

Electronic Appendix 1. – Temporal change of successional dominants (percentage cover values \pm SE) during the study period. Species with a cumulated average cover over 2.5% at least at one site are listed. H – high sites, L – low sites.

Site/year	H1																							
Species	1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002	
<i>Amaranthus albus</i>	61.6	± 10.7	0.0	± 0.0	0.3	± 0.1	0.0	± 0.0	1.0	± 1.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0						
<i>Ambrosia artemisiifolia</i>	1.6	± 1.1	1.1	± 0.7	4.1	± 2.7	5.8	± 2.6	23.6	± 5.5	10.6	± 2.2	2.4	± 0.5	11.8	± 2.5	3.2	± 0.5	0.1	± 0.0	7.8	± 1.0	0.1	± 0.0
<i>Anthemis ruthenica</i>	0.3	± 0.2	47.2	± 13.2	18.4	± 8.2	8.0	± 4.2	0.1	± 0.1	3.0	± 0.3	13.0	± 5.6	2.5	± 0.7	1.0	± 0.3	0.8	± 0.6	2.8	± 1.0	1.5	± 0.6
<i>Apera spica-venti</i>	0.0	± 0.0	0.3	± 0.2	15.4	± 6.5	56.0	± 5.8	1.2	± 0.3	0.3	± 0.1	0.3	± 0.1	0.8	± 0.3	0.7	± 0.6	0.1	± 0.1	0.1	± 0.1	0.0	± 0.0
<i>Bromus tectorum</i>	0.0	± 0.0	0.5	± 0.3	0.0	± 0.0	0.0	± 0.0	0.2	± 0.1	0.0	± 0.0	7.2	± 2.4	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0
<i>Carex stenophylla</i>	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.3	± 0.3
<i>Chondrilla juncea</i>	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0
<i>Conyza canadensis</i>	3.1	± 1.1	32.2	± 16.8	19.0	± 4.4	0.2	± 0.1	0.5	± 0.3	0.2	± 0.0	0.5	± 0.1	0.8	± 0.3	0.5	± 0.3	0.6	± 0.4	0.1	± 0.1	0.8	± 0.3
<i>Cynodon dactylon</i>	0.0	± 0.0	0.0	± 0.0	0.1	± 0.1	0.0	± 0.0	0.1	± 0.1	0.9	± 0.8	1.5	± 1.4										
<i>Equisetum ramosissimum</i>	0.7	± 0.1	0.6	± 0.1	1.6	± 0.2	1.0	± 0.2	1.5	± 0.4	1.6	± 0.5	0.3	± 0.1	2.4	± 1.9	0.4	± 0.1	4.1	± 1.3	1.5	± 0.4	1.8	± 0.6
<i>Eryngium campestre</i>	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.1	± 0.1	0.6	± 0.3	1.9	± 0.9	1.6	± 0.7	2.7	± 1.2	3.4	± 1.0	3.9	± 1.0	7.0	± 3.0
<i>Erysimum diffusum</i>	0.0	± 0.0	0.0	± 0.0	1.6	± 0.5	2.7	± 1.3	3.5	± 2.1	5.4	± 1.7	4.1	± 0.9	0.2	± 0.1	0.0	± 0.0	0.0	± 0.0	1.9	± 0.9	0.9	± 0.5
<i>Lepidium densiflorum</i>	0.0	± 0.0	0.0	± 0.0	0.4	± 0.4	0.0	± 0.0	0.1	± 0.1	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0	0.0	± 0.0						
<i>Poa angustifolia</i>	0.0	± 0.0	0.2	± 0.1	0.2	± 0.1	2.2	± 0.9	6.4	± 2.1	5.2	± 1.6	9.8	± 2.7	35.0	± 8.8	38.0	± 9.0	9.0	± 1.1	16.6	± 2.2	33.4	± 4.7
<i>Poa pratensis</i>	0.0	± 0.0	0.0	± 0.0	0.1	± 0.1	1.1	± 0.6	0.3	± 0.3	0.5	± 0.4	0.7	± 0.6	1.2	± 1.0	0.8	± 0.3	0.3	± 0.2	0.7	± 0.6	0.0	± 0.0
<i>Potentilla argentea</i>	0.0	± 0.0	0.0	± 0.0	0.2	± 0.1	0.5	± 0.4	0.4	± 0.2	0.6	± 0.3	1.1	± 0.3	3.0	± 1.4	3.9	± 1.4	9.3	± 3.9	9.6	± 2.5	11.3	± 4.6
<i>Rumex acetosella</i>	2.6	± 1.1	7.6	± 4.2	0.9	± 0.5	1.4	± 0.5	0.8	± 0.6	0.2	± 0.1	6.0	± 2.9	19.2	± 8.5	11.0	± 4.4	0.2	± 0.1	2.2	± 1.2	4.7	± 1.2
<i>Trifolium arvense</i>	0.0	± 0.0	0.2	± 0.1	0.2	± 0.1	7.3	± 3.1	4.1	± 1.9	0.3	± 0.1	20.6	± 6.1	0.1	± 0.1	43.0	± 14.7	0.0	± 0.0	19.8	± 1.6	0.1	± 0.0

