ADAPTATION STRATEGIES OF SHEEP FARMING SYSTEMS TO AVAILABILITY OF DIFFERENT RESOURCES: CASE STUDIES



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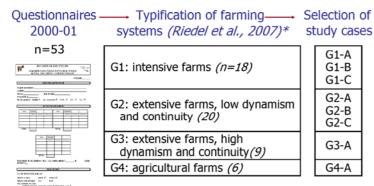


OBJECTIVE

To analyze the relationships between technical, social and land use characteristics at the farm level.

Material and Methods

Technical and economical monitoring of representative sheep farms in Sierra de Guara Natural Park (Huesca, Spain)



^{*} Riedel, J.L., Casasús, I., Bernués, A., 2007. Sheep farming intensification and utilization of natural resources in a Mediterranean pastoral agro-ecosystem. *Livestock Science* 111, 153–163.



Technical and economical information 2005

Information on a 3-mo basis:

- grazing management
- indoor feeding
- reproduction
- lamb sales
- feed costs

Additional questionnaire:

- social and family context
- recent farm dynamics

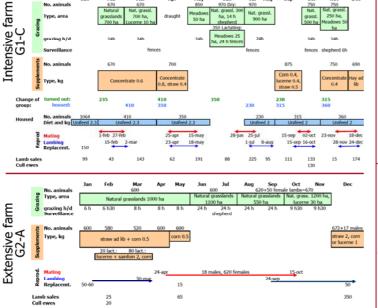
SWOT analysis Strengths, Weaknesses, Opportunities, Threats

Factors of

- farm continuity
- environmental sustainability of the farming activity

Results

Flock management calendars (examples)



SWOT: case-dependent, but general trends...

Weaknesses:	Lack of farm succession	Threats:	Low continuity in the short run
	Direct sale to fixed retailer		Low added value (sometimes)
	Low dynamism and self-esteem		Low technical innovation
	Intensive reproductive system G1		Dependence on external inputs or climatic hazard
	Lack of shepherds G2, G3		Intensification or disappearance
	Flock size limited by forage crop area G4		Dependence on external inputs
	Workforce involved in non-farming activities G4		Low use of natural pastures
Strengths:	Dynamism	Opportunities:	Technical innovation
	Off-farm activity		Economic diversification
	Cooperative production or trade		Flexibility (sometimes)
	High self-esteem		Continuity in the medium run
	Use of fences and forage crops G1		Optimal use of available labour force
	Extensive reproduction system G2, G3		Low dependence on external inputs
	Extensive pasture use G2, G3		Environmental benefits



CONCLUSIONS

Diversity of strategies to ensure medium-term continuity according to specific constraints:

- adaptation of available labour force to farm and family needs (and viceversa)
- combination of different degrees of reproductive intensification and use or farm conserved forage and grazing resources, which determine farm dependence on external inputs.