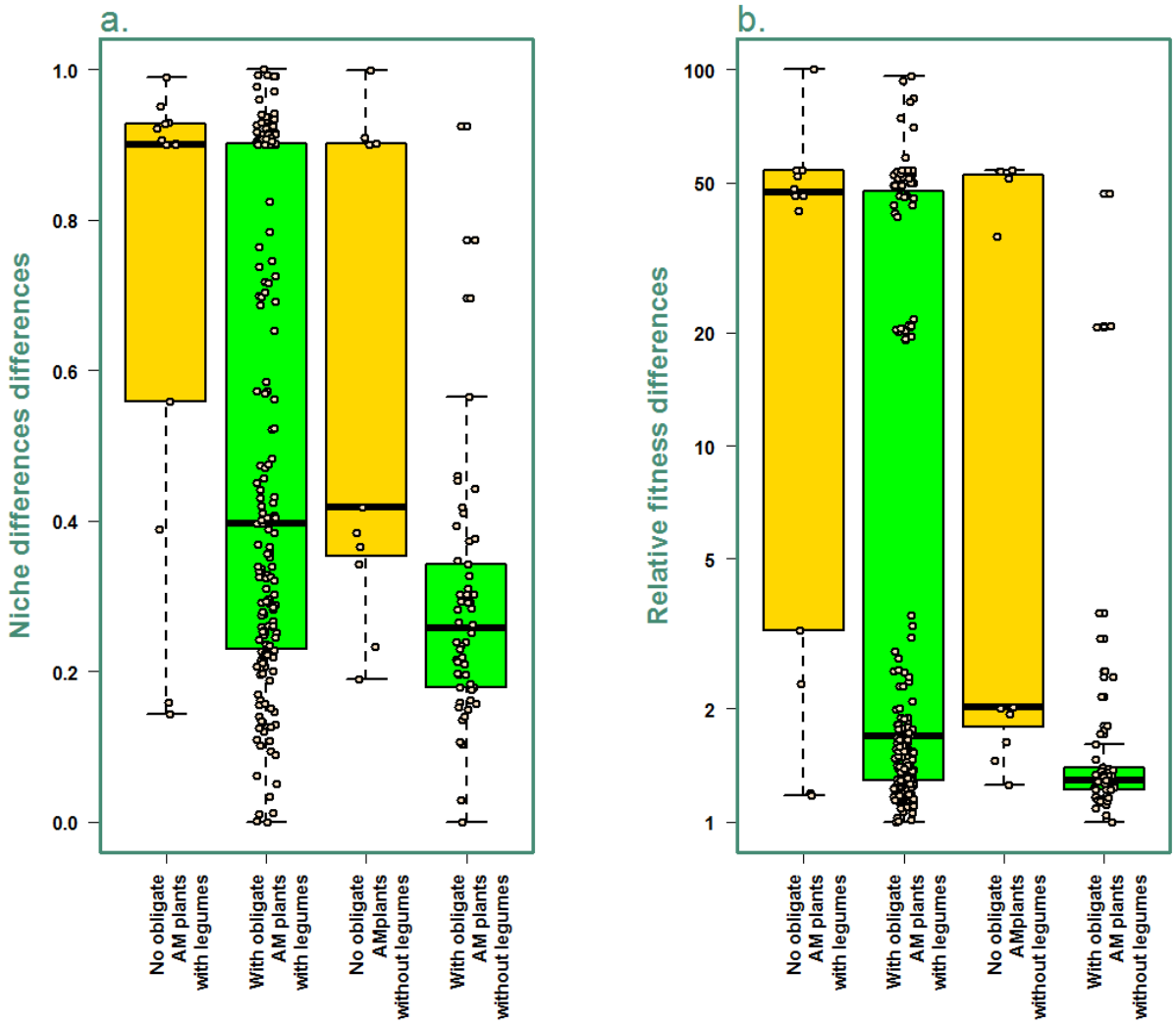

Fig. S1. Niche differences (left) and relative fitness differences (right) of plant mixtures in the BIODEPTH experiment. We present in yellow the mixtures without any obligate AM plants and green those that contained obligate AM plants and with or without legumes. We observed higher niche differences and relative fitness differences in mixtures without oblicate AM plants and to those with legumes. Boxes depict the median (thick black line) and the first and third quartiles of the distributions. Overlaied points are bee swarm plots of the raw data. Statistics were robust to a subsampling.

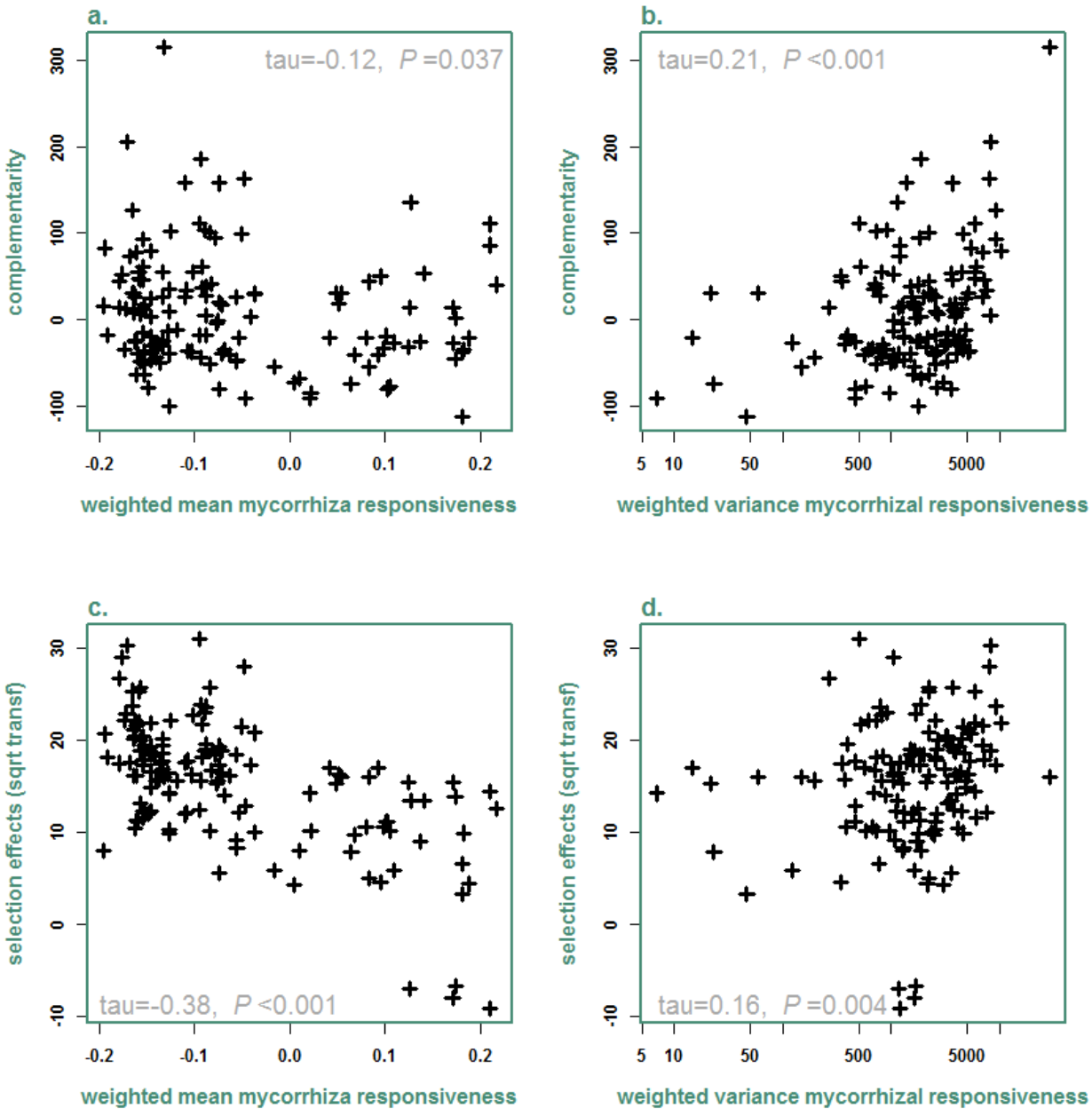

Fig. S2 Relationships between complementarity and (a) weighted mean mycorrhizal responsiveness; (b) weighted variance in mycorrhizal responsiveness, as well as selection effects differences and (c) weighted mean mycorrhizal responsiveness; (b) weighted variance in mycorrhizal responsiveness in the 139 communites we used in our experiment.

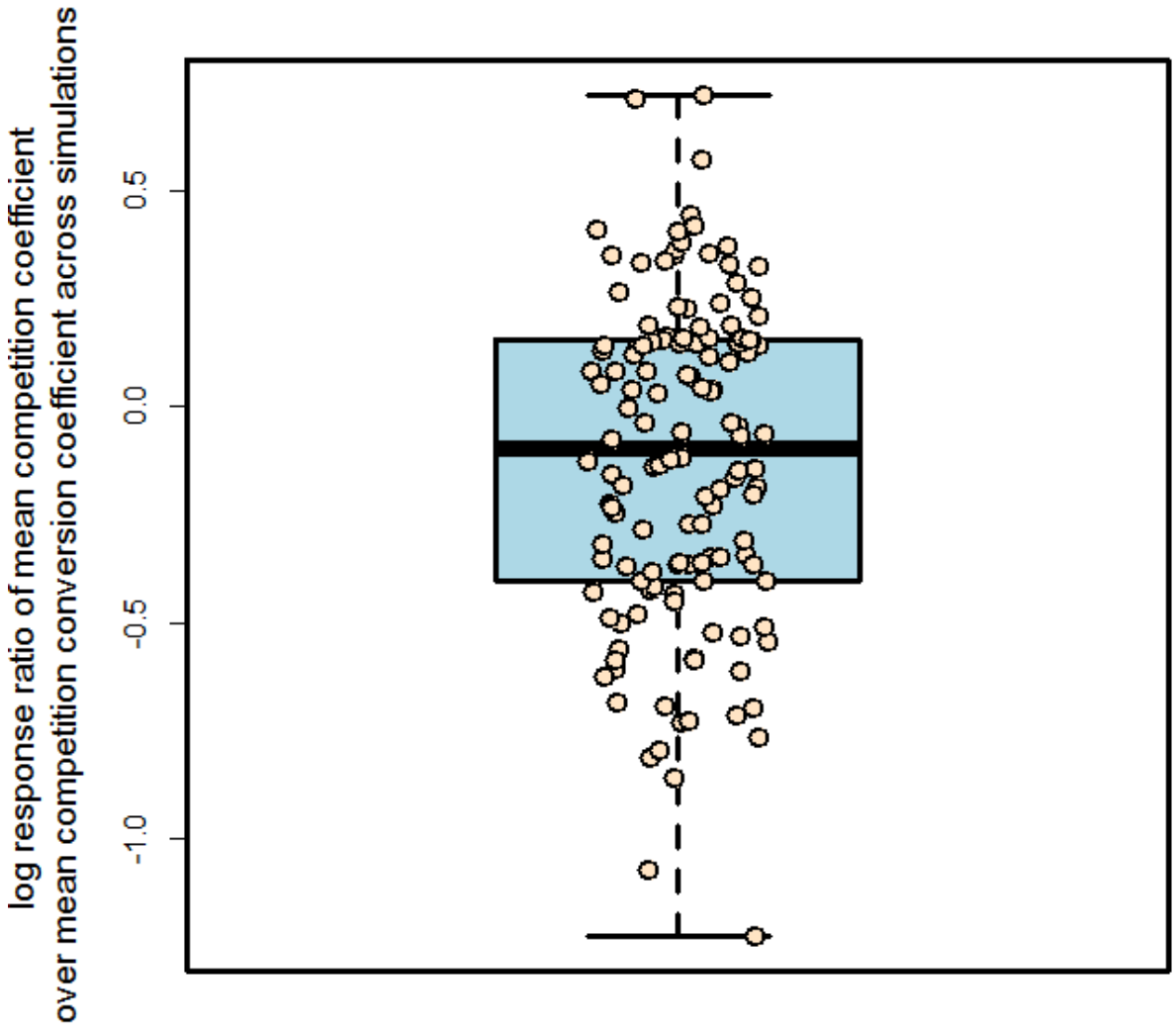

Fig S3. Distribution of values of the natural log response ratio between mean competition coefficients and mean competition conversion coefficients in our senstivity anaylsis. Note that we had to remove one value from the analysis because all competition coefficients were zero.

