

Supplemental File A

Demographic profiles of households, disaggregated by spouses' reported decision-making patterns, were generated via canonical discriminant analysis (Johnson and Wichern 2002) using the candisc package of R (RStudio Team 2016). For the three CSA practices (i.e. seed selection, fallow and intercropping), disagreement on decision making was not strongly associated with any of the demographics factors. For two out of the three CSA practices (seed selection and fallow), joint decision making was most strongly associated with total land holding, and to a lesser extent household size. For the consumption decisions, joint decision making was not strongly associated with any of the demographics factors. For decisions regarding food costs, individual male decision making was more strongly associated with few years of female education. Regarding decisions on child expenses, individual female decision making was more strongly associated with few years of female education. Major household purchases did not show any clearly discernible associations with any of the demographics factors.

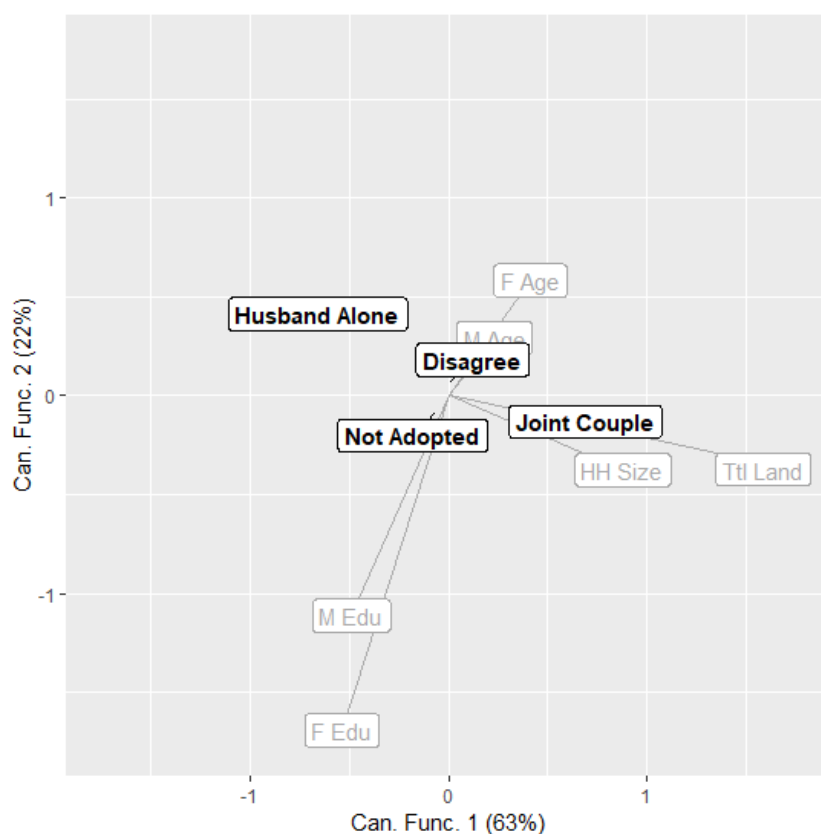


Figure 1A Canonical Discriminant Analysis: demographics and decision making for the adoption of seed selection

Table 1A Canonical Discriminant Analysis: demographics and decision making for the adoption of seed selection

Canonical Variate	Squared Canonical Correlations	Eigen Value	Difference	Percent	Cumulative
Canonical 1	0,022	0,022	0,014	63,381	63,381
Canonical 2	0,008	0,008	0,014	22,436	85,817
Canonical 3	0,005	0,005	0,014	14,183	100,000
Class means	Canonical 1	Canonical 2	Canonical 3		
Disagree	0,014	0,075	0,030		
Joint Couple	0,618	-0,060	-0,135		
Not Adopted	-0,072	-0,093	-0,011		
Male Alone	-0,657	0,411	-0,753		
Standard coefficients	Canonical 1	Canonical 2	Canonical 3		
Age of Female Spouse (years)	0,297	0,793	0,617		
Age of Male Spouse (years)	-0,505	-0,395	-1,059		
Education Female Spouse (years)	-0,242	-0,832	0,419		
Education Male Spouse (years)	-0,035	-0,031	-0,687		
Total Area of Land (acres)	0,856	-0,233	-0,413		
Household Size (number of members)	0,407	-0,328	0,692		

