Table S1. Contingency table for the categorical variables included in the FAMD analysis of each component evaluated

General Farm Information Isas 29% 37% 63% Pen 37% 74% 75% 63% Chute 34% 55% 44% 88% Storehouse 31% 58% 51% 50% Electric fence 32% 48% 49% 88% Electric pump 5% 13% 20% 38% Electric pump 5% 13% 20% 38% Electric pump 5% 13% 20% 38% Electric pump 5% 13% 6% 22% 38% Electric pump 5% 13% 10% 19% 63% Electric pump 5% 13% 10% 19% 63% Electric pump 6% 10% 19% 63% 68% 100% Manual law mown 18% 16% 49% 68% 100% 7% 7% 33% 20% 9% 9% 78% 13% 9% 9%	Variable	VSP	SP	MP	LP
Pen 37% 74% 75% 100% Chute 34% 58% 44% 88% Storehouse 31% 58% 51% 50% Electric fence 32% 48% 49% 88% Electric pump 5% 13% 20% 38% Electronic scale 3% 6% 22% 38% Electronic scale 3% 6% 22% 38% Electronic scale 3% 6% 22% 38% Electronic scale 3% 6% 49% 63% Electronic scale 3% 6% 49% 63% Electric pump 6% 3% 68% 8% 100% Forest monoculture 5% 55% 68% 9% 9% 13% 9% 13% 9% 13% 9% 13% 9% 13% 9% 13% 9% 13% 9% 13% 9% 13% 9% 13% 9% <	General Farm Information				
Chute 34% 58% 44% 88% Storehouse 31% 58% 51% 50% Electric fence 32% 48% 49% 88% Electric pump 5% 13% 20% 38% Electronic scale 3% 6% 22% 38% Tractor 3% 10% 19% 63% Chainsaw 18% 16% 49% 75% Manual lawn mower 52% 55% 68% 100% Motor pump 16% 26% 39% 38% Agroforestry crops 7% 3% 2% 0% Perennial crops 11% 11% 5% 3% 8% 0% Forest monoculture 3% 0% 0% 13% 13% 0% 0% 13% 13% 0% 0% 13% 0% 0% 33% 0% 0% 13% 0% 0% 13% 0% 0% 13% 0%<	Barn	18%	29%	37%	63%
Storehouse 31% 58% 51% 50% Electric fence 32% 48% 49% 88% Electroic pump 5% 13% 20% 38% Electroic scale 3% 6% 22% 38% Tractor 3% 10% 19% 63% Chainsaw 18% 16% 49% 75% Manual lawn mower 52% 55% 68% 100% Motor pump 16% 26% 33% 38% Agroforestry crops 7% 3% 2% 0% Perennial crops 11% 11% 5% 0% Transitory crops 7% 3% 2% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% <t< td=""><td>Pen</td><td>37%</td><td>74%</td><td>75%</td><td>100%</td></t<>	Pen	37%	74%	75%	100%
Electric fence 32% 48% 49% 88% Electric pump 5% 13% 20% 38% Electronic scale 3% 6% 22% 38% Tractor 3% 10% 19% 63% Chainsaw 18% 16% 49% 75% Manual lawn mower 52% 55% 68% 100% Motor pump 16% 26% 39% 38% Agroforestry crops 11% 11% 5% 0% Perennial crops 11% 11% 5% 0% Forest monoculture 3% 3% 2% 0% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 33% 0% Medium animal species 49% 68% 30% 100% Medium animal species 27% 39% 46% 50	Chute	34%	58%	44%	88%
Electric pump 5% 13% 20% 38% Electronic scale 3% 6% 22% 38% Tractor 3% 10% 19% 63% Chainsaw 18% 16% 49% 75% Manual lawn mower 52% 55% 68% 100% Motor pump 16% 26% 39% 38% Agroforestry crops 7% 3% 2% 0% Perennial crops 11% 11% 5% 0% Transitory crops 5% 3% 3% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 5% Silvopastoral systems 6% 0% 33% 0% Big animal species 49% 68% 80% 100% Medium animal species 27% 38% 10% 5%	Storehouse	31%	58%	51%	50%
Electronic scale 3% 6% 22% 38% Tractor 3% 10% 19% 63% Chainsaw 18% 16% 49% 75° Manual lawn mower 52% 55% 68% 100% Motor pump 16% 26% 39% 38% Agroforestry crops 7% 3% 2% 0% Perennial crops 11% 11% 5% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Medium animal species 49% 68% 80% 100% Medium animal species 27% 39% 46% 50% Small animal species 27% 39% 46% 50% Medium animal species 27% 39% 48%	Electric fence	32%	48%	49%	88%
Tractor 3% 10% 19% 63% Chainsaw 18% 16% 49% 75% Manual lawn mower 52% 55% 68% 100% Motor pump 16% 26% 39% 38% Agroforestry crops 7% 3% 2% 0% Perennial crops 11% 11% 5% 0% Transitory crops 5% 3% 8% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Ferd composition and management - Categorical variables 40% 53% 81% 75% Milareral salt supplementation 71%	Electric pump	5%	13%	20%	38%