Table S1. Standard deviation of pairwise competition coefficients for the eight plant species used in our experiment in our remove one sensitivity analysis. The procedure of the sensitivity analysis was as follows: We iteratively assessed competition coefficients without a single pot. We constraint values in the range 0 – 1. We then scaled competition coefficients so that they average the median of the permutations. We finally assessed the standard deviation of the 139 values per competition coefficient. These standard deviations accounted on average for 14.90% of the values of the competition coefficients.

	Agrostis	Cynosyrus	Fragaria	Phleum	Plantago	Prunela	Rumex	Stellaria
Agrostis	0.061	0.057	0.06	0.046	0.037	0.063	0.057	0.065
Cynosyrus	0.057	0.101	0.012	0.045	0.041	0.054	0.066	0.121
Fragaria	0.06	0.012	0.093	0.041	0.037	0.074	0.049	0.103
Phleum	0.046	0.045	0.041	0.05	0.036	0.032	0.047	0.061
Plantago	0.037	0.041	0.037	0.036	0.054	0.041	0.041	0.036
Prunela	0.063	0.054	0.074	0.032	0.041	0.035	0.068	0.073
Rumex	0.057	0.066	0.049	0.047	0.041	0.068	0.049	0.055
Stellaria	0.065	0.121	0.103	0.061	0.036	0.073	0.055	0.104

Appendix 1: BIODEPTH – detailed materials and methods

We analyzed data on the BIODEPTH experiment from Ecological Archives M075-001-S1 (Spehn *et al*. 2005). To assess expected biomasses of the species we used information from the monocultures per site and year. We then replicated the estimation of complementarity and selection effects which are presented in the supplement in Spehn *et al.* (2005). We present our estimates in Appendix 4.

The consumer-resource model of MacArthur has been an influential coexistence model which depicts coexistence as an equilibrium condition of *n* consumers who have measurable pairwise competition coefficients, αij and compete for *q* resources (MacArthur, 1970). Chesson (1990; 2000) further developed the model and studied equilibrium coexistence conditions when the competition coefficients of any two species are symmetric. Carroll, Cardinale and Nisbet (2011) used Chesson's form of the model to partition net biodiversity effects into a fraction that explains niche differences and a fraction that explains relative fitness differences. Ecological niche space in a model is difficult to describe (Holt 2009), particularly in terms of bionomic (i.e. resource-related) variables which define the Eltonian niche (Soberón, 2007; Letten, Ke & Fukami, 2017). This is because there are several different ways to summarize observations on how well Eltonian ecological niche space is partitioned across species: (i) describe how well the entire community occupies available multidimensional niche space, (ii) characterize the degree to which on average the ecological requirements of a species deviates from those of typically co-occurring plant species, (iii) measure or infer niche differences in pairwise interactions. We carried out our analysis with the BIODEPTH data at a crude level. Unlike our controlled experiment where we tried to address all three methods here we only carried out assays at a community level.

Legumes can influence disproportunioally to their abundance interspecific plant competition (Marquard *et al.*, 2009) and if they are not equally represented across the comparison groups could bias results. To address this concern we further monitored instances where legume were present in the plant communities and controlled for this via a two-way ANOVA (main text; Fig. S1).

Soberón, J. (2007) Grinnellian and Eltonian niches and geographic distributions of species. Ecology Letters 10, 1115-1123.

Spehn, E.M:, Hector, A., Joshi, J., Scherer-Lorenzen, M., Schmid, B., Bazeley-White, E., Beierkuhnlein, C., Caldeira, M.C. et al. 2005. Ecosystem effects of biodiversity manipulations in European grasslands. Ecological Monographs 75:37–63.

Appendix 2: Linear models on niche difference and relative fitness differences

Summaries of four linear models predicting niche difference and complementarity with predictors weighted mean of mycorrhizal responsiveness in the community (wmyc) and weighted variance of mycorrhizal responsiveness (wsd). The exact formula we used for weighted mean mycorrhizal responsiveness was as follows:

$$wmyc_j = \frac{\sum_i \omega_i A_{ij}}{\sum_i A_{ij}} \quad \ldots s1$$

where *i* stands for the species present in the community *j*, ω_i the mycorrhizal responsiveness of the species and A_{ij} for the biomass of the species *i* in the community *j*. To calculate weighted variance of mycorrhizal responsiveness we used the command *wtd.var* from the R package *Hmisc* with *x* variable being the product of ω_i A_{ij} and weight the relative abundance of the species $\left\{ = 100.Ai_j / \sum_i A_{ij} \right\}$. A high mean mycorrhizal responsiveness (wmyc) expresses that a plant community benefits on average a lot from mycorrhiza. A high weighted variance of mycorrhizal responsiveness characterizes a balanced community betweeen mycorrhizal depedent and non-mycorrhizal-depenendent plants.

Because R by default uses Type I sum of squares we considered both ways of structuring the predictors to formulate the linear models. We first report on the analysis of variance statistics and then present the fitted coefficients. Note that in both models with niche differences as response variable the weighted mean mycorrhizal responsiveness is significant. This is the case in all models with regards to the weighted variance of mycorrhizal responsivess.

ANOVA table in Model 1: response variable: niche differences; first predictor weighted mean mycorrhizal responsiveness; second predictor: weighted variance of mycorrhizal responsiveness.

```
> summary(model1<-aov(sqrt(ND)~wmyc*wsd))
             Df Sum Sq Mean Sq F value  Pr(>F)
wmyc          1  0.317  0.3173  10.076 0.00186 **
wsd           1  0.331  0.3306  10.500 0.00150 **
wmyc:wsd      1  0.119  0.1190   3.778 0.05401 .
Residuals   135  4.251  0.0315
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

ANOVA table in Model 2: response variable: relative fitness differences; first predictor weighted mean mycorrhizal responsiveness; second predictor: weighted variance of mycorrhizal responsiveness.

```
> anova(model2<-aov(sqrt(log(RFD))~wmyc*wsd))
Analysis of Variance Table

Response: sqrt(log(RFD))
           Df Sum Sq Mean Sq F value   Pr(>F)
wmyc        1  2.951 2.95058  9.7131 0.002236 **
wsd         1  2.626 2.62643  8.6461 0.003858 **
wmyc:wsd    1  0.836 0.83637  2.7533 0.099377 .
Residuals 135 41.009 0.30377
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

ANOVA table in Model 3: Equivalent to model 1 but with the two predictors in reversed order.

```
> summary(model3<-aov(sqrt(ND)~wsd*wmyc))
             Df Sum Sq Mean Sq F value   Pr(>F)
wsd           1  0.490  0.4898  15.557 0.000128 ***
wmyc          1  0.158  0.1580   5.019 0.026708 *
wsd:wmyc      1  0.119  0.1190   3.778 0.054011 .
Residuals   135  4.251  0.0315
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> anova(model2<-aov(sqrt(log(RFD))~wsd*wmyc))
Analysis of Variance Table
```

ANOVA table in Model 4: Equivalent to model 2 but with the two predictors in reversed order.

```
Response: sqrt(log(RFD))
           Df Sum Sq Mean Sq F value    Pr(>F)
wsd         1  4.024  4.0238 13.2462 0.0003879 ***
wmyc        1  1.553  1.5532  5.1130 0.0253471 *
wsd:wmyc    1  0.836  0.8364  2.7533 0.0993766 .
Residuals 135 41.009  0.3038
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
Model summary (fitted coefficients) in Model1
> summary.lm(model1<-aov(sqrt(ND)~wmyc*wsd))
Call:
aov(formula = sqrt(ND) ~ wmyc * wsd)
Residuals:
     Min       1Q   Median       3Q      Max
-0.25064 -0.12539 -0.05462  0.07191  0.45019
Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  5.462e-01  2.415e-02  22.615  < 2e-16 ***
wmyc        -5.826e-01  1.971e-01  -2.955  0.00369 **
wsd          3.239e-05  9.754e-06   3.321  0.00115 **
wmyc:wsd     1.412e-04  7.266e-05   1.944  0.05401 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
Residual standard error: 0.1774 on 135 degrees of freedom
Multiple R-squared:  0.1528,    Adjusted R-squared:  0.134
F-statistic: 8.118 on 3 and 135 DF,  p-value: 5.203e-05

Model summary (fitted coefficients) in Model2
> summary.lm(model2<-aov(sqrt(log(RFD))~wmyc*wsd))
Call:
aov(formula = sqrt(log(RFD)) ~ wmyc * wsd)
Residuals:
    Min      1Q  Median      3Q     Max
-0.6353 -0.4002 -0.1984  0.1250  1.4486
Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  7.009e-01  7.501e-02   9.344 2.58e-16 ***
wmyc        -1.694e+00  6.123e-01  -2.766  0.00647 **
wsd          8.857e-05  3.030e-05   2.924  0.00406 **
wmyc:wsd     3.745e-04  2.257e-04   1.659  0.09938 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.5512 on 135 degrees of freedom
Multiple R-squared:  0.1352,    Adjusted R-squared:  0.116
F-statistic: 7.037 on 3 and 135 DF,  p-value: 0.000197



Model summary (fitted coefficients) in Model3
> summary.lm(model3<-aov(sqrt(ND)~wsd*wmyc))
Call:
aov(formula = sqrt(ND) ~ wsd * wmyc)

Residuals:
     Min       1Q   Median       3Q      Max
-0.25064 -0.12539 -0.05462  0.07191  0.45019

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  5.462e-01  2.415e-02  22.615  < 2e-16 ***
```

```
wsd          3.239e-05  9.754e-06   3.321  0.00115 **
wmyc        -5.826e-01  1.971e-01  -2.955  0.00369 **
wsd:wmyc     1.412e-04  7.266e-05   1.944  0.05401 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1774 on 135 degrees of freedom
Multiple R-squared:  0.1528,    Adjusted R-squared:  0.134
F-statistic: 8.118 on 3 and 135 DF,  p-value: 5.203e-05

Model summary (fitted coefficients) in Model4
> summary.lm(model4<-aov(sqrt(log(RFD))~wsd*wmyc))
Call:
aov(formula = sqrt(log(RFD)) ~ wsd * wmyc)

Residuals:
    Min      1Q  Median      3Q     Max
-0.6353 -0.4002 -0.1984  0.1250  1.4486
Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  7.009e-01  7.501e-02   9.344 2.58e-16 ***
wsd          8.857e-05  3.030e-05   2.924  0.00406 **
wmyc        -1.694e+00  6.123e-01  -2.766  0.00647 **
wsd:wmyc     3.745e-04  2.257e-04   1.659  0.09938 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
Residual standard error: 0.5512 on 135 degrees of freedom
Multiple R-squared:  0.1352,    Adjusted R-squared:  0.116
F-statistic: 7.037 on 3 and 135 DF,  p-value: 0.000197
```

We repeated the analyses with the alternative classification of diversity effects into complementarity and selection effects.

```
ANOVA table in Model 5: response variable: complementary; first predictor
weighted mean mycorrhizal responsiveness; second predictor: weighted variance
of mycorrhizal responsiveness.
> summary(model5<-aov(compl~wmyc*wsd))
             Df Sum Sq Mean Sq F value   Pr(>F)
wmyc          1  13750   13750   4.247   0.0412 *
wsd           1 153028  153028  47.272 2.09e-10 ***
wmyc:wsd      1   1494    1494   0.461   0.4981
Residuals   135 437022    3237
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

ANOVA table in Model 5: response variable: selection effects; first predictor
weighted mean mycorrhizal responsiveness; second predictor: weighted variance
of mycorrhizal responsiveness.
> anova(model6<-aov(selection~wmyc*wsd))
Analysis of Variance Table

Response: selection
           Df Sum Sq Mean Sq F value    Pr(>F)
```

```
wmyc        1 2310.4 2310.40 76.8884 6.855e-15 ***
wsd         1   13.5   13.45  0.4477    0.5046
wmyc:wsd    1   74.8   74.84  2.4905    0.1169
Residuals 135 4056.6   30.05
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

ANOVA table in Model 7: Equivalent to model 5 but with the two predictors in reversed order.

