

1 **App. 1.** Seed accumulation index (SAI), absolute frequency ($N = 46$) and abundance in above-ground vegetation (AV) and soil seed 55
 2 bank (SB) at two depths, and maximum seed densities per plot at two depths for 187 species recorded in the study. Abundance in AV 56
 3 is given as cumulative cover and in the SB as total number of seeds over all plots. Target species of flood-meadows are printed in 57
 4 bold. 58

Species	Frequency			Abundance		Maximum
	SAI	AV	SB 0-5 / 5-10	AV	SB 0-5 / 5-10	Seeds / m ² 0-10 / 5-10
<i>Cyperus fuscus</i>	100	0	1 / 3	0	5 / 5	560 / 210
<i>Erucastrum gallicum</i>	100	0	2 / 3	0	2 / 7	420 / 350
<i>Juncus articulatus</i>	100	0	9 / 11	0	73 / 65	2590 / 1400
<i>Sagina procumbens</i>	100	0	4 / 2	0	4 / 3	140 / 140
<i>Arenaria serpyllifolia</i>	95	2	13 / 8	<1	49 / 20	1680 / 840
<i>Centaureum pulchellum</i>	94	1	7 / 6	<1	33 / 40	3290 / 1750
<i>Anagallis arvensis</i>	92	1	1 / 5	<1	43 / 23	3290 / 770
<i>Chenopodium album</i>	91	4	14 / 14	1	91 / 91	3010 / 1750
<i>Chenopodium hybridum</i>	90	1	2 / 3	<1	5 / 52	2940 / 2730
<i>Chenopodium polyspermum</i>	88	7	17 / 14	3	412 / 479	10290 / 7140
<i>Solanum nigrum</i>	87	1	3 / 3	<1	17 / 20	1120 / 770
<i>Veronica catenata</i>	87	2	4 / 4	<1	20 / 11	770 / 280
<i>Erophila verna</i> agg.	87	1	3 / 2	<1	20 / 4	1260 / 210
<i>Chenopodium rubrum</i>	87	1	3 / 1	<1	8 / 2	350 / 140
<i>Polygonum aviculare</i>	87	1	0 / 3	<1	0 / 5	210 / 210
<i>Stellaria media</i>	86	2	5 / 2	<1	9 / 5	280 / 140
<i>Veronica peregrina</i>	83	4	7 / 5	3	818 / 235	13440 / 3780
<i>Cerastium dubium</i>	83	2	4 / 4	3	886 / 230	31780 / 5950
<i>Capsella bursa-pastoris</i>	83	7	11 / 10	1	55 / 41	2030 / 910
<i>Veronica serpyllifolia</i>	82	12	22 / 18	2	197 / 98	2450 / 1400
<i>Lamium purpureum</i>	82	2	3 / 3	1	25 / 13	1470 / 630
<i>Arabis nemorensis</i>	81	6	10 / 8	6	570 / 89	6230 / 1260
<i>Sonchus asper</i>	77	10	11 / 4	1	21 / 6	560 / 210
<i>Juncus alpinus</i>	77	5	3 / 2	1	15 / 7	2100 / 280
<i>Persicaria maculosa</i>	76	4	5 / 3	1	6 / 13	770 / 700
<i>Plantago major intermedia</i>	75	11	15 / 11	17	104 / 33	1680 / 420
<i>Urtica dioica</i>	75	5	7 / 2	2	10 / 8	490 / 490
<i>Silene flos-cuculi</i>	73	22	20 / 15	22	455 / 79	6020 / 700
<i>Cardamine parviflora</i>	72	4	3 / 4	6	65 / 28	1820 / 770
<i>Poa trivialis</i>	71	31	28 / 20	36	378 / 125	4550 / 1120
<i>Lythrum salicaria</i>	71	25	19 / 13	10	87 / 52	3570 / 630
