

# Fodder interest of woody species of the Mediterranean woods

## INTRODUCTION

Livestock grazing of fuelbreaks is a practice which is promoted in several Mediterranean regions with the objective of improving wildfire prevention. There is a lack of information in this area. The aim of this study is to obtain local nutritional values of six woody species, their differences between seasons (summer, autumn, winter) and to compare it with the nutritional requirements of goats.

## MATERIAL AND METHODS

• Six species

- *Quercus ilex*
- *Quercus pubescens*
- *Spartium junceum*
- *Cistus albidus*
- *Erica arborea*
- *Rubus ulmifolius*.

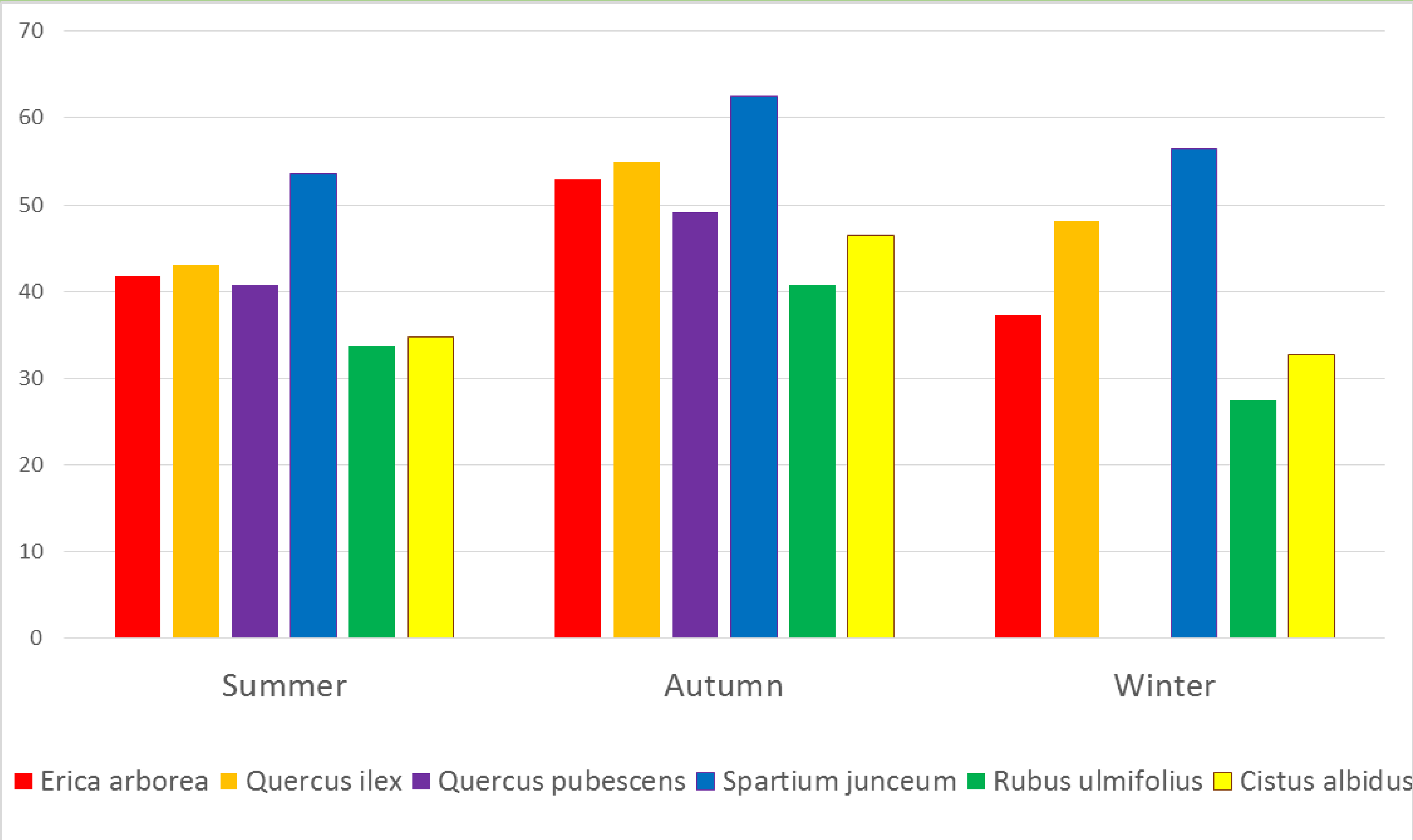
• Test

- Crude protein (Kjeldahl)
- NDF-ADF-ADL (Van Soest)

• Season

- Summer
- Autumn
- Winter
- ~~Spring~~

## RESULTS



Crude protein and diferent fibres of six Mediterranean Woody species

	Erica arborea			Quercus ilex		
	Summer	Autumn	Winter	Summer	Autumn	Winter
%CP/DM	6,43	6,58	7,46	8,48	8,58	8,5
%NDF/DM	41,7	52,96	37,22	43,11	54,98	48,1
%ADF/DM	31,28	42,68	28,18	29,47	37,73	33,08
%ADL/DM	18,21	27,55	17,09	10,72	16,05	13,27
	Quercus pubescens			Spartium junceum		
	Summer	Autumn	Winter	Summer	Autumn	Winter
%CP/DM	12,62	9,61		11,07	9,92	10,22
%NDF/DM	40,8	49,2		53,52	62,55	56,5
%ADF/DM	26,83	31,83		41,51	47	42,76
%ADL/DM	8,48	14,48		9,67	12,03	10,23
	Rubus ulmifolius			Cistus albidus		
	Summer	Autumn	Winter	Summer	Autumn	Winter
%CP/DM	10,91	13,19	12,16	10,61	13,6	11,51
%NDF/DM	33,72	40,73	27,48	34,74	46,48	32,68
%ADF/DM	21,31	24,29	17,83	22,33	33,66	22,11
%ADL/DM	5,9	8,33	4,53	5,08	14,25	5,4

NDF-ADF-ADL of six Mediterranean Woody species in Summer, Autumn and Winter.

## CONCLUSIONS

- Difficulty to reach protein requirements during last period of pregnancy (13-14 % PB) and lactation (>14 % PB), but easy to reach maintenance protein requirements.
- Unexpected results of fibre values during autumn (higher than summer).
- *Erica arborea* is part of the fire-prone vegetation, and because of its nutrition value is expected to be less ingested.
- *Spartium junceum* (leguminous) was expected to have higher protein levels.
- *Cistus albidus* has a good potential because of its germination capacity and its high protein.
- *Rubus ulmifolius* is usually considered a noxious weed but has good.
- *Quercus pubescens* has good protein values but loses the leaves during winter.
- *Quercus ilex* has low protein levels but compensates with acorns.
- More information as energy is needed in further studies.