



Feed the Future Africa Great Lakes Region Coffee Support Program (AGLC) Policy Roundtable

**Topic:** Challenges and Opportunities for Women in the Rwandan Coffee Sector

August 2017 • Puebla, Mexico

































## Africa Great Lakes Coffee project

AGLC is a 3-year USAID-funded initiative - coffee sector in Rwanda and Burundi (the Africa Great Lakes region)

#### 6 Partners

- 2 Rwanda: Inst. of Policy Analysis and Research (IPAR) and Univ. of Rwanda (UR)
- 2 Burundi: University of Ngozi, Polytechnic Univ. of Gitega
- 2 USA: Michigan State University (MSU) and Global Knowledge Initiative (GKI) in Washington D.C.
- Numerous public and private sector partners

#### **Objectives:**

- Reduce antestia bug/potato taste defect (PTD)
- Raise coffee productivity









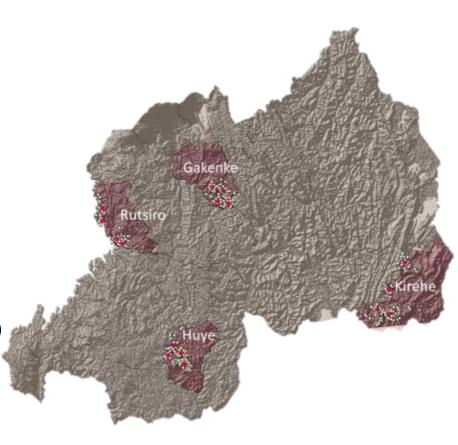


## Baseline/midline survey of coffee growers

- Geographically dispersed sample across four coffee growing districts: Rutsiro, Huye, Kirehe and Gakenke.
- 64/32 HHs randomly selected from listings of each of the 16 CWSs
  - Baseline  $(64 \times 16 = 1024)$ HHs)
  - Midline  $(32 \times 16 = 512 \text{ HHs})$

#### **Qualitative Research** Included:

- Key informant interviews
- Focus group discussions











## Guiding question:

What are the differences between male and female heads of households that produce coffee in <a href="Rwanda">Rwanda</a>?





















# Research Findings – Rwanda

(a few)



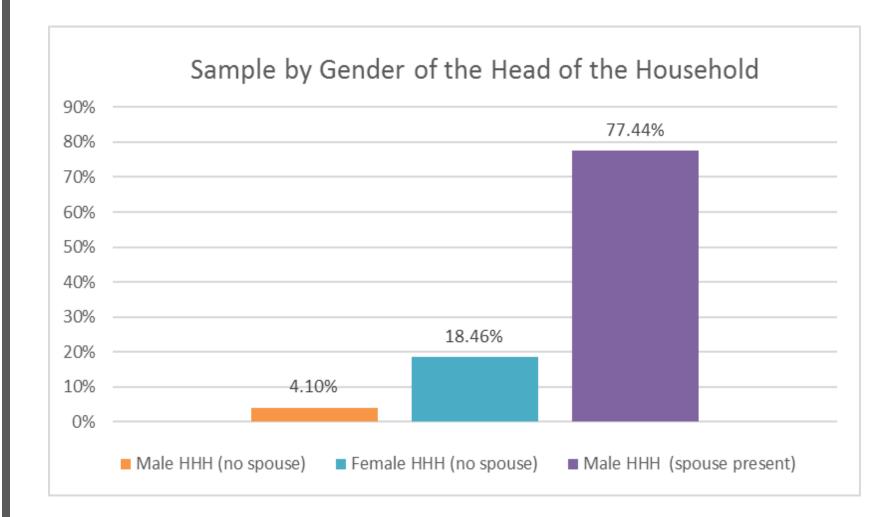






















# Are the female-headed households different than the male-headed households?











### Women are older

Table 1. Age of the Head of Household by Gender

	Fei	males	Ma	les
	Total	%	Total	%
Less than 35	7	3.70%	159	19.04%
36-50	42	22.22%	298	55.69%
51-65	89	47.09%	261	31.25%
More than 66	51	27%	117	14.01%
Average age	58.14		49.49	