<i>Cerastium holosteoides</i>	71	26	26 / 18	16	82 / 27	1190 / 280
<i>Trifolium repens</i>	71	9	7 / 4	2	15 / 8	420 / 210
<i>Ajuga reptans</i>	69	9	7 / 6	13	228 / 31	4340 / 490
<i>Veronica arvensis</i>	69	19	15 / 8	12	104 / 19	840 / 700
<i>Carex panicea</i>	69	8	6 / 4	17	32 / 13	2590 / 560
<i>Trifolium hybridum</i>	69	6	4 / 4	11	283 / 78	8470 / 1960
<i>Viola persicifolia</i>	68	4	4 / 1	5	5 / 1	770 / 70
<i>Galeopsis tetrahit</i>	67	3	0 / 2	1	0 / 11	700 / 700
<i>Pseudolysimachion longifolium</i>	67	14	9 / 6	20	246 / 56	7000 / 1610
<i>Rorippa sylvestris</i>	66	8	5 / 3	8	60 / 64	3150 / 1820
<i>Leucanthemum vulgare</i> agg.	66	24	18 / 12	16	65 / 20	700 / 210
<i>Hypericum perforatum</i>	66	9	6 / 3	3	15 / 5	420 / 140
<i>Glechoma hederacea</i>	66	21	17 / 14	15	50 / 31	1120 / 350
<i>Rorippa palustris</i>	66	4	2 / 2	1	19 / 36	2100 / 1540
<i>Viola elatior</i>	63	3	2 / 2	11	57 / 11	2660 / 490
<i>Ranunculus repens</i>	63	29	21 / 21	103	286 / 101	3640 / 980
<i>Cardamine pratensis</i> agg.	63	3	2 / 0	0	2 / 0	70 / 0
<i>Linum catharticum</i>	62	9	6 / 2	9	30 / 4	490 / 210
<i>Myosotis arvensis</i>	61	9	6 / 4	11	34 / 6	980 / 210
<i>Agrostis stolonifera</i>	61	22	15 / 7	47	95 / 38	1610 / 560
<i>Mentha aquatica</i>	61	3	1 / 1	1	10 / 2	490 / 140
<i>Epilobium tetragonum</i>	60	13	4 / 3	2	6 / 3	210 / 70
<i>Achillea millefolium</i>	60	28	19 / 7	35	84 / 38	1820 / 1540
<i>Carex hirta</i>	60	10	4 / 3	10	93 / 7	2030 / 280
<i>Barbarea stricta</i>	60	7	3 / 1	2	14 / 2	490 / 140
<i>Medicago lupulina</i>	59	11	7 / 3	4	8 / 3	140 / 70
<i>Valerianaella locusta</i>	59	12	8 / 1	9	29 / 1	770 / 70

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1	2	Frequency			Abundance		Maximum Seeds / m ² 0-10 / 5-10	55	
		Species	AV	SB	AV	SB			56
			SAI	0-5 / 5-10	0-5 / 5-10	0-5 / 5-10			
4								58	
5		<i>Allium angulosum</i>	58	15	8 / 4	15	63 / 5	1400 / 70	59
6		<i>Potentilla reptans</i>	58	37	25 / 21	194	339 / 186	7980 / 2660	60
7		<i>Lysimachia vulgaris</i>	57	23	10 / 12	77	102 / 63	4620 / 840	61
8		<i>Potentilla erecta</i>	55	5	1 / 0	2	1 / 0	420 / 0	62
9		<i>Carex tomentosa</i>	55	16	6 / 6	10	19 / 8	420 / 140	63
10		<i>Thalictrum flavum</i>	55	18	6 / 1	17	45 / 4	1540 / 280	64
11		<i>Rorippa amphibia</i>	54	3	0 / 1	1	0 / 3	210 / 210	65
12		<i>Daucus carota</i>	54	16	7 / 5	13	23 / 6	490 / 140	66
13		<i>Carex flacca</i>	54	7	1 / 0	4	2 / 0	1330 / 0	67
14		<i>Juncus compressus</i>	54	4	0 / 1	0	0 / 3	210 / 210	68
