

Supplementary Materials

Table S1. Mean field size [min:max], soil quality score (SQR), tillage regime and main crops cultivated on the 7 studied farms.

	Mean field size (ha) [min:max] ha	SQR	Soil fertility	Tillage	Main crops
Farm 1	31 [1.1:104]	18–48	poor to moderate	low-tillage	cereals, maize, rape seed, sugar beet
Farm 2*	11 [0.2:54]	26–35	poor	low-tillage	cereals, maize, rape seed
Farm 3	32 [0.1:149]	65–90	high to very high	low-tillage	cereals, potato, maize
Farm 4	7 [0.2:18]	26–35	poor	<i>rotational till.</i>	cereals, potato, sugar beet
Farm 5*	3 [0.1:9.6]	36–65	poor to high	conventional	cereals, maize
Farm 6*	5 [0.1:18.4]	35–72	poor to high	conventional	cereals, sugar beet
Farm 7*	5 [1.2:10.8]	23–70	poor to high	conventional	cereals, maize

* fertilization: additionally, fermentation residues from biogas plants and manure

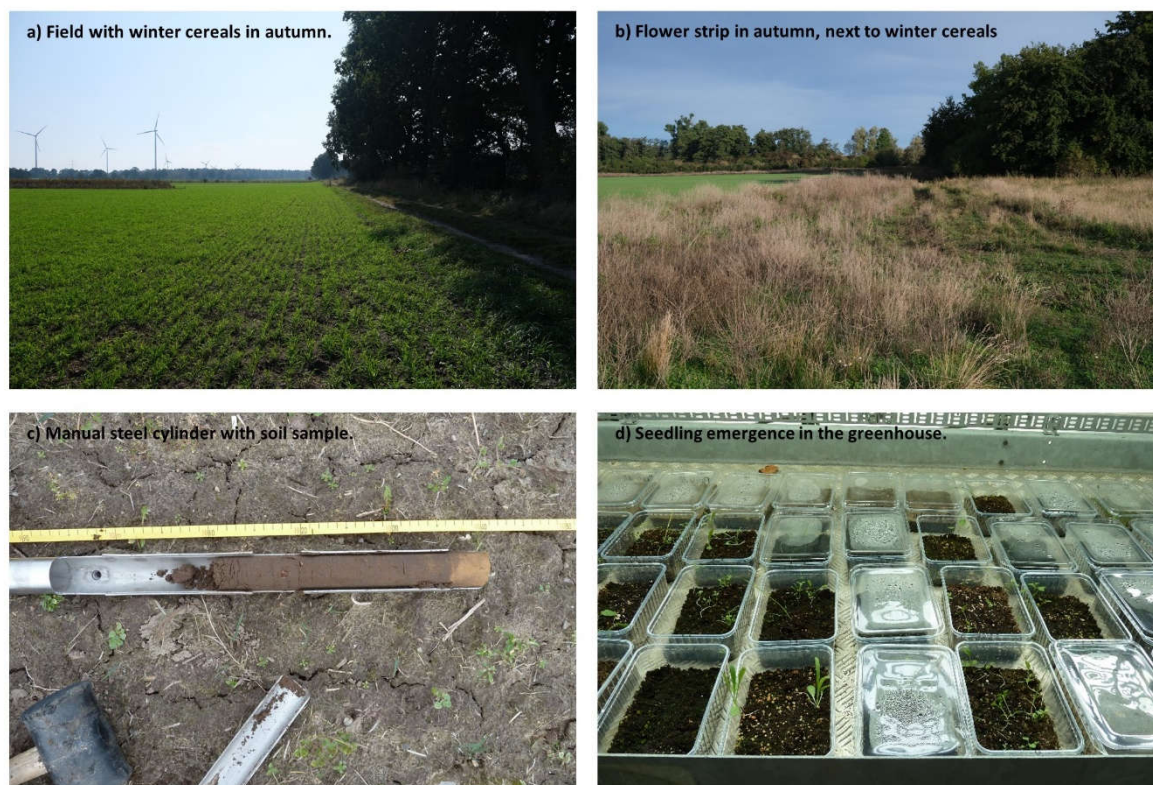


Figure S1: Soil seed bank sampling; (a) field edge with winter cereals, (b) flower strip in autumn, (c) soil sampling and d) seedling emergence in the greenhouse.

