.23	76949.30	175000.00
Labor wage for post-harvesting (FCFA/person-day) - trimmed	7	600.00	12345.36	7163.99	16516.44
Labor wage for threshing (FCFA/person-day)	2	571.43	1903.36	1883.64	3235.29
Labor wage for threshing (FCFA/person-day) - trimmed	2	571.43	894.05	456.25	1216.67
Labor wage for transportation (FCFA/person-day)	15	0.00	150786.72	350969.88	1333333.00
Labor wage for transportation (FCFA/person-day) - trimmed	15	0.00	24214.57	22058.70	46821.54

Note: All amounts are based on the actual expenses for labor. Amounts are missing for fertilizer and manure applications.

Table 13: Labor costs and wages by farming activity - Cocoa plots

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Labor costs					
Per hectare labor cost for land preparation (FCFA/ha)	11	1071.43	9987.01	9856.52	35000.00
Per hectare labor cost for planting (FCFA/ha)	2	1000.00	4000.00	4242.64	7000.00
Per hectare labor cost for fertilizer application (FCFA/ha)	0				
Per hectare labor cost for manure application (FCFA/ha)	0				
Per hectare labor cost for pruning (FCFA/ha)	2	3333.33	4416.67	1532.06	5500.00
Per hectare labor cost for herbicide application (FCFA/ha)	11	555.56	2453.32	1872.58	6000.00
Per hectare labor cost for harvesting (FCFA/ha)	6	4800.00	27777.78	45283.02	120000.00
Per hectare labor cost for post-harvesting (FCFA/ha)	5	1833.33	21427.78	17942.96	43750.00
Per hectare labor cost for threshing (FCFA/ha)	1	1833.33	1833.33		1833.33
Per hectare labor cost for transportation (FCFA/ha)	9	400.00	74452.11	131774.31	380952.28
Panel B: Labor wages					
Labor wage for land preparation (FCFA/person-day)	11	357.14	2670.47	2555.45	7500.00
Labor wage for planting (FCFA/person-day)	2	1666.67	2583.33	1296.36	3500.00
Labor wage for fertilizer application (FCFA/person-day)	0				
Labor wage for manure application (FCFA/person-day)	0				
Labor wage for pruning (FCFA/person-day)	2	5000.00	5250.00	353.55	5500.00
Labor wage for pruning (FCFA/person-day) - trimmed	2	3277.78	3277.78	0.00	3277.78
Labor wage for herbicide application (FCFA/person-day)	11	2500.00	4689.39	1796.64	7500.00
Labor wage for herbicide application (FCFA/person-day) - trimmed	11	2453.32	2453.32	0.00	2453.32
Labor wage for harvesting (FCFA/person-day)	6	1428.57	17012.14	21296.27	50000.00
Labor wage for harvesting (FCFA/person-day) - trimmed	6	1428.57	9104.29	8974.10	20026.47
Labor wage for post-harvesting (FCFA/person-day)	5	3235.29	112047.06	74291.23	175000.00
Labor wage for post-harvesting (FCFA/person-day) - trimmed	5	3235.29	13860.21	5939.51	16516.44

Labor wage for threshing (FCFA/person-day)	1	3235.29	3235.29		3235.29
Labor wage for threshing (FCFA/person-day) - trimmed	1	1216.67	1216.67		1216.67
Labor wage for transportation (FCFA/person-day)	9	1714.29	231694.02	443382.50	1333333.00
Labor wage for transportation (FCFA/person-day) - trimmed	9	1714.29	24022.15	21831.71	46821.54

Note: All amounts are based on the actual expenses for labor. Amounts are missing for fertilizer and manure applications.

D. NON-DOMESTIC LABOR

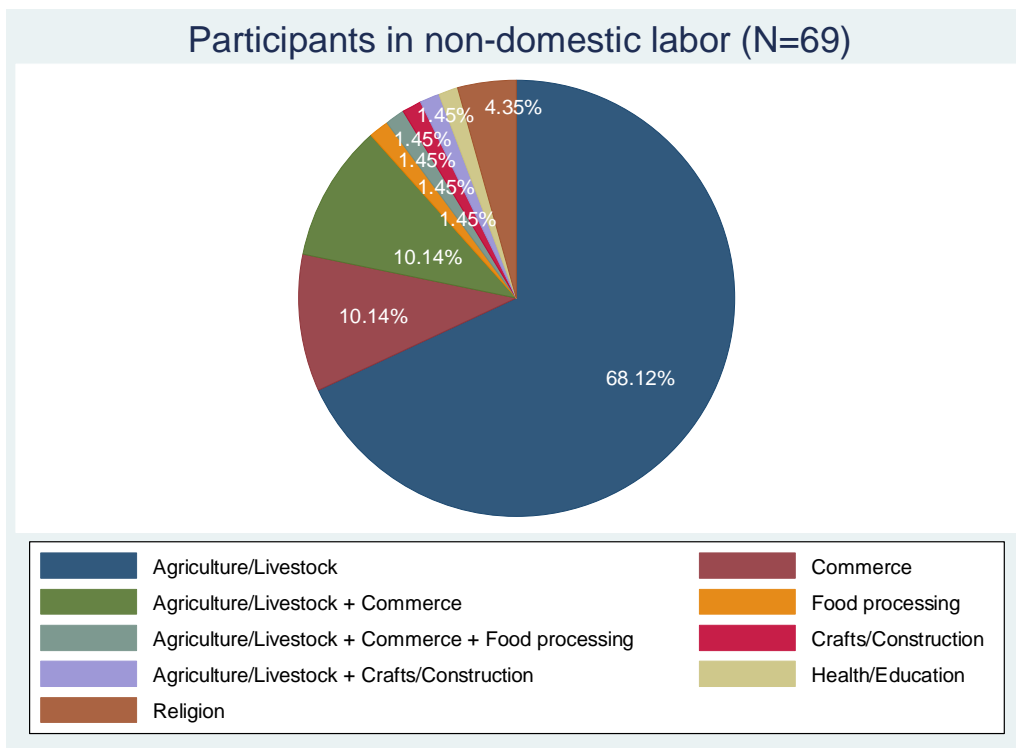


Figure 16: Distribution of participants in non-domestic work by activity

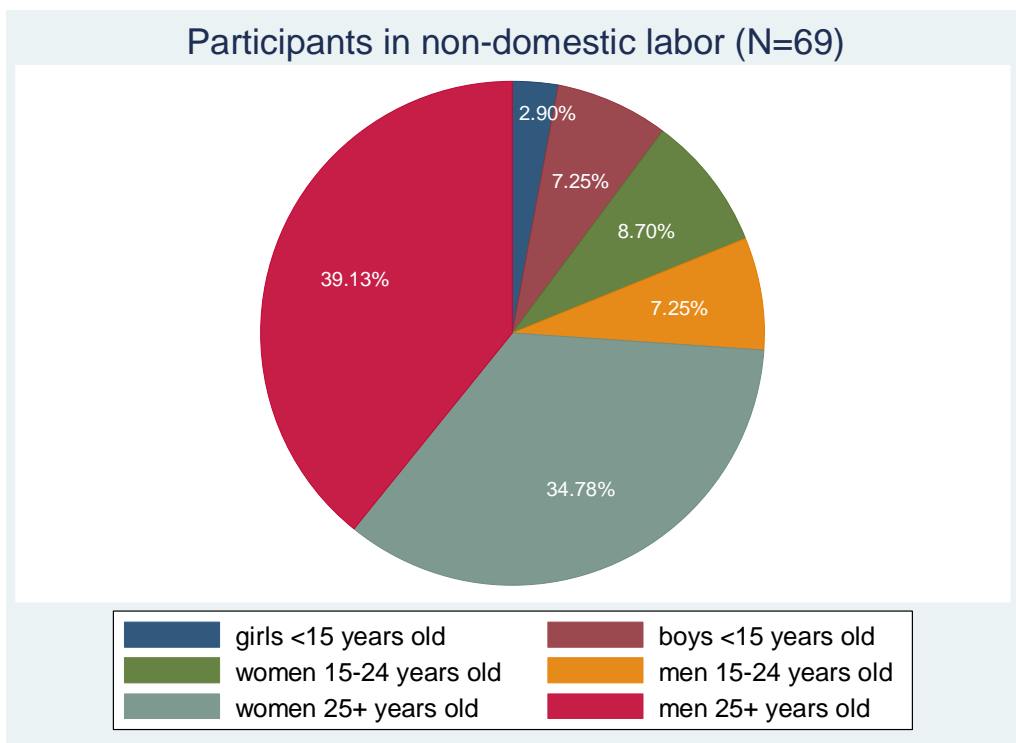


Figure 17: Distribution of participants in non-domestic work by gender-age groups

Table 14: Worker-level descriptive statistics of participants in non-domestic work

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Number of person-days of non-domestic work (person-days)					
Total number of days of non-domestic work (person-days)	69	0.50	140.24	83.81	324.00
Number of person-days of non-domestic work (person-days) by gender-age category:					
girls <15 years old	2	4.00	50.00	65.05	96.00
boys <15 years old	5	36.00	122.40	118.31	324.00
women 15-64 years old	29	22.50	135.91	76.07	294.00
men 15-64 years old	28	0.50	163.26	83.53	264.00
women 65+ years old	1	155.14	155.14		155.14
men 65+ years old	4	12.00	74.19	73.08	180.00
women 15-24 years old (young women adults)	6	22.50	77.75	48.19	150.00
men 15-24 years old (young men adults)	5	15.00	133.80	85.95	240.00
women 25+ years old (other women adults and seniors)	24	35.00	151.25	73.67	294.00
men 25+ years old (other men adults and seniors)	27	0.50	155.52	87.85	264.00
Number of person-days of non-domestic work (person-days) by activity:					
Agriculture/Livestock	47	4.00	145.30	75.47	264.00
Commerce	7	24.00	124.49	98.73	270.00
Agriculture/Livestock + Commerce	7	12.00	158.57	108.71	294.00
Food processing	1	144.00	144.00		144.00
Agriculture/Livestock + Food processing + Commerce	1	150.00	150.00		150.00
Crafts/Construction	1	324.00	324.00		324.00
Agriculture/Livestock + Crafts/Construction	1	0.50	0.50		0.50
Health/Education	1	22.50	22.50		22.50
Religion	3	54.00	75.00	21.00	96.00
Panel B: Annual revenue from non-domestic work					
Annual revenue from non-domestic work (FCFA)	40	6000.00	263371.10	338432.39	1440000.00
Annual revenue from non-domestic work (FCFA) by gender-age category:					
girls <15 years old	0				
boys <15 years old	0				
women 15-64 years old	13	6000.00	82538.46	108959.94	360000.00

men 15-64 years old	25	12000.00	347193.76	392156.09	1440000.00
women 65+ years old	0				
men 65+ years old	2	380000.00	391000.00	15556.35	402000.00
women 15-24 years old (young women adults)	1	12000.00	12000.00	.	12000.00
men 15-24 years old (young men adults)	4	15000.00	146250.00	224036.27	480000.00
women 25+ years old (other women adults and seniors)	12	6000.00	88416.67	111631.26	360000.00
men 25+ years old (other men adults and seniors)	23	12000.00	385949.74	390123.33	1440000.00
Annual revenue from non-domestic work (FCFA) by activity:					
Agriculture/Livestock	25	6000.00	365993.76	386469.25	1440000.00
Commerce	7	12000.00	98857.14	129545.91	360000.00
Agriculture/Livestock + Commerce	4	6000.00	114000.00	133356.66	300000.00
Food processing	1	180000.00	180000.00		180000.00
Agriculture/Livestock + Food processing + Commerce	1	15000.00	15000.00		15000.00
Crafts/Construction	0				
Agriculture/Livestock + Crafts/Construction	1	12000.00	12000.00		12000.00
Health/Education	0				
Religion	1	30000.00	30000.00		30000.00

