

The IndoDairy Smallholder Household Survey From Farm-to-Fact

The Centre for Global Food and Resources



Factsheet 13.8: Profitability Comparison - Gender Inclusiveness

Background

In the previous factsheet, information on farmers' attitudes, perceptions of changes, future aspirations and expectations was considered. In this final factsheet based on profit quartiles of the IndoDairy Smallholder Household Survey (ISHS) '*Farm-to-Fact*' series, gender inclusiveness in decision making, ownership of assets, group membership and access to credit is examined.

The approach to collecting the data using the Abbreviated Women Empowerment in Agriculture Index (A-WEAI) module was previously explained in Factsheet 11.

In this factsheet, differences in profit quartiles for decision making, access to capital and credit, and group membership will be examined with particular reference to dairy farming activities. In order to avoid biases in responses, the primary decision makers (PDMs) and the secondary decision makers (SDMs) in the household were asked the questions in this module separately.

In Factsheet 3 of the ISHS, on household characteristics, it was noted that **97% of the households' PDMs were male. Overall, 94% of households had a SDM and nearly all were females (99%).**

Activity participation

The respondents were asked questions about participation in certain types of work activities within the household.

Detailed profit quartile wise results are shown in Table A1 in the Appendix.

Slight difference

The following work activities trended towards significance between profit quartiles (p < 0.10):

• The number of farmers (9%) from Quartile 4 (Q4) (most profitable) engaged in **livestock raising** as an activity was considerably lower compared to farmers (15%) in Quartile 1 (Q1) (least profitable).

There were <u>no significant differences</u> observed between the profit quartiles for **participation in a number of other household activities**, including food crop farming and cash crop farming.

Decision making

PDMs and SDMs in the household were asked, when decisions are made regarding key work activities, who it is that normally makes the decision. Profit quartile wise results are shown in Table A2 and A3 in the Appendix.







Ministry of Agriculture Indonesia





These activities included food crop farming (grown primarily for household consumption), cash crop farming (grown for sale on the market), livestock raising (cattle, buffalo, horse, etc.), and activities related to the dairy business including selling and buying cows, forages, concentrates, maintaining herd health, and milk marketing.

Figures 1 and 2 show differences in perception of decision making of PDMs and SDMs across profit quartiles.

Significant difference

The following participations in decision-making were significantly different between profit quartiles (p < 0.05):

- Only 36% of PDMs (men) in Q4 reported that their spouse contributed to decision making, compared to 44% in Q1. This indicates fewer PDMs from most profitable households perceived their spouse (wives) made decisions in their household compared to households with lower profitability (Table A2).
- The number of <u>PDMs from Q2</u> (9%) who reported that other household members normally contribute to decision making <u>was higher</u>, compared to PDMs from Q1 (4%), Q4 (4%) and Q3 (3%) (Table A2). On the other hand, <u>this number was higher for SDMs in Q3</u> (5%) compared to SDMs from Q1 (3%), Q2 (3%) and Q4 (1%) (Table A2).

- <u>92% of PDMs from Q4</u> reported making decisions related to **milk marketing** themselves, while <u>81% of PDMs from Q1</u> indicated the same (Table A3).
- <u>7% of PDMs from Q2</u> reported <u>other</u> <u>household members</u> make decisions regarding **selling and buying cattle**, compared to PDMs from Q1 (4%), Q3 (3%) and Q4 (1%) (Table A3).
- Similarly, 8% of PDMs from Q2 also indicated <u>other household members</u> make decisions regarding kinds and quantities of concentrates, which is more than twice as many compared to PDMs from Q1 (3%), Q4 (3%) and Q3 (2%) (Table A3).

No difference

The following participations in decision-making were not significantly different between profit quartiles (p > 0.10):

- <u>Inputs of PDMs and SDMs</u> (Table A4) in making decisions about food crop farming, cash crop farming, livestock raising and dairy related decisions.
- Extent of making personal decisions for <u>PDMs and SDMs</u> (Table A5) regarding food crop farming, cash crop farming, livestock raising and dairy farming.
- Input of PDMs and SDMs on <u>making</u> decisions on the use of income generated (Table A6) from food crop farming, cash



Figure 1. Perception of decision making of primary decision makers, by quartile.





crop farming, livestock raising and dairy related decisions.

Ownership of assets

The respondents were asked about ownership of household assets and a number of other items that could be used to generate income.

considered Assets that were include: agricultural land; large (e.g. cattle, horses and buffalo) and small (e.g. goats, sheep and pigs) livestock; poultry (e.g. chickens, ducks, turkeys and pigeons); fish and fishing equipment; mechanised and non-mechanised farming equipment; non-farm business equipment; houses and other structures; large (e.g. refrigerators) and small (e.g. cookware and radios) consumer durables; mobile phones; other land (for non-agricultural purposes); and means of transportation.

Profit quartile wise results are shown in Table A7 and Table A8 in the Appendix.

Significant difference

The following asset ownership were significantly different between profit quartiles (p < 0.05):

- The number of PDMs who own agricultural land pieces or plots was lowest in Q3 (37%) while highest in Q1 (55%), Q4 (51%) (Table A7).
- The number of PDMs who **own poultry** was <u>highest in Q2 (29%)</u>, followed by Q3 (25%), Q1 (24%) and Q4 (17%) (Table A7).

• Joint ownership of assets reported by PDMs was <u>highest in Q3</u> (70%). This was lower across Q2 (66%), Q1 (64%) and Q4 (64%) (Table A8).

No difference

The following asset ownership were not significantly different between profit quartiles for both PDMs and SDMs (unless otherwise stated) (p > 0.10):

- Large and small livestock
- Poultry (for SDMs)
- Fish pond or fishing equipment
- Mechanised and non-mechanised farm equipment
- Non-farm business equipment
- Houses or other structures
- Large and small consumer durables
- Mobile phones
- Other land not used for agricultural purposes
- Means of transportation

Likewise, percentage of **SDMs reporting on overall sole or joint ownership** was <u>not significant</u> between profit quartiles.

Share of ownership

The respondents were asked about their perception on the type of ownership (sole or

joint) of household assets that can be used to generate income.

Profit quartile wise results are shown in Table A9 in the Appendix.

Slight difference

The following share of ownership of assets trended towards significance between profit quartiles (p < 0.10):

- 77% of PDMs from Q3 indicated they jointly owned agricultural land plots compared to Q1 (70%), Q2 (66%), and Q4 (54%). The level of sole ownership in farmers from Q4 (34%) was higher than Q1 (25%), Q2 (22%) and Q3 (18%).
- <u>Sole ownership</u> of **mobile phones** among SDMs was highest in Q1 (38%) followed by Q4 (31%), Q2 (29%) and Q3 (25%).

No difference

The following share of ownership of assets were not significantly different between profit quartiles for both PDMs and SDMs (unless otherwise stated) (p > 0.10):

- Agricultural land/plots (for SDMs)
- Large and small livestock
- Poultry
- Fish pond or fishing equipment
- Mechanised and non-mechanised farm equipment
- Non-farm business equipment
- Houses or other structures
- Large and small consumer durables
- Mobile phones (for PDMs)
- Other land not used for agricultural purposes
- Means of transportation

Sources of credit

The respondents were asked about their experience with borrowing money or other items in the past 12 months.

Profit quartile wise results of <u>sources of loans</u> are shown in Table A10 in the Appendix. <u>All</u> <u>sources of credit were not significantly different</u> between profit quartiles (p > 0.10).