Table S2: Species list for distance classes (alphabetically ordered), mean values for species and seed [mean \pm sd] and total number of seedlings per species.

	total	%	0 m	0.5 m	1 m	2 m	3 m	4 m	5 m
Species/groups	58		7.6 \pm 3.2	7.9 \pm 2	5.8 \pm 2.5	4.3 \pm 2.4	4.7 \pm 2.4	3.9 \pm 2.3	3 \pm 1.9
Seedlings	1261		38 \pm 24	56 \pm 74	24 \pm 18	10 \pm 5	11 \pm 8	13 \pm 12	6 \pm 5
"Chamomilla"	99	7.9	18	24	33	11	5	3	5
"Grasses unidentified"	7	0.6	0	2	3	0	0	2	0
"Forbs unidentified"	1	0.1	1	0	0	0	0	0	0
<i>Achillea millefolium</i>	7	0.6	3	1	2	0	1	0	0
<i>Aethusa cynopium</i>	34	2.7	2	11	7	7	5	2	0
<i>Agrostis stolonifera</i>	1	0.1	0	0	0	0	0	1	0
<i>Alopecurus myosuroides</i>	15	1.2	2	3	3	0	0	5	2
<i>Amaranthus</i> spp.	64	5.1	1	42	19	0	0	0	2
<i>Anagalis arvensis</i>	1	0.1	0	0	0	0	1	0	0
<i>Anthriscus sylvestris</i>	2	0.2	2	0	0	0	0	0	0
<i>Apera spica-venti</i>	4	0.3	0	3	0	0	0	1	0
<i>Aphanes arvensis</i>	1	0.1	1	0	0	0	0	0	0
<i>Arabidopsis thaliana</i>	17	1.3	9	1	4	2	1	0	0
<i>Artemisia vulgaris</i>	1	0.1	0	0	0	0	0	1	0
<i>Brassica napus</i>	2	0.2	0	1	0	0	0	1	0
<i>Capsella bursa-pastoris</i>	28	2.2	10	3	3	1	1	6	4
<i>Centaurea cyanus</i>	3	0.2	0	0	0	1	1	1	0
<i>Chenopodium album</i>	479	38	96	234	56	18	22	39	14
<i>Conyza canadensis</i>	6	0.5	2	2	0	0	2	0	0
<i>Crepis biennis</i>	1	0.1	0	1	0	0	0	0	0
<i>Descuriana sophia</i>	42	3.3	0	1	2	5	20	11	3
<i>Echinochloa crus-galli</i>	3	0.2	0	0	0	0	1	1	1
<i>Epilobium</i> spp.	1	0.1	0	0	0	0	0	1	0
<i>Erigeron annua</i>	1	0.1	0	0	1	0	0	0	0