```
> summary(model7<-aov(compl~wsd*wmyc))
             Df Sum Sq Mean Sq F value   Pr(>F)
wsd           1 166599  166599  51.464 4.36e-11 ***
wmyc          1    178     178   0.055    0.815
wsd:wmyc      1   1494    1494   0.461    0.498
Residuals   135 437022    3237
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

ANOVA table in Model 8: Equivalent to model 6 but with the two predictors in reversed order.

```
> anova(model8<-aov(selection~wsd*wmyc))
Analysis of Variance Table
Response: selection
           Df Sum Sq Mean Sq F value    Pr(>F)
wsd         1  250.8  250.77  8.3455  0.004506 **
wmyc        1 2073.1 2073.08 68.9906 9.209e-14 ***
wsd:wmyc    1   74.8   74.84  2.4905  0.116872
Residuals 135 4056.6   30.05
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

Appendix 3: Sensitivity analysis – competition coefficients

To assess how robust competition coefficients were to the removal of any single experimental treatment we carried out a remove one sensitivity analysis. We assessed competition coefficients iteratively after removing each time a difference experimental treatment. We truncated any below zero values to zero and any values above one to one.

Variability in competition coefficient can arise either through the relative value of competition coefficients changing or through the relative strength of competition coefficients over the competition conversion coefficients changing. To seggregate between these two we implemented the following procedure:

1. We worked with the set of thirty six competition coefficients and we rescaled them so that they average the median expected value. Then we assessed the standard deviation of the 139 values. We present these median standard deviation values in Table S1. Standard deviation on average accounted for less than 15% of the assessed values of competition coefficients (the maximum observed value was 0.37 but the 3rd quartile value was 0.15).
2. We assessed in each case the mean value of the competition coefficients and the mean value of the competition conversion coeffieients. We use these two estimates to calculate a log response ratio because of better distribution properties. We report on the spread of points at Fig. S3.

In both cases the variance we observed with regards to the estiamtes of competition coefficients was relatively low.

Appendix 4: Community data from the BIODEPTH experiment.

Plot ID	Year	Country	Net Effect	Complementarity	Selection	Plant Community*	Niche Differences	Relative Fitness Differences	Species Richness	Oblicates Present	Facultatives Present	Legumes Present
B1P013	1	Germany	110.25	85.37	24.88	G1ALOPRA1;G1DACGLO1;G1HOLLAN1;H1GERPRA1	0.39	1.75	4	TRUE	TRUE	No
B1P031	1	Germany	57.45	-35.62	93.07	G1ALOPRA1;G1ARRELA1;G1FESRUB1;L1TRIREP1	0.33	1.84	4	TRUE	TRUE	Yes
B1P040	1	Germany	29.95	-22.41	52.36	G1ALOPRA1;G1DACGLO1;G1HOLLAN1;H1GERPRA1	0.30	1.61	4	TRUE	TRUE	No
B1P057	1	Germany	276.95	153.60	123.35	G1ALOPRA1;G1ARRELA1;G1FESRUB1;L1TRIREP1	0.91	51.31	4	TRUE	TRUE	Yes
C2P003	1	Portugal	112.46	194.24	-81.77	G2HOLLAN1;H2CONFLO1;H2SILGAL1;L2ORNCOM1	0.92	48.01	4	FALSE	TRUE	Yes
C2P006	1	Portugal	151.24	55.40	95.84	G2AVESAT1;G2LOLMUL1;G2PHABRA1;H2PLALAN1;H2RUMPUL1;H2TORARV1;L2ORNCOM1;L2TRISUB1	0.24	1.56	8	TRUE	TRUE	Yes
C2P009	1	Portugal	264.05	149.94	114.11	G2AVESAT1;H2RUMPUL1;H2TORARV1;L2VICSAT1	0.99	92.91	4	TRUE	TRUE	Yes
C2P020	1	Portugal	256.25	289.92	-33.67	G2AVESAT1;H2RUMPUL1;H2TORARV1;L2VICSAT1	0.93	45.45	4	TRUE	TRUE	Yes
C2P027	1	Portugal	-81.26	40.70	-121.96	G2DACGLO1;H2CONFLO1;H2RUMPUL1;L2TRISUB1	0.90	53.93	4	FALSE	TRUE	Yes
C2P029	1	Portugal	-41.34	-42.19	0.85	G2HOLLAN1;H2MISORO1;H2PLALAN1;L2VICSAT1	0.21	1.29	4	TRUE	TRUE	Yes
C2P033	1	Portugal	-2.66	21.69	-24.35	G2LOLMUL1;H2RUMPUL1;H2SILGAL1;L2TRISUB1	0.90	53.72	4	FALSE	TRUE	Yes
C2P036	1	Portugal	286.06	405.21	-119.15	G2HOLLAN1;H2CONFLO1;H2SILGAL1;L2ORNCOM1	0.95	41.95	4	FALSE	TRUE	Yes
C2P043	1	Portugal	216.56	425.29	-208.73	G2HOLLAN1;H2MISORO1;H2PLALAN1;L2VICSAT1	0.99	83.92	4	TRUE	TRUE	Yes
C2P045	1	Portugal	-71.06	69.07	-140.14	G2DACGLO1;H2CONFLO1;H2RUMPUL1;L2TRISUB1	0.90	53.93	4	FALSE	TRUE	Yes
C2P053	1	Portugal	-37.06	-17.67	-19.40	G2LOLMUL1;H2RUMPUL1;H2SILGAL1;L2TRISUB1	0.39	2.32	4	FALSE	TRUE	Yes
C2P054	1	Portugal	177.83	504.43	-326.60	G2DACGLO1;G2HOLLAN1;G2PHABRA1;H2CONFLO1;H2MISORO1;H2RUMPUL1;L2ORNCOM1;L2VICSAT1	0.78	19.07	8	TRUE	TRUE	Yes
C2P055	1	Portugal	104.54	-8.27	112.81	G2AVESAT1;G2LOLMUL1;G2PHABRA1;H2PLALAN1;H2RUMPUL1;H2TORARV1;L2ORNCOM1;L2TRISUB1	0.16	1.44	8	TRUE	TRUE	Yes
C2P067	1	Portugal	240.63	531.62	-290.99	G2DACGLO1;G2HOLLAN1;G2PHABRA1;H2CONFLO1;H2MISORO1;H2RUMPUL1;L2ORNCOM1;L2VICSAT1	0.92	49.08	8	TRUE	TRUE	Yes
R5P006	1	Ireland	119.20	-25.97	145.17	G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5TRIREP1	0.26	1.31	4	TRUE	TRUE	Yes
R5P007	1	Ireland	554.85	306.23	248.62	H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.91	49.27	4	TRUE	TRUE	Yes
R5P009	1	Ireland	238.63	127.37	111.26	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.18	1.22	8	TRUE	TRUE	No
R5P014	1	Ireland	25.20	47.21	-22.01	G5AGRCAP1;G5ALOPRA1;H5PLALAN1;H5RUMACE1	0.30	1.29	4	TRUE	TRUE	No
R5P015	1	Ireland	308.25	159.96	148.29	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.41	1.80	4	TRUE	TRUE	No
R5P019	1	Ireland	274.50	170.72	103.78	G5AGRCAP1;G5ALOPRA1;L5LOTPED1;L5TRIREP1	0.44	1.63	4	TRUE	TRUE	Yes

R5P022	1	Ireland	-98.60	-138.95	40.35	H5CENNIG1;H5PLALAN1;L5LOTPED1;L5TRIREP1	0.13	1.14	4	TRUE	FALSE	Yes
R5P028	1	Ireland	-29.35	-108.88	79.53	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5LOTPED1;L5TRIREP1	0.09	1.12	8	TRUE	TRUE	Yes
R5P029	1	Ireland	164.63	63.78	100.85	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.15	1.12	8	TRUE	TRUE	No
R5P030	1	Ireland	84.55	-73.68	158.23	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.11	1.15	8	TRUE	TRUE	Yes
R5P031	1	Ireland	56.35	-78.57	134.92	G5AGRCAP1;H5CENNIG1;H5RANREP1;L5LOTPED1	0.23	1.50	4	TRUE	TRUE	Yes
R5P035	1	Ireland	161.05	-17.14	178.19	G5ANTODO1;G5HOLLAN1;L5LOTPED1;L5TRIREP1	0.28	1.37	4	TRUE	TRUE	Yes
R5P036	1	Ireland	69.55	-65.61	135.16	G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1	0.24	1.28	4	TRUE	TRUE	No
R5P037	1	Ireland	273.40	165.42	107.98	G5AGRCAP1;H5PLALAN1;L5LOTPED1	0.56	1.81	3	TRUE	TRUE	Yes
R5P038	1	Ireland	105.85	23.63	82.22	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.28	1.28	4	TRUE	TRUE	No
R5P042	1	Ireland	-41.75	-160.23	118.48	G5ANTODO1;G5HOLLAN1;L5LOTPED1;L5TRIREP1	0.17	1.20	4	TRUE	TRUE	Yes
R5P045	1	Ireland	-291.78	-311.48	19.71	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.03	1.04	8	TRUE	TRUE	No
R5P046	1	Ireland	271.80	163.29	108.51	H5CENNIG1;H5PLALAN1;L5LOTPED1;L5TRIREP1	0.57	2.72	4	TRUE	FALSE	Yes
R5P047	1	Ireland	266.85	96.91	169.94	H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.91	51.50	4	TRUE	TRUE	Yes
R5P050	1	Ireland	240.60	146.62	93.98	G5AGRCAP1;H5PLALAN1;L5LOTPED1	0.96	69.97	3	TRUE	TRUE	Yes
R5P051	1	Ireland	117.75	-13.65	131.40	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.14	1.26	8	TRUE	TRUE	Yes
R5P052	1	Ireland	-16.15	-47.89	31.74	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5LOTPED1;L5TRIREP1	0.12	1.21	8	TRUE	TRUE	Yes
R5P055	1	Ireland	-89.65	-187.92	98.27	G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1	0.16	1.16	4	TRUE	TRUE	No
R5P056	1	Ireland	307.60	113.26	194.34	G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5TRIREP1	0.41	1.68	4	TRUE	TRUE	Yes
R5P057	1	Ireland	3.43	-92.31	95.74	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.10	1.13	8	TRUE	TRUE	No