There were also <u>no significant differences</u> across the profit quartiles <u>on the forms of loan</u> (Table A11) including cash, in-kind, cash and inkind borrowed from the above-mentioned sources.

Decisions on borrowing money and what to do with it

The respondents were asked who made the decision to borrow most of the time in the past 12 months, followed by a question on who makes decisions on what to do with the borrowed funds.

Profit quartile wise results are shown in Table A12 in the Appendix.

Significant difference

The following responses were significantly different between profit quartiles (p < 0.05):

- <u>PDMs from Q4</u> (70%) who reported their spouse contributed to decision making to borrow most of the time was lower compared to what PDMs from Q1 (87%), Q3 (83%) and Q2 (73%) perceived.
- <u>SDMs from Q4</u> (86%) who indicated their spouse contributed to decisions to borrow money (most of the time) was <u>also</u> <u>lower</u> than SDMs from Q1 (94%), Q2 (92%) and Q3 (97%).

This indicates that fewer PDMs and SDMs from most profitable households (Q4) perceived their spouses contributed to decisions to borrowing money compared to households from other quartiles.

There were <u>no significant differences</u> across the profit quartiles when it comes to <u>decisions on</u> <u>what to do with the borrowed funds</u>.

Group membership

PDMs and SDMs were asked about formal, informal and customary groups in the community and whether they were active members of these groups. Groups that are considered in the A-WEIA include: farmer (including agricultural, livestock, fisheries, and marketing), youth, forest, credit or microfinance, insurance, trade and business associations, civic, religious, and women's groups.

Profit quartile wise results are shown in Table A13 in the Appendix.

Significant difference

The following group memberships were significantly different between profit quartiles (p < 0.05):

• Farmer group membership <u>of PDMs was</u> <u>lowest in Q1</u> (73%), compared to other quartiles Q2 (86%), Q3 (87%) and Q4 (87%).

No difference

The following group memberships were not significantly different between profit quartiles for both PDMs and SDMs (unless otherwise stated) (p > 0.10):

- Farmer groups (for SDMs)
- Youth unions
- Forest user's groups
- Credit, microfinance and insurance groups
- Trade and business association groups
- Civic and charitable groups
- Religious groups
- Women's unions
- Other groups

Summary

In this factsheet, insights from the ISHS on the aspect of gender inclusiveness were examined in decision making regarding various dairy farm activities, individual and collective ownership of assets, forms of credit, decision making on borrowing money, and group membership of PDMs and SDMs.

- There were no significant differences across quartiles in activity participation and overall decision making of PDMs and SDMs.
- The number of PDMs from most profitable households who perceived that women made decisions regarding farming activities in their households, was lower than that perceived by PDMs from households with low profitability.
- This was also true for decisions related to dairy farm activities, with more PDMs from Q4 (most profitable) making decisions themselves compared to PDMs from Q1 (least profitable).
- In regard to ownership of assets, PDMs from Q1 had the highest share of ownership of agricultural land and plots, compared to other quartiles.
- There were no significant differences with individual and collective ownership of assets across the profit quartiles.
- Similarly, no significant differences were noted across quartiles in regard to sources and forms of loans.
- Fewer PDMs and SDMs from most profitable households (Q4) perceived their spouses contributed to decision making regarding borrowing funds, compared to households from other quartiles.
- There were no significant differences across the profit quartiles regarding decisions on what to do with the borrowed funds.
- The level of farmer group membership for PDMs in Q1 was the lowest compared to PDMs from other profit quartiles.

This factsheet concludes the 'IndoDairy Smallholder Household Survey' (ISHS) '*Farm-to-Fact*' series.

Appendix to Factsheet 13.8

The tables included in this appendix provide summary statistics related to gender inclusiveness in decision making, asset ownership, access to credit, and group membership for the entire sample.

Statistical significance between quartiles were determined using ANOVA (for binary and continuous variables) and Pearson's Chi-squared test (for categorical variables). For categorical variables with small observations (n < 5), Fisher's exact test was used to confirm the Chi-squared test. ANOVA and Chi-squared tests results are shown in the right-hand column, under the Total. Pairwise comparisons were performed for continuous and binary variables using Tukey tests when the ANOVA test was trending towards significant (p < 0.1). Quartiles with the same letter are not significantly different at the 5% level (p > 0.05).

			Pr	imary	Decision	Make	r (n=600)						Sec	ondar	y Decisio	on Mak	er (n=56	3)		
	Q1		Q	2	Q	3	Q4	L .	Tot	al	Q1		Q2	2	Q	3	Q4	1	Tot	al
Variable	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹
Food crop farming	9.3%		10.0%		8.0%		10.7%		9.5%		7.1%		11.5%		8.2%		9.5%		9.1%	
Cash crop farming	26.7%		33.3%		23.3%		25.3%		27.2%		19.3%		25.9%		17.0%		21.2%		20.8%	
Livestock raising																				
(cattle, buffalo,	15.3%	а	7.3%	а	7.3%	а	8.7%	а	9.7%	*	6.4%		3.6%		6.1%		8.8%		6.2%	
horses, etc.)																				
Dairy farming	02 7%		95 3%		9/ 0%		95 3%		0/ 3%		73.6%		70 1%		7/ 8%		76.6%		76.0%	
(general)	32.170		30.070		34.070		35.570		34.570		75.070		73.170		74.070		10.070		10.070	
Selling and buying	73.3%		74 0%		71.3%		65.3%		71.0%		49.3%		52 5%		50.3%		47 4%		49 9%	
dairy cows	10.070		74.070		71.070		00.070		71.070		40.070		02.070		00.070		77.770		40.070	
Kinds and																				
quantity of	92.7%		94.7%		94.7%		95.3%		94.3%		57.1%		69.8%		59.9%		57.7%		61.1%	
forages																				
Kinds and																				
quantity of	92.0%		94.0%		94.0%		92.0%		93.0%		56.4%		60.4%		57.1%		53.3%		56.8%	
concentrates																				
Herd health	92.7%		94.7%		95.3%		94.7%		94.3%		57.1%		61.9%		59.2%		53.3%		57.9%	
Milk marketing	90.0%		93.3%		94.7%		92.7%		92.7%		49.3%		54.7%		47.6%		52.6%		51.0%	
None	1.3%		2.0%		1.3%		0.7%		1.3%		17.1%		15.1%		15.0%		11.7%		14.7%	

Table A1. Percent of PDMs and SDMs participating in various farm activities during the last 12 months by profit quartile.

			Pri	mary [Decision	Maker	(n=3,51	6)					Sec	ondary	/ Decisio	n Make	er (n=2,18	89)		
	Q	1	Q	2	Q	3	Q	4	То	tal	Q	1	Q	2	Q	3	Q4	ŀ	Tot	al
Variable	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ²	Value	Sig ¹	Value	Sig ¹
Self	94.3%	а	96.6%	ab	96.8%	b	96.7%	ab	96.1%	**	75.2%		74.4%		74.3%		71.4%		73.7%	
Spouse	44.4%	bc	38.5%	ab	45.0%	С	36.2%	а	41.0%	***	90.2%		89.9%		90.3%		93.0%		90.9%	
Other HH member ²	4.3%	а	8.6%		3.1%	а	3.7%	а	4.9%	***	3.1%	ab	2.7%	ab	4.7%	b	1.3%	а	2.9%	***
Non-HH member ²	1.7%	ab	0.7%	а	0.7%	а	2.1%	b	1.3%	**	0.4%		0.4%		0.5%		0.3%		0.4%	

Table A2. Percent of PDMs and SDMs are reporting on who normally makes the decision, by profit quartile.