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Manual lawn mower 52% 55% 68% 100% Motor pump 16% 26% 39% 38% Agroforestry crops 7% 3% 2% 0% Perennial crops 11% 11% 5% 0% Transitory crops 5% 3% 8% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 27% 39% 46% 50% Medium animal species 27% 39% 46% 50% Medium animal species 27% 39% 46% 50% Herd composition and management - Categorical variables 8 10% 53% 81% 75% Supplementatio	Tractor	3%	10%	19%	63%
Motor pump 16% 26% 39% 38% Agroforestry crops 7% 3% 2% 0% Perennial crops 11% 11% 5% 0% Transitory crops 5% 3% 8% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Medium animal species 27% 39% 46% 50% Medium animal species 49% 68% 80% 100% Medium animal species 40% 53% 81% 50% Medium animal species 40% 53% 81% 75% Micard keeping 40% 53%	Chainsaw	18%	16%	49%	75%
Agroforestry crops 7% 3% 2% 0% Perennial crops 11% 11% 5% 0% Transitory crops 5% 3% 8% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 49% 68% 80% 100% Medium animal species 40% 53% 81% 75% Miled composition and amagement - Categorical variables 88 10 78% 88% Supplementation	Manual lawn mower	52%	55%	68%	100%
Perennial crops 11% 11% 5% 0% Transitory crops 5% 3% 8% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 27% 39% 46% 50% Medium animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 40% 53% 81% 50% Medium animal species 40% 53% 81% 75% Record keeping 40% 53% 81% 75% Record keeping 40% 5	Motor pump	16%	26%	39%	38%
Transitory crops 5% 3% 8% 0% Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 17% 23% 22% 38% Small animal species 40% 53% 81% 50% Herd composition and management - Categorical variables 8 89% 78% 88% Record keeping 40% 53% 81% 75% Mineral salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management	Agroforestry crops	7%	3%	2%	0%
Forest monoculture 3% 0% 0% 13% Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 17% 23% 22% 38% Small animal species 40% 53% 81% 50% Herd composition and management - Categorical variables 88% 89% 78% 88% Mineral salt supplementation 71% 89% 78% 88% Plaint salt supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% <td>Perennial crops</td> <td>11%</td> <td>11%</td> <td>5%</td> <td>0%</td>	Perennial crops	11%	11%	5%	0%
Pasture area with more than 25 trees per ha 24% 26% 20% 38% Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 27% 39% 46% 50% Herd composition and management - Categorical variables 81% 53% 81% 75% Mineral salt supplementation 71% 89% 78% 88% Mineral salt supplementation 31% 89% 78% 88% Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Division of paddocks 28% 20% 48 38% Division of paddocks 28% 24% 33% 24%	Transitory crops	5%	3%	8%	0%
Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 27% 39% 46% 50% Herd composition and management - Categorical variables 81% 75% 50% Mineral salt supplementation 71% 89% 78% 88% Plaint salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Rotational grazing 88% 100% 95% 88% Division of paddocks 2 33% 24% 38% Electric fence 12% 33% 24% 38% Mixed <td< td=""><td>Forest monoculture</td><td>3%</td><td>0%</td><td>0%</td><td>13%</td></td<>	Forest monoculture	3%	0%	0%	13%
Improved pastures 43% 45% 37% 50% Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 27% 39% 46% 50% Herd composition and management - Categorical variables 81% 75% 50% Herd composition and management - Categorical variables 71% 89% 78% 88% Mineral salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Rotational grazing 88% 100% 95% 88% Division of paddocks 12% 33% 24% 38% Mixed 17% 7% 34% 50% Sh	Pasture area with more than 25 trees per ha	24%	26%	20%	38%