R5P059	1	Ireland	-404.00	-404.00	0.00	G5AGRCAP1;G5ALOPRA1;H5PLALAN1;H5RUMACE1	0.00	1.00	4	TRUE	TRUE	No
R5P064	1	Ireland	-70.05	-114.61	44.56	G5AGRCAP1;H5CENNIG1;H5RANREP1;L5LOTPED1	0.15	1.14	4	TRUE	TRUE	Yes
R5P066	1	Ireland	193.05	92.09	100.96	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.33	1.37	4	TRUE	TRUE	No
R5P069	1	Ireland	-85.35	-133.46	48.11	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.20	1.17	4	TRUE	TRUE	No
R5P075	1	Ireland	-101.90	-144.87	42.97	G5AGRCAP1;G5ALOPRA1;L5LOTPED1;L5TRIREP1	0.15	1.19	4	TRUE	TRUE	Yes
R6P001	1	Sweden	-0.91	0.34	-1.26	G6DACGLO1;G6PHAARU1;H6LEUVUL1;L6LOTCOR1	0.29	1.38	4	TRUE	TRUE	Yes
R6P013	1	Sweden	2.19	-2.86	5.05	G6DACGLO1;G6PHAARU1;H6LEUVUL1;L6LOTCOR1	0.25	1.28	4	TRUE	TRUE	Yes
R6P020	1	Sweden	NaN	Inf	NaN	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1	1.00	36.04	4	FALSE	TRUE	No
R6P027	1	Sweden	-44.30	-44.30	0.00	H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.00	1.00	4	TRUE	TRUE	Yes
R6P031	1	Sweden	-43.50	97.46	-140.96	H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.90	53.96	4	TRUE	TRUE	Yes

R6P043	1	Sweden	-11.41	2165.36	#######	G6PHLPRA1;H6RANACR1;H6RUMACE1;L6TRIPRA1	0.94	43.46	4	TRUE	TRUE	Yes
R6P056	1	Sweden	36.59	164.13	-127.54	G6PHLPRA1;H6RANACR1;H6RUMACE1;L6TRIPRA1	0.99	74.40	4	TRUE	TRUE	Yes
R6P062	1	Sweden	24.51	-2.70	27.22	G6PHAARU1;G6PHLPRA1;L6LOTCOR1;L6TRIPRA1	0.30	1.53	4	TRUE	TRUE	Yes
R6P072	1	Sweden	-11.59	-30.74	19.15	G6PHAARU1;G6PHLPRA1;L6LOTCOR1;L6TRIPRA1	0.13	1.22	4	TRUE	TRUE	Yes
S7P005	1	Sheffield	52.46	36.36	16.09	G7ALOPRA1;G7FESOVI1;H7CENNIG1;H7GALVER1;H7LEOHIS1;H7PLALAN1;L7LOTCOR1;L7TRIREP1	0.20	1.24	8	TRUE	TRUE	Yes
S7P009	1	Sheffield	66.10	41.13	24.97	G7FESOVI1;H7GALVER1;H7PLALAN1;L7LOTCOR1	0.40	1.31	4	TRUE	TRUE	Yes
S7P011	1	Sheffield	7.41	21.28	-13.87	G7AGRCAP1;H7GALVER1;H7LEOHIS1;L7LOTCOR1	0.34	1.27	4	TRUE	TRUE	Yes
S7P015	1	Sheffield	20.53	218.08	-197.55	G7ANTODO1;H7CENNIG1;H7ORIVUL1;L7TRIREP1	0.93	43.42	4	TRUE	TRUE	Yes
S7P019	1	Sheffield	65.36	967.31	-901.96	G7ALOPRA1;G7ANTODO1;H7CENNIG1;H7ORIVUL1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.91	49.64	8	TRUE	TRUE	Yes
S7P022	1	Sheffield	47.33	579.09	-531.76	G7AGRCAP1;G7FESOVI1;H7GALVER1;H7LEOHIS1;H7ORIVUL1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.92	49.06	8	TRUE	TRUE	Yes
S7P025	1	Sheffield	13.73	963.61	-949.89	G7ALOPRA1;H7PLALAN1;H7SCACOL1;L7TRIREP1	0.94	41.40	4	TRUE	FALSE	Yes
S7P026	1	Sheffield	49.19	441.49	-392.31	G7AGRCAP1;G7ANTODO1;H7GALVER1;H7LEOHIS1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.75	19.52	8	TRUE	TRUE	Yes
S7P028	1	Sheffield	29.59	56.81	-27.22	G7AGRCAP1;G7ANTODO1;H7GALVER1;H7LEOHIS1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.23	1.24	8	TRUE	TRUE	Yes
S7P031	1	Sheffield	19.73	60.96	-41.23	G7ANTODO1;H7CENNIG1;H7ORIVUL1;L7TRIREP1	0.92	46.08	4	TRUE	TRUE	Yes
S7P036	1	Sheffield	18.71	22.40	-3.68	G7AGRCAP1;H7GALVER1;H7LEOHIS1;L7LOTCOR1	0.34	1.27	4	TRUE	TRUE	Yes
S7P037	1	Sheffield	77.20	51.02	26.18	G7FESOVI1;H7GALVER1;H7PLALAN1;L7LOTCOR1	0.42	1.30	4	TRUE	TRUE	Yes
S7P040	1	Sheffield	82.33	108.09	-25.77	G7AGRCAP1;G7FESOVI1;H7GALVER1;H7LEOHIS1;H7ORIVUL1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	1.00	NaN	8	TRUE	TRUE	Yes
S7P042	1	Sheffield	18.33	157.95	-139.62	G7ALOPRA1;H7PLALAN1;H7SCACOL1;L7TRIREP1	0.94	40.45	4	TRUE	FALSE	Yes
S7P044	1	Sheffield	34.66	37.60	-2.95	G7ALOPRA1;G7FESOVI1;H7CENNIG1;H7GALVER1;H7LEOHIS1;H7PLALAN1;L7LOTCOR1;L7TRIREP1	0.21	1.27	8	TRUE	TRUE	Yes
S7P051	1	Sheffield	72.56	95.32	-22.77	G7ALOPRA1;G7ANTODO1;H7CENNIG1;H7ORIVUL1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.33	1.49	8	TRUE	TRUE	Yes
S8P001	1	Silwood	-18.50	-98.77	80.27	G8AGRCAP1;G8HOLLAN1;H8PLALAN1;H8RUMACE1	0.22	1.29	4	TRUE	TRUE	No
S8P008	1	Silwood	319.59	313.86	5.73	G8AGRCAP1;H8ACHMIL1;H8PLALAN1;L8LOTCOR1	0.92	49.24	4	TRUE	TRUE	Yes
S8P011	1	Silwood	67.04	59.47	7.57	G8ARRELA1;G8FESRUB1;L8LOTCOR1;L8TRIREP1	0.37	1.54	4	TRUE	TRUE	Yes
S8P013	1	Silwood	-179.85	-162.48	-17.37	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1	0.19	1.26	4	FALSE	TRUE	No
S8P015	1	Silwood	96.96	267.31	-170.35	G8ARRELA1;H8HYPRAD1;H8RUMACE1;L8TRIREP1	0.93	45.99	4	TRUE	TRUE	Yes
S8P031	1	Silwood	38.90	24.56	14.34	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8HYPRAD1;H8PLALAN1;H8RUMACE1	0.16	1.33	8	TRUE	TRUE	No
S8P033	1	Silwood	8.43	-46.60	55.03	G8AGRCAP1;G8FESRUB1;G8HOLLAN1;H8HYPRAD1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.12	1.19	8	TRUE	TRUE	Yes

S8P040	1	Silwood	469.14	663.63	-194.49	G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.76	19.21	8	TRUE	TRUE	Yes
S8P046	1	Silwood	-181.60	-140.37	-41.23	G8AGRCAP1;G8HOLLAN1;H8PLALAN1;H8RUMACE1	0.18	1.13	4	TRUE	TRUE	No
S8P047	1	Silwood	-46.47	4.44	-50.91	G8AGRCAP1;G8FESRUB1;G8HOLLAN1;H8HYPRAD1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.13	1.09	8	TRUE	TRUE	Yes
S8P050	1	Silwood	-45.80	-45.88	0.08	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8HYPRAD1;H8PLALAN1;H8RUMACE1	0.13	1.28	8	TRUE	TRUE	No
S8P060	1	Silwood	187.14	170.78	16.36	G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.28	1.79	8	TRUE	TRUE	Yes
S8P063	1	Silwood	11.65	115.81	-104.16	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1	0.90	53.41	4	FALSE	TRUE	No
S8P071	1	Silwood	253.14	149.18	103.95	G8ARRELA1;G8FESRUB1;L8LOTCOR1;L8TRIREP1	0.91	49.73	4	TRUE	TRUE	Yes
S8P073	1	Silwood	118.39	65.78	52.61	G8AGRCAP1;H8ACHMIL1;H8PLALAN1;L8LOTCOR1	0.32	1.38	4	TRUE	TRUE	Yes
S8P078	1	Silwood	83.06	-38.06	121.12	G8ARRELA1;H8HYPRAD1;H8RUMACE1;L8TRIREP1	0.32	1.90	4	TRUE	TRUE	Yes
B1P013	2	Germany	24.79	23.72	1.06	G1ALOPRA1;G1DACGLO1;G1HOLLAN1;H1GERPRA1	0.35	1.72	4	TRUE	TRUE	No
B1P031	2	Germany	417.11	306.62	110.49	G1ALOPRA1;G1ARRELA1;G1FESRUB1;L1TRIREP1	0.91	51.52	4	TRUE	TRUE	Yes
B1P040	2	Germany	-10.71	-30.73	20.02	G1ALOPRA1;G1DACGLO1;G1HOLLAN1;H1GERPRA1	0.27	1.39	4	TRUE	TRUE	No
B1P057	2	Germany	223.31	146.65	76.66	G1ALOPRA1;G1ARRELA1;G1FESRUB1;L1TRIREP1	0.91	51.38	4	TRUE	TRUE	Yes
C2P003	2	Portugal	153.91	195.75	-41.84	G2HOLLAN1;H2CONFLO1;H2SILGAL1;L2ORNCOM1	0.91	51.95	4	FALSE	TRUE	Yes
C2P027	2	Portugal	137.10	35.67	101.43	G2DACGLO1;H2CONFLO1;H2RUMPUL1;L2TRISUB1	0.56	3.23	4	FALSE	TRUE	Yes
C2P029	2	Portugal	184.25	71.68	112.57	G2HOLLAN1;H2MISORO1;H2PLALAN1;L2VICSAT1	0.91	51.26	4	TRUE	TRUE	Yes
C2P033	2	Portugal	2.46	-33.71	36.17	G2LOLMUL1;H2RUMPUL1;H2SILGAL1;L2TRISUB1	0.16	1.19	4	FALSE	TRUE	Yes
C2P036	2	Portugal	904.51	1043.48	-138.97	G2HOLLAN1;H2CONFLO1;H2SILGAL1;L2ORNCOM1	0.93	46.02	4	FALSE	TRUE	Yes
C2P043	2	Portugal	95.15	14.58	80.57	G2HOLLAN1;H2MISORO1;H2PLALAN1;L2VICSAT1	0.36	1.56	4	TRUE	TRUE	Yes
C2P045	2	Portugal	367.90	114.63	253.27	G2DACGLO1;H2CONFLO1;H2RUMPUL1;L2TRISUB1	0.90	53.96	4	FALSE	TRUE	Yes
C2P053	2	Portugal	-10.84	-37.86	27.02	G2LOLMUL1;H2RUMPUL1;H2SILGAL1;L2TRISUB1	0.14	1.17	4	FALSE	TRUE	Yes
C2P054	2	Portugal	149.41	33.12	116.29	G2DACGLO1;G2HOLLAN1;G2PHABRA1;H2CONFLO1;H2MISORO1;H2RUMPUL1;L2ORNCOM1;L2VICSAT1	0.28	1.99	8	TRUE	TRUE	Yes
C2P067	2	Portugal	166.21	53.78	112.43	G2DACGLO1;G2HOLLAN1;G2PHABRA1;H2CONFLO1;H2MISORO1;H2RUMPUL1;L2ORNCOM1;L2VICSAT1	0.29	1.89	8	TRUE	TRUE	Yes
R5P006	2	Ireland	91.80	-37.51	129.31	G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5TRIREP1	0.25	1.40	4	TRUE	TRUE	Yes
R5P007	2	Ireland	574.60	201.76	372.84	H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.91	49.85	4	TRUE	TRUE	Yes
R5P009	2	Ireland	184.63	83.38	101.24	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.18	1.25	8	TRUE	TRUE	No
R5P014	2	Ireland	-39.15	-55.70	16.55	G5AGRCAP1;G5ALOPRA1;H5PLALAN1;H5RUMACE1	0.23	1.36	4	TRUE	TRUE	No
R5P015	2	Ireland	154.35	48.54	105.81	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.46	2.52	4	TRUE	TRUE	No