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	total	%	0 m	0.5 m	1 m	2 m	3 m	4 m	5 m
<i>Euphorbia spp.</i>	1	0.1	0	0	0	1	0	0	0
<i>Fallopia convolvulus</i>	3	0.2	0	2	0	1	0	0	0
<i>Festuca ovina</i>	1	0.1	0	1	0	0	0	0	0
<i>Galium aparine</i>	2	0.2	0	0	2	0	0	0	0
<i>Geranium pusillum</i>	5	0.4	4	1	0	0	0	0	0
<i>Geranium spp.</i>	1	0.1	1	0	0	0	0	0	0
<i>Holcus lanatus</i>	1	0.1	0	0	1	0	0	0	0
<i>Juncus spp.</i>	13	1	2	0	1	2	1	2	5
<i>Lactuca serriola</i>	19	1.5	2	1	3	2	1	9	1
<i>Lamium amplexicaule</i>	3	0.2	1	2	0	0	0	0	0
<i>Lamium purpureum</i>	11	0.9	6	3	1	0	1	0	0
<i>Linaria vulgaris</i>	1	0.1	1	0	0	0	0	0	0
<i>Mercurialis annua</i>	2	0.2	0	0	1	0	0	0	1
<i>Myosotis arvensis</i>	2	0.2	0	0	1	0	1	0	0
<i>Papaver spp.</i>	46	3.6	15	11	5	4	7	3	1
<i>Plantago lanceolata</i>	48	3.8	17	22	4	3	2	0	0
<i>Plantago major</i>	6	0.5	0	1	1	3	1	0	0
<i>Poa pratensis</i>	3	0.2	1	0	0	2	0	0	0
<i>Poa trivialis</i>	18	1.4	6	7	1	0	0	1	3
<i>Polygonum aviculare</i>	28	2.2	12	6	7	1	1	0	1
<i>Rumex crispus</i>	7	0.6	6	1	0	0	0	0	0
<i>Rumex crispus</i>	6	0.5	5	1	0	0	0	0	0
<i>Sagina procumbens</i>	1	0.1	0	0	0	0	1	0	0
<i>Sisymbrium officinalis</i>	4	0.3	2	0	1	1	0	0	0
<i>Solanum nigrum</i>	2	0.2	1	0	0	0	1	0	0
<i>Solidago spp.</i>	2	0.2	1	1	0	0	0	0	0
<i>Sonchus arvensis</i>	5	0.4	0	2	2	1	0	0	0
<i>Sonchus asper</i>	3	0.2	0	1	1	0	1	0	0
<i>Sonchus oleraceus</i>	8	0.6	2	3	0	0	0	3	0
<i>Stellaria media</i>	11	0.9	0	2	0	2	2	4	1
<i>Taraxacum spp.</i>	2	0.2	0	0	0	0	2	0	0
<i>Urtica dioica/urens</i>	140	11.1	55	41	22	13	5	3	1
<i>Veronica agrestis</i>	2	0.2	0	0	1	0	1	0	0
<i>Veronica hederifolia</i>	3	0.2	0	0	1	0	0	2	0
<i>Veronica persica</i>	18	1.4	10	5	1	1	1	0	0
<i>Viola arvensis</i>	13	1	4	3	2	0	1	2	1

Table S3: Species list of sampling scheme II, field position, with total number of seedlings per transect (sampled area 0.01 m²) and number of transects.