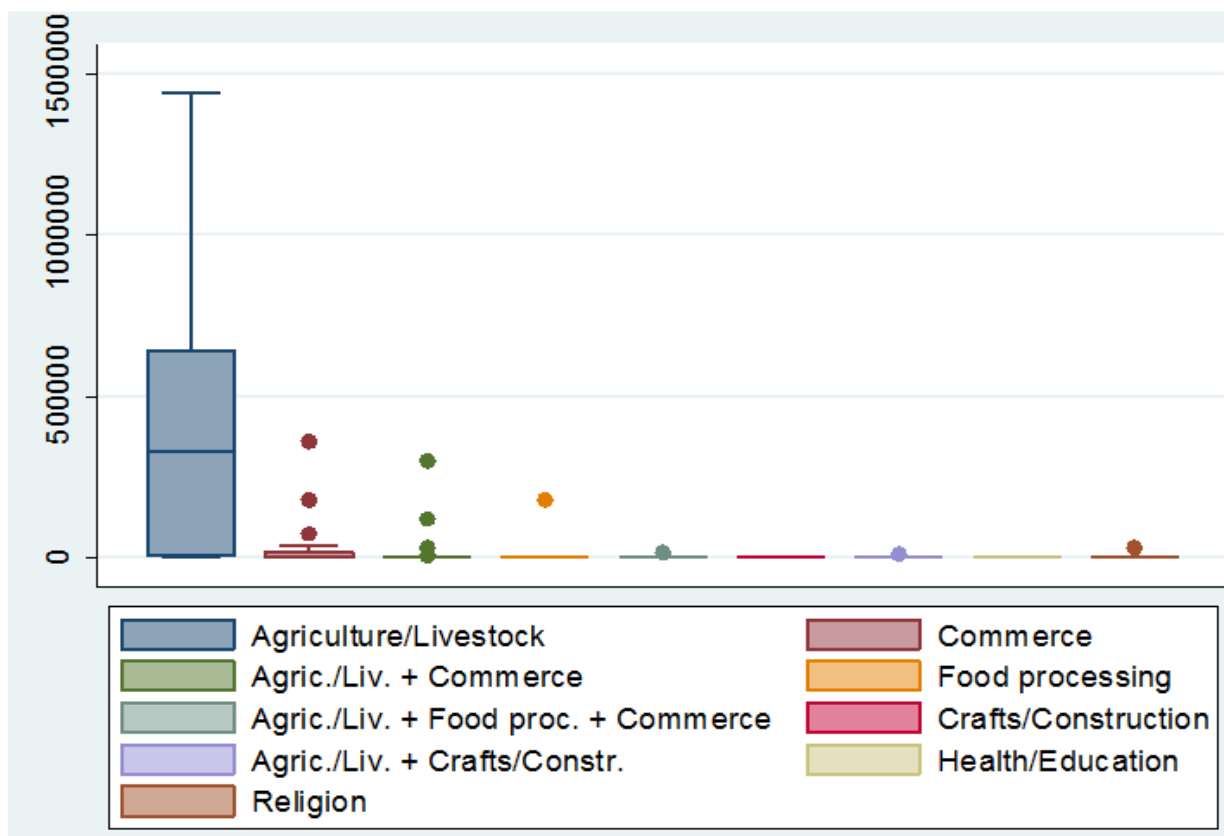


Figure 18. Distribution of household annual revenues (F CFA), by sector of activity. N=21.

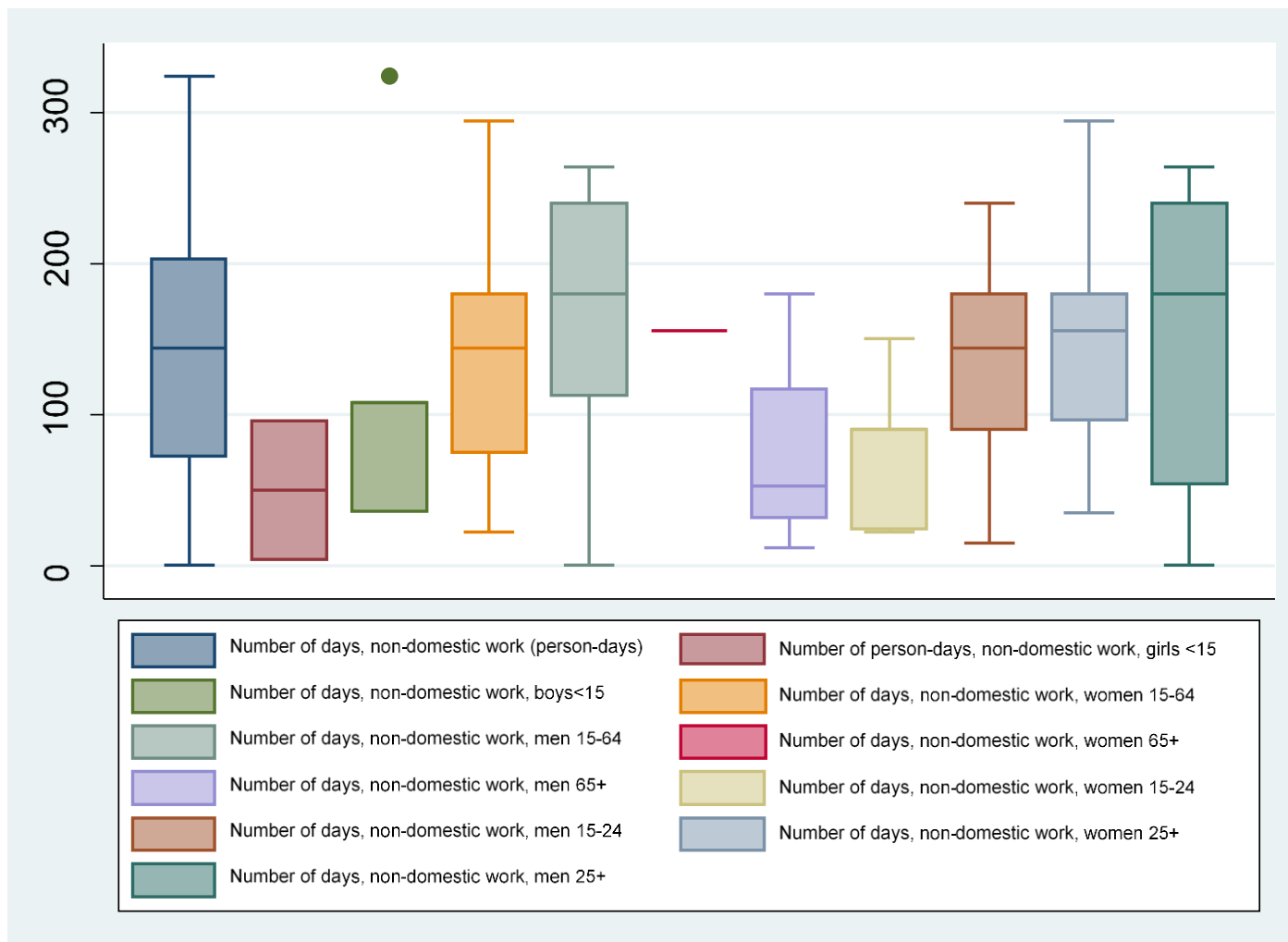


Figure 19. Distribution of number of person-days of non-domestic labor (on a yearly basis), by age-gender groups. The graph underlines a certain degree of variability in the distribution of data.