 $\frac{\text{member}^2}{\text{1Sig} = \text{Significance}; ^2\text{HH} = \text{Household}; * p < 0.1, ** p < 0.05 \text{ and } *** p < 0.01 \text{ indicate significance at the 10\%, 5\% and 1\% levels, respectively. Pairwise comparisons were performed for continuous and binary variables using Tukey tests when the ANOVA test was trending towards significant (p < 0.1). Quartiles with the same letter are not significantly different at the 5\% level (p > 0.05).$

	Primary Decision Maker (n=600)												Sec	ondar	y Decisi	on Mak	er (n=56	63)		
	Q	1	Q	2	Q	3	Q	4	Tot	al	Q	1	Q	2	Q	3	Q	4	Tot	al
Variable	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹
Food crop																				
farming																				
Self	8.7%		9.3%		8.0%		10.7%		9.2%		5.7%		8.6%		7.5%		8.0%		7.5%	
Spouse	6.0%		6.7%		5.3%		6.0%		6.0%		7.1%		10.1%		7.5%		7.3%		8.0%	
Other HH																				
member ²	0.7%		0.0%		0.0%		0.0%		0.2%		0.0%		0.7%		0.0%		0.0%		0.2%	
Non-HH	a a a a a a a a a a						• • • <i>i</i>						• • • • /							
member ²	0.0%		0.0%		0.0%		0.7%		0.2%		0.0%		0.0%		0.0%		0.0%		0.0%	
Cash crop																				
tarming	05 00/		20.00/		00.00/		00.00/		00.00/		40.00/				4 5 00/		44.00/		44.00/	
Self	25.3%	а	32.0%	а	23.3%	а	23.3%	9	26.0%		13.6%		16.5%		15.0%		14.6%		14.9%	
Spouse Other UU	10.0%	a	14.0%	a	13.3%	a	11.3%	a	12.2%		17.9%		22.3%		15.6%		20.4%		19.0%	
	2.00/		1 20/		0.00/		0 70/		1 50/		0.00/		1 10/		0.70/		0.00/		0 50/	
	2.0%		1.3%		0.0%		2.170		1.5%		0.0%		1.470		0.7%		0.0%		0.5%	
NUII-ПП member ²	0.0%		0.0%		1 30/		0.7%		0.5%		0.0%		0.0%		1 /0/		0.0%		0.4%	
l ivestock raising	0.076		0.076		1.570		0.7 /0		0.576		0.076		0.076		1.470		0.070		0.470	
Solf	14 0%		67%		7 3%		8 7%		9.2%		5.0%		3.6%		4 8%		6.6%		5.0%	
Spouse	10.0%	а	4.0%	а	4.0%	а	6.0%	а	6.0%	*	5.7%		3.6%		6.1%		8.8%		6.0%	
Other HH	10.070		1.070		1.070		0.070		0.070		0.1 /0		0.070		0.170		0.070		0.070	
member ²	0.0%		0.7%		0.0%		0.0%		0.2%		0.0%		0.7%		0.0%		0.0%		0.2%	
Non-HH	0.070		0,0		01070		01070		0.270		0.070		0 /0		0.070		01070		0.270	
member ²	0.7%		0.0%		0.0%		0.0%		0.2%		0.0%		0.0%		0.0%		0.0%		0.0%	
Dairy business																				
(general)																				
Self	88.7%		90.0%		91.3%		92.0%		90.5%		56.4%		61.2%		58.5%		54.0%		57.5%	
Spouse	56.7%		50.0%		53.3%		46.0%		51.5%		67.9%		73.4%		72.1%		73.7%		71.8%	
Other HH																				
member ²	4.0%		8.0%		2.7%		3.3%		4.5%		2.9%		2.2%		2.0%		2.9%		2.5%	
Non-HH																				
member ²	1.3%		1.3%		0.7%		2.7%		1.5%		0.7%		0.0%		0.7%		0.0%		0.4%	
Selling and																				
buying dairy																				
COWS																				
Self	68.7%		70.0%		70.0%		64.0%		68.2%		39.3%		43.2%		45.6%		44.5%		43.2%	
Spouse	47.3%	ab	42.7%	ab	52.0%	b	36.0%	а	44.5%	**	45.7%		51.1%		50.3%		43.8%		47.8%	
Other HH	4.000	ch	7.00/	h	0 70/	ch	4 00/	-	0.00/	÷-	0 70/		4 407		4 407		4 504		4 60/	
member ²	4.0%	an	7.3%	U	2.7%	au	1.3%	a	3.8%	~ ~	0.7%		1.4%		1.4%		1.5%		1.2%	
NON-HH	4 00/		0 70/		4 00/		0 70/		4 00/		0.70/		0.00/		4 40/		0.00/		0.50/	
inemper	1.3%		0.7%		1.3%		0.1%		1.0%		0.1%		0.0%		1.4%		0.0%		0.5%	

Table A3. Percent of PDMs and SDMs re	porting on who normally	v makes the decisions re	aarding various farr	n activities. by district.
			g	······································

		Primary Decision Maker (n=600)											Sec	ondar	y Decisio	on Mak	ker (n=56	3)		
	Q	1	Q	2	Q	3	Q	4	Tot	al	Q	1	Q	2	Q	3	Q	4	Tot	al
Variable	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹
Kinds and quantity of forages																				
Salf	88.0%		03 3%		02 0%		90.7%		Q1 0%		38.6%		38.8%		36 1%		35.8%		37 3%	
Spouse Other HH	24.7%		21.3%		28.0%		22.0%		24.0%		49.3%	а	63.3%	а	58.5%	а	51.1%	а	55.6%	*
member ² Non-HH	4.0%	а	10.0%	а	4.0%	а	4.7%	а	5.7%	*	2.9%		1.4%		2.7%		1.5%		2.1%	
<i>member</i> ² Kinds and	1.3%		0.7%		0.0%		2.7%		1.2%		0.7%		0.0%		0.0%		0.0%		0.2%	
quantity of concentrates																				
Self	87.3%		92.7%		90.0%		87.3%		89.3%		40.0%		38.1%		37.4%		36.5%		38.0%	
Spouse Other HH	27.3%		26.0%		29.3%		21.3%		26.0%		44.3%		48.9%		51.0%		46.0%		47.6%	
member² Non-HH	3.3%	ab	8.0%	b	2.0%	а	3.3%	ab	4.2%	*	2.1%		0.7%		1.4%		1.5%		1.4%	
member ²	2.0%		0.7%		0.0%		2.7%		1.3%		0.0%		0.7%		0.0%		0.0%		0.2%	
Herd health																				
Self	89.3%		92.7%		90.0%		92.0%		91.0%		47.1%		46.0%		46.3%		40.9%		45.1%	
Spouse Other HH	39.3%		32.7%		41.3%		30.7%		36.0%		51.4%		55.4%		56.5%		48.9%		53.1%	
member² Non-HH	3.3%		8.0%		3.3%		3.3%		4.5%		0.7%		1.4%		2.0%		1.5%		1.4%	
<i>member</i> ² Milk marketing	0.7%		0.7%		0.0%		1.3%		0.7%		0.0%		0.0%		0.0%		0.0%		0.0%	
Self	81.3%	b	90.0%	ab	92.0%	а	92.0%	а	88.8%	***	38.6%		38.8%		35.4%		40.1%		38.2%	
Spouse Other HH	38.0%		32.7%		35.3%		30.7%		34.2%		40.0%		48.2%		42.9%		47.4%		44.6%	
member ² Non-HH	4.0%		8.0%		3.3%		2.7%		4.5%		1.4%		1.4%		2.0%		2.2%		1.8%	
member ²	2.7%		0.0%		0.7%		0.7%		1.0%		0.0%		0.0%		0.0%		0.0%		0.0%	

