

Table C. Amount of variation (%) explained in the observed years at the peak of phytomass production by topographic variables (jointly and singly considered), vegetation physiognomy, and management type in the overall dataset (a), by slope angle, elevation, vegetation physiognomy and management type, inside each landform (b), slope angle, landform, elevation, and vegetation physiognomy, inside each management type (c).

a)

Year	Topographic variables	Slope angle	Landform	Elevation	Vegetation physiognomy	Management type
2003	8.18	0.47	0.24	6.77	5.72	11.76
2007	18.18	4.12	0.40	6.81	5.50	8.74
2009	12.91	1.83	0.25	5.76	6.98	4.12
2010	12.26	2.58	0.13	5.28	5.89	11.35
2013	0.85	0.00	0.12	0.59	11.82	5.61
2014	13.66	3.05	0.06	6.13	5.92	11.90
2015	17.07	6.08	0.10	5.76	5.79	7.99

b)

Landform	Year	Slope angle	Elevation	Vegetation physiognomy	Management type
North-facing slopes	2003	0.72	8.88	7.61	7.88
	2007	7.49	9.55	7.65	5.01
	2009	5.84	9.51	9.61	1.94
	2010	3.64	8.12	7.79	6.43
	2013	0.22	1.54	13.24	4.16
	2014	5.59	6.99	7.95	7.70
	2015	9.58	4.99	7.90	5.33
South-facing slopes	2003	0.45	6.15	6.43	18.19
	2007	3.24	5.64	5.62	16.34
	2009	0.60	4.63	7.32	6.59
	2010	2.48	4.19	6.64	18.93
	2013	0.05	0.14	13.20	8.95
	2014	1.90	6.04	5.72	22.13
	2015	4.10	7.61	0.05	16.61
Semi-flat tops	2003	0.23	9.23	0.65	0.11
	2007	0.00	20.31	0.73	0.48
	2009	0.00	16.50	1.05	0.00
	2010	0.00	12.61	1.02	0.46
	2013	1.95	2.73	2.59	0.30
	2014	0.06	18.96	0.78	0.24
	2015	0.00	15.48	0.71	0.00
Flat valley bottoms	2003	0.00	0.00	0.56	17.74
	2007	0.00	0.78	2.64	6.95
	2009	0.00	1.26	2.54	6.86
	2010	0.00	1.89	0.69	13.21
	2013	0.00	0.00	5.76	3.07
	2014	0.00	9.55	3.93	0.99
	2015	0.00	13.69	2.93	3.28

c)

Management type	Year	Slope angle	Landform	Elevation	Vegetation physiognomy
Optimal grazing intensity	2003	0.09	1.13	9.28	4.75
	2007	1.24	1.81	14.85	5.64
	2009	0.52	0.67	9.59	5.72
	2010	1.25	1.31	8.66	5.49
	2013	0.33	2.95	1.42	9.95
	2014	0.50	0.81	11.85	2.70
	2015	1.75	0.57	12.83	2.12
Low grazing intensity	2003	0.66	0.65	9.03	9.76
	2007	6.67	0.71	5.48	7.56
	2009	2.82	0.73	4.37	8.52
	2010	3.38	0.48	6.60	9.74
	2013	0.00	0.03	0.67	15.09
	2014	5.13	0.23	7.65	10.71
	2015	8.84	0.09	6.23	9.74
Grazing cessation	2003	0.72	12.61	0.53	2.34
	2007	0.39	10.40	3.77	0.19
	2009	0.61	1.50	1.21	6.78
	2010	2.81	11.09	0.95	0.56
	2013	0.00	4.20	6.16	5.08
	2014	1.67	8.85	1.74	0.40
	2015	2.75	10.93	3.41	0.00
Mowing and grazing	2003	0.00	0.00	0.22	0.00
	2007	0.00	4.66	0.00	0.00
	2009	0.00	0.00	11.22	0.00
	2010	0.00	0.00	0.00	10.52
	2013	0.00	1.87	0.00	15.99
	2014	3.34	0.00	16.60	27.15
	2015	52.94	26.76	3.00	0.00