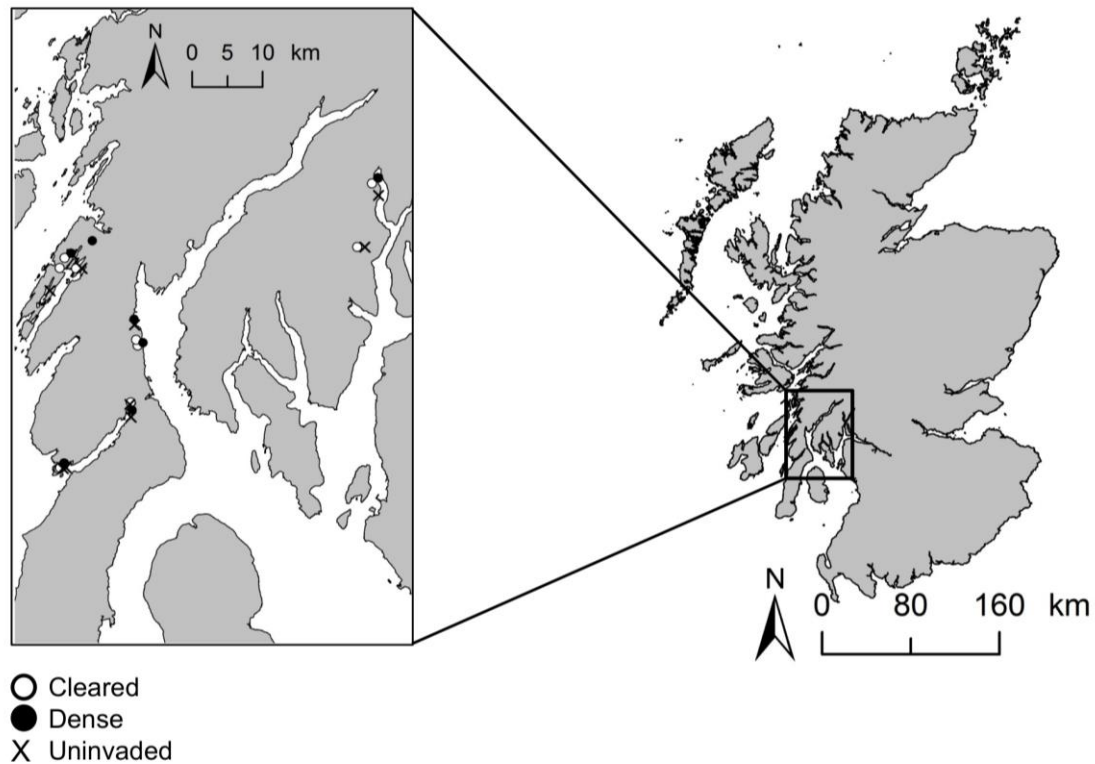


## Appendix 1: Study site locations



**Fig. 1: Map of study sites.** Map showing the locations of all the sites used in this study. Note that the symbols for some study sites are overlapping as sites were in nearby locations. Exact co-ordinates for all sites are provided in the table below for clarity.

**Table 1: Locations of all the sites used in this study.**

Name	Plot Type	gps grid	Easting	Northing
Artilligan B	Cleared	NR	86150	76267
Artilligan FCS	Cleared	NR	85939	77099
Baravalla A	Cleared	NR	85162	68224
Baravalla B	Uninvaded	NR	84243	67921
Corranbuie B	Uninvaded	NR	84415	66145
Corranbuie C	Dense	NR	84576	66347
Craig Hoyle B	Cleared	NS	17367	90283
Craig Hoyle H	Uninvaded	NS	17658	90292