Species	Seed bank						Vegetation		
	Field interior	Field edge	Flower strip	Field interior	Field edge	Flower strip	Field interior	Field edge	Flower strip
	Number of Seedlings			Number of Transects					
<i>Acer campestre</i>	0	0	0	0	0	0	1	0	0
<i>Achillea millefolium</i>	0	3	97	0	3	7	0	1	9
<i>Achillea ptarmica</i>	0	0	1	0	0	1	0	0	3
<i>Aegopodium podagraria</i>	0	0	0	0	0	0	0	0	1
<i>Aethusa cynapium</i>	3	0	0	1	0	0	0	0	0
<i>Alnus glutinosa</i>	0	0	0	0	0	0	0	0	1
<i>Alopecurus myosuroides</i>	2	47	4	1	5	1	1	3	4
<i>Alopecurus pratensis</i>	0	0	0	0	0	0	0	0	1
<i>Amaranthus spp.</i>	0	3	35	0	3	4	0	0	1
<i>Anagallis arvensis</i>	4	4	15	4	2	3	0	0	0
<i>Anethum graveolens</i>	0	0	0	0	0	0	0	0	3
<i>Anthemis arvensis</i>	0	0	0	0	0	0	0	0	3
<i>Anthemis tinctoria</i>	0	0	5	0	0	1	0	0	3
<i>Anthoxanthum odoratum</i>	0	0	1	0	0	1	0	0	0
<i>Anthriscus caucalis</i>	0	0	0	0	0	0	1	0	0
<i>Anthriscus sylvestris</i>	0	0	0	0	0	0	0	0	1
<i>Apera spica-venti</i>	12	61	42	3	4	6	1	2	2
<i>Aphanes arvensis</i>	0	0	0	0	0	0	0	1	0
<i>Arabidopsis thaliana</i>	4	13	11	1	3	4	0	0	0
<i>Arctium lappa</i>	0	0	0	0	0	0	0	2	2
<i>Arenaria serpyllifolia</i>	2	16	10	1	1	2	0	0	0
<i>Arrhenatherum elatius</i>	0	0	0	0	0	0	0	4	3
<i>Artemisia vulgaris</i>	13	28	59	4	5	6	1	2	8
<i>Atriplex patula</i>	0	0	6	0	0	3	0	0	0
<i>Avena sativa</i>	0	0	0	0	0	0	1	0	0
<i>Betula spp.</i>	9	12	37	6	7	5	0	0	0
<i>Borago officinalis</i>	0	1	4	0	1	2	0	0	6
<i>Brassica napus</i>	9	0	6	3	0	5	0	0	3
<i>Brassica nigra</i>	0	1	6	0	1	2	0	0	1
<i>Brassica oleracea</i>	0	0	0	0	0	0	1	0	6
<i>Brassica rapa</i>	0	0	0	0	0	0	1	0	0
<i>Brassica spp.</i>	0	0	0	0	0	0	0	0	1
<i>Bromus hordeaceus</i>	0	0	0	0	0	0	0	1	1
<i>Bromus sterilis</i>	0	0	0	0	0	0	0	8	8
<i>Calendula officinalis</i>	1	0	1	1	0	1	0	0	2
<i>Campanula spp.</i>	0	0	0	0	0	0	0	0	1
<i>Capsella bursa-pastoris</i>	56	50	171	9	12	15	0	1	7
<i>Cardamine hirsuta</i>	0	1	17	0	1	2	0	0	0
<i>Carduus acanthoides</i>	0	0	0	0	0	0	0	0	1
<i>Centaurea cyanus</i>	1	0	11	1	0	3	0	3	9

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	Seed bank			Vegetation		
	Field interior	Field edge	Flower strip	Field interior	Field edge	Flower strip
	Number of Seedlings			Number of Transects		
<i>Centaurea jacea</i>	0	0	0	0	0	5
<i>Centaurea nigra</i>	0	0	0	0	0	2
<i>Cerastium arvense</i>	0	0	0	0	0	1
<i>Cerastium holosteoides</i>	0	3	25	0	3	2
<i>Chaerophyllum bulbosum</i>	0	0	0	0	0	0
<i>"Chamomilla"</i>	226	293	1054	9	15	15
<i>Chenopodium album</i>	313	301	1295	12	20	20
<i>Chenopodium ficifolium</i>	0	2	0	0	2	0
<i>Chenopodium hybridum</i>	4	5	10	1	2	2
<i>Chenopodium polyspermum</i>	2	41	208	2	4	4
<i>Cichorium intybus</i>	0	0	0	0	0	0
<i>Cirsium arvense</i>	0	0	0	0	0	3
<i>Cirsium vulgare</i>	0	1	1	0	1	0
<i>Clinopodium vulgare</i>	0	0	0	0	0	0
<i>Conium maculatum</i>	0	0	0	0	0	0
<i>Consolida regalis</i>	0	0	0	0	0	0
<i>Convolvulus arvensis</i>	0	0	0	0	0	1
<i>Conyza canadensis</i>	11	57	45	1	6	4
<i>Coriandrum sativum</i>	0	0	0	0	0	0
<i>Crataegus spp.</i>	0	0	0	0	0	0
<i>Crepis biennis</i>	0	0	0	0	0	1
<i>Dactylis glomerata</i>	1	19	8	1	2	2
<i>Daucus carota</i>	0	0	145	0	0	8
<i>Deschampsia cespitosa</i>	0	1	2	0	1	2
<i>Descurainia sophia</i>	89	112	69	6	8	7
<i>Digitaria ischaemum</i>	1	0	0	1	0	0
<i>Dipsacus fullonum</i>	0	0	0	0	0	0
<i>Draba verna</i>	0	0	0	0	0	0
<i>Echinochloa crus-galli</i>	49	64	149	3	6	5
<i>Echium vulgare</i>	0	0	0	0	0	0
<i>Elymus repens</i>	0	0	3	0	0	2
<i>Epilobium ciliatum</i>	1	23	3	1	3	3
<i>Equisetum arvense</i>	0	0	0	0	0	0
<i>Erigeron annuus</i>	1	0	0	1	0	0
<i>Erodium cicutarium</i>	0	0	0	0	0	0
<i>Erysimum cheiranthoides</i>	0	0	0	0	0	0
<i>Euphorbia spp.</i>	0	2	0	0	2	0
<i>Fagopyrum esculentum</i>	0	0	0	0	0	0
<i>Falcaria vulgaris</i>	0	0	0	0	0	0
<i>Fallopia convolvulus</i>	6	4	47	4	3	4
<i>Festuca arundinacea</i>	0	0	0	0	0	0
<i>Festuca pratensis</i>	0	0	0	0	0	0
<i>Festuca rubra agg.</i>	0	0	0	0	0	0