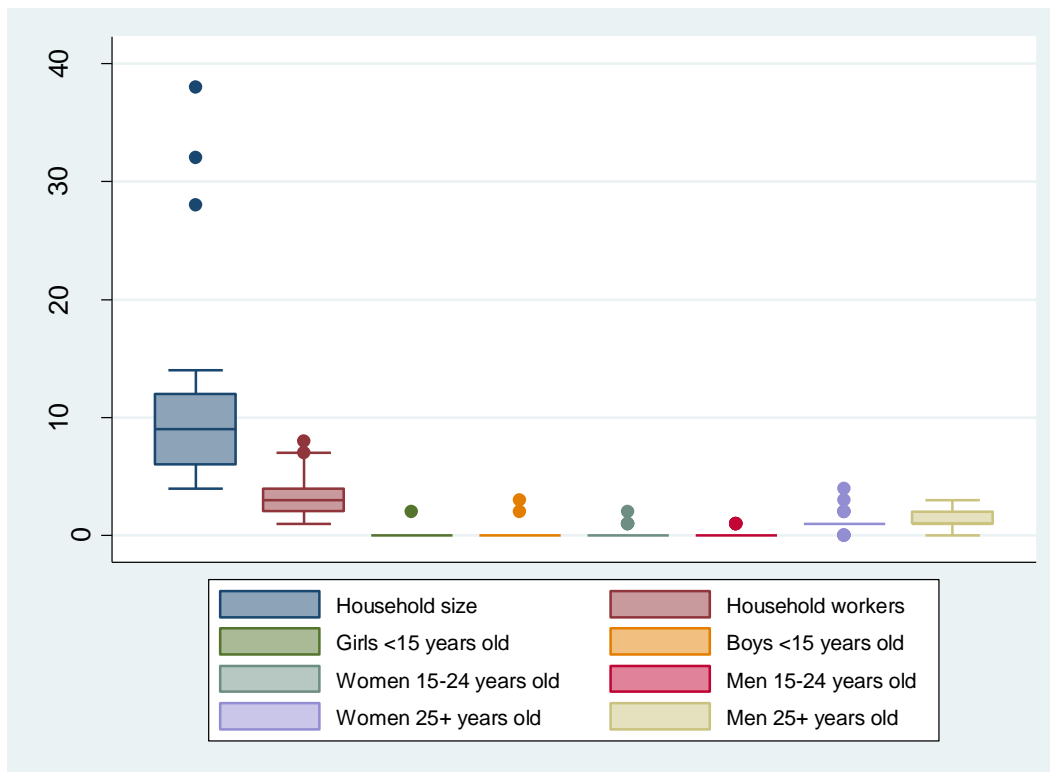


Figure 20: Household participation in non-domestic labor by gender-age groups

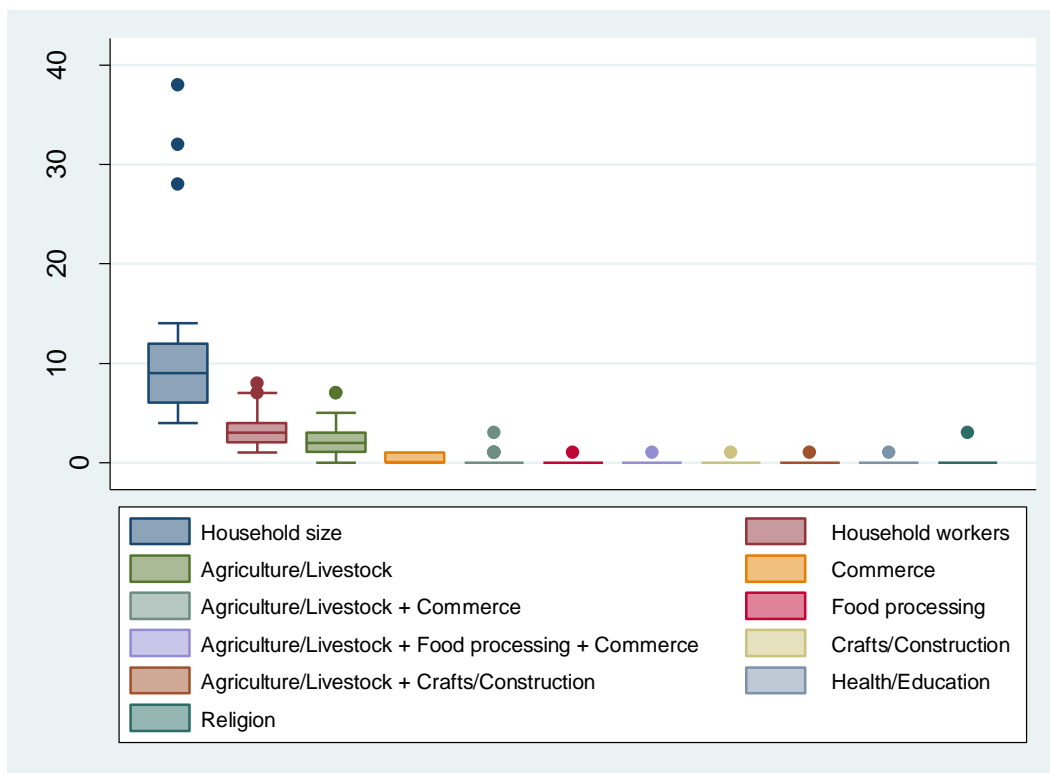


Figure 21: Household participation in non-domestic labor by activity

Table 15: Household-level descriptive statistics of participants in non-domestic work

	Obs.	Min	Mean	Std. dev.	Max
Household size	21	4.00	12.05	9.21	38.00
Number of HH workers	21	1.00	3.29	2.03	8.00
Panel A: Number of HH workers by status					
Number of HH workers by gender-age category:					
girls <15 years old	21	0.00	0.10	0.44	2.00
boys <15 years old	21	0.00	0.24	0.77	3.00
women 15-64 years old	21	0.00	1.38	1.02	3.00
men 15-64 years old	21	0.00	1.33	0.66	2.00
women 65+ years old	21	0.00	0.05	0.22	1.00
men 65+ years old	21	0.00	0.19	0.40	1.00
women 15-24 years old (young women adults)	21	0.00	0.29	0.56	2.00
men 15-24 years old (young men adults)	21	0.00	0.24	0.44	1.00
women 25+ years old (other women adults and seniors)	21	0.00	1.14	1.01	4.00
men 25+ years old (other men adults and seniors)	21	0.00	1.29	0.64	3.00
Number of HH workers by activity:					
Agriculture/Livestock	21	0.00	2.24	2.07	7.00
Commerce	21	0.00	0.33	0.48	1.00
Agriculture/Livestock + Commerce	21	0.00	0.33	0.73	3.00
Food processing	21	0.00	0.05	0.22	1.00
Agriculture/Livestock + Food processing + Commerce	21	0.00	0.05	0.22	1.00
Crafts/Construction	21	0.00	0.05	0.22	1.00
Agriculture/Livestock + Crafts/Construction	21	0.00	0.05	0.22	1.00
Health/Education	21	0.00	0.05	0.22	1.00
Religion	21	0.00	0.14	0.65	3.00
Panel B: Number of person-days of non-domestic work (person-days)					
Total number of days of non-domestic work (person-days)	21	42.00	460.80	355.46	1332.00
Number of person-days of non-domestic work (person-days) by gender-age category:					
girls <15 years old	21	0.00	4.76	21.82	100.00
boys <15 years old	21	0.00	29.14	118.10	540.00

women 15-64 years old	21	0.00	187.69	163.76	438.00
men 15-64 years old	21	0.00	217.69	161.92	528.00
women 65+ years old	21	0.00	7.39	33.85	155.14
men 65+ years old	21	0.00	14.13	41.14	180.00
women 15-24 years old (young women adults)	21	0.00	22.21	51.83	180.00
men 15-24 years old (young men adults)	21	0.00	31.86	69.91	240.00
women 25+ years old (other women adults and seniors)	21	0.00	172.86	160.92	587.14
men 25+ years old (other women adults and seniors)	21	0.00	199.96	156.81	554.75

Number of person-days of non-domestic work (person-days) by activity:

Agriculture/Livestock	21	0.00	325.21	337.80	1141.89
Commerce	21	0.00	41.50	80.87	270.00
Agriculture/Livestock + Commerce	21	0.00	52.86	141.56	582.00
Food processing	21	0.00	6.86	31.42	144.00
Agriculture/Livestock + Food processing + Commerce	21	0.00	7.14	32.73	150.00
Crafts/Construction	21	0.00	15.43	70.70	324.00
Agriculture/Livestock + Crafts/Construction	21	0.00	0.02	0.11	0.50
Health/Education	21	0.00	1.07	4.91	22.50
Religion	21	0.00	10.71	49.10	225.00

Panel C: Annual revenue from non-domestic work

Annual revenue from non-domestic work (FCFA)	21	0.00	501659.24	451204.24	1440000.00
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Annual revenue from non-domestic work (FCFA) by gender-age category:

girls <15 years old	21	0.00	0.00	0.00	0.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	51095.24	96827.12	360000.00
men 15-64 years old	21	0.00	413325.90	462148.08	1440000.00
women 65+ years old	21	0.00	0.00	0.00	0.00
men 65+ years old	21	0.00	37238.10	117661.34	402000.00
women 15-24 years old (young women adults)	21	0.00	571.43	2618.61	12000.00
men 15-24 years old (young men adults)	21	0.00	27857.14	104841.92	480000.00
women 25+ years old (other women adults and seniors)	21	0.00	50523.81	96974.54	360000.00
men 25+ years old (other men adults and seniors)	21	0.00	422706.86	429871.00	1440000.00

Annual revenue from non-domestic work (FCFA) by activity:

Agriculture/Livestock	21	0.00	435706.86	452892.62	1440000.00
Commerce	21	0.00	32952.38	85527.47	360000.00
Agriculture/Livestock + Commerce	21	0.00	21714.29	69077.60	300000.00
Food processing	21	0.00	8571.43	39279.22	180000.00
Agriculture/Livestock + Food processing + Commerce	21	0.00	714.29	3273.27	15000.00
Crafts/Construction	21	0.00	0.00	0.00	0.00
Agriculture/Livestock + Crafts/Construction	21	0.00	571.43	2618.61	12000.00
Health/Education	21	0.00	0.00	0.00	0.00
Religion	21	0.00	1428.57	6546.54	30000.00

E. DOMESTIC LABOR

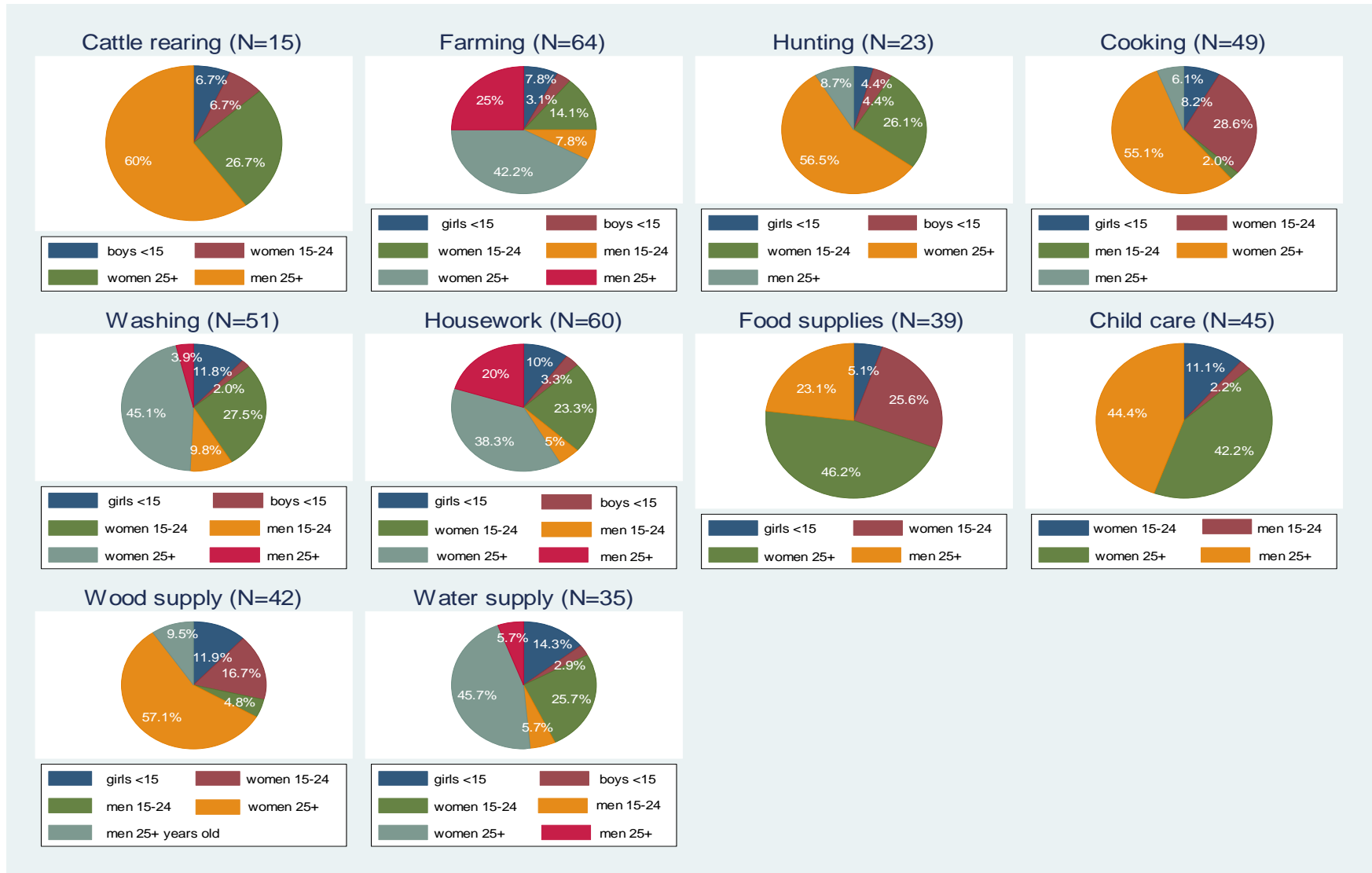


Figure 22. Distribution of household members by domestic activities and gender-age groups