R5P019	2	Ireland	153.15	9.95	143.20	G5AGRCAP1;G5ALOPRA1;L5LOTPED1;L5TRIREP1	0.40	2.09	4	TRUE	TRUE	Yes

R5P022	2	Ireland	165.05	26.48	138.57	H5CENNIG1;H5PLALAN1;L5LOTPED1;L5TRIREP1	0.90	53.05	4	TRUE	FALSE	Yes
R5P028	2	Ireland	56.18	-56.20	112.37	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5LOTPED1;L5TRIREP1	0.11	1.16	8	TRUE	TRUE	Yes
R5P029	2	Ireland	313.03	204.95	108.08	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.24	1.33	8	TRUE	TRUE	No
R5P030	2	Ireland	439.68	123.37	316.30	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.70	20.66	8	TRUE	TRUE	Yes
R5P031	2	Ireland	74.15	-33.64	107.79	G5AGRCAP1;H5CENNIG1;H5RANREP1;L5LOTPED1	0.29	1.70	4	TRUE	TRUE	Yes
R5P035	2	Ireland	322.90	70.49	252.41	G5ANTODO1;G5HOLLAN1;L5LOTPED1;L5TRIREP1	0.40	1.66	4	TRUE	TRUE	Yes
R5P036	2	Ireland	90.15	3.23	86.92	G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1	0.29	1.40	4	TRUE	TRUE	No
R5P037	2	Ireland	501.03	324.47	176.56	G5AGRCAP1;H5PLALAN1;L5LOTPED1	0.97	58.23	3	TRUE	TRUE	Yes
R5P038	2	Ireland	94.35	12.51	81.84	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.29	1.37	4	TRUE	TRUE	No
R5P042	2	Ireland	164.10	-18.21	182.31	G5ANTODO1;G5HOLLAN1;L5LOTPED1;L5TRIREP1	0.27	1.36	4	TRUE	TRUE	Yes
R5P045	2	Ireland	29.83	-63.50	93.32	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.11	1.14	8	TRUE	TRUE	No
R5P046	2	Ireland	314.65	105.80	208.85	H5CENNIG1;H5PLALAN1;L5LOTPED1;L5TRIREP1	0.90	53.31	4	TRUE	FALSE	Yes
R5P047	2	Ireland	720.20	216.90	503.30	H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.90	53.37	4	TRUE	TRUE	Yes
R5P050	2	Ireland	414.53	250.15	164.38	G5AGRCAP1;H5PLALAN1;L5LOTPED1	0.98	51.29	3	TRUE	TRUE	Yes
R5P051	2	Ireland	40.08	-85.76	125.83	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.09	1.15	8	TRUE	TRUE	Yes
R5P052	2	Ireland	153.48	25.91	127.56	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5LOTPED1;L5TRIREP1	0.16	1.24	8	TRUE	TRUE	Yes
R5P055	2	Ireland	4.05	-67.13	71.18	G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1	0.23	1.29	4	TRUE	TRUE	No
R5P056	2	Ireland	166.60	45.29	121.31	G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5TRIREP1	0.35	1.54	4	TRUE	TRUE	Yes
R5P057	2	Ireland	156.23	23.96	132.26	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.15	1.24	8	TRUE	TRUE	No
R5P059	2	Ireland	108.95	83.74	25.21	G5AGRCAP1;G5ALOPRA1;H5PLALAN1;H5RUMACE1	0.34	1.26	4	TRUE	TRUE	No
R5P064	2	Ireland	256.35	73.60	182.75	G5AGRCAP1;H5CENNIG1;H5RANREP1;L5LOTPED1	0.90	52.42	4	TRUE	TRUE	Yes
R5P066	2	Ireland	199.05	114.99	84.06	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.37	1.46	4	TRUE	TRUE	No
R5P069	2	Ireland	112.45	28.29	84.16	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.30	1.36	4	TRUE	TRUE	No
R6P001	2	Sweden	-61.73	-108.56	46.83	G6DACGLO1;G6PHAARU1;H6LEUVUL1;L6LOTCOR1	0.05	1.09	4	TRUE	TRUE	Yes
R6P013	2	Sweden	-45.83	24.99	-70.82	G6DACGLO1;G6PHAARU1;H6LEUVUL1;L6LOTCOR1	0.46	2.37	4	TRUE	TRUE	Yes
R6P017	2	Sweden	-181.94	-212.45	30.51	G6PHAARU1;G6PHLPRA1;H6ACHMIL1;H6LEUVUL1;H6RANACR1;H6RUMACE1;L6LOTCOR1;L6TRIPRA1	0.01	1.03	8	TRUE	TRUE	Yes
R6P018	2	Sweden	-101.64	-121.53	19.89	G6DACGLO1;G6FESOVI1;G6PHAARU1;G6PHLPRA1;H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.06	1.11	8	TRUE	TRUE	Yes
R6P020	2	Sweden	-17.45	-12.81	-4.64	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1	0.34	2.02	4	FALSE	TRUE	No

R6P024	2	Sweden	-213.74	-214.99	1.26	G6PHAARU1;G6PHLPRA1;H6ACHMIL1;H6LEUVUL1;H6RANACR1;H6RUMACE1;L6LOTCOR1;L6TRIPRA1	0.01	1.01	8	TRUE	TRUE	Yes
R6P025	2	Sweden	-213.84	-218.69	4.85	G6DACGLO1;G6FESOVI1;G6PHAARU1;G6PHLPRA1;H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.00	1.01	8	TRUE	TRUE	Yes
R6P026	2	Sweden	2.81	-18.97	21.78	G6FESOVI1;H6ACHMIL1;L6TRIHYB1;L6TRIREP1	0.23	1.06	4	TRUE	TRUE	Yes
R6P027	2	Sweden	-135.50	-59.26	-76.24	H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.24	1.56	4	TRUE	TRUE	Yes
R6P031	2	Sweden	-20.30	-77.56	57.26	H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.16	1.17	4	TRUE	TRUE	Yes
R6P037	2	Sweden	53.11	141.64	-88.53	G6FESOVI1;H6ACHMIL1;L6TRIHYB1;L6TRIREP1	0.90	52.62	4	TRUE	TRUE	Yes
R6P038	2	Sweden	57.35	62.09	-4.74	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1	0.91	51.35	4	FALSE	TRUE	No
R6P043	2	Sweden	4.21	-112.70	116.91	G6PHLPRA1;H6RANACR1;H6RUMACE1;L6TRIPRA1	0.22	1.48	4	TRUE	TRUE	Yes
R6P045	2	Sweden	50.48	141.50	-91.02	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1;L6LOTCOR1;L6TRIHYB1;L6TRIPRA1;L6TRIREP1	0.26	1.43	8	TRUE	TRUE	Yes
R6P056	2	Sweden	338.51	106.31	232.21	G6PHLPRA1;H6RANACR1;H6RUMACE1;L6TRIPRA1	0.90	52.49	4	TRUE	TRUE	Yes
R6P062	2	Sweden	269.05	51.94	217.11	G6PHAARU1;G6PHLPRA1;L6LOTCOR1;L6TRIPRA1	0.90	52.90	4	TRUE	TRUE	Yes
R6P066	2	Sweden	215.78	240.74	-24.96	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1;L6LOTCOR1;L6TRIHYB1;L6TRIPRA1;L6TRIREP1	0.72	20.24	8	TRUE	TRUE	Yes
R6P072	2	Sweden	-300.05	-324.77	24.72	G6PHAARU1;G6PHLPRA1;L6LOTCOR1;L6TRIPRA1	0.03	1.06	4	TRUE	TRUE	Yes
S7P005	2	Sheffield	421.13	204.98	216.15	G7ALOPRA1;G7FESOVI1;H7CENNIG1;H7GALVER1;H7LEOHIS1;H7PLALAN1;L7LOTCOR1;L7TRIREP1	0.20	1.24	8	TRUE	TRUE	Yes
S7P009	2	Sheffield	227.04	58.97	168.07	G7FESOVI1;H7GALVER1;H7PLALAN1;L7LOTCOR1	0.31	1.37	4	TRUE	TRUE	Yes
S7P011	2	Sheffield	375.40	156.65	218.75	G7AGRCAP1;H7GALVER1;H7LEOHIS1;L7LOTCOR1	0.48	2.29	4	TRUE	TRUE	Yes
S7P015	2	Sheffield	-76.49	-64.37	-12.12	G7ANTODO1;H7CENNIG1;H7ORIVUL1;L7TRIREP1	0.24	1.37	4	TRUE	TRUE	Yes
S7P019	2	Sheffield	466.34	257.45	208.88	G7ALOPRA1;G7ANTODO1;H7CENNIG1;H7ORIVUL1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.23	1.28	8	TRUE	TRUE	Yes
S7P022	2	Sheffield	455.63	246.35	209.28	G7AGRCAP1;G7FESOVI1;H7GALVER1;H7LEOHIS1;H7ORIVUL1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.25	1.49	8	TRUE	TRUE	Yes
S7P025	2	Sheffield	247.90	164.21	83.69	G7ALOPRA1;H7PLALAN1;H7SCACOL1;L7TRIREP1	0.43	1.62	4	TRUE	FALSE	Yes
S7P026	2	Sheffield	450.89	275.72	175.16	G7AGRCAP1;G7ANTODO1;H7GALVER1;H7LEOHIS1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.22	1.24	8	TRUE	TRUE	Yes
S7P028	2	Sheffield	419.89	279.60	140.29	G7AGRCAP1;G7ANTODO1;H7GALVER1;H7LEOHIS1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.22	1.23	8	TRUE	TRUE	Yes
S7P031	2	Sheffield	-83.09	-72.95	-10.14	G7ANTODO1;H7CENNIG1;H7ORIVUL1;L7TRIREP1	0.22	1.32	4	TRUE	TRUE	Yes
S7P036	2	Sheffield	409.70	158.08	251.62	G7AGRCAP1;H7GALVER1;H7LEOHIS1;L7LOTCOR1	0.57	3.33	4	TRUE	TRUE	Yes
S7P037	2	Sheffield	263.14	109.85	153.29	G7FESOVI1;H7GALVER1;H7PLALAN1;L7LOTCOR1	0.32	1.29	4	TRUE	TRUE	Yes
S7P040	2	Sheffield	442.53	261.92	180.61	G7AGRCAP1;G7FESOVI1;H7GALVER1;H7LEOHIS1;H7ORIVUL1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.25	1.40	8	TRUE	TRUE	Yes
S7P042	2	Sheffield	236.20	192.32	43.88	G7ALOPRA1;H7PLALAN1;H7SCACOL1;L7TRIREP1	0.47	1.81	4	TRUE	FALSE	Yes

S7P044	2	Sheffield	438.43	235.52	202.91	G7ALOPRA1;G7FESOVI1;H7CENNIG1;H7GALVER1;H7LEOHIS1;H7PLALAN1;L7LOTCOR1;L7TRIREP1	0.21	1.25	8	TRUE	TRUE	Yes
S7P051	2	Sheffield	382.94	262.51	120.42	G7ALOPRA1;G7ANTODO1;H7CENNIG1;H7ORIVUL1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.22	1.21	8	TRUE	TRUE	Yes
S8P001	2	Silwood	139.18	181.26	-42.08	G8AGRCAP1;G8HOLLAN1;H8PLALAN1;H8RUMACE1	0.56	3.08	4	TRUE	TRUE	No
S8P008	2	Silwood	321.96	420.51	-98.55	G8AGRCAP1;H8ACHMIL1;H8PLALAN1;L8LOTCOR1	0.91	49.96	4	TRUE	TRUE	Yes
S8P011	2	Silwood	151.16	85.86	65.30	G8ARRELA1;G8FESRUB1;L8LOTCOR1;L8TRIREP1	0.47	2.49	4	TRUE	TRUE	Yes
S8P013	2	Silwood	-126.11	0.59	-126.71	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1	0.36	1.94	4	FALSE	TRUE	No
S8P015	2	Silwood	163.30	-10.30	173.60	G8ARRELA1;H8HYPRAD1;H8RUMACE1;L8TRIREP1	0.42	2.44	4	TRUE	TRUE	Yes