## Women are more illiterate (cannot read or write), and have less adult help in the HH.

Table 2. Socio-demographic statistics

		Females					Completed primary:		
	Total	Median	Mean	St Dev	Total	Medi	Males: 399 Females: 2		:
Age		59.00	58.14	11.96		48		1	1
Illiteracy	113		59.79		212		25.38		< 0.001
Widow	147		77.8		17		2		< 0.001
Household size		4	4.23	2.05		5	5.57	2.08	< 0.001
Children under 16		1	1.46	1.31		2	2.24	1.53	< 0.001
Adults older than 65			0.306	0.49			0.22	0.54	< 0.001
Active Adults in			\						
Household		2.00	2.47	1.57		3.0	00 3.10	1.60	< 0.001
Cooperative member	118				449				0.03

Note: p-value denotes significance of statistical test for differences in distributions across gender of the head of the household

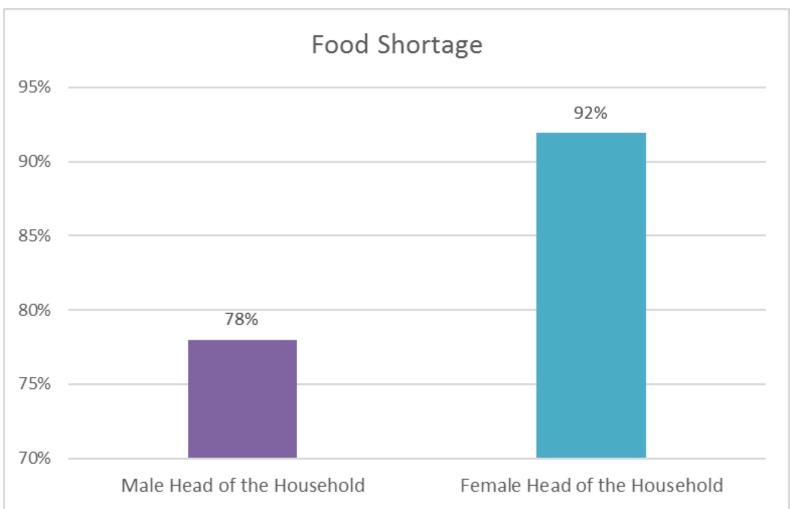








## ... more likely to experience food shortage in the HH.

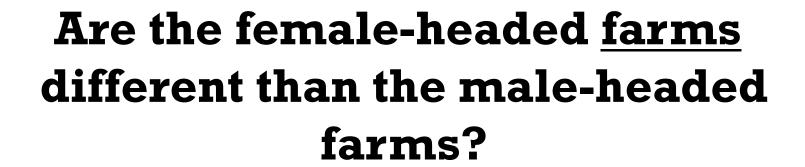




















## less land, less area with coffee.

Table 3. Farm Characteristics

		Females			Males				
	Total	Median	Mean	St Dev	Total	Median	Mean	St Dev	<i>p-</i> value
Total land owned									
(sq meters)		7369	10243	10144.4		1000	12380	10756.21	0.0129
Total land for cultivation (sq meters)		5970	8691.69	3822.97		8348	10584.04	9257.95	0.0106
Total area under coffee production (sq meters)		1264	2534.78	3786.5		1960	3420.2	5090.9	0.0244
Household grows other crops besides coffee	188				829				
Percentage of the land growing coffee		0.024	0.33	0.27		0.27	0.35	0.26	0.2640

Note: p-value denotes significance of statistical test for differences in distributions









... more years growing coffee, fewer trees, older trees. Smaller harvest, less money from coffee, but coffee is a larger share of total income.