Table 16: Worker-level descriptive statistics of household members engaged in domestic activities

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Cattle rearing					
<i>Number of days spent in the last 7 days</i>					
All	15	0.00	3.73	3.61	7.00
girls <15 years old	0	.	.	.	.
boys <15 years old	1	7.00	7.00	.	7.00
women 15-64 years old	5	0.00	1.40	3.13	7.00
men 15-64 years old	9	0.00	4.67	3.50	7.00
women 65+ years old	0	.	.	.	.
men 65+ years old	0	.	.	.	.
women 15-24 years old	1	0.00	0.00	.	0.00
men 15-24 years old	0	.	.	.	.
women 25+ years old	4	0.00	1.75	3.50	7.00
men 25+ years old	9	0.00	4.67	3.50	7.00
<i>Time (minutes) spent in the last 7 days</i>					
All	8	14.00	386.75	310.62	840.00
girls <15 years old	0	.	.	.	.
boys <15 years old	1	140.00	140.00	.	140.00
women 15-64 years old	1	840.00	840.00	.	840.00
men 15-64 years old	6	14.00	352.33	283.54	840.00
women 65+ years old	0	.	.	.	.
men 65+ years old	0	.	.	.	.
women 15-24 years old	0	.	.	.	.
men 15-24 years old	0	.	.	.	.
women 25+ years old	1	840.00	840.00	.	840.00
men 25+ years old	6	14.00	352.33	283.54	840.00
Panel B: Farming					
<i>Number of days spent in the last 7 days</i>					
All	62	0.00	2.95	2.43	7.00
girls <15 years old	5	0.00	3.20	1.92	5.00
boys <15 years old	2	5.00	6.00	1.41	7.00
women 15-64 years old	34	0.00	2.91	2.53	7.00
men 15-64 years old	19	0.00	2.95	2.32	6.00
women 65+ years old	2	0.00	0.00	0.00	0.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	9	0.00	2.00	2.29	6.00
men 15-24 years old	4	0.00	2.75	2.06	5.00
women 25+ years old	27	0.00	3.00	2.62	7.00
men 25+ years old	15	0.00	3.00	2.45	6.00
<i>Time (minutes) spent in the last 7 days</i>					
All	45	120.00	1426.67	859.73	4320.00
girls <15 years old	4	960.00	1350.00	452.99	1800.00
boys <15 years old	2	2400.00	2460.00	84.85	2520.00

women 15-64 years old	23	120.00	1244.35	715.95	2940.00
men 15-64 years old	16	120.00	1578.75	1074.81	4320.00
women 65+ years old	0	.	.	.	.
men 65+ years old	0	.	.	.	.
women 15-24 years old	5	180.00	1176.00	725.73	2160.00
men 15-24 years old	4	900.00	1725.00	890.45	2940.00
women 25+ years old	18	120.00	1263.33	733.25	2940.00
men 25+ years old	12	120.00	1530.00	1161.33	4320.00

Panel C: Hunting

Number of days spent in the last 7 days

All	23	0.00	1.87	2.40	7.00
girls <15 years old	1	3.00	3.00	.	3.00
boys <15 years old	1	7.00	7.00	.	7.00
women 15-64 years old	18	0.00	1.44	1.92	6.00
men 15-64 years old	2	0.00	3.50	4.95	7.00
women 65+ years old	1	0.00	0.00	.	0.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	6	0.00	1.17	2.40	6.00
men 15-24 years old	0	.	.	.	.
women 25+ years old	13	0.00	1.46	1.71	6.00
men 25+ years old	2	0.00	3.50	4.95	7.00

Time (minutes) spent in the last 7 days

All	13	10.00	143.08	124.01	360.00
girls <15 years old	1	180.00	180.00	.	180.00
boys <15 years old	1	105.00	105.00	.	105.00
women 15-64 years old	10	10.00	154.00	136.97	360.00
men 15-64 years old	1	35.00	35.00	.	35.00
women 65+ years old	0	.	.	.	.
men 65+ years old	0	.	.	.	.
women 15-24 years old	2	10.00	185.00	247.49	360.00
men 15-24 years old	0	.	.	.	.
women 25+ years old	8	30.00	146.25	122.58	360.00
men 25+ years old	1	35.00	35.00	.	35.00

Panel D: Cooking

Number of days spent in the last 7 days

All	49	0.00	4.49	3.04	7.00
girls <15 years old	4	0.00	3.50	3.11	7.00
boys <15 years old	0	.	.	.	.
women 15-64 years old	39	0.00	4.79	3.02	7.00
men 15-64 years old	4	0.00	3.00	2.94	7.00
women 65+ years old	2	0.00	3.50	4.95	7.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	14	0.00	4.07	3.02	7.00
men 15-24 years old	1	7.00	7.00	.	7.00

women 25+ years old	27	0.00	5.07	3.08	7.00
men 25+ years old	3	0.00	1.67	1.53	3.00

Time (minutes) spent in the last 7 days

All	38	180.00	1174.16	1364.77	8400.00
girls <15 years old	3	240.00	1040.00	733.21	1680.00
boys <15 years old	0	.	.	.	.
women 15-64 years old	31	180.00	1040.58	647.86	2700.00
men 15-64 years old	3	180.00	280.00	124.90	420.00
women 65+ years old	1	8400.00	8400.00	.	8400.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	11	360.00	845.45	502.32	1680.00
men 15-24 years old	1	420.00	420.00	.	420.00
women 25+ years old	21	180.00	1493.24	1724.93	8400.00
men 25+ years old	2	180.00	210.00	42.43	240.00

Panel E: Washing

Number of days spent in the last 7 days

All	50	0.00	2.24	2.28	7.00
girls <15 years old	6	0.00	1.00	0.89	2.00
boys <15 years old	1	2.00	2.00	.	2.00
women 15-64 years old	36	0.00	2.69	2.52	7.00
men 15-64 years old	6	0.00	0.83	0.41	1.00
women 65+ years old	1	2.00	2.00	.	2.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	14	0.00	3.14	3.03	7.00
men 15-24 years old	4	0.00	0.75	0.50	1.00
women 25+ years old	23	0.00	2.39	2.10	7.00
men 25+ years old	2	1.00	1.00	0.00	1.00

Time (minutes) spent in the last 7 days

All	44	2.00	197.55	286.39	1680.00
girls <15 years old	4	30.00	82.50	45.00	120.00
boys <15 years old	1	60.00	60.00	.	60.00
women 15-64 years old	32	2.00	235.06	326.99	1680.00
men 15-64 years old	6	30.00	110.00	86.26	270.00
women 65+ years old	1	120.00	120.00	.	120.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	12	4.00	339.50	478.98	1680.00
men 15-24 years old	4	30.00	135.00	99.50	270.00
women 25+ years old	21	2.00	169.90	170.91	600.00
men 25+ years old	2	60.00	60.00	0.00	60.00

Panel F: Housework

Number of days spent in the last 7 days

All	60	0.00	3.62	2.86	7.00
girls <15 years old	6	0.00	4.00	2.68	7.00
boys <15 years old	2	1.00	4.00	4.24	7.00

women 15-64 years old	36	0.00	4.14	2.79	7.00
men 15-64 years old	15	0.00	2.00	2.67	7.00
women 65+ years old	1	6.00	6.00	.	6.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	14	0.00	3.29	2.40	7.00
men 15-24 years old	3	7.00	7.00	0.00	7.00
women 25+ years old	23	0.00	4.74	2.88	7.00
men 25+ years old	12	0.00	0.75	0.75	2.00

Time (minutes) spent in the last 7 days

All	48	10.00	90.27	114.24	630.00
girls <15 years old	5	30.00	86.00	83.25	230.00
boys <15 years old	2	15.00	37.50	31.82	60.00
women 15-64 years old	30	10.00	90.77	125.52	630.00
men 15-64 years old	10	10.00	107.50	113.27	360.00
women 65+ years old	1	30.00	30.00	.	30.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	12	10.00	29.00	22.30	75.00
men 15-24 years old	3	30.00	68.33	62.12	140.00
women 25+ years old	19	20.00	126.58	146.24	630.00
men 25+ years old	7	10.00	124.29	129.85	360.00

Panel G: Food supplies

Number of days spent in the last 7 days

All	39	0.00	1.33	2.16	7.00
girls <15 years old	2	0.00	0.00	0.00	0.00
boys <15 years old	0	.	.	.	.
women 15-64 years old	27	0.00	1.26	1.95	7.00
men 15-64 years old	9	0.00	1.22	2.28	7.00
women 65+ years old	1	7.00	7.00	.	7.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	10	0.00	1.60	2.37	7.00
men 15-24 years old	0	.	.	.	.
women 25+ years old	18	0.00	1.39	2.17	7.00
men 25+ years old	9	0.00	1.22	2.28	7.00

Time (minutes) spent in the last 7 days

All	20	10.00	104.25	80.89	240.00
girls <15 years old	0	.	.	.	.
boys <15 years old	0	.	.	.	.
women 15-64 years old	15	15.00	102.67	71.14	240.00
men 15-64 years old	4	10.00	127.50	124.47	240.00
women 65+ years old	1	35.00	35.00	.	35.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	5	35.00	149.00	95.81	240.00
men 15-24 years old	0	.	.	.	.
women 25+ years old	11	15.00	75.45	44.52	150.00

men 25+ years old	4	10.00	127.50	124.47	240.00
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Panel H: Child care

Number of days spent in the last 7 days

All	45	0.00	1.42	2.15	7.00
girls <15 years old	0	.	.	.	.
boys <15 years old	0	.	.	.	.
women 15-64 years old	23	0.00	1.48	2.15	7.00
men 15-64 years old	19	0.00	1.21	1.90	7.00
women 65+ years old	1	7.00	7.00	.	7.00
men 65+ years old	2	0.00	0.00	0.00	0.00
women 15-24 years old	5	0.00	3.40	3.36	7.00
men 15-24 years old	1	0.00	0.00	.	0.00
women 25+ years old	19	0.00	1.26	1.94	7.00
men 25+ years old	20	0.00	1.15	1.87	7.00

