

Table S1. Means and standard errors (se) of species biomass (g m^{-2}) per treatment, in 2010 and 2011. C = control, D = drought extreme, H = heat extreme, DH = drought + heat extreme. Sometimes identification was possible only to the genus level and not to the species level (indicated by sp.)

Violaceae	<i>Viola</i> sp.											0.006	0.006									
2011																						
Family	Species	Spring					Summer					Autumn										
		Control	se	D	se	H	se	DH	se	D	se	H	se	DH	se	D	se					
Plantaginaceae	<i>Plantago lanceolata</i>	132.38	58.21	27.90	17.32	10.62	3.66	6.00	2.74	25.84	12.72	149.56	140.70	22.48	14.64	47.25	22.61					
Polygonaceae	<i>Rumex acetosella</i>	3.09	1.69			0.22	0.20			0.006	0.006	0.012	0.007	4.52	3.11	0.05	0.03					
	<i>Rumex acetosa</i>	29.73	29.73													2.54	2.50					
Fabaceae	<i>Trifolium repens</i>	5.64	4.06	2.94	1.87	2.98	2.69	0.73	0.73	0.012	0.007			1.75	0.91	30.71	16.84					
	<i>Lotus corniculatus</i>															15.24	14.18					
	<i>Trifolium pratense</i>	34.74	34.74														1.03	1.03				
	<i>Lathyrus pratensis</i>	1.48	0.95	1.10	1.09	4.11	3.89	0.48	0.48	1.67	0.70	0.25	0.25			0.25	0.25	0.88	0.88			
Poaceae	<i>Holcus lanatus</i>	42.70	6.19	83.46	31.79	29.26	9.62	55.05	15.44	100.02	19.48	114.61	39.28	105.21	34.30	86.86	38.80	68.93	10.84	44.94	19.11	
	<i>Agrostis stolonifera</i>	0.19	0.09	0.42	0.40	0.58	0.45	3.25	1.76	0.33	0.33	0.36	0.23	0.19	0.12	0.49	0.38	0.02	0.007	1.15	0.33	
	<i>Dactylis glomerata</i>	9.75	4.93	5.11	2.14	5.21	4.61	15.37	9.87	0.13	0.13	9.16	4.92	40.60	26.94	11.31	6.79	5.45	2.69	13.95	12.01	
	<i>Agrostis capillaris</i>	11.22	6.70	0.006	0.006	39.67	39.67							14.68	14.13	0.006	0.006	0.35	0.35	0.006	0.006	
	<i>Poa annua</i>	0.02	0.02											0.006	0.006	0.006	0.006					
	<i>Poa</i> sp.	0.18	0.18			14.12	14.12	3.81	3.81											1.36	1.36	
Asteraceae	<i>Taraxacum officinale</i>	4.06	1.60	1.94	1.12	5.79	2.15	7.03	4.08	1.32	0.82	1.41	0.83	4.68	4.37	3.09	1.29	2.48	1.18	4.99	4.35	
	<i>Achillea millefolium</i>	8.58	4.58	151.26	131.19	23.48	17.26	57.48	46.46	21.05	14.20	11.57	10.10	25.14	15.99	1.64	1.04	4.69	3.78	24.27	19.39	
	<i>Erigeron acer</i>															0.006	0.006					
	<i>Conyza canadensis</i>	0.002	0.002									3.50	2.62				0.006	0.006				
	<i>Cirsium arvense</i>					11.72	10.38	3.51	3.28					0.006	0.006		8.68	5.24	9.28	4.23		
	<i>Sonchus oleraceus</i>	0.02	0.02	0.006	0.006	0.10	0.07	0.77	0.69			0.05	0.05	0.02	0.02	0.04	0.03	0.006	0.006	0.02	0.01	
	<i>Artemisia vulgaris</i>															1.31	1.31					
	<i>Crepis capillaris</i>	12.19	10.86			1.72	1.72	17.75	6.70	6.15	4.11	1.08	1.08				1.89	1.57	13.81	10.37		
	<i>Carduus</i> sp.	0.20	0.20			2.60	2.21															
Betulaceae	<i>Alnus</i> sp.	2.40	2.40																			
Urticaceae	<i>Urtica dioica</i>													0.006	0.006							
Onagraceae	<i>Epilobium</i> sp.	0.007	0.007									0.0003	0.0002				0.0002	0.0002	0.009	0.009		
Caryophyllaceae	<i>Cerastium fontanum</i>											0.006	0.006									
Geraniaceae	<i>Geranium molle</i>	0.04	0.04			0.31	0.28	0.07	0.06	0.012	0.007	0.07	0.06	0.006	0.006	0.006	0.006	0.05	0.04	0.006	0.006	
Boraginaceae	<i>Myosotis arvensis</i>	0.46	0.34	0.024	0.007	0.69	0.68	0.06	0.04	0.22	0.15	0.06	0.04	0.07	0.05	0.006	0.006	0.006	0.38	0.29		
Lamiaceae	<i>Prunella vulgaris</i>	0.24	0.24																			
Ranunculaceae	<i>Ranunculus repens</i>															0.20	0.20					
Hypericaceae	<i>Hypericum perforatum</i>	0.05	0.05																			
Violaceae	<i>Viola</i> sp.	0.03	0.03													0.17	0.16					
Brassicaceae	<i>Cardamine pratensis</i>					0.006	0.006															
Equisetaceae	<i>Equisetum arvense</i>															7.04	7.04					