Table 4. Coffee Production

Females						Males	;	
	Median	Mean	St Dev	Medi	an	Mean	St Dev	<i>p</i> -value
Years growing coffee	30	28.84	15.96	20		22 21	1/1 00	<0.001
Productive trees	300	596.16	894.7	412	On a	verage, co	ffee is	0.0668
Age of trees	25	27.72	15.15	18.1	50%	of the inco	ome for	< 0.001
Total cherry harvest (2015)	420	733.30	1296.78	600		e househo		0.0379
Total Income (coffee and non- coffee, 2015)	199000	362639.50	522608.20	3808	350.00	614516.30		0.03
Total Income from Coffee (2015	83000	15999345	310968.80	1369	940.00	226591.20	379563.90	0.02
Coffee as a share of income (2015)	0.45	0.49	0.31	0.42		0.43	0.27	0.015
Income not including coffee	99000	202646,1	363117.8	2100	000	387637.1	1316427	0.015

Note: p-value denotes significance of statistical test for differences in distributions across gender of the head of the household









## 9 farm tasks by gender





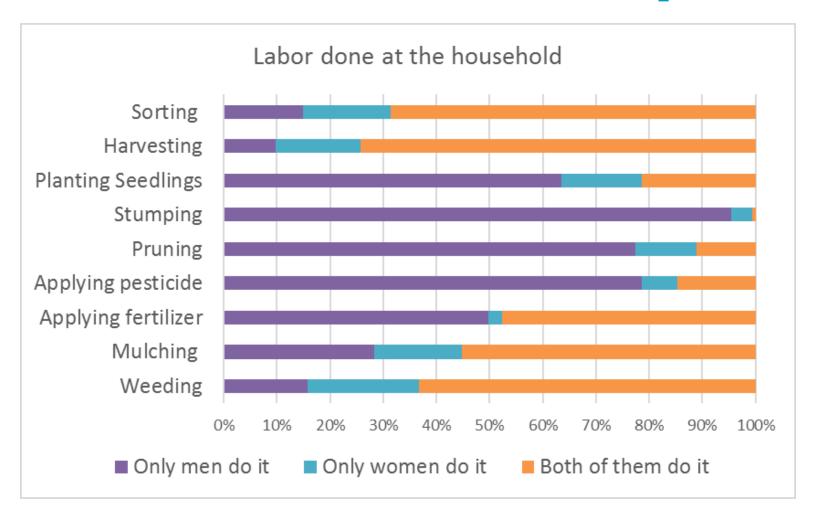








## Surprise: "Female" always less than "male" or "both" in combined sample.















#### Not a Surprise: In female HHH, females do most of every task except pesticide and fertilizer.













#### Mulching, pruning and applying pesticide are activities where female HHHs more likely to hire a worker.

Table 5. Coffee Labor

Table 3. Colle	e Laboi	31 1	7 1 11 1		=
		No one is doing this activity (HH or labor)	Labor hired outside of the household	Labor done Only at the HH family is and also providing hired this labor	
Weeding	Male Head of HH	0.24	7.19	IIII ed His iabbi	
weeding				Female HHH h	21/0
	Female head of HH	0.53	9.52		
Mulching	Male Head of HH	7.43	12.81	20% higher cos	st of
	Female head of HH	10.05	18.52		
Applying	Male Head of HH	26.71	4.07	production	•
Fertilizer	Female head of HH	33.86	7.41		
Applying	Male Head of HH	28.74	10.66	12.22 48.38	
Pesticide	Female head of HH	39.15	22.22	8.47 30.16	
Pruning	Male Head of HH	5.03	19.64	13.17 62.16	
	Female head of HH	8.99	37.57	10.05 43.39	
Stumping	Male Head of HH	77.37	3.11	2 63 16 89	
	Female head of HH	83.07	10.05	Female HHH pro	ofits
Planting	Male Head of HH	78.44	1.20	from coffee are	LESS
Seedlings	Female head of HH	77.78	3.70	_	
Harvesting	Male Head of HH	0.48	4.91	On average, o	nıy
	Female head of HH	2.12	6.35	80% of male H	нн.
Sorting	Male Head of HH	37.37	0.48	4./9 3/.3/	
	Female head of HH	43.39	1.06	4.76 50.79	