		Primary	Decisio	n Maker	(PDM)		S	Secondar	ry Decisi	on Make	r (SDM)	
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Food crop farming (PDM=38) (SDM = 46)												
No input	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	6.7%	0.0%	10.0%	4.4%	
Input in few decisions	0.0%	0.0%	12.5%	10.0%	5.3%		40.0%	26.7%	27.3%	50.0%	34.8%	
Input in some decisions	50.0%	50.0%	62.5%	20.0%	44.7%		40.0%	46.7%	54.6%	40.0%	45.7%	
Input into most or all decisions	50.0%	50.0%	25.0%	70.0%	50.0%		20.0%	20.0%	18.2%	0.0%	15.2%	
Cash crop farming (PDM=81) (SDM=110)												
No input	5.9%	0.0%	0.0%	10.0%	3.7%		4.0%	15.2%	0.0%	3.6%	6.4%	
Input in few decisions	5.9%	17.4%	9.5%	15.0%	12.4%		52.0%	36.4%	37.5%	46.4%	42.7%	
Input in some decisions	35.3%	69.6%	52.4%	35.0%	49.4%		36.0%	39.4%	54.2%	46.4%	43.6%	
Input into most or all decisions	52.9%	13.0%	38.1%	40.0%	34.6%		8.0%	9.1%	8.3%	3.6%	7.3%	
Livestock raising (cattle, buffalo, horses, etc.) (PDM=37) (SDM=34)												
No input	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	
Input in few decisions	12.5%	16.7%	16.7%	0.0%	10.8%		0.0%	0.0%	0.0%	16.7%	5.9%	
Input in some decisions	43.8%	66.7%	33.3%	44.4%	46.0%		62.5%	40.0%	55.6%	50.0%	52.9%	
Input into most or all decisions	43.8%	16.7%	50.0%	55.6%	43.2%		37.5%	60.0%	44.4%	33.3%	41.2%	
Dairy farming (general) (PDM = 334) (SDM=408)												
No input	1.1%	1.2%	0.0%	0.0%	0.6%		2.0%	4.9%	3.8%	7.8%	4.7%	
Input in few decisions	14.4%	9.3%	12.2%	11.8%	12.0%		38.8%	36.3%	43.4%	42.2%	40.2%	
Input in some decisions	33.3%	57.0%	48.8%	44.7%	45.8%		46.9%	47.1%	46.2%	44.1%	46.1%	
Input into most or all decisions	51.1%	32.6%	39.0%	43.4%	41.6%		12.2%	11.8%	6.6%	5.9%	9.1%	
Selling and buying dairy cows (PDM = 283) (SDM=271)												
No input	1.3%	1.4%	0.0%	0.0%	0.7%		6.2%	2.8%	1.4%	0.0%	2.6%	
Input in few decisions	10.7%	5.5%	10.1%	7.1%	8.5%		27.7%	21.1%	36.5%	34.4%	29.9%	
Input in some decisions	46.7%	64.4%	53.2%	51.8%	54.1%		49.2%	66.2%	50.0%	54.1%	55.0%	
Input into most or all decisions	41.3%	28.8%	36.7%	41.1%	36.8%		16.9%	9.9%	12.2%	11.5%	12.6%	
Kinds and quantity of forages (PDM = 177) (SDM=319)												
No input	4.4%	4.4%	2.3%	4.7%	4.0%		11.1%	18.0%	11.6%	18.1%	14.7%	
Input in few decisions	6.7%	11.1%	6.8%	7.0%	7.9%		41.7%	40.5%	43.0%	33.3%	39.8%	
Input in some decisions	46.7%	57.8%	65.9%	53.5%	55.9%		41.7%	36.0%	37.2%	41.7%	38.9%	
Input into most or all decisions	42.2%	26.7%	25.0%	34.9%	32.2%		5.6%	5.6%	8.1%	6.9%	6.6%	
Kinds and quantity of concentrates (PDM = 183) (SDM=272)												
No input	6.1%	2.0%	4.4%	10.0%	5.5%		10.9%	17.7%	14.7%	15.4%	14.7%	
Input in few decisions	24.5%	14.3%	8.9%	12.5%	15.3%		43.8%	35.3%	40.0%	21.5%	35.3%	
Input in some decisions	42.9%	61.2%	66.7%	57.5%	56.8%		35.9%	39.7%	38.7%	56.9%	42.7%	
Input into most or all decisions	26.5%	22.5%	20.0%	20.0%	22.4%		9.4%	7.4%	6.7%	6.2%	7.4%	

Table A4. Percent of PDMs and SDMs reporting on how much input they have in making decisions on various farm activities, by profit quartile.

		Primary	Decisio	n Maker		5	Secondai	ry Decisi	on Make	r (SDM)		
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Herd health (PDM = 240) (SDM=301)												
No input	1.6%	1.7%	3.1%	1.9%	2.1%		1.4%	1.3%	4.8%	10.1%	4.3%	
Input in few decisions	12.5%	6.8%	9.4%	3.8%	8.3%		34.7%	36.4%	37.4%	29.0%	34.6%	
Input in some decisions	43.8%	64.4%	57.8%	60.4%	56.3%		51.4%	50.7%	45.8%	52.2%	49.8%	
Input into most or all decisions	42.2%	27.1%	29.7%	34.0%	33.3%		12.5%	11.7%	12.1%	8.7%	11.3%	
Milk marketing (PDM = 226) (SDM=256)												
No input	6.2%	1.8%	3.7%	0.0%	3.1%		5.2%	13.4%	15.9%	10.3%	11.3%	
Input in few decisions	13.9%	19.3%	13.0%	8.0%	13.7%		39.7%	38.8%	30.2%	27.9%	34.0%	
Input in some decisions	50.8%	57.9%	63.0%	68.0%	59.3%		41.4%	40.3%	46.0%	55.9%	46.1%	
Input into most or all decisions	29.2%	21.1%	20.4%	24.0%	23.9%		13.8%	7.5%	7.9%	5.9%	8.6%	