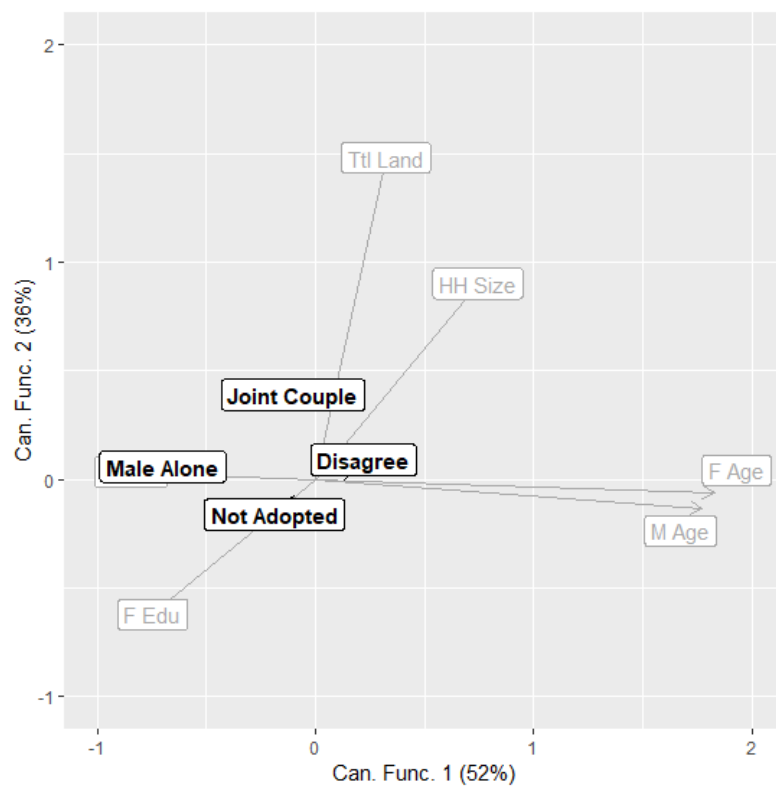


Figure 2A Canonical Discriminant Analysis: demographics and decision making for the adoption of fallow

Table 2A Canonical Discriminant Analysis: demographics and decision making for the adoption of fallow

Canonical Variate	Squared Canonical Correlations	Eigen Value	Difference	Percent	Cumulative
Canonical 1	0,020	0,021	0,006	51,569	51,569
Canonical 2	0,015	0,015	0,006	36,320	87,888
Canonical 3	0,005	0,005	0,006	12,112	100,000
Class means	Canonical 1	Canonical 2	Canonical 3		
Disagree	0,133	0,001	-0,036		
Joint Couple	-0,102	0,389	0,051		
Not Adopted	-0,101	-0,075	0,047		
Male Alone	-0,651	0,010	-0,428		
Standard coefficients	Canonical 1	Canonical 2	Canonical 3		
Age of Female Spouse (years)	0,582	0,045	0,504		
Age of Male Spouse (years)	0,373	-0,454	-0,282		
Education Female Spouse (years)	-0,283	-0,504	0,920		
Education Male Spouse (years)	-0,116	0,342	-0,246		
Total Area of Land (acres)	-0,044	0,777	0,465		
Household Size (number of members)	-0,023	0,523	-0,130		