15		<i>Juncus inflexus</i>	54	3	1 / 0	0	2 / 0	140 / 0	69
16		<i>Carex spicata</i>	53	21	8 / 6	15	27 / 14	700 / 350	70
17		<i>Mercurialis annua</i>	53	4	0 / 1	0	0 / 2	140 / 140	71
18		<i>Conyza canadensis</i>	51	8	2 / 0	1	4 / 0	140 / 0	72
19		<i>Mentha arvensis</i>	51	9	2 / 3	3	3 / 4	140 / 70	73
20		<i>Vicia angustifolia</i>	50	23	13 / 3	34	47 / 3	560 / 70	74
21		<i>Viola pumila</i>	48	21	8 / 5	24	39 / 7	630 / 140	75
22		<i>Galium palustre</i>	48	13	4 / 2	20	15 / 4	980 / 140	76
23		<i>Trifolium dubium</i>	47	14	6 / 2	13	21 / 2	350 / 70	77
24		<i>Eleocharis palustris</i> agg.	47	7	2 / 2	2	2 / 2	140 / 70	78
25		<i>Euphorbia esula</i>	47	22	3 / 4	12	18 / 19	1120 / 770	79
26		<i>Ranunculus polyanthemos</i> agg.	47	19	6 / 3	10	19 / 4	420 / 140	80
27		<i>Rumex crispus</i>	46	29	12 / 2	15	19 / 3	350 / 140	81
28		<i>Carex riparia</i>	44	3	1 / 0	1	1 / 0	70 / 0	82
29		<i>Cirsium tuberosum</i>	44	3	2 / 0	3	3 / 0	140 / 0	83
30		<i>Linaria vulgaris</i>	43	4	1 / 0	1	2 / 0	140 / 0	84
31		<i>Poa palustris</i>	43	12	5 / 2	11	9 / 5	350 / 280	85
32		<i>Centaurea jacea</i>	42	25	10 / 5	30	28 / 10	980 / 350	86
33		<i>Taraxacum officinale</i> agg.	42	32	21 / 15	128	58 / 29	1120 / 350	87
34		<i>Galium boreale</i>	41	3	1 / 0	1	1 / 0	70 / 0	88
35		<i>Viola hirta</i>	41	10	4 / 3	8	5 / 4	140 / 70	89
36		<i>Poa angustifolia</i>	41	39	27 / 21	309	141 / 46	980 / 350	90
37		<i>Trifolium campestre</i>	40	16	4 / 1	22	33 / 2	1190 / 140	91
38		<i>Prunella vulgaris</i>	39	18	7 / 1	11	10 / 1	140 / 70	92
39		<i>Bellis perennis</i>	39	9	2 / 2	7	7 / 3	490 / 140	93
40		<i>Potentilla anserina</i>	37	11	2 / 2	15	14 / 3	630 / 140	94
41		<i>Scutellaria galericulata</i>	37	4	0 / 0	2	0 / 0	140 / 0	95
42		<i>Plantago lanceolata</i>	37	26	10 / 1	31	25 / 1	490 / 70	96
43		<i>Rumex acetosalthrysiflorus</i>	35	24	13 / 3	88	42 / 3	560 / 70	97
44		<i>Genista tinctoria</i>	35	4	2 / 0	32	10 / 0	210 / 0	98
45		<i>Deschampsia cespitosa</i>	34	16	6 / 3	28	12 / 3	350 / 70	99
46		<i>Galium wirtgenii</i>	34	36	11 / 5	55	35 / 9	560 / 350	100
47		<i>Stachys palustris</i>	34	15	3 / 1	13	5 / 1	210 / 70	101
48		<i>Lotus corniculatus</i>	34	26	3 / 1	13	12 / 1	490 / 70	102
49		<i>Iris sibirica</i>	33	5	2 / 0	9	5 / 0	210 / 0	103
50		<i>Cirsium arvense</i>	32	36	10 / 4	50	17 / 9	280 / 210	104
51		<i>Vicia hirsuta</i>	31	3	1 / 0	2	1 / 0	70 / 0	105
52		<i>Scutellaria hastifolia</i>	31	11	1 / 2	15	6 / 4	280 / 140	106