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	Seed bank			Vegetation		
	Field interior	Field edge	Flower strip	Field interior	Field edge	Flower strip
	Number of Seedlings			Number of Transects		
<i>Foeniculum vulgare</i>	0	0	1	0	0	1
<i>Fragaria moschata</i>	0	0	1	0	0	1
<i>Fumaria officinalis</i>	0	0	0	0	0	0
<i>Galeopsis tetrahit</i>	0	0	0	0	0	0
<i>Galinsoga ciliata</i>	0	1	1	0	1	1
<i>Galinsoga parviflora</i>	0	0	10	0	0	3
<i>Galium aparine</i>	2	4	3	2	4	3
<i>Galium mollugo</i> agg.	0	0	0	0	0	0
<i>Galium verum</i>	0	0	0	0	0	0
<i>Geranium columbinum</i>	0	0	0	0	0	0
<i>Geranium dissectum/pusillum</i>	1	168	38	1	10	6
<i>Geum rivale</i>	0	0	1	0	0	1
<i>Geum urbanum</i>	0	0	0	0	0	0
<i>Glechoma hederaceae</i>	3	6	1	2	3	1
<i>Glyceria fluitans</i>	0	0	0	0	0	0
<i>Gnaphalium uliginosum</i>	2	2	20	1	1	3
<i>Grasses unidentified</i>	28	68	62	7	8	14
<i>Guizotia abyssinica</i>	0	0	0	0	0	0
<i>Helianthus annuus</i>	0	0	0	0	0	0
<i>Heracleum sphondylium</i>	0	0	0	0	0	0
<i>Hieracium</i> spp.	0	0	4	0	0	2
<i>Holcus lanatus</i>	0	1	6	0	1	3
<i>Hordeum vulgare</i>	0	0	0	0	0	0
<i>Humulus lupulus</i>	0	0	0	0	0	0
<i>Hypericum perforatum</i>	0	0	1	0	0	1
<i>Hypochaeris radicata</i>	0	0	0	0	0	0
<i>Juncus</i> spp.	29	57	59	10	12	16
<i>Knautia arvensis</i>	0	0	0	0	0	0
<i>Weeds unidentified</i>	0	3	5	0	2	2
<i>Lactuca seriola</i>	0	12	1	0	2	1
<i>Lamium purpureum</i>	1	12	13	1	4	7
<i>Lapsana communis</i>	1	10	1	1	3	1
<i>Lathyrus pratensis</i>	0	0	0	0	0	0
<i>Leontodon autumnalis</i>	0	0	1	0	0	1
<i>Leonurus cardiaca</i>	0	0	0	0	0	0
<i>Lepidium sativum</i>	0	0	0	0	0	0
<i>Leucanthemum ircutianum</i>	0	0	31	0	0	6
<i>Leucanthemum vulgare</i>	0	0	0	0	0	0
<i>Linum usitatissimum</i>	0	0	0	0	0	0
<i>Lolium multiflorum</i>	0	0	0	0	0	0
<i>Lolium perenne</i>	3	0	8	1	0	1
<i>Lotus corniculatus</i>	0	0	11	0	0	9
<i>Lotus pedunculatus</i>	0	0	0	0	0	0