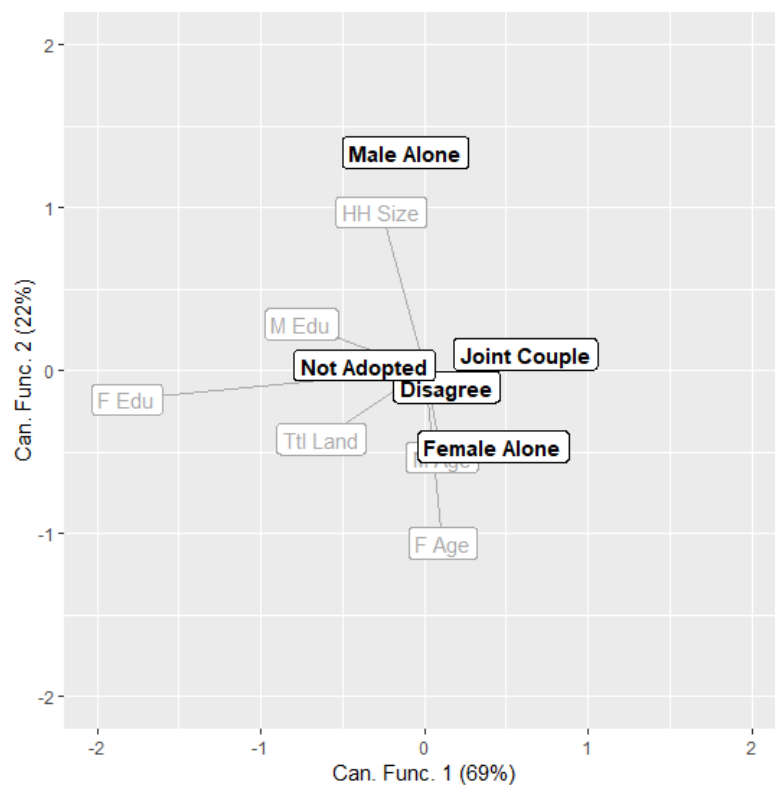


Figure 3A Canonical Discriminant Analysis: demographics and decision making for the adoption of intercropping

Table 3A Canonical Discriminant Analysis: demographics and decision making for the adoption of intercropping

Canonical Variate	Squared Canonical Correlations	Eigen Value	Difference	Percent	Cumulative
Canonical 1	0,048	0,051	0,034	69,272	69,272
Canonical 2	0,016	0,017	0,034	22,479	91,752
Canonical 3	0,005	0,005	0,034	6,258	98,009
Canonical 4	0,001	0,001	0,034	1,991	100,000
Class means	Canonical 1	Canonical 2	Canonical 3		
Disagree	-0,015	-0,016	0,030		
Joint Couple	0,518	0,019	-0,003		
Not Adopted	-0,193	-0,011	-0,029		
Sole Male Spouse	-0,116	1,339	-0,147		
Sole Female Spouse	0,421	-0,466	-0,924		
Standard coefficients	Canonical 1	Canonical 2	Canonical 3		
Age of Female Spouse (Years)	0,177	-1,363	-0,413		
Age of Male Spouse (Years)	0,044	0,637	1,012		
Education Female Spouse (Years)	-1,044	-0,147	0,301		
Education Male Spouse (Years)	0,228	0,108	-0,632		
Total Area of Land (acres)	-0,335	-0,167	-0,148		
Household Size (number of members)	-0,188	0,799	0,280		

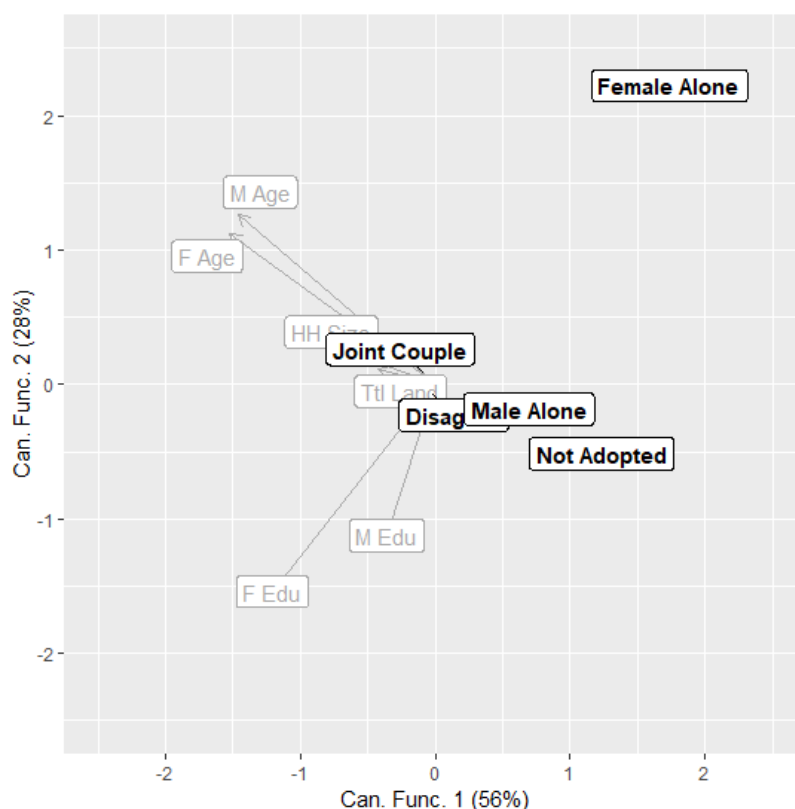


Figure 4A Canonical Discriminant Analysis: demographics and decision making for decisions on expenses for children