53		<i>Carex acuta</i>	30	7	5 / 1	71	14 / 1	350 / 70	107
54		<i>Erigeron annuus</i>	29	8	2 / 0	3	2 / 0	70 / 0	108
55		<i>Carex praecox</i>	29	17	3 / 3	18	9 / 3	280 / 70	109
56		<i>Galium album</i>	27	26	5 / 0	18	9 / 0	140 / 0	110
57		<i>Solidago canadensis</i>	27	6	0 / 1	2	0 / 1	70 / 70	111
58		<i>Ranunculus acris</i>	27	17	2 / 1	6	3 / 1	140 / 70	112
59		<i>Holcus lanatus</i>	27	6	2 / 0	5	2 / 0	70 / 0	113
60		<i>Veronica teucrium</i>	26	3	1 / 0	3	1 / 0	70 / 0	114
61		<i>Molinia caerulea</i> agg.	26	5	1 / 1	91	4 / 5	350 / 350	115
62		<i>Trifolium pratense</i>	23	22	3 / 2	16	4 / 2	140 / 70	116
63		<i>Lathyrus pratensis</i>	17	36	5 / 1	58	14 / 1	280 / 70	117
64		<i>Carex disticha</i>	17	21	4 / 1	103	18 / 1	560 / 70	118
65		<i>Dactylis glomerata</i>	16	32	3 / 3	38	4 / 5	280 / 210	119
66		<i>Iris pseudacorus</i>	16	14	1 / 0	8	1 / 0	70 / 0	120
67		<i>Euphorbia palustris</i>	16	8	1 / 0	4	1 / 0	70 / 0	121
68		<i>Succisa pratensis</i>	16	8	1 / 0	23	1 / 0	140 / 0	122

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1	2	Frequency			Abundance		Maximum	55
		3	AV	SB	AV	SB	Seeds / m ²	
4	Species							58
5	<i>Myosotis scorpioides</i> agg.	15	5	1 / 0	6	1 / 0	70 / 0	59
6	<i>Phalaris arundinacea</i>	14	22	3 / 2	95	5 / 4	140 / 140	60
7	<i>Selinum carvifolia</i>	13	4	1 / 0	15	1 / 0	70 / 0	61
8	<i>Symphytum officinale</i>	12	30	2 / 2	42	2 / 2	140 / 70	62
9	<i>Galium aparine</i> ssp. <i>aparine</i>	11	20	1 / 2	25	1 / 3	140 / 70	63
10	<i>Vicia cracca</i>	9	41	4 / 0	65	6 / 0	140 / 0	64
11	<i>Inula salicina</i>	9	19	2 / 1	106	2 / 1	140 / 70	65
12	<i>Valeriana pratensis</i>	8	21	2 / 0	45	4 / 0	210 / 0	66
13	<i>Calamagrostis epigejos</i>	6	23	0 / 0	55	0 / 0	350 / 0	67
14	<i>Festuca rubra</i> agg.	5	13	1 / 0	36	1 / 0	70 / 0	68
15	<i>Carex acutiformis</i>	4	20	1 / 0	55	2 / 0	140 / 0	69
16	<i>Serratula tinctoria</i>	3	22	0 / 0	81	0 / 0	70 / 0	70
17	<i>Sanguisorba officinalis</i>	3	28	0 / 1	52	0 / 1	70 / 70	71
18	<i>Festuca arundinacea</i>	2	31	1 / 0	168	1 / 0	70 / 0	72
19	<i>Alopecurus pratensis</i>	0	39	0 / 0	473	0 / 0	0 / 0	73
20	<i>Elymus repens</i>	0	36	0 / 0	727	0 / 0	0 / 0	74
21	<i>Arrhenatherum elatius</i>	0	34	0 / 0	123	0 / 0	0 / 0	75
22	<i>Equisetum arvense</i>	0	29	0 / 0	18	0 / 0	0 / 0	76
23	<i>Asparagus officinalis</i>	0	24	0 / 0	7	0 / 0	0 / 0	77
24	<i>Festuca pratensis</i>	0	23	0 / 0	43	0 / 0	0 / 0	78