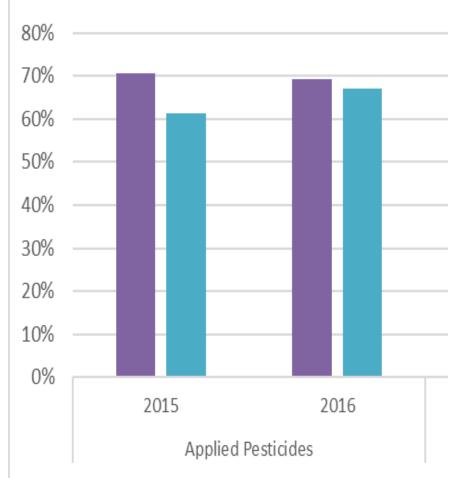








#### Gender and Input Application



- Male Head of the Household
- Female Head of the Household





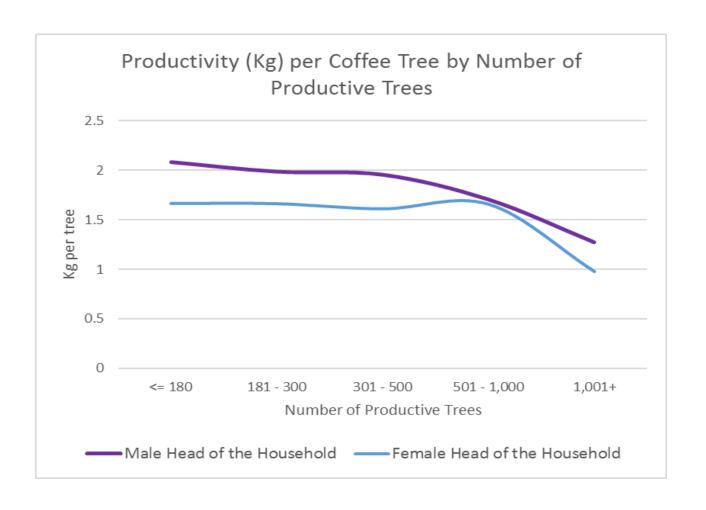








## Therefore, not surprising, female HHHs have lower productivity per coffee tree.















## Coffee money

Sex of person who		
received the money	N	%
Male	293	57%
Female	127	25%

<sup>\* 18%</sup> non-respondent

Gender of Coffee Decision Making	N- Midline	% - Midline
Male	132	25%
Female	107	21%
Both M&F	272	54%

Who decided what		
to do with income		
from cherry sale?*	N	%
Head of household	213	54%
Spouse	17	4%
HHH and spouse	168	42%













## Top 10 Things For Which Coffee Money is Used

#### All households

	Use of Money	% Saying They Used the money for this
1	Food	45%
2	Health services	45%
3	Household expenses	43%
4	School expenses	35%
5	Other farm investments	26%
6	Livestock	22%
7	Clothing	21%
8	Household goods	20%
9	Coffee Related Work	10%
10	Savings	4%

2015 Income from Coffee	US\$
Female HHH	\$200
Male HHH	\$283













## Conclusions re: Areas to Focus











## IMPORTANT AREAS TO FOCUS (rank order)

- Lack of control of household resources limits women's ability to invest in their coffee (e.g., purchasing inputs).
- Involve more young people, especially young women, in coffee to address the increasing age of coffee farmers.
- While trainings have supported women's empowerment, need 3. to train both men and women to ensure men are on board with implementation of best practices.
- While coops can train women on activities they can do without their husbands, it's little use when women cannot purchase the equipment to perform these activities (e.g., sprayers).



Thank You!

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