S8P031	2	Silwood	703.19	711.12	-7.92	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8HYPRAD1;H8PLALAN1;H8RUMACE1	0.77	20.60	8	TRUE	TRUE	No
S8P033	2	Silwood	243.13	315.14	-72.01	G8AGRCAP1;G8FESRUB1;G8HOLLAN1;H8HYPRAD1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.29	1.66	8	TRUE	TRUE	Yes
S8P040	2	Silwood	899.26	647.34	251.92	G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.90	53.17	8	TRUE	TRUE	Yes
S8P046	2	Silwood	-72.73	56.11	-128.83	G8AGRCAP1;G8HOLLAN1;H8PLALAN1;H8RUMACE1	0.31	1.33	4	TRUE	TRUE	No
S8P047	2	Silwood	-78.27	-95.87	17.60	G8AGRCAP1;G8FESRUB1;G8HOLLAN1;H8HYPRAD1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.10	1.09	8	TRUE	TRUE	Yes
S8P050	2	Silwood	126.09	224.91	-98.81	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8HYPRAD1;H8PLALAN1;H8RUMACE1	0.20	1.23	8	TRUE	TRUE	No
S8P060	2	Silwood	283.26	154.36	128.90	G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.26	1.77	8	TRUE	TRUE	Yes
S8P063	2	Silwood	-116.21	32.68	-148.89	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1	0.38	2.00	4	FALSE	TRUE	No
S8P071	2	Silwood	34.06	-22.27	56.33	G8ARRELA1;G8FESRUB1;L8LOTCOR1;L8TRIREP1	0.40	2.30	4	TRUE	TRUE	Yes
S8P073	2	Silwood	78.56	86.58	-8.02	G8AGRCAP1;H8ACHMIL1;H8PLALAN1;L8LOTCOR1	0.30	1.19	4	TRUE	TRUE	Yes
S8P078	2	Silwood	492.30	177.79	314.51	G8ARRELA1;H8HYPRAD1;H8RUMACE1;L8TRIREP1	0.90	53.95	4	TRUE	TRUE	Yes
B1P013	3	Germany	33.00	5.17	27.83	G1ALOPRA1;G1DACGLO1;G1HOLLAN1;H1GERPRA1	0.28	1.32	4	TRUE	TRUE	No
B1P031	3	Germany	372.00	321.69	50.31	G1ALOPRA1;G1ARRELA1;G1FESRUB1;L1TRIREP1	0.91	51.70	4	TRUE	TRUE	Yes
B1P040	3	Germany	-93.80	-101.04	7.24	G1ALOPRA1;G1DACGLO1;G1HOLLAN1;H1GERPRA1	0.18	1.15	4	TRUE	TRUE	No
B1P057	3	Germany	277.80	237.25	40.55	G1ALOPRA1;G1ARRELA1;G1FESRUB1;L1TRIREP1	0.91	51.25	4	TRUE	TRUE	Yes
C2P003	3	Portugal	25.65	51.88	-26.23	G2HOLLAN1;H2CONFLO1;H2SILGAL1;L2ORNCOM1	0.93	46.25	4	FALSE	TRUE	Yes
C2P036	3	Portugal	46.25	67.93	-21.68	G2HOLLAN1;H2CONFLO1;H2SILGAL1;L2ORNCOM1	0.99	100.00	4	FALSE	TRUE	Yes
R5P006	3	Ireland	353.80	221.17	132.63	G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5TRIREP1	0.58	3.09	4	TRUE	TRUE	Yes
R5P007	3	Ireland	546.55	240.51	306.04	H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.90	53.26	4	TRUE	TRUE	Yes
R5P009	3	Ireland	248.25	189.28	58.97	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.42	3.59	8	TRUE	TRUE	No
R5P014	3	Ireland	179.75	41.17	138.58	G5AGRCAP1;G5ALOPRA1;H5PLALAN1;H5RUMACE1	0.30	1.34	4	TRUE	TRUE	No

R5P015	3	Ireland	1.25	24.36	-23.11	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.26	1.09	4	TRUE	TRUE	No
R5P019	3	Ireland	331.40	105.64	225.76	G5AGRCAP1;G5ALOPRA1;L5LOTPED1;L5TRIREP1	0.52	2.85	4	TRUE	TRUE	Yes
R5P022	3	Ireland	427.30	195.06	232.24	H5CENNIG1;H5PLALAN1;L5LOTPED1;L5TRIREP1	0.90	53.22	4	TRUE	FALSE	Yes
R5P028	3	Ireland	168.73	-26.40	195.13	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5LOTPED1;L5TRIREP1	0.13	1.15	8	TRUE	TRUE	Yes
R5P029	3	Ireland	341.05	274.45	66.60	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.21	1.29	8	TRUE	TRUE	No
R5P030	3	Ireland	301.40	155.08	146.32	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.21	1.45	8	TRUE	TRUE	Yes
R5P031	3	Ireland	66.10	-94.35	160.45	G5AGRCAP1;H5CENNIG1;H5RANREP1;L5LOTPED1	0.30	1.77	4	TRUE	TRUE	Yes
R5P035	3	Ireland	266.15	-44.09	310.24	G5ANTODO1;G5HOLLAN1;L5LOTPED1;L5TRIREP1	0.28	1.48	4	TRUE	TRUE	Yes
R5P036	3	Ireland	-108.85	-163.14	54.29	G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1	0.20	1.14	4	TRUE	TRUE	No
R5P037	3	Ireland	378.20	342.98	35.22	G5AGRCAP1;H5PLALAN1;L5LOTPED1	0.74	3.53	3	TRUE	TRUE	Yes
R5P038	3	Ireland	189.65	47.72	141.93	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.29	1.32	4	TRUE	TRUE	No
R5P042	3	Ireland	180.15	-85.73	265.88	G5ANTODO1;G5HOLLAN1;L5LOTPED1;L5TRIREP1	0.25	1.36	4	TRUE	TRUE	Yes
R5P045	3	Ireland	84.25	-38.86	123.11	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.14	1.29	8	TRUE	TRUE	No
R5P046	3	Ireland	570.70	296.36	274.34	H5CENNIG1;H5PLALAN1;L5LOTPED1;L5TRIREP1	0.90	53.72	4	TRUE	FALSE	Yes
R5P047	3	Ireland	447.35	168.98	278.37	H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.90	52.94	4	TRUE	TRUE	Yes
R5P050	3	Ireland	329.00	294.59	34.41	G5AGRCAP1;H5PLALAN1;L5LOTPED1	0.65	2.52	3	TRUE	TRUE	Yes
R5P051	3	Ireland	160.50	-33.17	193.67	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5PLALAN1;H5RANREP1;L5LOTPED1;L5TRIREP1	0.13	1.16	8	TRUE	TRUE	Yes
R5P052	3	Ireland	181.93	-61.68	243.61	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5LOTPED1;L5TRIREP1	0.12	1.17	8	TRUE	TRUE	Yes
R5P055	3	Ireland	142.35	190.88	-48.53	G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1	0.45	2.16	4	TRUE	TRUE	No
R5P056	3	Ireland	183.00	-0.55	183.55	G5HOLLAN1;H5CENNIG1;H5RUMACE1;L5TRIREP1	0.29	1.41	4	TRUE	TRUE	Yes
R5P057	3	Ireland	296.25	64.82	231.43	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1;H5CENNIG1;H5PLALAN1;H5RANREP1;H5RUMACE1	0.16	1.22	8	TRUE	TRUE	No
R5P059	3	Ireland	280.15	167.05	113.10	G5AGRCAP1;G5ALOPRA1;H5PLALAN1;H5RUMACE1	0.38	1.38	4	TRUE	TRUE	No
R5P064	3	Ireland	381.70	124.43	257.27	G5AGRCAP1;H5CENNIG1;H5RANREP1;L5LOTPED1	0.90	53.29	4	TRUE	TRUE	Yes
R5P066	3	Ireland	88.45	-9.67	98.12	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.25	1.13	4	TRUE	TRUE	No
R5P069	3	Ireland	-46.35	-130.85	84.50	G5AGRCAP1;G5ALOPRA1;G5ANTODO1;G5HOLLAN1	0.21	1.16	4	TRUE	TRUE	No
R5P075	3	Ireland	243.40	115.60	127.80	G5AGRCAP1;G5ALOPRA1;L5LOTPED1;L5TRIREP1	0.41	1.73	4	TRUE	TRUE	Yes
R6P001	3	Sweden	182.50	38.84	143.66	G6DACGLO1;G6PHAARU1;H6LEUVUL1;L6LOTCOR1	0.90	53.30	4	TRUE	TRUE	Yes
R6P013	3	Sweden	60.50	47.58	12.92	G6DACGLO1;G6PHAARU1;H6LEUVUL1;L6LOTCOR1	0.57	1.76	4	TRUE	TRUE	Yes
R6P017	3	Sweden	365.45	210.92	154.53	G6PHAARU1;G6PHLPRA1;H6ACHMIL1;H6LEUVUL1;H6RANACR1;H6RUMACE1;L6LOTCOR1;L6TRIPRA1	0.70	20.70	8	TRUE	TRUE	Yes

R6P018	3	Sweden	356.54	273.59	82.95	G6DACGLO1;G6FESOVI1;G6PHAARU1;G6PHLPRA1;H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.73	20.05	8	TRUE	TRUE	Yes
R6P020	3	Sweden	13.46	18.78	-5.32	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1	0.42	1.63	4	FALSE	TRUE	No
R6P024	3	Sweden	221.25	92.86	128.39	G6PHAARU1;G6PHLPRA1;H6ACHMIL1;H6LEUVUL1;H6RANACR1;H6RUMACE1;L6LOTCOR1;L6TRIPRA1	0.69	20.97	8	TRUE	TRUE	Yes
R6P025	3	Sweden	114.04	81.27	32.77	G6DACGLO1;G6FESOVI1;G6PHAARU1;G6PHLPRA1;H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.69	20.84	8	TRUE	TRUE	Yes
R6P026	3	Sweden	379.86	954.44	-574.58	G6FESOVI1;H6ACHMIL1;L6TRIHYB1;L6TRIREP1	0.93	45.72	4	TRUE	TRUE	Yes
R6P027	3	Sweden	-108.71	70.65	-179.36	H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.90	53.63	4	TRUE	TRUE	Yes
R6P031	3	Sweden	98.39	60.11	38.28	H6LEUVUL1;H6RANACR1;L6TRIHYB1;L6TRIREP1	0.38	1.41	4	TRUE	TRUE	Yes
R6P037	3	Sweden	75.06	456.55	-381.49	G6FESOVI1;H6ACHMIL1;L6TRIHYB1;L6TRIREP1	0.91	51.77	4	TRUE	TRUE	Yes
R6P038	3	Sweden	-19.54	-11.44	-8.09	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1	0.23	1.46	4	FALSE	TRUE	No
R6P043	3	Sweden	247.40	193.77	53.63	G6PHLPRA1;H6RANACR1;H6RUMACE1;L6TRIPRA1	0.90	53.96	4	TRUE	TRUE	Yes
R6P045	3	Sweden	-47.23	-33.06	-14.17	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1;L6LOTCOR1;L6TRIHYB1;L6TRIPRA1;L6TRIREP1	0.12	1.41	8	TRUE	TRUE	Yes
R6P056	3	Sweden	787.00	656.44	130.56	G6PHLPRA1;H6RANACR1;H6RUMACE1;L6TRIPRA1	0.99	95.82	4	TRUE	TRUE	Yes
R6P062	3	Sweden	414.71	300.47	114.24	G6PHAARU1;G6PHLPRA1;L6LOTCOR1;L6TRIPRA1	0.99	82.01	4	TRUE	TRUE	Yes
R6P066	3	Sweden	136.17	188.49	-52.32	G6DACGLO1;G6FESOVI1;H6ACHMIL1;H6RUMACE1;L6LOTCOR1;L6TRIHYB1;L6TRIPRA1;L6TRIREP1	0.72	20.29	8	TRUE	TRUE	Yes