25	<i>Silaum silaus</i>	0	23	0 / 0	11	0 / 0	0 / 0	79
26	<i>Lysimachia nummularia</i>	0	22	0 / 0	21	0 / 0	0 / 0	80
27	<i>Rubus caesius</i>	0	20	0 / 0	51	0 / 0	0 / 0	81
28	<i>Convolvulus arvensis</i>	0	18	0 / 0	12	0 / 0	0 / 0	82
29	<i>Pericaria amphibia</i>	0	17	0 / 0	18	0 / 0	0 / 0	83
30	<i>Bromus hordeaceus</i>	0	14	0 / 0	13	0 / 0	0 / 0	84
31	<i>Peucedanum officinale</i>	0	14	0 / 0	48	0 / 0	0 / 0	85
32	<i>Phragmites australis</i>	0	14	0 / 0	17	0 / 0	0 / 0	86
33	<i>Agrimonia eupatoria</i>	0	13	0 / 0	4	0 / 0	0 / 0	87
34	<i>Lactuca serriola</i>	0	12	0 / 0	2	0 / 0	0 / 0	88
35	<i>Trisetum flavescens</i>	0	12	0 / 0	21	0 / 0	0 / 0	89
36	<i>Cirsium vulgare</i>	0	10	0 / 0	11	0 / 0	0 / 0	90
37	<i>Arctium lappa</i>	0	9	0 / 0	3	0 / 0	0 / 0	91
38	<i>Filipendula ulmaria</i>	0	9	0 / 0	2	0 / 0	0 / 0	92
39	<i>Pastinaca sativa</i>	0	8	0 / 0	1	0 / 0	0 / 0	93
40	<i>Senecio erucifolius</i>	0	8	0 / 0	4	0 / 0	0 / 0	94
41	<i>Fragaria vesca</i>	0	7	0 / 0	24	0 / 0	0 / 0	95
42	<i>Calystegia sepium</i>	0	6	0 / 0	1	0 / 0	0 / 0	96
43	<i>Crepis biennis</i>	0	6	0 / 0	1	0 / 0	0 / 0	97
44	<i>Tragopogon pratensis</i>	0	6	0 / 0	1	0 / 0	0 / 0	98
45	<i>Vincetoxicum hirsutum</i>	0	6	0 / 0	5	0 / 0	0 / 0	99
46	<i>Achillea ptarmica</i>	0	5	0 / 0	4	0 / 0	0 / 0	100
47	<i>Bromus inermis</i>	0	5	0 / 0	10	0 / 0	0 / 0	101
48	<i>Cnidium dubium</i>	0	5	0 / 0	7	0 / 0	0 / 0	102
49	<i>Lathyrus tuberosus</i>	0	5	0 / 0	3	0 / 0	0 / 0	103
50	<i>Phleum pratense</i>	0	5	0 / 0	2	0 / 0	0 / 0	104
51	<i>Allium vineale</i>	0	4	0 / 0	1	0 / 0	0 / 0	105
52	<i>Carex elata</i>	0	4	0 / 0	8	0 / 0	0 / 0	106
53	<i>Carex vesicaria</i>	0	4	0 / 0	6	0 / 0	0 / 0	107
54	<i>Colchicum autumnale</i>	0	4	0 / 0	1	0 / 0	0 / 0	108
	<i>Gentiana pneumonanthe</i>	0	4	0 / 0	2	0 / 0	0 / 0	
	<i>Lathyrus palustris</i>	0	4	0 / 0	3	0 / 0	0 / 0	
	<i>Lemna minor</i>	0	4	0 / 0	4	0 / 0	0 / 0	
	<i>Senecio paludosus</i>	0	4	0 / 0	2	0 / 0	0 / 0	
	<i>Vicia sepium</i>	0	4	0 / 0	2	0 / 0	0 / 0	
	<i>Butomus umbellatus</i>	0	3	0 / 0	1	0 / 0	0 / 0	
	<i>Caltha palustris</i>	0	3	0 / 0	1	0 / 0	0 / 0	
	<i>Dipsacus fullonum</i>	0	3	0 / 0	8	0 / 0	0 / 0	
	<i>Echinochloa crus-galli</i>	0	3	0 / 0	0	0 / 0	0 / 0	
	<i>Equisetum palustre</i>	0	3	0 / 0	1	0 / 0	0 / 0	
	<i>Helictotrichon pubescens</i>	0	3	0 / 0	2	0 / 0	0 / 0	
	<i>Lycopus europaeus</i>	0	3	0 / 0	1	0 / 0	0 / 0	
	<i>Plantago media</i>	0	3	0 / 0	2	0 / 0	0 / 0	

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