Table 4A Canonical Discriminant Analysis: demographics and decision making for decisions on expenses for children

Canonical Variate	Squared Canonical Correlations	Eigen Value	Difference	Percent	Cumulative
Canonical 1	0,035	0,037	0,018	55,829	55,829
Canonical 2	0,018	0,019	0,018	28,316	84,145
Canonical 3	0,009	0,010	0,018	14,604	98,749
Canonical 4	0,001	0,001	0,018	1,251	100,000
Class means	Canonical 1	Canonical 2	Canonical 3		
Disagree	-0,015	-0,075	-0,041		
Joint Couple	-0,095	0,096	0,029		
None	1,228	-0,510	-1,520		
Sole Male Spouse	0,553	-0,088	0,178		
Sole Female Spouse	1,740	2,224	-0,683		
Standard coefficients	Canonical 1	Canonical 2	Canonical 3		
Age of Female Spouse (Years)	-0,487	0,071	-1,079		
Age of Male Spouse (Years)	-0,322	0,628	0,749		
Education Female Spouse (Years)	-0,676	-0,712	-0,096		
Education Male Spouse (Years)	0,078	-0,066	0,096		
Total Area of Land (acres)	-0,053	-0,075	0,199		
Household Size (number of members)	0,027	-0,189	0,911		

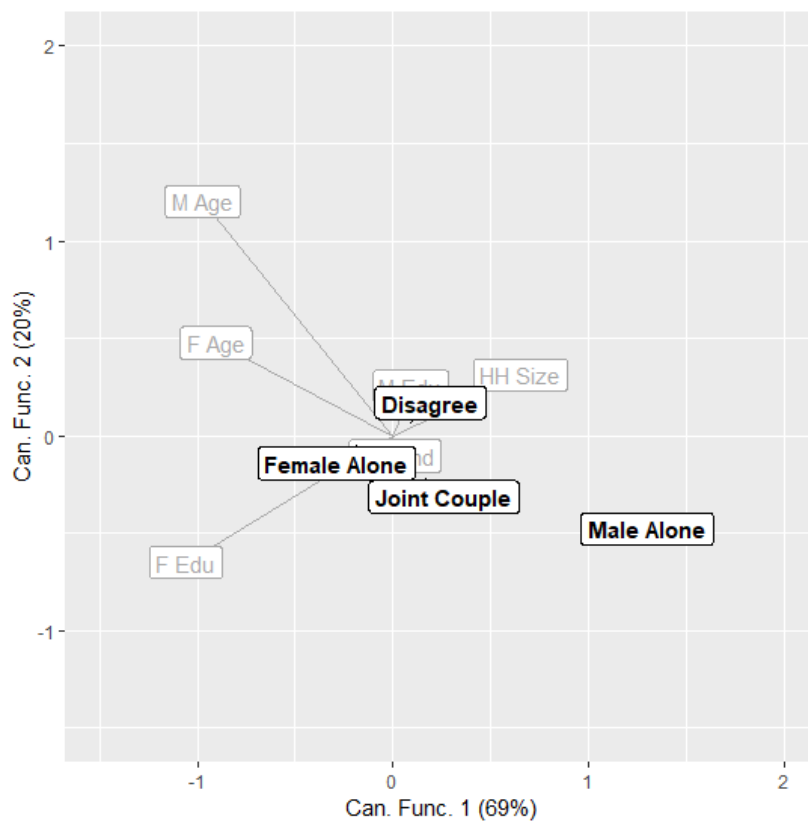


Figure 5A Canonical Discriminant Analysis: demographics and decision making for decisions on budget for food costs

Table 5A Canonical Discriminant Analysis: demographics and decision making for decisions on budget for food costs