Time (minutes) spent in the last 7 days

All	19	5.00	92.89	113.44	420.00
girls <15 years old	0	.	.	.	.
boys <15 years old	0	.	.	.	.
women 15-64 years old	11	15.00	61.82	49.11	180.00
men 15-64 years old	7	5.00	95.00	122.37	360.00
women 65+ years old	1	420.00	420.00	.	420.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	4	20.00	46.25	22.87	70.00
men 15-24 years old	0	.	.	.	.
women 25+ years old	8	15.00	114.38	135.10	420.00
men 25+ years old	7	5.00	95.00	122.37	360.00

Panel I: Wood supply

Number of days spent in the last 7 days

All	42	0.00	2.26	2.46	7.00
girls <15 years old	5	1.00	2.40	1.52	4.00
boys <15 years old	0	.	.	.	.
women 15-64 years old	29	0.00	2.59	2.76	7.00
men 15-64 years old	6	0.00	1.17	1.33	3.00
women 65+ years old	2	0.00	0.50	0.71	1.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	7	0.00	1.71	2.56	7.00
men 15-24 years old	2	0.00	1.00	1.41	2.00
women 25+ years old	24	0.00	2.67	2.78	7.00
men 25+ years old	4	0.00	1.25	1.50	3.00

Time (minutes) spent in the last 7 days

All	29	8.00	151.17	161.11	600.00
girls <15 years old	5	8.00	33.20	26.06	60.00
boys <15 years old	0	.	.	.	.
women 15-64 years old	20	8.00	200.40	172.66	600.00

men 15-64 years old	3	30.00	50.00	17.32	60.00
women 65+ years old	1	60.00	60.00	.	60.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	4	60.00	102.50	35.00	140.00
men 15-24 years old	1	30.00	30.00	.	30.00
women 25+ years old	17	8.00	215.18	183.78	600.00
men 25+ years old	2	60.00	60.00	0.00	60.00

Panel J: Water supply

Number of days spent in the last 7 days

All	35	0.00	4.66	2.82	7.00
girls <15 years old	5	3.00	5.20	1.79	7.00
boys <15 years old	1	7.00	7.00	.	7.00
women 15-64 years old	24	0.00	4.42	3.09	7.00
men 15-64 years old	4	1.00	4.25	2.75	7.00
women 65+ years old	1	7.00	7.00	.	7.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	9	0.00	5.00	3.12	7.00
men 15-24 years old	2	1.00	2.00	1.41	3.00
women 25+ years old	16	0.00	4.25	3.11	7.00
men 25+ years old	2	6.00	6.50	0.71	7.00

Time (minutes) spent in the last 7 days

All	29	4.00	159.07	194.77	840.00
girls <15 years old	5	9.00	141.80	161.20	420.00
boys <15 years old	1	35.00	35.00	.	35.00
women 15-64 years old	18	4.00	160.50	156.42	420.00
men 15-64 years old	4	30.00	35.00	7.07	45.00
women 65+ years old	1	840.00	840.00	.	840.00
men 65+ years old	0	.	.	.	.
women 15-24 years old	7	14.00	264.86	184.12	420.00
men 15-24 years old	2	30.00	37.50	10.61	45.00
women 25+ years old	12	4.00	156.25	233.12	840.00
men 25+ years old	2	30.00	32.50	3.54	35.00

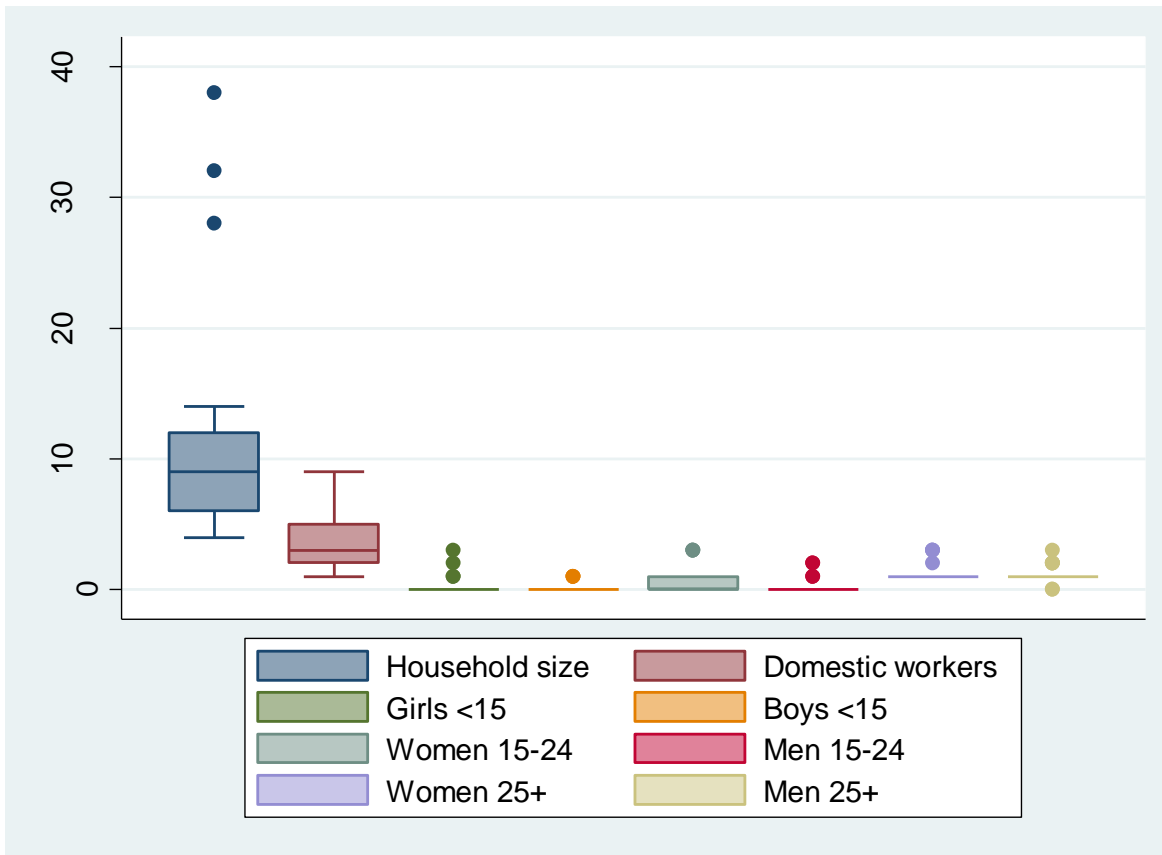


Figure 23: Household participation in domestic labor by gender-age groups

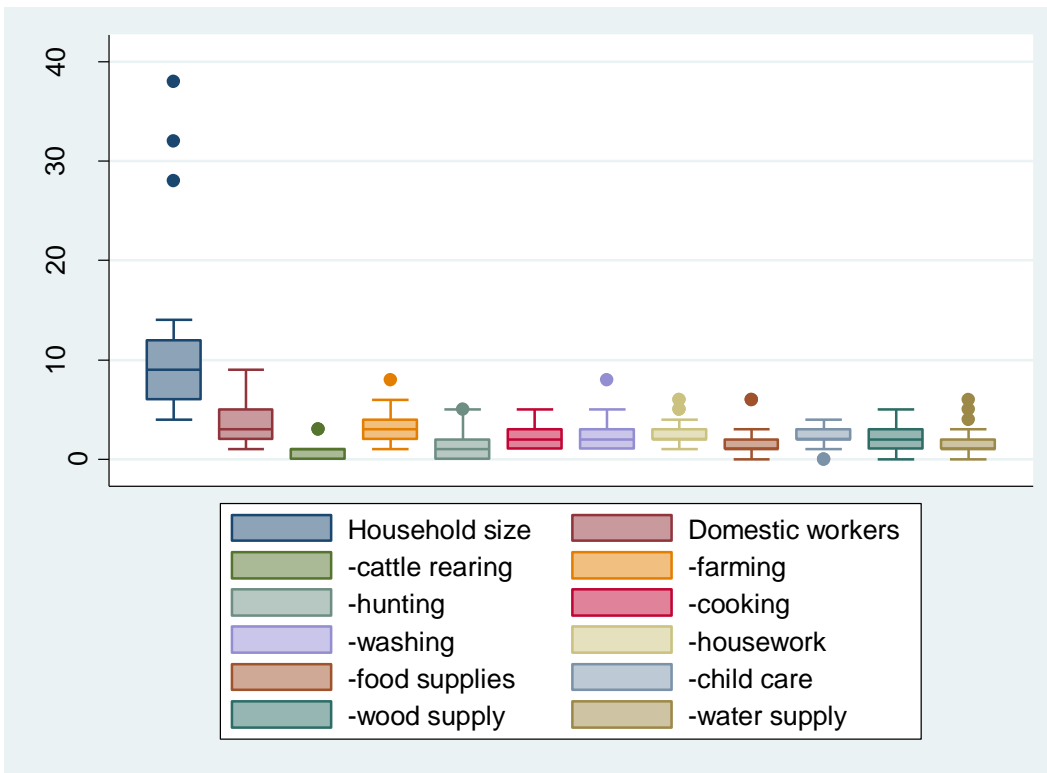


Figure 24: Household participation in domestic labor by activity

Table 17: Household-level descriptive statistics of household members engaged in domestic activities

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Number of HH members by status					
<i>Number of HH members by gender-age groups</i>					
Household size	21	4.00	12.05	9.21	38.00
Number of HH members engaged in domestic work	21	1.00	3.95	2.09	9.00
girls <15 years old	21	0.00	0.33	0.80	3.00
boys <15 years old	21	0.00	0.14	0.36	1.00
women 15-24 years old	21	0.00	0.67	1.06	3.00
men 15-24 years old	21	0.00	0.29	0.64	2.00
women 25+ years old	21	1.00	1.33	0.73	3.00
men 25+ years old	21	0.00	1.19	0.68	3.00
<i>Number of HH members by domestic activity</i>					
Cattle rearing	21	0.00	0.71	0.90	3.00
Farming	21	1.00	3.05	1.83	8.00
Hunting	21	0.00	1.10	1.26	5.00
Cooking	21	1.00	2.33	1.28	5.00
Washing	21	1.00	2.43	1.75	8.00
Housework	21	1.00	2.86	1.53	6.00
Food supplies	21	0.00	1.86	1.65	6.00
Child care	21	0.00	2.14	1.11	4.00
Wood supply	21	0.00	2.00	1.30	5.00
Water supply	21	0.00	1.67	1.65	6.00
Panel B: Frequency and time spent on cattle rearing					
<i>Number of days spent in the last 7 days</i>					
All	21	0.00	2.67	4.13	14.00
girls <15 years old	21	0.00	0.00	0.00	0.00
boys <15 years old	21	0.00	0.33	1.53	7.00
women 15-64 years old	21	0.00	0.33	1.53	7.00
men 15-64 years old	21	0.00	2.00	3.24	7.00
women 65+ years old	21	0.00	0.00	0.00	0.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	0.00	0.00	0.00
men 15-24 years old	21	0.00	0.00	0.00	0.00
women 25+ years old	21	0.00	0.33	1.53	7.00
men 25+ years old	21	0.00	2.00	3.24	7.00
<i>Time (minutes) spent in the last 7 days</i>					
All	21	0.00	147.33	287.35	980.00
girls <15 years old	21	0.00	0.00	0.00	0.00
boys <15 years old	21	0.00	6.67	30.55	140.00
women 15-64 years old	21	0.00	40.00	183.30	840.00
men 15-64 years old	21	0.00	100.67	216.10	840.00

women 65+ years old	21	0.00	0.00	0.00	0.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	0.00	0.00	0.00
men 15-24 years old	21	0.00	0.00	0.00	0.00
women 25+ years old	21	0.00	40.00	183.30	840.00
men 25+ years old	21	0.00	100.67	216.10	840.00