R6P072	3	Sweden	122.21	77.26	44.95	G6PHAARU1;G6PHLPRA1;L6LOTCOR1;L6TRIPRA1	0.92	49.10	4	TRUE	TRUE	Yes
S7P005	3	Sheffield	430.94	337.76	93.18	G7ALOPRA1;G7FESOVI1;H7CENNIG1;H7GALVER1;H7LEOHIS1;H7PLALAN1;L7LOTCOR1;L7TRIREP1	0.21	1.22	8	TRUE	TRUE	Yes
S7P009	3	Sheffield	277.41	265.09	12.32	G7FESOVI1;H7GALVER1;H7PLALAN1;L7LOTCOR1	0.40	1.59	4	TRUE	TRUE	Yes
S7P011	3	Sheffield	345.54	236.99	108.54	G7AGRCAP1;H7GALVER1;H7LEOHIS1;L7LOTCOR1	0.52	2.54	4	TRUE	TRUE	Yes
S7P015	3	Sheffield	119.28	154.82	-35.55	G7ANTODO1;H7CENNIG1;H7ORIVUL1;L7TRIREP1	0.34	1.24	4	TRUE	TRUE	Yes
S7P019	3	Sheffield	429.86	405.97	23.88	G7ALOPRA1;G7ANTODO1;H7CENNIG1;H7ORIVUL1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.23	1.27	8	TRUE	TRUE	Yes
S7P022	3	Sheffield	433.74	397.23	36.51	G7AGRCAP1;G7FESOVI1;H7GALVER1;H7LEOHIS1;H7ORIVUL1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.26	1.50	8	TRUE	TRUE	Yes
S7P025	3	Sheffield	231.05	105.69	125.36	G7ALOPRA1;H7PLALAN1;H7SCACOL1;L7TRIREP1	0.36	1.60	4	TRUE	FALSE	Yes
S7P026	3	Sheffield	374.78	283.02	91.76	G7AGRCAP1;G7ANTODO1;H7GALVER1;H7LEOHIS1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.20	1.19	8	TRUE	TRUE	Yes
S7P028	3	Sheffield	328.78	263.42	65.36	G7AGRCAP1;G7ANTODO1;H7GALVER1;H7LEOHIS1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.19	1.15	8	TRUE	TRUE	Yes
S7P031	3	Sheffield	156.78	202.12	-45.34	G7ANTODO1;H7CENNIG1;H7ORIVUL1;L7TRIREP1	0.39	1.46	4	TRUE	TRUE	Yes
S7P036	3	Sheffield	213.74	139.15	74.59	G7AGRCAP1;H7GALVER1;H7LEOHIS1;L7LOTCOR1	0.37	1.53	4	TRUE	TRUE	Yes
S7P037	3	Sheffield	443.41	351.15	92.26	G7FESOVI1;H7GALVER1;H7PLALAN1;L7LOTCOR1	0.43	1.54	4	TRUE	TRUE	Yes

S7P040	3	Sheffield	509.74	487.64	22.10	G7AGRCAP1;G7FESOVI1;H7GALVER1;H7LEOHIS1;H7ORIVUL1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.29	1.54	8	TRUE	TRUE	Yes
S7P042	3	Sheffield	346.25	235.64	110.61	G7ALOPRA1;H7PLALAN1;H7SCACOL1;L7TRIREP1	0.40	1.59	4	TRUE	FALSE	Yes
S7P044	3	Sheffield	389.54	265.83	123.71	G7ALOPRA1;G7FESOVI1;H7CENNIG1;H7GALVER1;H7LEOHIS1;H7PLALAN1;L7LOTCOR1;L7TRIREP1	0.20	1.23	8	TRUE	TRUE	Yes
S7P051	3	Sheffield	529.56	506.00	23.56	G7ALOPRA1;G7ANTODO1;H7CENNIG1;H7ORIVUL1;H7PLALAN1;H7SCACOL1;L7LOTCOR1;L7TRIREP1	0.25	1.31	8	TRUE	TRUE	Yes
S8P001	3	Silwood	285.51	342.21	-56.70	G8AGRCAP1;G8HOLLAN1;H8PLALAN1;H8RUMACE1	0.93	46.72	4	TRUE	TRUE	No
S8P008	3	Silwood	28.64	163.05	-134.41	G8AGRCAP1;H8ACHMIL1;H8PLALAN1;L8LOTCOR1	0.45	1.88	4	TRUE	TRUE	Yes
S8P011	3	Silwood	220.66	131.67	88.99	G8ARRELA1;G8FESRUB1;L8LOTCOR1;L8TRIREP1	0.91	51.44	4	TRUE	TRUE	Yes
S8P013	3	Silwood	208.71	340.58	-131.86	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1	0.90	53.47	4	FALSE	TRUE	No
S8P015	3	Silwood	272.05	94.81	177.24	G8ARRELA1;H8HYPRAD1;H8RUMACE1;L8TRIREP1	0.90	52.75	4	TRUE	TRUE	Yes
S8P031	3	Silwood	337.14	306.78	30.36	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8HYPRAD1;H8PLALAN1;H8RUMACE1	0.70	20.74	8	TRUE	TRUE	No
S8P033	3	Silwood	681.42	744.35	-62.94	G8AGRCAP1;G8FESRUB1;G8HOLLAN1;H8HYPRAD1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.82	21.68	8	TRUE	TRUE	Yes
S8P040	3	Silwood	526.09	338.98	187.11	G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.70	20.57	8	TRUE	TRUE	Yes
S8P046	3	Silwood	-180.09	-68.71	-111.38	G8AGRCAP1;G8HOLLAN1;H8PLALAN1;H8RUMACE1	0.22	1.22	4	TRUE	TRUE	No
S8P047	3	Silwood	232.82	200.84	31.98	G8AGRCAP1;G8FESRUB1;G8HOLLAN1;H8HYPRAD1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.22	1.29	8	TRUE	TRUE	Yes
S8P050	3	Silwood	312.14	457.84	-145.69	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8HYPRAD1;H8PLALAN1;H8RUMACE1	0.44	2.43	8	TRUE	TRUE	No
S8P060	3	Silwood	234.89	176.30	58.59	G8ARRELA1;G8FESRUB1;G8HOLLAN1;H8ACHMIL1;H8PLALAN1;H8RUMACE1;L8LOTCOR1;L8TRIREP1	0.32	2.00	8	TRUE	TRUE	Yes
S8P063	3	Silwood	130.31	249.89	-119.58	G8AGRCAP1;G8ARRELA1;G8FESRUB1;G8HOLLAN1	0.90	53.92	4	FALSE	TRUE	No
S8P071	3	Silwood	120.56	39.73	80.83	G8ARRELA1;G8FESRUB1;L8LOTCOR1;L8TRIREP1	0.90	53.84	4	TRUE	TRUE	Yes
S8P073	3	Silwood	340.34	300.89	39.44	G8AGRCAP1;H8ACHMIL1;H8PLALAN1;L8LOTCOR1	0.48	1.39	4	TRUE	TRUE	Yes
S8P078	3	Silwood	193.55	29.47	164.08	G8ARRELA1;H8HYPRAD1;H8RUMACE1;L8TRIREP1	0.90	53.92	4	TRUE	TRUE	Yes

* We maintain the codes for plant species that the authors used in the BIODEPTH experiment. For more information kindly consult Ecological Archives M075-001-S1.

Appendix 5: Community data from the controlled experiment

ID	Plants in the Community	Net Effect	Complementarity Effect	Selection Effect	Niche differences	Relative Fitness Differences	Expected Biomass
1	Phleum;Plantago;Prunela;Rumex	180.49	30.68	149.82	0.34	1.73	1132.31
2	Phleum;Plantago;Prunela;Rumex	125.79	20.63	105.17	0.29	1.35	1132.31
3	Agrostis;Plantago;Prunela;Rumex	-212.03	-275.09	63.06	0.20	1.23	1022.93
4	Agrostis;Plantago;Prunela;Rumex	-175.43	-208.88	33.45	0.22	1.29	1022.93
5	Cynosyrus;Plantago;Prunela;Rumex	-94.74	-177.95	83.21	0.25	1.45	1036.34
6	Cynosyrus;Plantago;Prunela;Rumex	-86.34	-188.40	102.06	0.29	1.68	1036.34
7	Plantago;Prunela;Rumex;Stellaria	1017.38	489.99	527.39	0.90	53.46	839.32
8	Plantago;Prunela;Rumex;Stellaria	118.58	-140.77	259.35	0.27	1.56	839.32
9	Fragaria;Plantago;Prunela;Rumex	81.57	-113.07	194.64	0.28	1.59	871.63
10	Fragaria;Plantago;Prunela;Rumex	89.37	-154.25	243.62	0.33	1.95	871.63
11	Agrostis;Phleum;Plantago;Rumex	273.67	14.17	259.50	0.45	2.59	1042.83
12	Agrostis;Phleum;Plantago;Rumex	317.57	112.77	204.80	0.33	1.47	1042.83
13	Cynosyrus;Phleum;Plantago;Rumex	722.07	422.80	299.27	0.91	51.26	1056.23
14	Cynosyrus;Phleum;Plantago;Rumex	219.47	77.78	141.69	0.29	1.29	1056.23
15	Phleum;Plantago;Rumex;Stellaria	203.09	-136.50	339.59	0.24	1.33	859.21
16	Phleum;Plantago;Rumex;Stellaria	127.49	-190.74	318.23	0.23	1.40	859.21
17	Fragaria;Phleum;Plantago;Rumex	419.18	43.03	376.15	0.33	1.59	891.52
18	Fragaria;Phleum;Plantago;Rumex	611.98	209.39	402.59	0.38	1.64	891.52
19	Agrostis;Cynosyrus;Plantago;Rumex	91.34	-56.86	148.20	0.30	1.62	946.86
20	Agrostis;Cynosyrus;Plantago;Rumex	1224.64	851.44	373.21	0.91	52.11	946.86
21	Agrostis;Plantago;Rumex;Stellaria	105.46	40.92	64.54	0.30	1.36	749.84
22	Agrostis;Plantago;Rumex;Stellaria	1675.16	891.61	783.55	0.91	50.06	749.84
23	Agrostis;Fragaria;Plantago;Rumex	178.45	153.73	24.72	0.30	1.11	782.15
24	Agrostis;Fragaria;Plantago;Rumex	-43.05	-137.68	94.63	0.22	1.23	782.15
25	Cynosyrus;Plantago;Rumex;Stellaria	-272.64	-373.95	101.31	0.13	1.13	763.24
26	Cynosyrus;Plantago;Rumex;Stellaria	332.26	-47.40	379.66	0.43	2.60	763.24
27	Cynosyrus;Fragaria;Plantago;Rumex	711.45	240.74	470.70	0.90	53.43	795.55
28	Cynosyrus;Fragaria;Plantago;Rumex	918.05	457.83	460.22	0.91	50.69	795.55

29	Fragaria;Plantago;Rumex;Stellaria	523.37	92.78	430.59	0.37	1.77	598.53
30	Fragaria;Plantago;Rumex;Stellaria	313.07	47.49	265.58	0.30	1.31	598.53
31	Agrostis;Phleum;Plantago;Prunela	-13.09	-135.30	122.21	0.35	2.02	1161.99
32	Agrostis;Phleum;Plantago;Prunela	2396.41	2141.18	255.24	0.94	42.55	1161.99
33	Cynosyrus;Phleum;Plantago;Prunela	373.81	239.07	134.74	0.44	2.18	1175.39
34	Cynosyrus;Phleum;Plantago;Prunela	33.71	-73.91	107.62	0.33	1.76	1175.39
35	Phleum;Plantago;Prunela;Stellaria	234.73	-31.80	266.53	0.27	1.32	978.37
36	Phleum;Plantago;Prunela;Stellaria	159.03	-87.85	246.88	0.26	1.37	978.37
37	Fragaria;Phleum;Plantago;Prunela	57.72	-68.83	126.54	0.33	1.83	1010.68
38	Fragaria;Phleum;Plantago;Prunela	1163.42	858.00	305.42	0.92	48.58	1010.68
39	Agrostis;Cynosyrus;Plantago;Prunela	186.08	87.33	98.75	0.36	1.76	1066.02
40	Agrostis;Cynosyrus;Plantago;Prunela	-101.62	-169.30	67.68	0.30	1.72	1066.02
41	Agrostis;Plantago;Prunela;Stellaria	302.00	3.85	298.15	0.32	1.61	869.00