		Primary	Decisio	n Maker		S	econdar	y Decisi	on Make	r (SDM)		
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Food crop farming (PDM=38) (SDM = 46)												
Not at all	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	6.7%	0.0%	0.0%	2.2%	
Small extent	0.0%	0.0%	12.5%	10.0%	5.3%		30.0%	26.7%	27.3%	30.0%	28.3%	
Medium extent	30.0%	60.0%	37.5%	30.0%	39.5%		60.0%	40.0%	54.6%	70.0%	54.4%	
High extent	70.0%	40.0%	50.0%	60.0%	55.3%		10.0%	26.7%	18.2%	0.0%	15.2%	
Cash crop farming (PDM=81) (SDM=110)												
Not at all	5.9%	8.7%	0.0%	5.0%	4.9%		4.0%	21.2%	0.0%	7.1%	9.1%	
Small extent	5.9%	21.7%	19.1%	15.0%	16.1%		44.0%	39.4%	45.8%	42.9%	42.7%	
Medium extent	41.2%	34.8%	42.9%	55.0%	43.2%		36.0%	36.4%	41.7%	46.4%	40.0%	
High extent	47.1%	34.8%	38.1%	25.0%	35.8%		16.0%	3.0%	12.5%	3.6%	8.2%	
Livestock raising (cattle, buffalo, horses, etc.) (PDM=37) (SDM=34)												
Not at all	0.0%	16.7%	0.0%	11.1%	5.4%		0.0%	20.0%	0.0%	8.3%	5.9%	
Small extent	18.8%	16.7%	16.7%	0.0%	13.5%		62.5%	40.0%	66.7%	50.0%	55.9%	
Medium extent	37.5%	33.3%	33.3%	33.3%	35.1%		37.5%	20.0%	33.3%	33.3%	32.4%	
High extent	43.8%	33.3%	50.0%	55.6%	46.0%		0.0%	20.0%	0.0%	8.3%	5.9%	
Dairy farming (general) (PDM = 334) (SDM=408)												
Not at all	2.2%	10.5%	6.1%	5.3%	6.0%		4.1%	11.8%	10.4%	10.8%	9.3%	
Small extent	13.3%	5.8%	13.4%	7.9%	10.2%		45.9%	40.2%	44.3%	46.1%	44.1%	
Medium extent	40.0%	45.4%	42.7%	42.1%	42.5%		37.8%	38.2%	37.7%	33.3%	36.8%	
High extent	44.4%	38.4%	37.8%	44.7%	41.3%		12.2%	9.8%	7.6%	9.8%	9.8%	
Selling and buying dairy cows (PDM = 283) (SDM=271)												
Not at all	2.7%	6.9%	6.3%	3.6%	5.0%		12.3%	15.5%	4.1%	4.9%	9.2%	
Small extent	12.0%	9.6%	5.1%	3.6%	7.8%		26.2%	25.4%	43.2%	31.2%	31.7%	
Medium extent	45.3%	49.3%	46.8%	51.8%	48.1%		50.8%	45.1%	44.6%	52.5%	48.0%	
High extent	40.0%	34.3%	41.8%	41.1%	39.2%		10.8%	14.1%	8.1%	11.5%	11.1%	
Kinds and quantity of forages (PDM = 177) (SDM=319)												
Not at all	4.4%	6.7%	2.3%	4.7%	4.5%		11.1%	23.6%	14.0%	15.3%	16.3%	
Small extent	8.9%	13.3%	13.6%	2.3%	9.6%		43.1%	36.0%	44.2%	31.9%	38.9%	
Medium extent	40.0%	46.7%	36.4%	60.5%	45.8%		36.1%	32.6%	29.1%	43.1%	34.8%	
High extent	46.7%	33.3%	47.7%	32.6%	40.1%		9.7%	7.9%	12.8%	9.7%	10.0%	
Kinds and quantity of concentrates (PDM = 183) (SDM=272)												
Not at all	8.2%	8.2%	4.4%	7.5%	7.1%		10.9%	20.6%	18.7%	15.4%	16.5%	
Small extent	20.4%	16.3%	13.3%	10.0%	15.3%		48.4%	36.8%	37.3%	32.3%	38.6%	
Medium extent	42.9%	40.8%	40.0%	60.0%	45.4%		28.1%	30.9%	30.7%	44.6%	33.5%	
High extent	28.6%	34.7%	42.2%	22.5%	32.2%		12.5%	11.8%	13.3%	7.7%	11.4%	

Table A5. Percent of PDMs and SDMs reporting on the extent of making personal decisions on various farm activities, by profit quartile.

		Primary	Decisio	n Maker		5	Secondar	ry Decisi	on Make	r (SDM)		
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Herd health (PDM = 240) (SDM=301)												
Not at all	3.1%	6.8%	4.7%	1.9%	4.2%		5.6%	7.8%	7.2%	10.1%	7.6%	
Small extent	10.9%	10.2%	10.9%	1.9%	8.8%		43.1%	37.7%	38.6%	27.5%	36.9%	
Medium extent	40.6%	52.5%	48.4%	58.5%	49.6%		40.3%	40.3%	41.0%	49.3%	42.5%	
High extent	45.3%	30.5%	35.9%	37.7%	37.5%		11.1%	14.3%	13.3%	13.0%	13.0%	
Milk marketing (PDM = 226) (SDM=256)												
Not at all	6.2%	10.5%	9.3%	0.0%	6.6%		5.2%	19.4%	17.5%	14.7%	14.5%	
Small extent	15.4%	14.0%	13.0%	6.0%	12.4%		43.1%	32.8%	28.6%	30.9%	33.6%	
Medium extent	47.7%	47.4%	51.9%	66.0%	52.7%		39.7%	35.8%	44.4%	45.6%	41.4%	
High extent	30.8%	28.1%	25.9%	28.0%	28.3%		12.1%	11.9%	9.5%	8.8%	10.6%	

Table A6. Percent of PDMs and SDMs reporting on how much input they have in decisions regarding the use of income generated from various farm activities, by profit quartile.

		Primary	Decisio	00	Secondar	y Decisi	on Make	r (SDM)				
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Food crop farming (PDM=57) (SDM = 51)												
No input	14.3%	6.7%	0.0%	0.0%	5.3%		20.0%	12.5%	0.0%	0.0%	7.8%	
Input in few decisions	21.4%	13.3%	33.3%	37.5%	26.3%		10.0%	12.5%	25.0%	7.7%	13.7%	
Input in some decisions	21.4%	40.0%	16.7%	25.0%	26.3%		50.0%	43.8%	33.3%	61.5%	47.1%	
Input into most or all decisions	42.9%	40.0%	50.0%	37.5%	42.1%		20.0%	31.3%	41.7%	30.8%	31.4%	
Cash crop farming (PDM=163) (SDM=117)												
No input	2.5%	0.0%	0.0%	2.6%	1.2%		0.0%	5.6%	0.0%	0.0%	1.7%	
Input in few decisions	17.5%	22.0%	22.9%	23.7%	21.5%		33.3%	11.1%	24.0%	13.8%	19.7%	
Input in some decisions	32.5%	38.0%	31.4%	29.0%	33.1%		48.2%	47.2%	48.0%	55.2%	49.6%	
Input into most or all decisions	47.5%	40.0%	45.7%	44.7%	44.2%		18.5%	36.1%	28.0%	31.0%	29.1%	
Livestock raising (cattle, buffalo, horses, etc.) (PDM=58) (SDM=35)												
No input	4.4%	9.1%	0.0%	0.0%	3.5%		0.0%	0.0%	0.0%	0.0%	0.0%	
Input in few decisions	30.4%	45.5%	0.0%	15.4%	24.1%		22.2%	0.0%	44.4%	25.0%	25.7%	
Input in some decisions	17.4%	0.0%	27.3%	30.8%	19.0%		44.4%	40.0%	44.4%	50.0%	45.7%	
Input into most or all decisions	47.8%	45.5%	72.7%	53.9%	53.5%		33.3%	60.0%	11.1%	25.0%	28.5%	
Dairy farming (general) (PDM = 566) (SDM=428)												
No input	0.7%	1.4%	1.4%	4.2%	1.9%		1.0%	0.0%	1.8%	5.7%	2.1%	
Input in few decisions	23.0%	24.5%	24.1%	21.7%	23.3%		20.4%	13.6%	19.1%	18.1%	17.8%	
Input in some decisions	35.3%	34.3%	39.0%	34.3%	35.7%		39.8%	47.3%	49.1%	41.9%	44.6%	
Input into most or all decisions	41.0%	39.9%	35.5%	39.9%	39.1%		38.8%	39.1%	30.0%	34.3%	35.5%	
Selling and buying dairy cows (PDM = 426) (SDM=281)												
No input	2.7%	2.7%	3.7%	3.1%	3.1%		4.4%	0.0%	2.7%	1.5%	2.1%	
Input in few decisions	16.4%	16.2%	18.7%	18.4%	17.4%		11.6%	8.2%	17.6%	16.9%	13.5%	
Input in some decisions	33.6%	43.2%	43.0%	41.8%	40.4%		55.1%	63.0%	59.5%	43.1%	55.5%	
Input into most or all decisions	47.3%	37.8%	34.6%	36.7%	39.2%		29.0%	28.8%	20.3%	38.5%	28.8%	
Kinds and quantity of forages (PDM = 566) (SDM=344)												
No input	13.0%	10.6%	15.5%	16.1%	13.8%		23.8%	35.1%	30.7%	29.1%	29.9%	
Input in few decisions	6.5%	7.8%	7.0%	7.0%	7.1%		25.0%	19.6%	26.1%	20.3%	22.7%	
Input in some decisions	20.9%	20.4%	18.3%	16.1%	18.9%		38.8%	29.9%	31.8%	32.9%	33.1%	
Input into most or all decisions	59.7%	61.3%	59.2%	60.8%	60.3%		12.5%	15.5%	11.4%	17.7%	14.2%	
Kinds and quantity of concentrates (PDM = 558) (SDM=320)												
No input	14.5%	12.1%	17.0%	16.7%	15.1%		19.0%	22.6%	29.8%	23.3%	23.8%	
Input in few decisions	10.1%	12.8%	6.4%	10.1%	9.9%		31.7%	21.4%	23.8%	17.8%	23.8%	
Input in some decisions	21.0%	17.0%	17.7%	18.1%	18.5%		27.9%	33.3%	29.8%	32.9%	30.9%	
Input into most or all decisions	54.4%	58.2%	58.9%	55.1%	56.6%		21.5%	22.6%	16.7%	26.0%	21.6%	