Site/year	L2																							
Species	1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002	
<i>Amaranthus albus</i>	0.5	±0.2	0.1	±0.0	0.1	±0.0	0.0	±0.0	0.1	±0.1	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	
<i>Ambrosia artemisiifolia</i>	0.2	±0.2	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	
<i>Anthemis ruthenica</i>	0.0	±0.0	0.4	±0.4	0.5	±0.4	0.3	±0.2	2.1	±0.9	1.0	±0.4	4.0	±1.2	0.0	±0.0	0.1	±0.1	0.0	±0.0	0.0	±0.0	0.0	±0.0
<i>Apera spica-venti</i>	0.0	±0.0	0.2	±0.1	0.1	±0.1	6.6	±2.7	15.4	±2.1	3.4	±0.8	2.5	±0.6	5.8	±1.2	2.9	±0.7	0.0	±0.0	0.0	±0.0	0.0	±0.0
<i>Bromus tectorum</i>	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.6	±0.2	2.9	±1.0	0.0	±0.0	0.1	±0.1	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0
<i>Carex stenophylla</i>	2.2	±1.0	0.7	±0.3	0.1	±0.1	1.9	±0.9	1.3	±0.6	0.6	±0.3	2.9	±0.8	6.6	±3.4	4.2	±3.2	0.2	±0.2	0.4	±0.3	0.2	±0.2
<i>Chondrilla juncea</i>	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.4	±0.4	0.0	±0.0	0.6	±0.4	0.7	±0.4	3.6	±1.2	0.8	±0.4	3.7	±1.1	0.5	±0.3	0.2	±0.1
<i>Conyza canadensis</i>	6.0	±1.3	0.4	±0.3	0.8	±0.2	0.1	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.1	±0.1
<i>Cynodon dactylon</i>	6.6	±2.6	4.3	±1.7	9.2	±4.3	21.4	±4.1	37.2	±2.5	38.0	±4.1	39.0	±6.9	54.0	±8.6	61.0	±10.3	54.0	±7.5	45.0	±3.3	48.4	±3.2
<i>Equisetum ramosissimum</i>	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0
<i>Eryngium campestre</i>	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0
<i>Erysimum diffusum</i>	1.0	±0.8	37.8	±4.9	19.6	±3.1	26.0	±4.2	2.1	±0.6	9.6	±1.9	0.1	±0.1	0.6	±0.4	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0
<i>Lepidium densiflorum</i>	0.1	±0.1	11.6	±4.0	16.0	±4.9	3.3	±1.0	1.8	±0.4	0.8	±0.4	0.2	±0.1	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0
<i>Poa angustifolia</i>	0.4	±0.3	0.1	±0.1	0.0	±0.0	0.3	±0.2	2.1	±1.1	1.1	±0.6	9.6	±6.4	7.2	±3.2	17.6	±11.0	14.4	±4.8	28.2	±6.8	27.8	±6.6
<i>Poa pratensis</i>	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.4	±0.4	1.4	±0.9	10.8	±5.3	15.0	±6.9	11.0	±6.1	14.4	±6.6	13.0	±5.9	10.9	±6.5
<i>Potentilla argentea</i>	0.2	±0.1	0.3	±0.3	0.8	±0.4	0.9	±0.6	1.4	±0.6	0.7	±0.3	3.9	±1.6	9.0	±3.6	0.7	±0.4	0.8	±0.6	0.4	±0.3	0.0	±0.0
<i>Rumex acetosella</i>	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0
<i>Trifolium arvense</i>	0.1	±0.1	0.0	±0.0	0.1	±0.1	0.5	±0.1	0.2	±0.1	0.1	±0.0	0.1	±0.1	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0	0.0	±0.0