Supplementary materials

Table S1. List of variables considered in the manuscript

Variables tested in Diet Composition Analysis
Proportion of epidermal fragments (response variable)
Month of sampling (explanatory variable)
Functional group of plants (explanatory variable)
Variables tested in Biodiversity Analysis
Number of individuals (response variable)
Relative cover (response variable)
Shannon's index (response variable)
Pielou's Evenness (response variable)
Species richness (response variable)
Treatment (explanatory variable)
Variables tested in Phenology Analysis
Leaf Area Index (LAI) (response variable)
Normalized Difference Vegetation Index (NDVI) (response variable)
Start of season(SOS) (response variable)
End of season (EOS) (response variable)

Peak of production (POP) (response variable)
Treatment (explanatory variable)
Month of sampling (explanatory variable)
Year of sampling (explanatory variable)

Table S2. Mean proportion (min-max) of Non-leguminous woody (NLW), Leguminous woody (LW), Leguminous forbs (LF), Non-leguminous forbs (NLF), Graminoids (Gr) and Bryophytes (Br) plant fragments in faecal samples collected (January 22-October 23) from four herds of cattle kept in extensive grazing in the Izki NP, North Spain.

	January	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**
NLW										
Erica sp.	1.8 (0-16)	3.8 (0-20)	4.8 (0-28)	6.5 (0-32)	4.6 (0-16)	15.6 (0-40)	4.8 (2-10)	5.4 (0-28)	4.3 (0-16)	0.5 (0-4)
Quercus pyrenaica	1.3 (0-4)	3.8 (0-20)	5.3 (0-16)	14.3 (0-40)	10.4 (0-8)	5.3 (0-16)	0.5 (0-4)	6.4 (0-20)	15 (4-28)	18.5 (4-32)
Rubus sp.	0.8 (0-12)	0.3 (0-4)	0.3 (0-4)	2.3 (0-16)	2.1 (0-8)	0.3 (0-4)	0.3 (0-2)	3.5 (0-16)	6.3 (0-16)	5 (0-12)
Other NLW	12.5 (0-48)	8.3 (0-24)	11.8 (0-40)	16.5 (0-32)	7.6 (0-14)	10.0 (4-18)	9.0 (6-12)	10.7 (0-28)	13.3 (0-20)	10.8 (0-20)
Total	16.3	16.0	22.0	39.5	24.8	31.1	14.5	26	38.9	
LW										
Total	8.8 (0-32)	4.3 (0-24)	1.5 (0-12)	2.5 (0-8)	1.6 (0-6)	6.5 (0-20)	2.0 (0-8)	7.1 (0-16)	9.3 (4-16)	16.8 (0-40)
LF										
Total	6.8 (0-24)	14.5 (0-40)	13.0 (0-32)	16.8 (0-36)	13.9 (6-26)	8.3 (4-18)	12.3 (4-18)	10.9 (0-24)	5.5 (0-12)	6.5 (0-20)
NLF										
Herbaceous monocot	4.8 (0-20)	4.3 (0-12)	0.8 (0-4)	2.0 (0-8)	1.3 (0-4)	2.4 (0-6)	4.3 (2-8)	5.3 (0-24)	4.8 (0-12)	6.3 (0-16)
Herbaceous dicot	17.8 (4-36)	26.0 (12-52)	26.0 (8-44)	22.3 (4-44)	25.1 (10-36)	26.4 (12-40)	38.0 (24-52)	14.8 (0-28)	12.8 (4-24)	13.3 (0-32)

Total	22.5	30.3	26.8	24.3	26.4	28.8	42.3	20.1	17.6	19.6
Gr*										
Festuca sp.	13.3 (0-32)	6.3 (0-24)	11.3 (0-28)	3.5 (0-8)	0.1 (0-2)	0.0 (0-0)	0.0 (0-0)	15.1 (4-28)	11.8 (0-24)	6.3 (0-20)
Other Gr	30.8 (8-56)	26.8 (0-60)	22.5 (0-48)	10.0 (0-20)	28.4 (6-52)	24.0 (8-46)	27.8 (16-40)	12.8 (0-28)	9.3 (0-40)	7.8 (0-16)
Total	44.0	33.0	33.8	13.5	28.5	24.0	27.8	27.9	21.1	14.1
Br										
Total	1.8 (0-8)	2.0 (0-12)	3.0 (0-12)	3.5 (0-16)	4.9 (0-10)	1.4 (0-10)	1.3 (0-4)	7.9 (0-28)	8 (0-16)	8.5 (0-24)

*Includes fragments from both wild and food supplement