Panel C: Frequency and time spent on farming

Number of days spent in the last 7 days

All	21	0.00	8.71	8.19	30.00
girls <15 years old	21	0.00	0.76	2.07	8.00
boys <15 years old	21	0.00	0.57	1.83	7.00
women 15-64 years old	21	0.00	4.71	4.23	15.00
men 15-64 years old	21	0.00	2.67	3.06	10.00
women 65+ years old	21	0.00	0.00	0.00	0.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	0.86	1.77	6.00
men 15-24 years old	21	0.00	0.52	1.36	5.00
women 25+ years old	21	0.00	3.86	3.60	15.00
men 25+ years old	21	0.00	2.14	3.14	10.00

Time (minutes) spent in the last 7 days

All	21	0.00	3057.14	2962.78	10800.00
girls <15 years old	21	0.00	257.14	646.54	1920.00
boys <15 years old	21	0.00	234.29	740.19	2520.00
women 15-64 years old	21	0.00	1362.86	1423.93	4500.00
men 15-64 years old	21	0.00	1202.86	1480.73	4320.00
women 65+ years old	21	0.00	0.00	0.00	0.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	280.00	607.26	2160.00
men 15-24 years old	21	0.00	328.57	985.47	4200.00
women 25+ years old	21	0.00	1082.86	1156.38	4500.00
men 25+ years old	21	0.00	874.29	1350.81	4320.00

Panel D: Frequency and time spent on hunting

Number of days spent in the last 7 days

All	21	0.00	2.05	3.99	14.00
girls <15 years old	21	0.00	0.14	0.65	3.00
boys <15 years old	21	0.00	0.33	1.53	7.00
women 15-64 years old	21	0.00	1.24	2.76	12.00
men 15-64 years old	21	0.00	0.33	1.53	7.00
women 65+ years old	21	0.00	0.00	0.00	0.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	0.33	1.32	6.00
men 15-24 years old	21	0.00	0.00	0.00	0.00
women 25+ years old	21	0.00	0.90	1.64	6.00
men 25+ years old	21	0.00	0.33	1.53	7.00

Time (minutes) spent in the last 7 days

All	21	0.00	88.57	172.66	720.00
girls <15 years old	21	0.00	8.57	39.28	180.00
boys <15 years old	21	0.00	5.00	22.91	105.00
women 15-64 years old	21	0.00	73.33	170.54	720.00
men 15-64 years old	21	0.00	1.67	7.64	35.00
women 65+ years old	21	0.00	0.00	0.00	0.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	17.62	78.48	360.00
men 15-24 years old	21	0.00	0.00	0.00	0.00
women 25+ years old	21	0.00	55.71	109.52	360.00
men 25+ years old	21	0.00	1.67	7.64	35.00

Panel E: Frequency and time spent on cooking*Number of days spent in the last 7 days*

All	21	3.00	10.48	5.16	23.00
girls <15 years old	21	0.00	0.67	1.85	7.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	8.90	5.58	21.00
men 15-64 years old	21	0.00	0.57	1.83	7.00
women 65+ years old	21	0.00	0.33	1.53	7.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	2.71	4.24	14.00
men 15-24 years old	21	0.00	0.33	1.53	7.00
women 25+ years old	21	0.00	6.52	4.13	21.00
men 25+ years old	21	0.00	0.24	1.09	5.00

Time (minutes) spent in the last 7 days

All	21	180.00	2124.67	1793.04	8400.00
girls <15 years old	21	0.00	148.57	439.12	1680.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	1536.10	1148.93	3780.00
men 15-64 years old	21	0.00	40.00	126.33	420.00
women 65+ years old	21	0.00	400.00	1833.03	8400.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	442.86	673.09	1680.00
men 15-24 years old	21	0.00	20.00	91.65	420.00
women 25+ years old	21	0.00	1493.24	1857.87	8400.00
men 25+ years old	21	0.00	20.00	91.65	420.00

Panel F: Frequency and time spent on washing*Number of days spent in the last 7 days*

All	21	0.00	5.33	4.12	17.00
girls <15 years old	21	0.00	0.29	0.96	4.00
boys <15 years old	21	0.00	0.10	0.44	2.00
women 15-64 years old	21	0.00	4.62	4.04	14.00
men 15-64 years old	21	0.00	0.24	0.54	2.00

women 65+ years old	21	0.00	0.10	0.44	2.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	2.10	3.33	10.00
men 15-24 years old	21	0.00	0.14	0.48	2.00
women 25+ years old	21	0.00	2.62	2.46	8.00
men 25+ years old	21	0.00	0.10	0.30	1.00

Time (minutes) spent in the last 7 days

All	21	30.00	413.90	459.57	2040.00
girls <15 years old	21	0.00	15.71	55.01	240.00
boys <15 years old	21	0.00	2.86	13.09	60.00
women 15-64 years old	21	0.00	358.19	465.16	2040.00
men 15-64 years old	21	0.00	31.43	76.76	270.00
women 65+ years old	21	0.00	5.71	26.19	120.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	194.00	412.55	1680.00
men 15-24 years old	21	0.00	25.71	76.65	270.00
women 25+ years old	21	0.00	169.90	196.41	600.00
men 25+ years old	21	0.00	5.71	18.05	60.00

Panel G: Frequency and time spent on housework

Number of days spent in the last 7 days

All	21	1.00	10.33	6.26	22.00
girls <15 years old	21	0.00	1.14	3.37	14.00
boys <15 years old	21	0.00	0.38	1.53	7.00
women 15-64 years old	21	0.00	7.10	4.69	19.00
men 15-64 years old	21	0.00	1.43	3.31	14.00
women 65+ years old	21	0.00	0.29	1.31	6.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	2.19	3.57	12.00
men 15-24 years old	21	0.00	1.00	3.35	14.00
women 25+ years old	21	0.00	5.19	3.16	10.00
men 25+ years old	21	0.00	0.43	0.81	3.00

Time (minutes) spent in the last 7 days

All	21	20.00	206.33	203.58	780.00
girls <15 years old	21	0.00	20.48	58.01	230.00
boys <15 years old	21	0.00	3.57	13.34	60.00
women 15-64 years old	21	0.00	129.67	151.44	630.00
men 15-64 years old	21	0.00	51.19	107.00	420.00
women 65+ years old	21	0.00	1.43	6.55	30.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	16.57	27.00	76.00
men 15-24 years old	21	0.00	9.76	38.42	175.00
women 25+ years old	21	0.00	114.52	154.57	630.00
men 25+ years old	21	0.00	41.43	104.03	420.00

Panel H: Frequency and time spent on food supplies

Number of days spent in the last 7 days

All	21	0.00	2.48	4.08	14.00
girls <15 years old	21	0.00	0.00	0.00	0.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	1.62	3.28	14.00
men 15-64 years old	21	0.00	0.52	1.57	7.00
women 65+ years old	21	0.00	0.33	1.53	7.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	0.76	2.10	7.00
men 15-24 years old	21	0.00	0.00	0.00	0.00
women 25+ years old	21	0.00	1.19	2.14	7.00
men 25+ years old	21	0.00	0.52	1.57	7.00

Time (minutes) spent in the last 7 days

All	21	0.00	99.29	141.73	570.00
girls <15 years old	21	0.00	0.00	0.00	0.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	73.33	128.32	570.00
men 15-64 years old	21	0.00	24.29	70.40	240.00
women 65+ years old	21	0.00	1.67	7.64	35.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	35.48	101.91	420.00
men 15-24 years old	21	0.00	0.00	0.00	0.00
women 25+ years old	21	0.00	39.52	50.27	150.00
men 25+ years old	21	0.00	24.29	70.40	240.00

Panel I: Frequency and time spent on child care

Number of days spent in the last 7 days

All	21	0.00	3.05	3.35	10.00
girls <15 years old	21	0.00	0.00	0.00	0.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	1.62	2.27	7.00
men 15-64 years old	21	0.00	1.10	1.84	7.00
women 65+ years old	21	0.00	0.33	1.53	7.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	0.81	2.11	7.00
men 15-24 years old	21	0.00	0.00	0.00	0.00
women 25+ years old	21	0.00	1.14	1.88	7.00
men 25+ years old	21	0.00	1.10	1.84	7.00

Time (minutes) spent in the last 7 days

All	21	0.00	84.05	151.77	600.00
girls <15 years old	21	0.00	0.00	0.00	0.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	32.38	57.33	240.00

men 15-64 years old	21	0.00	31.67	81.23	360.00
women 65+ years old	21	0.00	20.00	91.65	420.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	8.81	20.61	70.00
men 15-24 years old	21	0.00	0.00	0.00	0.00
women 25+ years old	21	0.00	43.57	98.12	420.00
men 25+ years old	21	0.00	31.67	81.23	360.00

Panel J: Frequency and time spent on wood supply

Number of days spent in the last 7 days

All	21	0.00	4.52	5.12	19.00
girls <15 years old	21	0.00	0.57	1.80	8.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	3.57	5.08	19.00
men 15-64 years old	21	0.00	0.33	0.86	3.00
women 65+ years old	21	0.00	0.05	0.22	1.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	0.57	1.63	7.00
men 15-24 years old	21	0.00	0.10	0.44	2.00
women 25+ years old	21	0.00	3.05	4.87	19.00
men 25+ years old	21	0.00	0.24	0.77	3.00

Time (minutes) spent in the last 7 days

All	21	0.00	208.76	230.82	660.00
girls <15 years old	21	0.00	7.90	26.69	120.00
boys <15 years old	21	0.00	0.00	0.00	0.00
women 15-64 years old	21	0.00	190.86	241.71	660.00
men 15-64 years old	21	0.00	7.14	18.75	60.00
women 65+ years old	21	0.00	2.86	13.09	60.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	19.52	43.41	140.00
men 15-24 years old	21	0.00	1.43	6.55	30.00
women 25+ years old	21	0.00	174.19	229.41	660.00
men 25+ years old	21	0.00	5.71	18.05	60.00

Panel H: Frequency and time spent on water supply

Number of days spent in the last 7 days

All	21	0.00	7.76	6.61	22.00
girls <15 years old	21	0.00	1.24	3.49	14.00
boys <15 years old	21	0.00	0.33	1.53	7.00
women 15-64 years old	21	0.00	5.05	5.08	14.00
men 15-64 years old	21	0.00	0.81	2.02	7.00
women 65+ years old	21	0.00	0.33	1.53	7.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	2.14	4.16	14.00
men 15-24 years old	21	0.00	0.19	0.68	3.00

women 25+ years old	21	0.00	3.24	3.95	12.00
men 25+ years old	21	0.00	0.62	1.96	7.00
<i>Time (minutes) spent in the last 7 days</i>					
All	21	0.00	219.67	276.45	840.00
girls <15 years old	21	0.00	33.76	107.88	480.00
boys <15 years old	21	0.00	1.67	7.64	35.00
women 15-64 years old	21	0.00	137.57	219.79	780.00
men 15-64 years old	21	0.00	6.67	14.35	45.00
women 65+ years old	21	0.00	40.00	183.30	840.00
men 65+ years old	21	0.00	0.00	0.00	0.00
women 15-24 years old	21	0.00	88.29	222.32	780.00
men 15-24 years old	21	0.00	3.57	11.53	45.00
women 25+ years old	21	0.00	89.29	191.12	840.00
men 25+ years old	21	0.00	3.10	9.81	35.00

COMPARISON ACROSS MEASUREMENT TOOLS

A. Adult men

Table 18. Number of days of domestic activity across measurement tools, adult men.

