diversity

MDPI

Supplementary Materials

Table S1. Localisation of plant populations.

Location	Coordinates	
Fallopia x *bohemica*		
Arnas	N 46°01'31	E 4°43'14
Caloire	N 45°24'31	E 4°14'49
Chazey-sur-Ain	N 45°54'26	E 5°13'59
La Bénisson Dieu	N 46°09'10	E 4°02'38
Marclopt	N 45°39'51	E 4°11'38
Rivas	N 45°34'57	E 4°15'00
Saint-Victor-sur-Loire	N 45°26'48	E 4°15'15
Veauchette	N 45°33'15	E 4°15'37
Humulus lupulus		
Chambéon	N 45°41'57"	E 4°12'09"
Feurs	N 45°45'03"	E 4°12'22"
Lorette	N 45°30'36"	E 4°34'18"
Seyssuel	N 45°33'27"	E 4°49'38"
St-Just-St-Rambert	N 45°29'48"	E 4°13'44"
Unias	N 45°37'03"	E 4°14'09"
Villeurbanne	N 45°47'10"	E 4°52'03"
Sambucus ebulus		
Chambéon	N 45°41'57"	E 4°12'09"
Les Ponts Tarrets	N 45°35'03"	E 4°34'10"
Marclopt	N 45°39'23"	E 4°12'11"
Pont-Evêque	N 45°31'14"	E 4°55'15"
Priay	N 46°00'12"	E 5°17'55"
Serezin-du-Rhône	N 45°37'54"	E 4°49'15"
Seyssuel	N 45°33'27"	E 4°49'38"
Ternand	N 45°56'37"	E 4°31'37"
Vaulx-en-Velin	N 45°47'07"	E 4°53'49"
Urtica dioica		
Chambéon	N 45°41'57"	E 4°12'09"
Châtillon	N 45°52'24"	E 4°38'31"
Feurs	N 45°45'03"	E 4°12'22"
Les Ponts Tarrets	N 45°55'04"	E 4°34'11"
St. Paul de Varax	N 46°04'43"	E 5°08'12"
Ternand	N 45°56'37"	E 4°31'37"

Table S2. Results on the effect of soil type and on species (*F.* x *bohemica*, *H. lupulus*, *S. ebulus* and *U. dioica*) on plant traits in monocultures (ANOVA).

	F value	***p* value**
Aboveground biomass		
Type of soil	0.77	0.3847
Species	11.03	<0.0001
Soil x Species	4.56	0.0055
Root biomass		
Type of soil	2.53	0.1166
Species	7.09	0.0003
Soil x Species	0.56	0.6405
Nitrate assimilation		
Type of soil	0.30	0.5885
Species	3.86	0.0131
Soil x Species	1.46	0.2341
Nitrate accumulation		
Type of soil	0.256	0.6144
Species	7.284	0.0003
Soil x Species	4.985	0.0035

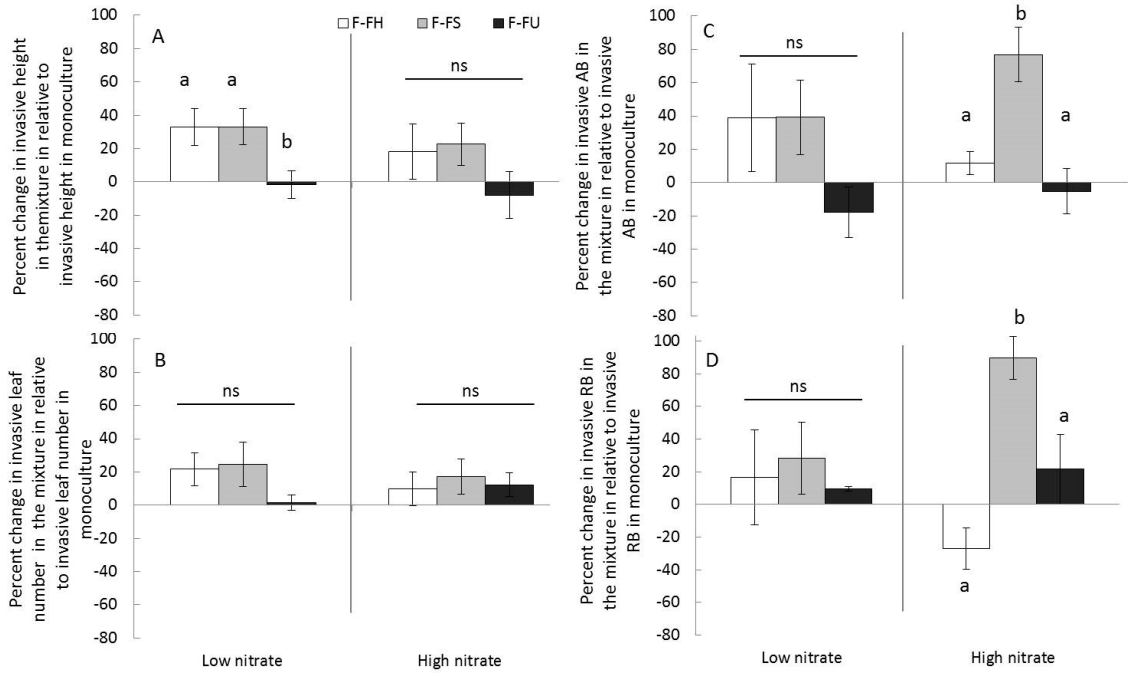

Figure S1. Effects of native species on traits of *F.* x *bohemica* expressed as percent change in the mixture relative to the invasive monoculture (A: percent change in plant height; B: in leaf number; C: in aboveground biomass (AB); D: in root biomass (RB)). Negative values indicate a negative effect of the native species on *F.* x *bohemica* in the mixture (values of traits of the species in the mixture are inferior to the values in monocultures), and positive values indicate a positive effect. Different letters indicate a significant difference ($p < 0.05$) between mixtures for each variable. Mean and standard error are presented here. $n = 5$ for each plant competition and for each soil type.

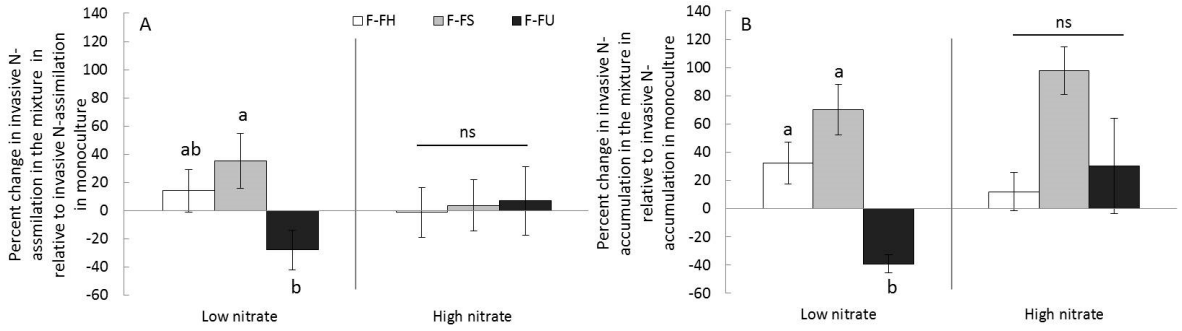

Figure S2. Effects of mixtures on N uptake of *F.* x *bohemica* expressed as percent change in the mixture relative to the invasive species in monocultures (A: total N assimilation in plants; B: total N accumulation in plants). Different letters indicate a significant difference ($p < 0.05$) between mixtures for each variable. Mean and standard error are presented here. $n = 5$ for each plant competition and for each soil type.