		Primary	Decisio	n Maker		5	Secondai	ry Decisi	on Make	r (SDM)		
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Herd health (PDM = 566) (SDM=326)												
No input	11.5%	12.7%	16.1%	14.1%	13.6%		13.8%	17.4%	16.1%	24.7%	17.8%	
Input in few decisions	10.8%	8.5%	7.7%	7.8%	8.7%		25.0%	20.9%	25.3%	16.4%	22.1%	
Input in some decisions	23.0%	26.1%	25.2%	23.9%	24.6%		42.5%	39.5%	42.5%	42.5%	41.7%	
Input into most or all decisions	54.7%	52.8%	51.1%	54.2%	53.2%		18.8%	22.1%	16.1%	16.4%	18.4%	
Milk marketing (PDM = 556) (SDM=287)												
No input	0.4%	0.4%	0.2%	0.5%	0.4%		1.5%	2.6%	4.3%	2.8%	2.8%	
Input in few decisions	2.2%	2.1%	2.0%	1.5%	2.0%		14.5%	15.8%	18.6%	11.1%	15.0%	
Input in some decisions	2.8%	2.5%	2.9%	3.0%	2.8%		39.1%	44.7%	38.6%	40.3%	40.8%	
Input into most or all decisions	4.5%	4.9%	4.9%	5.0%	4.8%		44.9%	36.8%	38.6%	45.8%	41.5%	

			Pri	mary I	Decision	Maker	(n=600)						Sec	ondary	Decisio	n Mak	er (n=563	3)		
	Q	1	Q2		Q3	3	Q4	4	Tot	al	Q1	1	Q2		Q	3	Q4	Ĺ	Tot	tal
Variable	Value	Sig ¹																		
Agricultural land	55.3%	b	43.3%	ab	37.3%	а	50.7%	ab	46.7%	***	53.6%	b	46.8%	ab	36.7%	а	46.0%	ab	45.6%	**
Large livestock Small livestock	94.7% 6.7%		94.7% 4.7%		93.3% 2.7%		93.3% 6.0%		94.0% 5.0%		92.9% 7.9%		94.2% 3.6%		93.9% 2.7%		92.7% 7.3%		93.4% 5.3%	
Poultry Fish pond or	24.0%	а	28.7%	а	25.3%	а	16.7%	а	23.7%	*	24.3%		26.6%		25.2%		19.0%		23.8%	
fishing equipment Farm	5.3%		6.7%		2.0%		4.7%		4.7%		4.3%		6.5%		2.0%		5.1%		4.4%	
equipment (non- mechanised) Farm	83.3%		76.7%		77.3%		78.0%		78.8%		76.4%		74.8%		72.8%		77.4%		75.3%	
equipment (mechanised) Non-farm	4.7%		2.7%		2.7%		3.3%		3.3%		6.4%		2.9%		2.0%		4.4%		3.9%	
business equipment	14.7%		12.0%		14.0%		8.7%		12.3%		16.4%		12.2%		15.0%		8.8%		13.1%	
House or other structures Large	90.7%		90.0%		90.7%		88.0%		89.8%		90.7%		87.8%		90.5%		88.3%		89.3%	
consumer durables Small	98.0%		100.0%		98.7%		99.3%		99.0%		97.9%		100.0%		98.0%		99.3%		98.8%	
consumer durables	98.7%		98.0%		96.0%		95.3%		97.0%		99.3%		97.8%		95.2%		97.8%		97.5%	
Mobile phones Other land not	88.0%		86.7%		84.7%		84.7%		86.0%		87.1%		87.1%		81.0%		83.9%		84.7%	
used for agricultural purposes	14.7%		16.0%		20.0%		16.7%		16.8%		15.0%		16.5%		17.7%		15.3%		16.2%	
Means of transportation	86.0%		83.3%		80.0%		80.7%		82.5%		87.1%		84.2%		76.9%		82.5%		82.6%	
None	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		1.4%		0.0%		0.4%	

Table A7. Percent of PDMs and SDMs who own various assets that could be used to generate income, by profit quartiles.

able A8. Percent of PDMs and SDMs	reporting on overall sol	le or joint ownership of as	sets, by profit quartiles.
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		Primary D	Decision Ma	ker (n=4,43	8)		Secondary Decision Maker (n=4,133)							
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹		
Do you own any of the items that could														
be used to generate income?														
No	14.2%	12.8%	11.3%	12.6%	12.8%	**	14.6%	16.2%	12.3%	13.5%	14.2%			
Yes, solely	21.8%	21.2%	18.6%	23.4%	21.3%	**	10.9%	10.9%	11.4%	11.2%	11.1%			
Yes, jointly	64.0%	66.0%	70.1%	64.0%	66.0%	**	74.5%	72.8%	76.3%	75.3%	74.7%			