Variable	Obs	Mean	Std. Dev.	Min	Max
Activity logs					
Cattle	10	0.325	0.866426	0	2.75
Cooking	10	0.725	2.20621	0	7
Housework	10	0.65	1.882669	0	6
Going to market	10	0.325	0.457196	0	1.25
Fetching wood	10	0.075	0.237171	0	0.75
Fetching water	10	0.025	0.079057	0	0.25
Survey					
Cattle	10	0	0	0	0
Cooking	10	0	0	0	0
Housework	10	0.4	0.699206	0	2
Going to market	10	0.1	0.316228	0	1
Fetching wood	10	0	0	0	0
Fetching water	10	0	0	0	0

B. Adult women

Table 19 Number of days of domestic activity across measurement tools, adult women.

Variable	Obs	Mean	Std. Dev.	Min	Max
Activity logs					
Cattle	10	0.6	1.897367	0	6

Cooking	10	5.05	1.00554	3.75	7
Housework	10	3.25	1.996525	1	6.25
Going to market	10	0.375	0.460223	0	1
Fetching wood	10	1.35	1.253883	0	3.75
Fetching water	10	1.575	1.662704	0	4.75
Survey					
Cattle	10	0.7	2.213594	0	7
Cooking	10	5.6	2.951459	0	7
Housework	10	4.4	3.405877	0	7
Going to market	10	1.1	2.13177	0	7
Fetching wood	10	2	2.211083	0	7
Fetching water	10	1.9	2.884826	0	7

C. Boys

Table 20 Number of days of domestic activity across measurement tools, boys.

Variable	Obs	Mean	Std. Dev.	Min	Max
Activity logs					
Cattle	8	0.59375	1.156793	0	3.25
Cooking	8	0.1875	0.258775	0	0.75
Housework	8	1.78125	2.273439	0	5.5
Going to market	8	0.0625	0.115728	0	0.25
Fetching wood	8	0.5	0.801784	0	2
Fetching water	8	0.75	0.731925	0	2
Survey					
Cattle	8	0	0	0	0
Cooking	8	0	0	0	0
Housework	8	1.75	3.24037	0	7
Going to market	8	0	0	0	0
Fetching wood	8	0.25	0.707107	0	2
Fetching water	8	0	0	0	0

D. Girls

Table 21 Number of days of domestic activity across measurement tools, girls.

Variable	Obs	Mean	Std. Dev.	Min	Max
Activity logs					
Cattle	11	0.795455	1.627184	0	4.75
Cooking	11	4.159091	2.050222	1.25	6.5
Housework	11	5.363636	1.35722	2.25	7
Going to market	11	0.363636	0.393123	0	1

Fetching wood	11	0.977273	0.762025	0	2.75
Fetching water	11	3.045455	2.583162	0.25	7
Survey					
Cattle	11	0	0	0	0
Cooking	11	0.636364	1.566699	0	5
Housework	11	1.818182	2.821992	0	7
Going to market	11	0	0	0	0
Fetching wood	11	0.636364	1.286291	0	4
Fetching water	11	1.272727	2.37027	0	7

F. COCOA PRODUCTION

PLANTATION CHARACTERISTICS

Table 22: Age of plantation by rehabilitation status

Age of plantation	Rehabilitation (plantation re-planted)					
	No		Yes		Total	
	Freq.	%	Freq.	%	Freq.	%
]0-10[years	4	16.7	0	0	4	11.4
[10-20[years	8	33.3	1	9.1	9	25.7
[20-30[years	4	16.7	8	72.7	12	34.3
[30-40[years	5	20.8	2	18.2	7	20.0
40+ years	3	12.5	0	0	3	8.6
Total	24	100	11	100	35	100

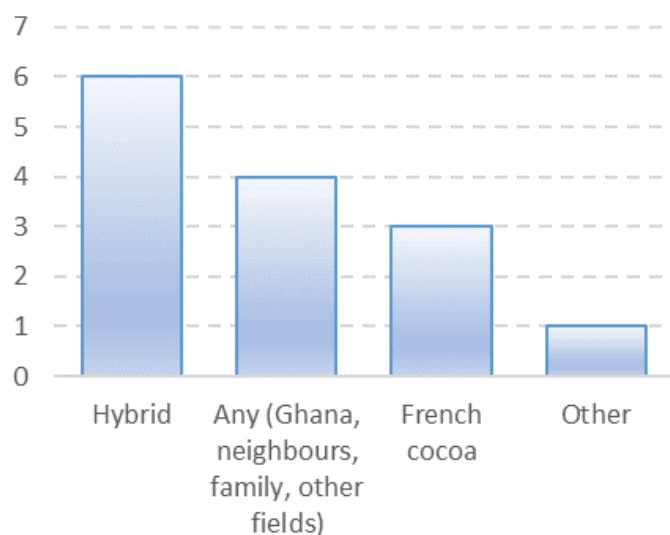


Figure 25. Types of seeds used for rehabilitating cocoa plots, N=14 (respondents could select more than one option for each cocoa plot).

Table 23: Variety of cocoa seeds by rehabilitation status

Variety of cocoa seeds	Rehabilitation (plantation re-planted)					
	No		Yes		Total	
	Freq.	%	Freq.	%	Freq.	%
Amelonado only	7	29.2	2	18.2	9	25.7
Hybrid only	1	4.2	0	0	1	2.9
Other	10	41.7	3	27.3	13	37.1
Amelonado+Hybrid+Other	1	4.2	0	0	1	2.9
Amelonado+Hybrid	5	20.8	6	54.5	11	31.4
Total	24	100.0	11	100	35	100

PRODUCTION PRACTICES

Table 24: Production practices on cocoa plots

		Freq.	Percent	Cum.
Had a nursery of cocoa plants	No	24	68.57	68.57
	Yes	11	31.43	100.00
	Total	35	100.00	
Used shading trees	No	3	8.57	8.57
	Yes	32	91.43	100.00
	Total	35	100.00	
Distance between cocoa trees	less than 3m	10	28.57	28.57
	approx. 3m	15	42.86	71.43
	more than 3m	1	2.86	74.29
	highly variable	1	2.86	77.14
	non-measurable	8	22.86	100.00
	Total	35	100.00	
Percentage of cocoa trees with height >7m	=0%	12	34.29	34.29
	]0-34%[	7	20.00	54.29
	[34-67%[	5	14.29	68.57
	[67-100%]	11	31.43	100.00
	Total	35	100.00	
Percentage of cocoa trees with height 3-7m	=0%	10	28.57	28.57
	]0-34%[	12	34.29	62.86
	[34-67%[	10	28.57	91.43
	[67-100%]	3	8.57	100.00
	Total	35	100.00	
Percentage of cocoa trees with height <3m	=0%	9	25.71	25.71
	]0-34%[	9	25.71	51.43

		Freq.	Percent	Cum.
	[34-67%[	13	37.14	88.57
	[67-100%]	4	11.43	100.00
	Total	35	100.00	
Soil conservation method: mulch	No	27	77.14	77.14
	Yes	8	22.86	100.00
	Total	35	100.00	
Soil conservation method: contour ploughing	No	34	97.14	97.14
	Yes	1	2.86	100.00
	Total	35	100.00	
Soil conservation method: composting	No	23	65.71	65.71
	Yes	12	34.29	100.00
	Total	35	100.00	
Used any soil conservation method	No	18	51.43	51.43
	Yes	17	48.57	100.00
	Total	35	100.00	
Cocoa crop health status	no pathology	7	20.00	20.00
	pathologies treated	7	20.00	40.00
	pathologies not treated	21	60.00	100.00
	Total	35	100.00	
Method used for drying cocoa fava beans	drying on tables	7	20.00	20.00
	drying on covered soil	12	34.29	54.29
	drying on non-covered soil	2	5.71	60.00
	drying on grids	7	20.00	80.00
	mixed methods	6	17.14	97.14
	not appl. (no production)	1	2.86	100.00
	Total	35	100.00	
Place of storage of chemicals	warehouse outside home	3	8.57	8.57
	warehouse at home	10	28.57	37.14
	no warehouse	4	11.43	48.57
	no chemicals	18	51.43	100.00
	Total	35	100.00	
Used protection equipment	No	30	85.71	85.71
	Yes	5	14.29	100.00
	Total	35	100.00	

USE OF FERTILIZER AND MANURE

Table 25: Use of fertilizer on cocoa plots

	Freq.	Percent	Cum.
Used fertilizer on cocoa plot			
No	29	80.56	80.56
Yes	7	19.44	100.00
Total	36	100.00	
Type of fertilizer			
NPK	4	66.67	66.67
Gramophone Super	2	33.33	100.00
Total	6	100.00	
Source of fertilizer			
weekly markets	3	50.00	50.00
purchase	2	33.33	83.33
weekly markets and input shops	1	16.67	100.00
Total	6	100.00	

Table 26: Other fertilizer use characteristics for cocoa plots

	Obs.	Min	Mean	Std. dev.	Max
# years of fertilizer application on the plot	6	1.00	6.33	11.62	30.00
Area planted in cocoa (ha)	7	2.00	7.71	9.96	30.00
Age of plot manager (years)	7	30.00	51.14	15.65	68.00
Plot manager was not educated	7	0.00	0.14	0.38	1.00

Table 27: Use of manure on cocoa plots

	Freq.	Percent	Cum.
Used manure on cocoa plot			
No	32	88.89	88.89
Yes	4	11.11	100.00
Total	36	100.00	
Source of manure			
own's preparation	2	50.00	50.00
purchase	1	25.00	75.00
composting	1	25.00	100.00
Total	4	100.00	

