

Appendix 2 Species abundances (number of pins) and functional traits in grazed and ungrazed plots (mean of three replicates for each species in each treatment scaled to the unit range)

Species present in a plot but not touched by any pin were recorded with an arbitrary cover of 0.5 pins

* Traits measured only in grazed plots; ** Traits measured only in ungrazed plots

Species	Grazed plots					Ungrazed plots				
	SLA	LDMC	%N	d13C(%)	%C	SLA	LDMC	%N	d13C(%)	%C
Acer monspessulanum	0.134	0.906	0.471	0.228	0.808	0.131	0.915	0.269	0.376	0.868
Acinos arvensis	0.074	0.511	0.082	0.259	0.745	0.040	0.475	0.000	0.042	0.722
Arrhenatherum elatius	0.683	0.503	0.659	0.214	0.580	0.849	0.313	0.603	0.474	0.384
Bromus erectus	0.299	0.587	0.403	0.260	0.547	0.039	0.757	0.297	0.029	0.540
Bromus sterilis	0.959	0.237	0.666	0.204	0.644	0.385	0.317	0.495	0.111	0.391
Bupleurum baldense**	0.394	0.535	0.109	0.319	0.463	0.394	0.535	0.109	0.319	0.463
Carlina corymbosa**	0.000	0.103	0.407	0.389	0.587	0.000	0.103	0.407	0.389	0.587
Cerastium arvense**	0.738	0.000	0.579	0.655	0.274	0.738	0.000	0.579	0.655	0.274

Convolvulus arvensis	0	1	2	6	0	3	3	1
0.587	0.021	1.000	0.709	0.593	0.443		0	0
3	1	0	0	0	0.364	0.126	0.667	0.265
0.677								0.649
Cynosurus echinatus*	0	1	0	1	4	3	2	6
0.627	0.327	0.680	0.313	0.601	0.121		0.5	0
0.5	0	0	0	0	0.627	0.327	0.680	0.313
0.121								0.601
Dactylis hispanica	0	25	11	0	20	10	12	25
0.454	0.388	0.569	0.041	0.499	0.382		0.5	25
17	11	11	22	4	0.310	0.666	0.233	0.046
0.675								0.483
Echium vulgare	0	0	0	0	0	0	20	2
0.094	0.056	0.116	0.278	0.000	0.542		0	0
0	0	0	0	0	xxx	xxx	xxx	xxx
xxx								xxx
Erysimum pseudorhaeticum	1	2	0	0	0	1	0	1
0.018	0.226	0.389	0.526	0.331	0.438		0	0
0	0	0	0	0	xxx	xxx	xxx	xxx
xxx								xxx
Geranium columbinum**	1	3	3	1	1	0	1	0
0.691	0.309	0.704	0.572	0.518	0.313		0.5	2
1	3	1	1	0.5	0.691	0.309	0.704	0.572
0.313								0.518
Hypericum perforatum	1	1	0	1	2	0	0.5	1
0.263	0.624	0.261	0.190	0.814	0.170		0	0
2	4	4	1	0	0.240	0.725	0.313	0.225
0.378								0.791
Marrubium incanum		1	0	7	0	0	1	2
0.5	0.063	0.495	0.501	0.161	0.641	0.432		0
0	0	0	0	0	xxx	xxx	xxx	xxx
xxx	xxx							xxx
Opopanax chironium	0	1	0	5	0	0	0	0
0.346	0.180	0.639	0.796	0.539	0.535		0.5	0
0	0	5	0	0	0.553	0.066	0.414	0.413
0.489								0.283
Orlaya grandiflora	1	4	8	7	3	12	1	6
0.077	0.428	0.299	0.131	0.490	0.395		0	0
1	2	1	2	0.5	0.187	0.318	0.340	0.799
0.439								0.353
Phleum ambiguum	1	5	3	0	0	10	2	2
0.261	0.616	0.382	0.000	0.635	0.497		0	0
1	3	1	5	0	0.265	0.631	0.302	0.079
0.398								0.446
Phleum pratense*	40	4	5	23	21	6	7	28
0.439	0.492	0.505	1.000	0.651	0.609		0	0
2	0	0	0	0	0.439	0.492	0.505	1.000
0.609								0.651
Prunus spinosa	20	18	0	0	16	7	3	1
0.198	0.547	0.635	0.496	1.000	0.764		140	40
0	3	0	0	140	0.304	0.509	0.453	0.249
0.701								0.709
Rubus ulmifolius	0	0	0	9	0	0	0	0
0.072	1.000	0.391	0.554	0.807	1.000		0	4
17	0.5	7	0	0	0.052	0.822	0.399	0.274
0.975								0.773
Sanguisorba minor		3	7	4	1	12	1	19
2	0.147	0.914	0.177	0.181	0.551	0.402		0.5

