Dimension	Scope	Indicator	Weight	Variable	Weight	Measurement	Question
				Importance of culture and tradition	0	Not important	
					0.5	Not very important	
		Tradition and culture	2	in the farm	1	Not important	10
					1.5	Important	
					2	Very important	
					0	Never	
					0.5	Rarely	
		Supporting organizations	2	Degree of a relationship with	1	Occasionally	11
				supporting organizations	1.5	Frequently	
					2	Always	
					0	Doesn't know	
			2	Knowledge and access to public policies	0.5	Knows, but does not have access	12
		Public policies			1	Knows, but chooses not to access	
					1.5	Accesses one policy	
Food	Organizational and				2	Accesses two policies	
	institutional environment	Social and associative participation	2	Degree of participation in producer associations, unions, and the local community	0	Very low	13
					0.5	Low	
					1	Medium	
					1.5	High	
					2	Very high	
					0	No	14
		Cooperation in the markets	2	Existence of collaborative	1	Yes, occasionally	
		Cooperation in the markets	2	commercialization	1.5	Yes, regularly	
					2	Always	
					0	Very bad	
				Conditions of the energy and	0.5	Bad	
		Logistic and energy infrastructure	2	logistics infrastructure for the	1	Regular	15
				development of farm activities	1.5	Good	
					2	Very good	
		Quality of life	4	Conditions that provide structural	0	Very bad	8
		Quanty of file	7	quality of life	1	Bad	0

Appendix 1. Composition of sustainability indicators from the NEXUS-MESMIS approach

					2	Regular	
					3	Good	
					4	Very good	
					0	No successor, age > 60	
					1	No successor, age < 60	
						Existence without	
					2	predisposition / with an	
						area < 300 ha	
			Existence and predisposition of		Existence without		
	Succession/transmissibility	4	successors to continue operating	2.5	predisposition / with an	16	
		Succession/transmissionity	4	the form		area > 300 ha	10
						Existence with	
					3	predisposition / with an	
						area < 300 ha	
						Existence with	
					4	predisposition / with area	ith area
						over 300 ha	
		Genetics of animal production	4	Beef cattle breeds raised on the farm	0	No breed definition	17
					2	Intermediate breed pattern	
					4	Defined breed pattern	
				Relationship between load and load capacity of the grassland	3	> 10 cm	18
					1.5	Between 5 and 10 cm	
					0	< 5 cm	
						More than 90% cover-	
					3	grassland without	
						invasives	
						Coverage between 70 and	
					2.5	90%-grassland without	
	Productive and technological					invasives	
	environment	Caraland area areas	(Coverage between 70 and	
		Grassiand management	0		2	90%-grassland with up to	
				Forages, invasive plants, and land		10% invasives	19
				cover		Coverage between 50 and	17
					1.5	70%-grassland with up to	
						20% invasives	1
						Coverage less than 50%-	
					1	grassland with up to 20%	
						invasives	
					0 Coverage less than 50%, with invasives and exposed	Coverage less than 50%,	
					_	soil	
		Crop management	6	Agriculture incorporation time	3	Consolidated (>10 years)	21

			1.5	Between 5 and 10 years	
			0	Recent (< 5 years)	
			0	>50% with crops	
			1	40%-50% with crops	
		Percentage of agriculture in the	1.5	30%-40% with crops	20
		system	2	20%-30% with crops	20
			2.5	10%-20% with crops	
			3	Less 10% with crops	
				Feedlot or more than 25%	
			0	supplementation or 30%	
				cultivated pasture	
				< 25% supplementation or	
			1	more 15%-30% cultivated	24
Feed management	6	Livestock feed management		pasture	
			2	< 15% cultivated pasture	
			4	Up to 20% of natural	
			6	grassland improved	
				Exclusively natural	
			0	grassland	
		Degree of dependence of the farm	3	Independent	25
			2.25	Slightly dependent	
			1.5	Moderately dependent	
		on external inputs	0.75	Very dependent	
Denordance en enternel innete	C		0	Totally dependent	
Dependence on external inputs	0	Impact of scarcity of inputs on production	3	Not affected	26
			2.25	Slightly affected	
			1.5	Medium affected	
			0.75	Very affected	
			0	Unviable	
			0	A single productive	
			0	activity	
			2	Two, with a predominance	
	6		2	of one	27
Productive diversification	6	Number of productive activities	4	Two, with a balance in	27
			4	both	
				Three or more productive	
			6	activities	
			0	Does not use management	
		Use of economic management tools in the property	U	tools	20
Economic management	4		2	Yes, with control of	28
			2	income and expenses	

					4	Yes, with cost analysis and	
					4	100% of the farm	
					3	90-100% of the farm	
					2.5	80-90% of the farm	
		Dependence on the flow of capital	4	Source of income	2	70-80% of the farm	29
		T T T T T T T T T T T T T			1.5	60-70% of the farm	
					1	50-60% of the farm	
			1		0	< 50% of the farm	
					0	Very low	
					1	Low	
		Availability of labour force	4	Level of labour availability	2	Medium	30
		5		5	3	High	
					4	Very high	
					4	None	
				Incidence of cattle raiding in the location of the farm	2	Low	
		Cattle raiding	4		1	Medium	31
					0	High	
		Market structure and prices	8	Characterization of the number of buyers of the main farming product	0	Single buyer	
					1	Low number of buyers	
					2	Medium number of buyers	22
					3	High number of buyers	32
					4	Very high number of	
					4	buyers	
				Price negotiation power	0	No negotiating power	
					1	Low negotiating power	
					2	Medium negotiating power	33
					3	High negotiating power	55
	Commercialization and				4	I set the price of my	
					-	product	
	Consumption			Geographical scope of	4	Locally]
				consumption of the main product	3	Regionally	34
				of the farm	2	Nationally	54
					1	Internationally	
		Commercialization chains	8		4	Level zero	
				Type of marketing channel for the	3	One level	
				main product of the farm	2	Two levels	35
				main product of the furth	1	Three levels	
					0	Four levels	
		Value addition	6		0	Lower value	36
					1	Equal value	