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	Seed bank						Vegetation		
	Field interior	Field edge	Flower strip	Field interior	Field edge	Flower strip	Field interior	Field edge	Flower strip
	Number of Seedlings			Number of Transects					
<i>Lychnis flos-cuculi</i>	0	7	40	0	1	3	0	0	3
<i>Lysimachia vulgaris</i>	0	0	0	0	0	0	0	0	1
<i>Malva moschata</i>	0	0	0	0	0	0	0	0	5
<i>Malva sylvestris</i>	0	14	0	0	3	0	0	0	4
<i>Medicago lupulina</i>	1	0	18	1	0	3	0	0	7
<i>Medicago sativa</i>	0	0	0	0	0	0	0	0	5
<i>Medicago varia</i>	0	0	0	0	0	0	0	0	2
<i>Melilotus albus</i>	0	0	0	0	0	0	0	0	2
<i>Melilotus officinalis</i>	0	0	4	0	0	2	0	0	4
<i>Mercurialis annua</i>	0	0	1	0	0	1	1	0	1
<i>Milium effusum</i>	0	1	0	0	1	0	0	0	0
<i>Myosotis arvensis</i>	5	8	39	1	5	7	0	1	4
<i>Myosurus minimus</i>	0	1	36	0	1	1	0	0	1
<i>Oenothera biennis</i>	0	0	2	0	0	1	0	0	0
<i>Onobrychis viciifolia</i>	0	0	0	0	0	0	0	0	3
<i>Origanum vulgare</i>	0	0	0	0	0	0	0	0	1
<i>Oxalis acetosella</i>	0	0	0	0	0	0	0	0	1
<i>Oxalis stricta</i>	0	0	0	0	0	0	0	0	1
<i>Papaver spp.</i>	41	212	77	3	7	9	2	5	5
<i>Parthenocissus inserta</i>	0	0	0	0	0	0	1	0	0
<i>Pastinaca sativa</i>	0	0	0	0	0	0	0	0	2
<i>Persicaria hydropiper</i>	0	0	5	0	0	1	0	0	0
<i>Persicaria maculosa</i>	2	0	119	1	0	4	1	2	3
<i>Phacelia tanacetifolia</i>	0	0	64	0	0	4	0	0	9
<i>Phalaris arundinacea</i>	0	0	0	0	0	0	0	1	3
<i>Phaseolus (bean)</i>	4	1	0	2	1	0	0	0	0
<i>Phleum pratense</i>	0	0	0	0	0	0	0	0	5
<i>Phragmites australis</i>	0	0	0	0	0	0	0	2	0
<i>Picris hieracioides</i>	0	0	0	0	0	0	0	0	1
<i>Pisum sativum</i>	0	0	0	0	0	0	0	0	1
<i>Plantago intermedia</i>	6	7	13	5	4	3	0	0	0
<i>Plantago lanceolata</i>	0	1	44	0	1	4	0	0	9
<i>Plantago major</i>	0	0	0	0	0	0	0	0	6
<i>Poa spp.</i>	39	117	278	6	17	11	0	9	13
<i>Polygonum aviculare</i>	3	39	14	2	7	11	4	8	5
<i>Populus spec.</i>	17	18	26	9	10	12	0	0	0
<i>Potentilla anserina</i>	0	0	0	0	0	0	0	1	0
<i>Potentilla reptans</i>	0	0	0	0	0	0	0	1	0
<i>Prunella vulgaris</i>	0	0	1	0	0	1	0	0	4
<i>Quercus robur</i>	0	0	0	0	0	0	0	0	2
<i>Ranunculus repens</i>	0	0	0	0	0	0	0	1	1
<i>Ranunculus sceleratus</i>	0	0	0	0	0	0	0	0	1
<i>Ranunculus spp.</i>	0	0	4	0	0	2	0	0	0