		Primar	y Decision	Maker (PDN		Seconda	ary Decisior	n Maker (SI	OM)			
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Agricultural land (PDM=280) (SDM=257)												
No	4.8%	12.3%	5.4%	11.8%	8.6%	*	9.3%	12.3%	14.8%	12.7%	12.1%	
Yes, solely	25.3%	21.5%	17.9%	34.2%	25.4%	*	6.7%	4.6%	3.7%	6.4%	5.5%	
Yes, jointly	69.9%	66.2%	76.8%	54.0%	66.1%	*	84.0%	83.1%	81.5%	81.0%	82.5%	
Large livestock (PDM=564) (SDM=526)												
No	3.5%	2.1%	3.6%	2.1%	2.8%		6.9%	7.6%	7.3%	10.2%	8.0%	
Yes, solely	17.6%	18.3%	17.9%	22.9%	19.2%		1.5%	0.0%	0.0%	0.8%	0.6%	
Yes, jointly	78.9%	79.6%	78.6%	75.0%	78.0%		91.5%	92.4%	92.8%	89.0%	91.4%	
Small livestock (PDM=30) (SDM=30)												
No	10.0%	0.0%	0.0%	0.0%	3.3%		9.1%	0.0%	25.0%	10.0%	10.0%	
Yes, solely	10.0%	28.6%	50.0%	11.1%	20.0%		0.0%	0.0%	0.0%	0.0%	0.0%	
Yes, jointly	80.0%	71.4%	50.0%	88.9%	76.7%		90.9%	100.0%	75.0%	90.0%	90.0%	
Poultry (PDM=142) (SDM=134)												
No	22.2%	7.0%	10.5%	20.0%	14.1%		14.7%	13.5%	16.2%	7.7%	13.4%	
Yes, solely	11.1%	18.6%	21.1%	12.0%	16.2%		14.7%	10.8%	5.4%	15.4%	11.2%	
Yes, jointly	66.7%	74.4%	68.4%	68.0%	69.7%		70.6%	75.7%	78.4%	76.9%	75.4%	
Fish pond or fishing equipment												
(PDM=28) (SDM=25)												
No	0.0%	0.0%	0.0%	0.0%	0.0%		16.7%	0.0%	0.0%	28.6%	12.0%	
Yes, solely	0.0%	10.0%	0.0%	0.0%	3.6%		0.0%	0.0%	0.0%	0.0%	0.0%	
Yes, jointly	100.0%	90.0%	100.0%	100.0%	96.4%		83.3%	100.0%	100.0%	71.4%	88.0%	
Farm equipment (non-mechanised) (PDM=473) (SDM=424)												
No	0.8%	0.9%	1.7%	1.7%	1.3%		26.2%	26.9%	23.4%	25.5%	25.5%	
Yes. solely	47.2%	39.1%	37.9%	44.4%	42.3%		4.7%	3.9%	1.9%	2.8%	3.3%	
Yes. jointly	52.0%	60.0%	60.3%	53.9%	56.5%		69.2%	69.2%	74.8%	71.7%	71.2%	
Farm equipment (mechanised) (PDM=20) (SDM=22)												
No	0.0%	0.0%	0.0%	0.0%	0.0%		11.1%	25.0%	33.3%	33.3%	22.7%	
Yes, solely	28.6%	75.0%	50.0%	80.0%	55.0%		11.1%	0.0%	0.0%	0.0%	4.6%	
Yes, jointly	71.4%	25.0%	50.0%	20.0%	45.0%		77.8%	75.0%	66.7%	66.7%	72.7%	
Non-farm business equipment (PDM=74)												
(SDM=74)												
No	13.6%	11.1%	4.8%	7.7%	9.5%		30.4%	29.4%	31.8%	25.0%	29.7%	
Yes, solely	27.3%	38.9%	42.9%	23.1%	33.8%		13.0%	23.5%	4.6%	16.7%	13.5%	
Yes, jointly	59.1%	50.0%	52.4%	69.2%	56.8%		56.5%	47.1%	63.6%	58.3%	56.8%	-

Table A9. Percent of PDMs and SDMs reporting sole or joint ownership of various assets, by profit quartiles.

		Primar	y Decision	Maker (PDI	M)			Secondary Decision Maker (SDM) Q2 Q3 Q4 Total Si 4.1% 6.0% 6.6% 5.4%						
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹		
House or other structures (PDM=539)														
(SDM=503)														
No	9.6%	5.9%	5.9%	6.8%	7.1%		4.7%	4.1%	6.0%	6.6%	5.4%			
Yes, solely	11.8%	13.3%	7.4%	15.9%	12.1%		9.5%	4.9%	3.0%	5.8%	5.8%			
Yes, jointly	78.7%	80.7%	86.8%	77.3%	80.9%		85.8%	91.0%	91.0%	87.6%	88.9%			
Large consumer durables (PDM=594) (SDM=556)														
No	13.6%	10.7%	8.8%	11.4%	11.1%		1.5%	0.0%	2.1%	1.5%	1.3%			
Yes, solely	8.8%	6.7%	4.1%	8.7%	7.1%		11.0%	10.1%	8.3%	11.0%	10.1%			
Yes. iointly	77.6%	82.7%	87.2%	79.9%	81.8%		87.6%	89.9%	89.6%	87.5%	88.7%			
Small consumer durables (PDM=582)														
(SDM=549)														
No	31.1%	25.2%	25.0%	23.1%	26.1%		0.0%	0.0%	0.7%	0.0%	0.2%			
Yes, solelv	6.8%	5.4%	2.8%	7.7%	5.7%		31.7%	30.2%	20.7%	31.3%	28.4%			
Yes. iointly	62.2%	69.4%	72.2%	69.2%	68.2%		68.4%	69.9%	78.6%	68.7%	71.4%			
Mobile phones (PDM=516) (SDM=477)														
No	34.1%	35.4%	30.7%	31.5%	33.0%		37.7%	39.7%	34.5%	29.6%	35.4%	*		
Yes, solelv	40.2%	37.7%	34.7%	36.2%	37.2%		37.7%	28.9%	25.2%	31.3%	30.8%	*		
Yes, jointly	25.8%	26.9%	34.7%	32.3%	29.8%		24.6%	31.4%	40.3%	39.1%	33.7%	*		
Other land not used for agricultural														
purposes (PDM=101) (SDM=91)														
No	4.6%	4.2%	13.3%	12.0%	8.9%		0.0%	13.0%	11.5%	14.3%	9.9%			
Yes, solely	18.2%	33.3%	13.3%	28.0%	22.8%		0.0%	0.0%	3.9%	9.5%	3.3%			
Yes, jointly	77.3%	62.5%	73.3%	60.0%	68.3%		100.0%	87.0%	84.6%	76.2%	86.8%			
Means of transportation (PDM=495)														
(SDM=465)														
No	12.4%	14.4%	6.7%	12.4%	11.5%		30.3%	29.9%	26.6%	33.6%	30.1%			
Yes, solely	27.9%	29.6%	28.3%	29.8%	28.9%		1.6%	2.6%	2.7%	2.7%	2.4%			
Yes, jointly	59.7%	56.0%	65.0%	57.9%	59.6%		68.0%	67.5%	70.8%	63.7%	67.5%			