42	Agrostis;Plantago;Prunela;Stellaria	413.40	76.95	336.46	0.40	2.03	869.00
43	Agrostis;Fragaria;Plantago;Prunela	449.19	121.96	327.23	0.90	53.55	901.31
44	Agrostis;Fragaria;Plantago;Prunela	-241.31	-406.83	165.52	0.15	1.18	901.31
45	Cynosyrus;Plantago;Prunela;Stellaria	134.70	-135.37	270.07	0.28	1.56	882.40
46	Cynosyrus;Plantago;Prunela;Stellaria	351.20	54.19	297.01	0.40	2.09	882.40
47	Cynosyrus;Fragaria;Plantago;Prunela	1627.09	1057.35	569.74	0.90	53.27	914.71
48	Cynosyrus;Fragaria;Plantago;Prunela	227.49	-5.70	233.19	0.37	1.97	914.71
49	Fragaria;Plantago;Prunela;Stellaria	614.81	305.82	308.99	0.66	4.76	717.69
50	Fragaria;Plantago;Prunela;Stellaria	1129.81	471.21	658.60	0.91	52.07	717.69
51	Agrostis;Cynosyrus;Phleum;Plantago	-108.21	-253.38	145.17	0.22	1.32	1085.91
52	Agrostis;Cynosyrus;Phleum;Plantago	-15.41	-166.12	150.71	0.24	1.32	1085.91
53	Agrostis;Phleum;Plantago;Stellaria	245.01	-87.62	332.63	0.26	1.35	888.89
54	Agrostis;Phleum;Plantago;Stellaria	542.51	94.77	447.74	0.42	2.19	888.89
55	Agrostis;Fragaria;Phleum;Plantago	379.40	25.04	354.36	0.33	1.66	921.20
56	Agrostis;Fragaria;Phleum;Plantago	355.50	5.52	349.98	0.32	1.59	921.20
57	Cynosyrus;Phleum;Plantago;Stellaria	434.21	29.70	404.51	0.37	1.93	902.29
58	Cynosyrus;Phleum;Plantago;Stellaria	232.91	-77.41	310.31	0.26	1.35	902.29
59	Cynosyrus;Fragaria;Phleum;Plantago	88.00	-154.21	242.21	0.23	1.29	934.60
60	Cynosyrus;Fragaria;Phleum;Plantago	291.40	72.27	219.13	0.35	1.72	934.60
61	Fragaria;Phleum;Plantago;Stellaria	120.12	-183.21	303.33	0.20	1.21	737.58

62	Fragaria;Phleum;Plantago;Stellaria	811.32	173.45	637.86	0.47	2.39	737.58
63	Agrostis;Cynosyrus;Plantago;Stellaria	969.08	479.62	489.46	0.90	52.58	792.92
64	Agrostis;Cynosyrus;Plantago;Stellaria	396.58	43.95	352.63	0.37	1.91	792.92
65	Agrostis;Cynosyrus;Fragaria;Plantago	763.07	426.91	336.16	0.91	51.51	825.23
66	Agrostis;Cynosyrus;Fragaria;Plantago	238.97	-1.55	240.52	0.35	1.84	825.23
67	Agrostis;Fragaria;Plantago;Stellaria	723.89	208.25	515.64	0.91	51.93	628.21
68	Agrostis;Fragaria;Plantago;Stellaria	1490.19	533.09	957.10	0.90	53.26	628.21
69	Cynosyrus;Fragaria;Plantago;Stellaria	490.39	129.75	360.63	0.36	1.61	641.61
70	Cynosyrus;Fragaria;Plantago;Stellaria	641.49	84.92	556.57	0.90	53.05	641.61
71	Agrostis;Phleum;Prunela;Rumex	-370.44	-467.27	96.83	0.16	1.25	1057.04
72	Agrostis;Phleum;Prunela;Rumex	461.26	156.59	304.67	0.90	53.90	1057.04
73	Cynosyrus;Phleum;Prunela;Rumex	257.85	112.07	145.78	0.36	1.77	1070.45
74	Cynosyrus;Phleum;Prunela;Rumex	-314.35	-345.31	30.96	0.19	1.23	1070.45
75	Phleum;Prunela;Rumex;Stellaria	138.57	-123.41	261.98	0.26	1.43	873.43
76	Phleum;Prunela;Rumex;Stellaria	269.47	-72.43	341.90	0.31	1.69	873.43
77	Fragaria;Phleum;Prunela;Rumex	2122.16	1210.37	911.79	0.90	53.03	905.74
78	Fragaria;Phleum;Prunela;Rumex	105.16	-49.36	154.52	0.26	1.28	905.74
79	Agrostis;Cynosyrus;Prunela;Rumex	203.33	182.93	20.40	0.30	1.12	961.07
80	Agrostis;Cynosyrus;Prunela;Rumex	72.83	-49.88	122.70	0.27	1.35	961.07
81	Agrostis;Prunela;Rumex;Stellaria	43.95	-209.86	253.81	0.21	1.29	764.05
82	Agrostis;Prunela;Rumex;Stellaria	-220.35	-342.65	122.30	0.15	1.18	764.05
83	Agrostis;Fragaria;Prunela;Rumex	3.93	-77.39	81.33	0.26	1.35	796.37
84	Agrostis;Fragaria;Prunela;Rumex	7.83	-104.47	112.31	0.24	1.25	796.37
85	Cynosyrus;Prunela;Rumex;Stellaria	-210.26	-411.55	201.29	0.14	1.24	777.46
86	Cynosyrus;Prunela;Rumex;Stellaria	-41.66	-60.51	18.85	0.37	2.12	777.46
87	Cynosyrus;Fragaria;Prunela;Rumex	-14.97	33.72	-48.69	0.27	1.19	809.77
88	Cynosyrus;Fragaria;Prunela;Rumex	-223.67	-325.52	101.86	0.16	1.20	809.77
89	Fragaria;Prunela;Rumex;Stellaria	-247.95	-308.79	60.84	0.13	1.15	612.75
90	Fragaria;Prunela;Rumex;Stellaria	144.75	-142.18	286.93	0.21	1.25	612.75
91	Agrostis;Cynosyrus;Phleum;Rumex	-283.56	-302.25	18.69	0.18	1.16	980.96
92	Agrostis;Cynosyrus;Phleum;Rumex	62.04	-136.48	198.52	0.28	1.55	980.96
93	Agrostis;Phleum;Rumex;Stellaria	364.05	7.83	356.23	0.31	1.56	783.95
94	Agrostis;Phleum;Rumex;Stellaria	280.25	-47.74	328.00	0.32	1.72	783.95

95	Agrostis;Fragaria;Phleum;Rumex	570.14	80.13	490.01	0.90	53.20	816.26
96	Agrostis;Fragaria;Phleum;Rumex	189.24	-95.03	284.27	0.28	1.57	816.26
97	Cynosyrus;Phleum;Rumex;Stellaria	195.45	-119.37	314.82	0.26	1.47	797.35
98	Cynosyrus;Phleum;Rumex;Stellaria	551.05	27.65	523.40	0.67	6.59	797.35
99	Cynosyrus;Fragaria;Phleum;Rumex	379.94	-35.03	414.97	0.39	2.20	829.66
100	Cynosyrus;Fragaria;Phleum;Rumex	296.44	380.09	-83.65	0.90	53.75	829.66
101	Fragaria;Phleum;Rumex;Stellaria	-530.31	-541.22	10.91	0.04	1.05	632.64
102	Fragaria;Phleum;Rumex;Stellaria	741.46	33.48	707.98	0.90	53.80	632.64
103	Agrostis;Cynosyrus;Rumex;Stellaria	-83.08	-125.91	42.84	0.25	1.42	687.98
104	Agrostis;Cynosyrus;Rumex;Stellaria	735.42	529.93	205.50	0.91	50.13	687.98
105	Agrostis;Cynosyrus;Fragaria;Rumex	-43.79	1.77	-45.55	0.28	1.35	720.29
106	Agrostis;Cynosyrus;Fragaria;Rumex	-30.49	33.63	-64.11	0.29	1.36	720.29
107	Agrostis;Fragaria;Rumex;Stellaria	295.73	139.07	156.67	0.57	3.44	523.27
108	Agrostis;Fragaria;Rumex;Stellaria	379.63	200.48	179.15	0.91	50.85	523.27
109	Cynosyrus;Fragaria;Rumex;Stellaria	54.73	-57.05	111.78	0.23	1.13	536.67
110	Cynosyrus;Fragaria;Rumex;Stellaria	881.43	700.54	180.88	0.83	6.42	536.67
111	Agrostis;Cynosyrus;Phleum;Prunela	-2.23	-174.44	172.21	0.30	1.74	1100.13
112	Agrostis;Cynosyrus;Phleum;Prunela	-192.93	-336.43	143.51	0.22	1.43	1100.13
113	Agrostis;Phleum;Prunela;Stellaria	176.79	-95.32	272.12	0.28	1.52	903.11
114	Agrostis;Phleum;Prunela;Stellaria	454.99	76.84	378.15	0.38	1.96	903.11
115	Agrostis;Fragaria;Phleum;Prunela	822.08	344.04	478.04	0.91	51.83	935.42
116	Agrostis;Fragaria;Phleum;Prunela	795.08	332.47	462.61	0.90	52.61	935.42
117	Cynosyrus;Phleum;Prunela;Stellaria	480.79	163.20	317.59	0.37	1.70	916.51
118	Cynosyrus;Phleum;Prunela;Stellaria	786.99	362.32	424.67	0.91	52.32	916.51
119	Cynosyrus;Fragaria;Phleum;Prunela	1195.48	638.31	557.17	0.90	52.56	948.82
120	Cynosyrus;Fragaria;Phleum;Prunela	216.28	-25.47	241.75	0.29	1.44	948.82
121	Fragaria;Phleum;Prunela;Stellaria	238.70	-119.65	358.35	0.27	1.57	751.80
122	Fragaria;Phleum;Prunela;Stellaria	320.50	-52.42	372.92	0.28	1.46	751.80
123	Agrostis;Cynosyrus;Prunela;Stellaria	229.96	-55.82	285.79	0.27	1.36	807.14
124	Agrostis;Cynosyrus;Prunela;Stellaria	135.16	-101.74	236.91	0.25	1.34	807.14
125	Agrostis;Cynosyrus;Fragaria;Prunela	-13.15	-111.15	98.01	0.25	1.35	839.45
126	Agrostis;Cynosyrus;Fragaria;Prunela	349.15	95.04	254.12	0.34	1.58	839.45
127	Agrostis;Fragaria;Prunela;Stellaria	153.57	-83.53	237.10	0.24	1.27	642.43

128	Agrostis;Fragaria;Prunela;Stellaria	-45.33	-78.67	33.34	0.24	1.28	642.43
129	Cynosyrus;Fragaria;Prunela;Stellaria	419.47	143.07	276.39	0.37	1.64	655.83
130	Cynosyrus;Fragaria;Prunela;Stellaria	328.27	94.54	233.73	0.36	1.62	655.83
131	Agrostis;Cynosyrus;Phleum;Stellaria	5.87	-252.18	258.06	0.21	1.36	827.03
132	Agrostis;Cynosyrus;Phleum;Stellaria	347.97	-67.16	415.13	0.36	2.01	827.03
133	Agrostis;Cynosyrus;Fragaria;Phleum	684.26	205.59	478.67	0.90	52.41	859.34
134	Agrostis;Cynosyrus;Fragaria;Phleum	408.36	10.47	397.89	0.46	2.74	859.34
135	Agrostis;Fragaria;Phleum;Stellaria	824.68	165.17	659.51	0.90	52.43	662.32
136	Agrostis;Fragaria;Phleum;Stellaria	376.88	-112.75	489.64	0.32	1.87	662.32
137	Agrostis;Fragaria;Phleum;Stellaria	1035.48	197.43	838.05	0.90	53.71	662.32
138	Agrostis;Fragaria;Phleum;Stellaria	734.38	94.04	640.34	0.90	52.95	662.32
139	Agrostis;Cynosyrus;Fragaria;Stellaria	-566.35	-566.35	0.00	0.00	1.00	566.35
140	Agrostis;Cynosyrus;Fragaria;Stellaria	31.45	-160.04	191.49	0.19	1.19	566.35