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	Seed bank			Vegetation		
	Field interior	Field edge	Flower strip	Field interior	Field edge	Flower strip
	Number of Seedlings			Number of Transects		
<i>Raphanus sativus</i>	0	0	0	0	0	1
<i>Reseda lutea</i>	0	0	0	0	0	2
<i>Rumex acetosa</i>	0	1	0	0	0	2
<i>Rumex crispus</i>	0	7	39	0	2	2
<i>Rumex obtusifolius</i>	0	6	10	0	2	8
<i>Rumex spp.</i>	0	1	1	0	1	0
<i>Sagina procumbens</i>	3	0	2	3	0	0
<i>Salvia pratensis</i>	0	0	0	0	0	1
<i>Sanguisorba minor</i>	0	0	0	0	0	1
<i>Scropholaria spp.</i>	0	0	1	0	0	0
<i>Secale cereale</i>	0	0	0	0	0	1
<i>Secale multicaule</i>	0	0	0	0	0	2
<i>Senecio sylvaticus</i>	0	0	1	0	0	0
<i>Senecio vulgaris</i>	0	1	0	0	1	2
<i>Setaria pumila</i>	0	0	0	0	0	0
<i>Setaria spp.</i>	0	1	0	0	1	0
<i>Silene spp.</i>	1	1	36	1	1	14
<i>Sinapis alba</i>	0	0	0	0	0	6
<i>Sinapis arvensis</i>	3	0	7	1	0	1
<i>Sisymbrium officinale</i>	34	23	57	3	4	5
<i>Solanum nigrum</i>	21	13	32	3	5	0
<i>Solanum tuberosum</i>	0	0	0	0	0	0
<i>Sonchus arvensis</i>	0	1	0	0	1	1
<i>Sonchus asper</i>	2	5	6	2	3	3
<i>Sonchus oleraceus</i>	0	0	1	0	0	1
<i>Sonchus spp.</i>	0	1	2	0	1	0
<i>Spergula arvensis</i>	0	1	0	0	1	0
<i>Stachys spp.</i>	0	1	0	0	1	0
<i>Stellaria graminea</i>	0	0	0	0	0	1
<i>Stellaria media</i>	19	66	53	6	8	6
<i>Tanacetum vulgare</i>	0	1	26	0	1	5
<i>Taraxacum spp.</i>	0	0	4	0	0	12
<i>Thlaspi arvense</i>	1	3	270	1	2	3
<i>Trifolium spp.</i>	3	1	131	2	1	17
<i>Triticosecale spp.</i>	0	0	0	0	0	1
<i>Triticum aestivum</i>	0	0	0	0	0	5
<i>Tussilago farfara</i>	0	0	0	0	0	2
<i>Urtica dioica/urens</i>	29	271	395	8	16	8
<i>Valerianella spp.</i>	2	5	2	1	3	0
<i>Verbascum densiflorum</i>	0	0	0	0	0	1
<i>Verbascum nigrum</i>	0	0	3	0	0	1
<i>Verbascum spp.</i>	0	0	0	0	0	1
<i>Veronica agrestis</i>	0	0	1	0	0	0

To be continued on the next page

	Seed bank						Vegetation		
	Field interior	Field edge	Field interior	Field interior	Field edge	Field interior	Field interior	Field edge	Field interior
	Number of Seedlings			Number of Transects					
<i>Veronica arvensis</i>	31	2	6	2	2	2	0	0	1
<i>Veronica hederifolia</i>	0	4	4	0	1	2	2	1	0
<i>Veronica persica</i>	10	43	111	2	6	9	0	1	2
<i>Vicia angustifolia</i>	0	0	0	0	0	0	0	0	2
<i>Vicia cracca</i>	0	0	0	0	0	0	0	3	0
<i>Vicia hirsuta</i>	0	0	0	0	0	0	0	1	2
<i>Vicia sativa</i>	0	0	0	0	0	0	0	0	3
<i>Vicia villosa</i>	0	0	0	0	0	0	0	0	2
<i>Viola arvensis</i>	37	22	102	7	7	10	1	3	5
<i>Zea mays</i>	0	0	0	0	0	0	0	1	0

Table S4: Results of multilevel pattern analysis, only significant species associations are shown.