Craiglin A	Cleared	NR	77390	87245
Craiglin X	Uninvaded	NR	77405	87257
Erines	Dense	NR	86125	75910
Ferry House A	Cleared	NR	74937	58761
Ferry House B	Cleared	NR	75141	58903
Ferry House C	Dense	NR	74890	58804
Ferry House D	Uninvaded	NR	75151	58975
Ferry House E	Uninvaded	NR	74743	58853
Ferry House F	Dense	NR	74960	58787
Gartnagrenoch	Dense	NR	78898	90373
Lochgoilhead A	Cleared	NS	19481	99314
Lochgoilhead B	Uninvaded	NS	19597	97610
Lochgoilhead D	Dense	NS	19609	99277
Lochgoilhead X	Dense	NS	19492	99323
Scotnish A	Dense	NR	75826	88603
Scotnish FCS A	Uninvaded	NR	76033	89238
Scotnish FCS B	Cleared	NR	75770	88740
Scotnish House	Dense	NR	75926	88590
Scotnish Picnic	Cleared	NR	75075	87299
Stronachullin burn A	Dense	NR	84840	79233
Stronachullin burn B	Uninvaded	NR	84924	79229
Taynish NNR	Uninvaded	NR	72863	84104

## Appendix 2: Species list for seedbank and understorey

The following table presents information on the density of all species present in the seed bank, alongside information on the average percent cover of all species found in understorey surveys of the same plots. Both the seed bank and understorey data use values averaged across all the plots for a given *R. ponticum* site type. These surveys were conducted by recording the percent cover of all vascular plant species present in nine 1 m<sup>2</sup> quadrats, arranged in a 20 m X 20 m grid at each plot. This information is taken from Maclean 2016, which includes a further analysis of the understorey community at each site type. Since both the seed bank data and the understorey data is limited in coverage and does not represent exhaustive sampling of the community present at each site, this table should not be taken as a detailed comparison of the seed bank and understorey communities. However, we believe that the information presented here will be of interest to many readers and may serve as an interesting, if limited, source of information.

**Table 1: Species present in the seed bank and understorey communities for each *R. ponticum* site type.**

Species	Average density in seed bank (1 m <sup>-2</sup> )			Average percent cover in understorey		
	Cleared	Dense	Uninvaded	Cleared	Dense	Uninvaded
<b>Forbs</b>						
<i>Ajuga reptans</i>	0.00	0.00	3.16	0.00	0.00	0.00
<i>Alium ursinum</i>	0.00	0.00	0.00	0.00	0.00	0.18
<i>Anemone nemorosa</i>	0.00	0.00	0.00	0.00	0.00	1.24
<i>Cardamine flexuosa</i>	29.47	4.21	1.05	0.00	0.00	0.00
<i>Circaea lutetiana</i>	0.00	0.00	0.00	0.02	0.00	0.00
<i>Conopodium majus</i>	1.05	0.00	0.00	0.00	0.01	0.59
<i>Digitalis purpurea</i>	37.89	121.05	63.16	0.01	0.00	0.00
<i>Empetrum nigrum</i>	7.37	3.16	2.11	0.00	0.00	0.00
<i>Epilobium obscurum</i>	2.11	0.00	1.05	0.00	0.00	0.00
<i>Galium saxatile</i>	0.00	0.00	16.84	0.17	0.14	2.00
<i>Galium aparine</i>	0.00	0.00	0.00	0.00	0.01	0.00
<i>Geranium robertianum</i>	0.00	0.00	0.00	0.00	0.00	0.03
<i>Hyacinthoides non scripta</i>	0.00	5.26	270.53	0.71	2.47	13.73
<i>Lysimachia nemorum</i>	0.00	7.37	27.37	0.06	0.00	0.27