Silvopastoral systems 6% 0% 3% 0% Big animal species 49% 68% 80% 100% Medium animal species 17% 23% 22% 38% Small animal species 27% 39% 46% 50% Herd composition and management - Categorical variables 80% 53% 81% 75% Mineral salt supplementation 71% 89% 78% 88% Plaint salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% Division of paddocks 88 100% 95% 88% Barbed wire 12% 33% 24% 38% Shifting paddocks area 12% 32% 24% 38%	•	43%	45%	37%	50%
Medium animal species 17% 23% 22% 38% Small animal species 27% 39% 46% 50% Herd composition and management - Categorical variables Winceral self supplementation 71% 89% 78% 88% Mineral salt supplementation 31% 33% 16% 13% Plaint salt supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Rotational grazing 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% Electric fence 12% 33% 24% 38% Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method 42% 41% 31% 0% Manual 42% 41% 31% 0% <	Silvopastoral systems	6%	0%	3%	0%
Small animal species 27% 39% 46% 50% Herd composition and management - Categorical variables 8 40% 53% 81% 75% Mineral salt supplementation 71% 89% 78% 88% Plaint salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Rotational grazing 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% Barbed wire 70% 60% 42% 13% Electric fence 12% 33% 24% 38% Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method 42% 41% 31% 0% Ma	Big animal species	49%	68%	80%	100%
Herd composition and management - Categorical variables Record keeping 40% 53% 81% 75% Mineral salt supplementation 71% 89% 78% 88% Plaint salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Pasture management - Categorical variables 88% 100% 95% 88% Pasture management - Categorical variables 88% 100% 95% 88% Pasture management - Categorical variables 88% 100% 95% 88% Pasture management - Categorical variables 88% 100% 95% 88% Pasture management - Categorical variables 88% 100% 95% 88% Division of paddocks 95% 88% 100% 42% 33% 24% 38% Shifting paddocks area <td>Medium animal species</td> <td>17%</td> <td>23%</td> <td>22%</td> <td>38%</td>	Medium animal species	17%	23%	22%	38%
Record keeping 40% 53% 81% 75% Mineral salt supplementation 71% 89% 78% 88% Plaint salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% Electric fence 12% 33% 24% 38% Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method 42% 41% 31% 0% Manual 42% 41% 31% 0% Chemical 3% 18% <t< td=""><td>·</td><td>27%</td><td>39%</td><td>46%</td><td>50%</td></t<>	·	27%	39%	46%	50%
Mineral salt supplementation 71% 89% 78% 88% Plaint salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% Division of paddocks 88% 100% 95% 88% Electric fence 12% 33% 24% 38% Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method 42% 41% 31% 0% Manual 42% 41% 31% 0% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 41% 60% 33%	Herd composition and management - Categorical variables				
Plaint salt supplementation 31% 33% 16% 13% Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Rotational grazing 88% 100% 95% 88% Division of paddocks 50% 42% 13%	Record keeping	40%	53%	81%	75%
Supplementation 51% 72% 63% 75% Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables 88% 100% 95% 88% Division of paddocks 50% 95% 88% 100% 95% 88% Division of paddocks 50% 42% 13% 24% 13% 24% 38% Electric fence 12% 33% 24% 38% 38% 38% 50% 60% 33% 0% 50% 50% 50% 50% 50% 50% 50% 60% 33% 0% 50% 50% 60% 33% 0% 60% 33% 0% 60% 60% 33% 0% 60% 60% 60% 60%	Mineral salt supplementation	71%	89%	78%	88%