				Comparative position of the main product value in relation to other regions	3	Higher value	
				Comparative price position	0	Below market average	
				received by the main product in	1	Market average	37
				relation to the region	3	Above market average	
					0	No other products	
			Additional number of products	1	One product		
	Secondary products	4	marketed	2	Two products	38	
				4	Three or more products	1	
					0	No food	
					0.5	Small portion of food	
				Amount of food that the family	1	Half of the food	39
				consumes from the farm	1.5	Most food]
		Self-consumption and direct sale	4		2	Almost all food	
					0	Never	
				Frequency of direct sales of products to the consumer	0.5	Rarely	40
					1	Sometimes	
					1.5	Often	
					2	Always	
		Generation	20	Independent generation	20	Renewable	44
					10	Non-renewable	
					0	None	
					8	Efficient	-
				Continuous use	0	Regular Deerly officient	48
					4	Poorty efficient	
					0		
				High energy-consumption	0	Yes	45
Energy	Electric			equipment	4	No	45
		Consumption	20		1	High > 800 kW	
					2.5	Medium-High 401 < x < 800 kW	
				Demand	3	Medium-Low 201 < x < 400 kW	46
					4.5	Low 101 < x < 200 kW	1
					6	Very low < 100 kW	1
				Ensure of monotonets	0	Yes	1.7
				Excess of reactants	2	No	4/

				· · · · · · · · · · · · · · · · · · ·	6	Yes	41
				Access to concessionaire grid	0	No	41
					4	Good	
		Crid	20	Quality	2	Average	43
		Grid	20		0	Poor	
					0	Totally dependent	
				Grid dependence	5	Partially dependent	42
				-	10	Independent	
					3	3 or more sources	
				Cooking	2	2 sources	49
				_	0	1 source	
					3	3 or more sources	
				Personal hygiene	2	2 sources	50
			10		0	1 source	
		Thermal energy use	10		2	3 or more sources	
				House heating	1	2 sources	51
Ther					0	1 source	
	Thermal				2	biomass	52
				Productive process	1	other sources	
					0	no	
		Thermal energy source	10	Source	10	Own-Waste	-
					9	External-Waste	
					7	Native sustainable use	
					5	Own exotic planting	
					2	Own native planting	53
					1	External-Reforestation	55
					0	Indiscriminate use of	
					0	native forest	
					0	External use of native	
					0	forest	
					3	No need	
					3	Renewable	
				Domestic	2	Electric	54
		Pumping	5		1	Fossil fuel	
					0	Needed but not available	<u> </u>
	Mechanical			Productive	0	Yes	55
				Tioductive	2	No	
					0	High	56
		Fossil fuel	15	Intensity of use (L/ha)	4	Medium	
		1.0221 1021			6	Low	
				Access	6	<30 km	58

					4	30-50 km	
					2	50-100 km	-
					0	>100 km	-
					0	no	
				Storage	1	25-100 L	57
					3	>100 L	
					10	(scale 5)	
					8	(scale 4)	
		XX 7 / / / /	10		6	(scale 3)	60
		Water quantity	10	Source meets consumption	4	(scale 2)	60
	Human consumption				2	(scale 1)	-
	-				0	No access	-
					10	Good	
		Water quality	10	Quality	5	Average	61
					0	Poor	
				Source meets production demand	10	(scale 5)	62
	Production	Water for production	10		8	(scale 4)	
					6	(scale 3)	
					4	(scale 2)	
					2	(scale 1)	
					0	No access	
		Water use efficiency	20	Forage and dryland farming	4	High / Don't use	63
					2	Medium	
Water					0	Low	
				Horticulture	4	High / Don't use	63
					2	Medium	
					0	Low	
					12	High / Don't use	63
				Rice	6	Medium	
					0	Low	
				Occurrence	5	No	64
					0	Yes	04
		Drought susceptibility	10		5	Low	-
				Frequency	3	Medium	64
					0	High	
					6	Good	4
				Technological soil management	3	Average	65
	Degradation	Existence of conservation	30		0	Poor	
	2 Conduction	practices	50		6	Good	4
				Soil compaction management	3	Average	66
					0	Poor	

		Crop management	6	Good	67
	1		3	Average	
			0	Poor	
			12	Good	
		Water management	6	Average	68
		-	0	Poor	1
	10	W/indonesian	2	No	- 69
		wind erosion	0	Yes	
		Companyation	2	No	- 70
		Concentrated erosion	0	Yes	
		D:00 :	2	No	- 71
Perception of the erosive process		Diffuse erosion	0	Yes	
		Deed related as it anotice	2	No	72
		Road-related soll erosion	0	Yes	
		Disconcentration	2	No	70
		KIVET ETOSIOII	0	Yes	13