<i>Melampyrum pratense</i>	288.42	23.16	17.89	0.24	0.00	0.38
<i>Oxalis acetosella</i>	8.42	2.11	122.11	2.86	0.76	7.47
<i>Potentilla erecta</i>	2.11	13.68	161.05	0.17	0.19	7.78
<i>Primula vulgaris</i>	0.00	0.00	0.00	0.33	0.01	0.10
<i>Prunella vulgaris</i>	0.00	1.05	0.00	0.00	0.00	0.00
<i>Ranunculus ficaria</i>	0.00	0.00	0.00	0.00	0.13	1.11
<i>Ranunculus repens</i>	0.00	0.00	2.11	0.03	0.00	1.22
<i>Rumex acetosa</i>	0.00	0.00	0.00	0.00	0.00	0.31
<i>Sagina procumbens</i>	7.37	73.68	62.11	0.00	0.00	0.00
<i>Silene dioica</i>	0.00	0.00	1.05	0.00	0.00	0.31
<i>Stellaria holostea</i>	0.00	1.05	13.68	0.00	0.11	0.87
<i>Stellaria media</i>	5.26	2.11	24.21	0.00	0.00	0.00
<i>Teucrium scorodonia</i>	5.26	0.00	1.05	0.13	0.00	0.00
<i>Veronica chamaedrys</i>	1.05	7.37	2.11	0.00	0.00	0.13
<i>Veronica officinalis</i>	5.26	2.11	15.79	0.06	0.00	0.00
<i>Vicia cracca</i>	0.00	0.00	2.11	0.00	0.00	0.33
<i>Viola riviniana</i>	0.00	0.00	36.84	0.08	0.00	0.14
<b>Woody Species</b>						
<i>Alnus glutinosa</i>	0.00	0.00	0.00	0.26	0.00	0.00
<i>Betula pendula</i>	1676.84	773.68	572.63	1.59	0.03	0.36
<i>Calluna vulgaris</i>	0.00	0.00	0.00	0.13	0.00	0.00
<i>Corylus avellana</i>	0.00	0.00	0.00	0.01	0.00	0.00
<i>Erica cinerea</i>	0.00	0.00	0.00	0.01	0.00	0.00
<i>Hedera helix</i>	0.00	0.00	0.00	0.03	0.00	0.07
<i>Ilex aquifolium</i>	0.00	0.00	0.00	0.36	0.00	0.08
<i>Lonicera periclymen</i>	0.00	0.00	3.16	0.57	0.56	3.44
<i>Picea stichensis</i>	0.00	0.00	0.00	0.02	0.00	0.00
<i>Quercus sp.</i>	0.00	0.00	0.00	0.32	0.02	0.32
<i>Rhododendron ponticum</i>	15.79	335.79	0.00	0.41	0.84	0.00

<i>Rubus fruticosus</i>	10.53	27.37	4.21	0.11	0.00	0.03
<i>Sorbus aucuparia</i>	0.00	2.11	0.00	0.37	0.02	0.33
<i>Vaccinium myrtillus</i>	7.37	3.16	4.21	11.66	6.27	2.30
<i>Vaccinium vitis idaea</i>	3.16	2.11	32.63	0.00	0.00	0.00
<b>Graminoids</b>						
<i>Carex spp.</i>	36.84	47.37	64.21	0.66	0.29	0.37
<i>Juncus spp.</i>	154.74	207.37	342.11	0.06	0.00	0.03
<i>Agrostis canina</i>	10.53	13.68	234.74	0.00	0.00	0.30
<i>Agrostis capillaris</i>	25.26	7.37	129.47	0.00	0.00	0.41
<i>Anthoxanthum odoratum</i>	26.32	4.21	344.21	1.01	0.31	12.22
<i>Deschampsia cespitosa</i>	0.00	0.00	0.00	0.03	0.00	2.22
<i>Deschampsia flexuosa</i>	10.53	1.05	8.42	4.37	0.30	11.41
<i>Holcus lanatus</i>	1.05	0.00	86.32	0.00	0.00	0.96
<i>Holcus mollis</i>	3.16	0.00	47.37	0.39	0.14	8.82
<i>Luzula campestris</i>	0.00	0.00	0.00	0.26	0.01	0.66
<i>Luzula sylvatica</i>	0.00	0.00	0.00	1.62	1.97	1.16