Species	stat	p-value
<i>Lotus corniculatus</i>	0.534	0.005 **
<i>Daucus carota</i>	0.483	0.005 **
<i>Chenopodium album</i>	0.372	0.010 **
<i>Cerastium holosteoides</i>	0.364	0.015 *
<i>Poa spp.</i>	0.358	0.030 *
<i>Leucanthemum ircutianum</i>	0.357	0.005 **
<i>Thlaspi arvense</i>	0.351	0.005 **
<i>Plantago lanceolata</i>	0.325	0.030 *
<i>Tanacetum vulgare</i>	0.301	0.020 *
<i>Veronica persica</i>	0.299	0.050 *
<i>Achillea millefolium</i>	0.284	0.010 **
<i>Rumex crispus</i>	0.281	0.025 *
<i>Myosotis arvensis</i>	0.267	0.040 *

Table S5: Results of multilevel pattern analysis, only significant species associations are shown.

Group field edge seed bank

	stat	p-value
<i>Papaver spp.</i>	0.292	0.035

Group field edge vegetation

	stat	p-value
<i>Equisetum arvense</i>	0.368	0.005
<i>Cirsium arvense</i>	0.348	0.005
<i>Bromus sterilis</i>	0.315	0.020
<i>Convolvulus arvensis</i>	0.239	0.030

Group flower strip vegetation

	stat	p-value
<i>Foeniculum vulgare</i>	0.469	0.005
<i>Cichorium intybus</i>	0.415	0.005
<i>Lotus corniculatus</i>	0.395	0.005
<i>Sinapis alba</i>	0.386	0.005
<i>Taraxacum spp.</i>	0.386	0.010
<i>Brassica oleracea</i>	0.384	0.005
<i>Silene spp.</i>	0.322	0.015
<i>Borago officinalis</i>	0.322	0.030
<i>Melilotus officinalis</i>	0.313	0.025
<i>Galium mollugo agg.</i>	0.301	0.005
<i>Medicago sativa</i>	0.300	0.005
<i>Phleum pratense</i>	0.299	0.010
<i>Prunella vulgaris</i>	0.292	0.040
<i>Phacelia tanacetifolia</i>	0.291	0.030
<i>Centaurea cyanus</i>	0.282	0.035
<i>Malva moschata</i>	0.276	0.010
<i>Centaurea jacea</i>	0.267	0.005
<i>Linum usitatissimum</i>	0.267	0.005
<i>Plantago major</i>	0.265	0.005
<i>Dipsacus fullonum</i>	0.210	0.030
<i>Phalaris arundinacea</i>	0.201	0.045
<i>Triticum aestivum</i>	0.194	0.010

Group flower strip seed bank

	stat	p-value
<i>Chenopodium album</i>	0.486	0.005
<i>Viola arvensis</i>	0.390	0.005
<i>Thlaspi arvense</i>	0.369	0.005
<i>Cerastium holosteoides</i>	0.360	0.025
<i>Poa spp.</i>	0.349	0.020
<i>Chamomilla</i>	0.337	0.020
<i>Veronica persica</i>	0.333	0.010
<i>Capsella bursa pastoris</i>	0.305	0.005
<i>Myosotis arvensis</i>	0.288	0.015
<i>Solanum nigrum</i>	0.285	0.035
<i>Rumex crispus</i>	0.273	0.035
<i>Sisymbrium officinale</i>	0.268	0.040

Group field edge & flower strip seed bank

	stat	p-value
<i>Juncus spp.</i>	0.388	0.005
<i>Urtica dioica/urens</i>	0.312	0.015
<i>Stellaria media</i>	0.303	0.005
<i>Lamium purpureum</i>	0.288	0.030
<i>Descurainia sophia</i>	0.266	0.045

Group flower strip seed bank & vegetation

	stat	p-value
<i>Daucus carota</i>	0.374	0.010
<i>Trifolium spp.</i>	0.309	0.030
<i>Plantago lanceolata</i>	0.308	0.035
<i>Achillea millefolium</i>	0.278	0.025
<i>Leucanthemum ircutianum</i>	0.266	0.050