Concentrate feeds 7% 14% 11% 25% Pasture management - Categorical variables Rotational grazing 88% 100% 95% 88% Division of paddocks 50% 42% 13% 12% 13% 24% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 10% 13%	Plaint salt supplementation	31%	33%	16%	13%
Pasture management - Categorical variables Rotational grazing 88% 100% 95% 88% Division of paddocks 50% 42% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% 10%	Supplementation	51%	72%	63%	75%
Rotational grazing 88% 100% 95% 88% Division of paddocks 70% 60% 42% 13% Barbed wire 70% 60% 42% 13% Electric fence 12% 33% 24% 38% Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method 42% 41% 31% 0% Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Concentrate feeds	7%	14%	11%	25%
Division of paddocks Barbed wire 70% 60% 42% 13% Electric fence 12% 33% 24% 38% Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method 24% 41% 31% 0% Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Pasture management - Categorical variables				
Barbed wire 70% 60% 42% 13% Electric fence 12% 33% 24% 38% Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method Very Company Very Company Very Company 10% 25% Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Rotational grazing	88%	100%	95%	88%
Electric fence 12% 33% 24% 38% Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method 32% 41% 31% 0% Manual 42% 41% 31% 0% Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Division of paddocks				
Mixed 17% 7% 34% 50% Shifting paddocks area 12% 32% 24% 38% Weeding method 30% 41% 31% 0% Manual 42% 41% 31% 0% Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Barbed wire	70%	60%	42%	13%
Shifting paddocks area 12% 32% 24% 38% Weeding method 31% 0% Manual 42% 41% 31% 0% Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Electric fence	12%	33%	24%	38%
Weeding method Manual 42% 41% 31% 0% Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Mixed	17%	7%	34%	50%
Manual 42% 41% 31% 0% Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Shifting paddocks area	12%	32%	24%	38%
Mechanical 24% 12% 10% 25% Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Weeding method				
Chemical 3% 18% 8% 0% Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Manual	42%	41%	31%	0%
Mixed 28% 29% 48% 75% Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Mechanical	24%	12%	10%	25%
Fertilization 19% 14% 25% 50% Agricultural lime 41% 60% 33% 0%	Chemical	3%	18%	8%	0%
Agricultural lime 41% 60% 33% 0%	Mixed	28%	29%	48%	75%
	Fertilization	19%	14%	25%	50%
Dolomite lime 59% 40% 53% 0%	Agricultural lime	41%	60%	33%	0%
	Dolomite lime	59%	40%	53%	0%

Pasture renewal	17%	42%	39%	75%
Production Information - Categorical variables				
Animal weighing method - scale	81%	85%	8%	0%
Animal weighing method - weighing tape	10%	8%	90%	100%
Animal weighing method - none	9%	8%	2%	0%
Environmental Information - Categorical variables				
Forest	76%	81%	73%	63%
Water source				
Surface water	76%	81%	85%	100%
Underground water	8%	6%	20%	75%
Piped water	43%	35%	39%	13%
Water springs	69%	39%	61%	38%
Water availability during summer for livestock	92%	97%	98%	100%
Wastewater treatment system	29%	25%	38%	38%
Solid waste management				
Incineration	41%	29%	42%	50%
Burial	22%	16%	19%	50%
Handled by a third party	27%	42%	34%	0%

VSP: very small livestock producers, SP: small livestock producers, MP: medium livestock producers, LP: large livestock producers