		Prim	nary Decisio	n Maker (n=	=600)			Seco	ndary Decis	ion Maker (r	າ=563)	
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Dairy cooperative	32.0%	37.3%	36.0%	39.3%	36.2%		31.4%	36.7%	36.7%	38.7%	35.9%	
Formal lender												
(bank/financial	23.3%	19.3%	24.0%	16.0%	20.7%		24.3%	20.1%	24.5%	17.5%	21.7%	
institution)												
Informal lender	0.0%	0.7%	0.7%	0.0%	0.3%		0.0%	0.7%	0.0%	0.0%	0.2%	
Friends/relatives	8.0%	3 3%	7 3%	6.0%	6.2%		9.3%	3.6%	6.8%	5.8%	6 4%	
(charging zero interest)	0.070	0.070	1.570	0.070	0.270		0.070	0.070	0.070	0.070	0.470	
Union	0.0%	0.0%	0.7%	0.0%	0.2%		0.0%	0.0%	0.7%	0.0%	0.2%	
Informal savings and	0.0%	0.0%	1 3%	0.0%	0.3%		0.0%	0.0%	1 1%	0.0%	0.4%	
credit groups	0.070	0.070	1.570	0.070	0.570		0.078	0.070	1.470	0.070	0.470	
Non-government	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	
organisation	0.070	0.070	0.070	0.070	0.070		0.070	0.070	0.070	0.070	0.070	
Other	0.0%	0.7%	0.7%	1.3%	0.7%		0.0%	0.7%	0.7%	1.5%	0.7%	
None	37.3%	40.0%	34.0%	38.7%	37.5%		0.0%	0.0%	0.0%	0.0%	0.0%	
Don't know	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.7%	0.0%	0.0%	0.2%	

Table A10. Percent of PDMs and SDMs who had a loan in the last 12 months from various sources, by profit quartiles.

		Primary	/ Decisior	n Maker (F		Seconda	ry Decisio	ion Maker (SDM) 04 Total Sig ¹							
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹			
Dairy cooperative (PDM=217) (SDM=202)															
Cash	93.8%	100.0%	98.2%	98.3%	97.7%		95.5%	100.0%	98.2%	98.1%	98.0%				
In-kind	6.3%	0.0%	0.0%	0.0%	1.4%		4.6%	0.0%	0.0%	0.0%	1.0%				
Cash and in-kind	0.0%	0.0%	1.9%	1.7%	0.9%		0.0%	0.0%	1.9%	1.9%	1.0%				
Formal lender (bank/financial institution) (PDM=124)															
(SDM=122)															
Cash	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	100.0%	100.0%	100.0%	100.0%				
In-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Cash and in-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Informal lender (PDM=2) (SDM=1)															
Cash	0.0%	100.0%	100.0%	0.0%	100.0%		0.0%	100.0%	0.0%	0.0%	0.0%				
In-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Cash and in-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Friends/relatives (charging zero interest) (PDM=37)															
(SDM=36)															
Cash	91.7%	80.0%	81.8%	88.9%	86.5%		92.3%	80.0%	80.0%	87.5%	86.1%				
In-kind	8.3%	20.0%	18.2%	11.1%	13.5%		7.7%	20.0%	20.0%	12.5%	13.9%				
Cash and in-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Union (PDM=1) (SDM=1)															
Cash	0.0%	0.0%	100.0%	0.0%	0.0%		0.0%	0.0%	100.0%	0.0%	0.0%				
In-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Cash and in-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Informal savings and credit groups (PDM=2) (SDM=2)															
Cash	0.0%	0.0%	100.0%	0.0%	0.0%		0.0%	0.0%	100.0%	0.0%	0.0%				
In-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Cash and in-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				
Other (PDM=19) (SDM=20)															
Cash	100.0%	100.0%	100.0%	85.7%	94.7%		100.0%	100.0%	100.0%	85.7%	95.0%				
In-kind	0.0%	0.0%	0.0%	14.3%	5.3%		0.0%	0.0%	0.0%	14.3%	5.0%				
Cash and in-kind	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%				

Table A11. Percent of PDMs and SDMs reporting on the forms of loan taken in the last 12 months from various sources, by profit quartiles.

	Primary Decision Maker (n=402) Q1 Q2 Q3 Q4 Total Value Sig1 Value <th< th=""><th></th><th></th><th>Sec</th><th>ondar</th><th>y Decisio</th><th>on Mak</th><th>er (n=38</th><th>4)</th><th></th><th></th></th<>												Sec	ondar	y Decisio	on Mak	er (n=38	4)		
	Q	1	Q	2	Q	3	Q	4	Tot	tal	Q1	1	Q	2	Q	3	Q4	1	Tot	al
Variable	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹	Value	Sig ¹
Decisions to																				
borrow																				
Self	88.9%		92.6%		96.3%		96.0%		93.5%		79.5%		82.8%		86.1%		86.1%		83.9%	
Spouse	86.9%	b	72.6%	ab	82.6%	ab	69.7%	а	78.1%	***	94.0%	ab	91.9%	ab	97.0%	b	86.1%	а	92.2%	**
Other HH member ²	4.0%		5.3%		3.7%		1.0%		3.5%		3.6%		4.0%		2.0%		2.0%		2.9%	
Non-HH member ²	1.0%		0.0%		1.8%		1.0%		1.0%		0.0%		0.0%		0.0%		2.0%		0.5%	
Decisions																				
regarding																				
borrowed funds																				
Self	84.8%		84.2%		89.9%		87.9%		86.8%		79.5%		87.9%		87.1%		86.1%		86.4%	
Spouse	79.8%		76.8%		85.3%		77.8%		80.1%		89.2%		89.9%		90.1%		81.2%		87.5%	
Other HH member ²	4.0%		5.3%		1.8%		1.0%		3.0%		3.6%		4.0%		1.0%		2.0%		2.6%	
Non-HH member ²	1.0%		0.0%		1.8%		1.0%		1.0%		1.2%		0.0%		0.0%		2.0%		0.8%	

Table A12. Percent of PDMs and SDMs reporting on decision making on borrowing funds, by quartiles.

		Primary	Decision Ma	aker (n=600))			Secondary	y Decision M	laker (n=56	63)	
Variable	Q1	Q2	Q3	Q4	Total	Sig ¹	Q1	Q2	Q3	Q4	Total	Sig ¹
Farmer group ²	73.3%	86.0%	86.7%	86.7%	83.2%	***	25.0%	23.0%	19.0%	22.6%	22.4%	
Youth union	7.3%	6.0%	6.7%	9.3%	7.3%		2.1%	0.0%	0.7%	2.9%	1.4%	
Forest user's group	6.0%	6.0%	7.3%	7.3%	6.7%		5.0%	5.0%	1.4%	3.6%	3.7%	
Credit, microfinance, and insurance group	2.7%	3.3%	1.3%	1.3%	2.2%		7.1%	3.6%	4.1%	3.6%	4.6%	
Trade and business association group	2.0%	0.7%	0.0%	2.0%	1.2%		1.4%	2.9%	0.7%	2.9%	2.0%	
Civic and charitable group	14.0%	10.0%	14.0%	12.0%	12.5%		12.9%	11.5%	12.2%	12.4%	12.3%	
Religious group	70.7%	66.7%	60.0%	64.7%	65.5%		77.1%	74.8%	72.1%	71.5%	73.9%	
Women's union	1.3%	2.0%	1.3%	1.3%	1.5%		25.0%	25.2%	29.9%	24.1%	26.1%	
Other	1.3%	0.7%	1.3%	0.0%	0.8%		1.4%	0.0%	0.7%	2.2%	1.1%	

Table A13. Percent of PDMs and SDMs who are members of various groups, by profit quartiles.

¹Sig = Significance; ²Includes agricultural livestock and fisheries producers groups (including marketing); * p < 0.1, ** p < 0.05 and *** p < 0.01 indicate significance at the 10%, 5% and 1% levels, respectively. Pairwise comparisons were performed for continuous and binary variables using Tukey tests when the ANOVA test was trending towards significant (p < 0.1). Quartiles with the same letter are not significantly different at the 5% level (p > 0.05).