Canonical Variate	Squared Canonical Correlations	Eigen Value	Difference	Percent	Cumulative
Canonical 1	0,030	0,031	0,022	69,006	69,006
Canonical 2	0,009	0,009	0,022	19,500	88,506
Canonical 3	0,005	0,005	0,022	11,494	100,000
Class means	Canonical 1	Canonical 2	Canonical 3		
Disagree	0,092	0,070	-0,009		
Joint Couple	0,169	-0,222	-0,168		
Sole Male Spouse	1,302	-0,479	0,621		
Sole Female Spouse	-0,187	-0,047	0,036		
Standard coefficients	Canonical 1	Canonical 2	Canonical 3		
Age of Female Spouse (Years)	-0,111	-1,093	-1,123		
Age of Male Spouse (Years)	-0,638	1,668	0,644		
Education Female Spouse (Years)	-0,809	-0,592	0,584		
Education Male Spouse (Years)	0,460	0,511	-0,112		
Total Area of Land (acres)	0,103	-0,125	-0,528		
Household Size (number of members)	0,621	-0,084	0,399		

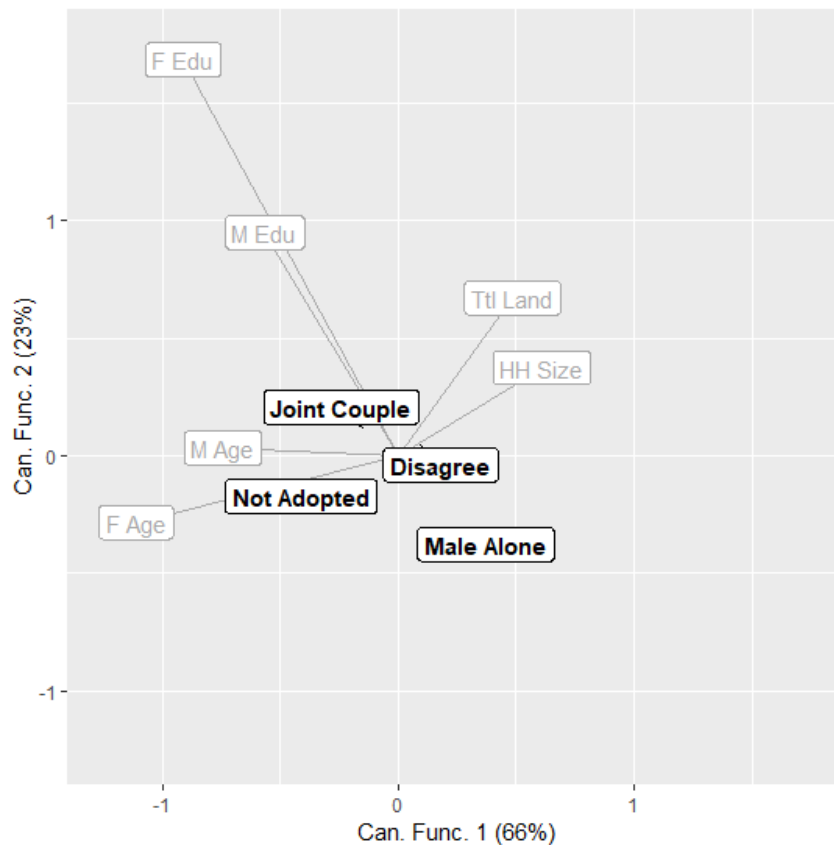


Figure 6A Canonical Discriminant Analysis: demographics and decision making for decisions on purchases of major household items

Table 6A Canonical Discriminant Analysis: demographics and decision making for decisions on purchases of major household items

Canonical Variate	Squared Canonical Correlations	Eigen Value	Difference	Percent	Cumulative
Canonical 1	0,038	0,040	0,026	66,116	66,116
Canonical 2	0,014	0,014	0,026	22,932	89,048
Canonical 3	0,007	0,007	0,026	10,952	100,000
Class means	Canonical 1	Canonical 2	Canonical 3		
Disagree	0,094	0,048	0,032		
Joint Couple	-0,154	0,121	-0,217		
None	-0,347	-0,109	0,042		
Sole Male Spouse	0,372	-0,377	-0,114		
Standard coefficients	Canonical 1	Canonical 2	Canonical 3		
Age of Female Spouse (Years)	-1,162	-0,776	-0,521		
Age of Male Spouse (Years)	0,288	0,548	0,374		
Education Female Spouse (Years)	-0,358	0,876	0,047		
Education Male Spouse (Years)	-0,184	-0,047	0,189		
Total Area of Land (acres)	0,322	0,356	-0,869		
Household Size (number of members)	0,600	0,238	0,440		