Table 28: Other manure use characteristics for cocoa plots

	Obs.	Min	Mean	Std. dev.	Max
Quantity of manure used (kg)	4	700.00	2425.00	1410.38	4000.00
Quantity of manure used (kg/ha)	4	100.00	470.00	389.36	1000.00
# of years of manure application on the plot	4	1.00	3.75	4.27	10.00
Age of plot manager (years)	4	53.00	61.50	7.68	68.00
Plot manager was not educated	4	0.00	0.25	0.50	1.00

Table 29: Cross-tabulation of use of manure and soil conservation methods with use of fertilizer

	Used fertilizer on cocoa plot					
	No		Yes		Total	
	Freq.	%	Freq.	%	Freq.	%
Used manure on cocoa plot						
No	28	96.60	4	57.10	32	88.90
Yes	1	3.40	3	42.90	4	11.10
Total	29	100	7	100.00	36	100.00
Used any soil conservation method						
No	12	48.00	4	57.10	16	50.00
Yes	13	52.00	3	42.90	16	50.00
Total	25	100.00	7	100.00	32	100.00

PRODUCTION

Table 30: Cocoa production characteristics

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Ahouanou village					
Quantity of cocoa produced (kg)	18	270.00	2150.06	1784.32	7310.00
Percentage of production sold	18	75.24	98.62	5.84	100.00
Percentage of production given away to others	18	0.00	1.38	5.84	24.76
Cocoa yield (kg/ha)	18	45.00	455.90	261.54	913.75
Cocoa sale revenue (FCFA)	18	270000.00	2149500.00	1505703.60	5500000.00
Average revenue from cocoa farming (FCFA/ha)	18	45000.00	463333.77	240095.58	800000.00
Average cocoa price (FCFA/kg sold)	18	1000.00	1083.33	353.55	2500.00
Panel B: Ahougnanfoutou village					
Quantity of cocoa produced (kg)	17	25.00	1372.76	1457.73	5000.00
Percentage of production sold	17	100.00	100.00	0.00	100.00

Percentage of production given away to others	17	0.00	0.00	0.00	0.00
Cocoa yield (kg/ha)	17	16.67	347.66	314.08	1250.00
Cocoa sale revenue (FCFA)	17	25000.00	1372764.71	1457727.88	5000000.00
Average revenue from cocoa farming (FCFA/ha)	17	16666.67	347656.86	314080.86	1250000.00
Average cocoa price (FCFA/kg sold)	17	1000.00	1000.00	0.00	1000.00
Panel C: Both					
Quantity of cocoa produced (kg)	35	25.00	1772.51	1657.48	7310.00
Percentage of production sold	35	75.24	99.29	4.19	100.00
Percentage of production given away to others	35	0.00	0.71	4.19	24.76
Cocoa yield (kg/ha)	35	16.67	403.33	289.20	1250.00
Cocoa sale revenue (FCFA)	35	25000.00	1772228.57	1512843.90	5500000.00
Average revenue from cocoa farming (FCFA/ha)	35	16666.67	407147.84	280509.94	1250000.00
Average cocoa price (FCFA/kg sold)	35	1000.00	1042.86	253.55	2500.00

Table 31: Cocoa production characteristics by fertilizer use groups

	Fertilizer users (N=7)	Fertilizer non-users (N=28)
Quantity of cocoa produced (kg)	1,290	1,893
Area planted in cocoa (ha)	7.7	4.8
Cocoa yield (kg/ha)	319.1	424.4
Average revenue from cocoa farming (FCFA/ha)	319,103	429,159
Percentage of cocoa trees with height >7m (%)	42.86	39.80
Percentage of cocoa trees with height 3-7m (%)	38.57	23.92
Percentage of cocoa trees with height <3m (%)	18.57	36.28
Age of plot manager (years)	51	52
Plot manager was not educated	14%	21%

	Obs.	Min	Mean	Std. dev.	Max
Panel A: Fertilizer users					
Quantity of cocoa produced (kg)	7	450.00	1290.14	771.78	2500.00
Area planted in cocoa (ha)	7	2.00	7.71	9.96	30.00
Cocoa yield (kg/ha)	7	29.33	319.10	216.12	555.56
Average revenue from cocoa farming (FCFA/ha)	7	29333.33	319103.17	216118.43	555555.56
Percentage of cocoa trees with height >7m (%)	7	0.00	42.86	33.52	80.00
Percentage of cocoa trees with height 3-7m (%)	7	20.00	38.57	16.76	70.00
Percentage of cocoa trees with height <3m (%)	7	0.00	18.57	21.93	60.00
Age of plot manager (years)	7	30.00	51.14	15.65	68.00
Plot manager was not educated	7	0.00	0.14	0.38	1.00
Panel B: Fertilizer non-users					
Quantity of cocoa produced (kg)	28	25.00	1893.11	1803.25	7310.00
Area planted in cocoa (ha)	28	1.50	4.75	5.28	30.00
Cocoa yield (kg/ha)	28	16.67	424.38	304.37	1250.00

Average revenue from cocoa farming (FCFA/ha)	28	16666.67	429159.01	293588.67	1250000.00
Percentage of cocoa trees with height >7m (%)	25	0.00	39.80	40.27	100.00
Percentage of cocoa trees with height 3-7m (%)	25	0.00	23.92	26.62	100.00
Percentage of cocoa trees with height <3m (%)	25	0.00	36.28	29.35	100.00
Age of plot manager (years)	28	21.00	52.18	12.28	69.00
Plot manager was not educated	28	0.00	0.21	0.42	1.00

Table 32: Cocoa production characteristics by soil conservation technology use groups

		Users of any soil conservation technology (N=16)	Non-users of soil conservation technologies (N=16)		
Quantity of cocoa produced (kg)		2,206	1,557		
Area planted in cocoa (ha)		4.5	6.7		
Cocoa yield (kg/ha)		472.4	371.2		
Average revenue from cocoa farming (FCFA/ha)		458,274	393,716		
Percentage of cocoa trees with height >7m (%)		44.69	36.25		
Percentage of cocoa trees with height 3-7m (%)		29.38	24.88		
Percentage of cocoa trees with height <3m (%)		25.94	38.88		
Age of plot manager (years)		46	56		
Plot manager was not educated		0	25%		
	Obs.	Min	Mean	Std. dev.	Max
Panel A: Users of any soil conservation technology (mulch/contour/composting)					
Quantity of cocoa produced (kg)	16	270.00	2206.31	1893.30	7310.00
Area planted in cocoa (ha)	16	1.50	4.53	2.00	8.00
Cocoa yield (kg/ha)	16	45.00	472.41	268.13	913.75
Average revenue from cocoa farming (FCFA/ha)	16	45000.00	458274.30	248551.98	833333.31
Percentage of cocoa trees with height >7m (%)	16	0.00	44.69	38.96	100.00
Percentage of cocoa trees with height 3-7m (%)	16	0.00	29.38	29.99	100.00
Percentage of cocoa trees with height <3m (%)	16	0.00	25.94	21.70	55.00
Age of plot manager (years)	16	21.00	45.94	13.40	62.00
Plot manager was not educated	16	0.00	0.00	0.00	0.00
Panel B: Non-users of soil conservation technologies					
Quantity of cocoa produced (kg)	16	167.00	1556.69	1428.28	5000.00
Area planted in cocoa (ha)	16	1.50	6.69	9.21	30.00
Cocoa yield (kg/ha)	16	29.33	371.22	307.95	1250.00
Average revenue from cocoa farming (FCFA/ha)	16	29333.33	393715.77	310861.35	1250000.00
Percentage of cocoa trees with height >7m (%)	16	0.00	36.25	38.62	100.00
Percentage of cocoa trees with height 3-7m (%)	16	0.00	24.88	20.35	60.00
Percentage of cocoa trees with height <3m (%)	16	0.00	38.88	33.54	100.00
Age of plot manager (years)	16	30.00	55.81	10.30	69.00
Plot manager was not educated	16	0.00	0.25	0.45	1.00

Table 33: Cocoa production characteristics by crop health status

	No pathology on plot (N=5)	Pathologies treated (N=6)	Pathologies not treated (N=21)
Quantity of cocoa produced (kg)	1,330	1,740	2,053
Area planted in cocoa (ha)	3.0	6.1	6.1
Cocoa yield (kg/ha)	409.8	262.4	470.2
Average revenue from cocoa farming (FCFA/ha)	409,778	262,389	476,601
Percentage of cocoa trees with height >7m (%)	13%	55%	43%
Percentage of cocoa trees with height 3-7m (%)	50%	28%	21%
Percentage of cocoa trees with height <3m (%)	37%	17%	36%
Age of plot manager (years)	49	38	55
Plot manager was not educated	20%	0	14%

	Obs.	Min	Mean	Std. dev.	Max
Panel A: No pathology					
Quantity of cocoa produced (kg)	5	300.00	1330.00	1090.64	2500.00
Area planted in cocoa (ha)	5	2.00	3.00	0.94	4.50
Cocoa yield (kg/ha)	5	150.00	409.78	290.73	833.33
Average revenue from cocoa farming (FCFA/ha)	5	150000.00	409777.78	290730.66	833333.31
Percentage of cocoa trees with height >7m (%)	5	0.00	13.00	15.65	30.00
Percentage of cocoa trees with height 3-7m (%)	5	40.00	50.00	12.25	70.00
Percentage of cocoa trees with height <3m (%)	5	20.00	37.00	14.83	55.00
Age of plot manager (years)	5	30.00	48.60	13.65	66.00
Plot manager was not educated	5	0.00	0.20	0.45	1.00
Panel B: Pathologies treated					
Quantity of cocoa produced (kg)	6	270.00	1740.17	1803.12	4500.00
Area planted in cocoa (ha)	6	3.00	6.08	1.74	8.00
Cocoa yield (kg/ha)	6	45.00	262.39	242.97	583.33
Average revenue from cocoa farming (FCFA/ha)	6	45000.00	262388.89	242974.77	583333.31
Percentage of cocoa trees with height >7m (%)	6	0.00	55.00	46.37	100.00
Percentage of cocoa trees with height 3-7m (%)	6	0.00	28.33	40.21	100.00
Percentage of cocoa trees with height <3m (%)	6	0.00	16.67	25.82	50.00
Age of plot manager (years)	6	21.00	37.50	12.41	57.00
Plot manager was not educated	6	0.00	0.00	0.00	0.00
Panel C: Pathologies not treated					
Quantity of cocoa produced (kg)	21	167.00	2053.19	1795.42	7310.00
Area planted in cocoa (ha)	21	1.50	6.10	8.10	30.00
Cocoa yield (kg/ha)	21	29.33	470.23	295.56	1250.00
Average revenue from cocoa farming (FCFA/ha)	21	29333.33	476600.91	279334.71	1250000.00
Percentage of cocoa trees with height >7m (%)	21	0.00	42.86	37.97	100.00
Percentage of cocoa trees with height 3-7m (%)	21	0.00	21.33	19.82	60.00
Percentage of cocoa trees with height <3m (%)	21	0.00	35.81	31.00	100.00
Age of plot manager (years)	21	27.00	55.24	10.13	69.00
Plot manager was not educated	21	0.00	0.14	0.36	1.00