

Supplementary Table S2. Relative differences in plant height, leaf area, stem diameter, number of leaves/tillers, and shoot dry matter of quinoa genotypes 1331, 1324, and 1303 under competition with ryegrass. UFFS, Erechim, RS, Brazil.

Genotype and species	Plant proportion (quinoa : ryegrass)		
	75:25	50:50	25:75
Plant height			
Quinoa 1331	-0.01 (± 0.02)	0.02 (± 0.01)	-0.03 (± 0.01)
Ryegrass	-0.01 (± 0.001)*	0.02 (± 0.01)*	-0.001 (± 0.02)
<i>Total</i>	<i>0.98 (± 0.02)</i>	<i>1.04 (± 0.01)</i>	<i>0.97 (± 0.01)</i>
Quinoa 1324	0.15 (± 0.02)*	0.07 (± 0.01)*	0.02 (± 0.01)*
Ryegrass	-0.04 (± 0.02)	-0.03 (± 0.01)*	0.01 (± 0.01)
<i>Total</i>	<i>1.11 (± 0.04)</i>	<i>1.03 (± 0.01)</i>	<i>1.03 (± 0.01)</i>
Quinoa 1303	-0.03 (± 0.02)	0.01 (± 0.01)	0.01 (± 0.001)
Ryegrass	-0.01 (± 0.001)*	0.02 (± 0.001)*	-0.01 (± 0.02)
<i>Total</i>	<i>0.96 (± 0.01)</i>	<i>1.03 (± 0.01)</i>	<i>1.00 (± 0.02)</i>
Stem diameter			
Quinoa 1331	0.16 (± 0.01)*	0.01 (± 0.001)*	0.03 (± 0.01)
Ryegrass	-0.03 (± 0.001)*	-0.06 (± 0.03)	-0.08 (± 0.04)
<i>Total</i>	<i>1.13 (± 0.01)*</i>	<i>0.95 (± 0.03)</i>	<i>0.94 (± 0.04)</i>
Quinoa 1324	0.05 (± 0.01)*	0.06 (± 0.02)*	0.02 (± 0.001)*
Ryegrass	-0.03 (± 0.01)*	0.02 (± 0.02)	-0.05 (± 0.02)
<i>Total</i>	<i>1.02 (± 0.01)</i>	<i>1.08 (± 0.04)</i>	<i>0.96 (± 0.02)</i>
Quinoa 1303	-0.01 (± 0.02)	0.07 (± 0.01)*	0.03 (± 0.001)*
Ryegrass	0.02 (± 0.01)*	0.07 (± 0.01)*	0.04 (± 0.04)
<i>Total</i>	<i>1.01 (± 0.02)</i>	<i>1.14 (± 0.01)*</i>	<i>1.07 (± 0.05)</i>
Number of leaves or tillers			
Quinoa 1331	0.15 (± 0.001)	0.02 (± 0.02)	-0.05 (± 0.01)*
Ryegrass	-0.03 (± 0.01)*	-0.14 (± 0.04)*	-0.09 (± 0.03)*
<i>Total</i>	<i>1.12 (± 0.001)*</i>	<i>0.88 (± 0.03)*</i>	<i>0.87 (± 0.03)*</i>
Quinoa 1324	-0.12 (± 0.02)*	0.02 (± 0.02)	-0.03 (± 0.001)*
Ryegrass	-0.12 (± 0.001)*	-0.07 (± 0.02)*	-0.02 (± 0.04)
<i>Total</i>	<i>0.76 (± 0.02)*</i>	<i>0.95 (± 0.04)</i>	<i>0.95 (± 0.03)</i>
Quinoa 1303	0.03 (± 0.02)	-0.01 (± 0.01)	0.02 (± 0.01)
Ryegrass	-0.02 (± 0.01)	-0.08 (± 0.01)*	0.03 (± 0.03)
<i>Total</i>	<i>1.02 (± 0.02)</i>	<i>0.94 (± 0.01)*</i>	<i>1.02 (± 0.03)</i>
Chlorophyll index			
Quinoa 1331	0.10 (± 0.02)*	0.05 (± 0.01)*	0.02 (± 0.001)*
Ryegrass	0.01 (± 0.001)	-0.01 (± 0.01)	-0.04 (± 0.02)
<i>Total</i>	<i>1.11 (± 0.02)*</i>	<i>1.04 (± 0.01)*</i>	<i>0.98 (± 0.02)</i>
Quinoa 1324	0.03 (± 0.001)*	-0.01 (± 0.001)*	-0.01 (± 0.001)*
Ryegrass	-0.02 (± 0.001)*	-0.001 (± 0.001)	0.02 (± 0.03)
<i>Total</i>	<i>1.01 (± 0.001)</i>	<i>0.99 (± 0.001)*</i>	<i>1.01 (± 0.03)</i>
Quinoa 1303	-0.02 (± 0.03)	-0.02 (± 0.01)*	-0.03 (± 0.01)*
Ryegrass	-0.001 (± 0.001)	-0.02 (± 0.02)	-0.09 (± 0.01)*
<i>Total</i>	<i>0.98 (± 0.03)</i>	<i>0.88 (± 0.02)*</i>	<i>0.95 (± 0.02)*</i>
Leaf area			
Quinoa 1331	0.23 (± 0.06)*	0.17 (± 0.04)*	-0.04 (± 0.02)
Ryegrass	-0.19 (± 0.001)*	-0.26 (± 0.03)*	-0.27 (± 0.03)*
<i>Total</i>	<i>1.05 (± 0.06)</i>	<i>0.91 (± 0.05)</i>	<i>0.69 (± 0.03)*</i>
Quinoa 1324	-0.07 (± 0.05)	0.01 (± 0.02)	-0.001 (± 0.01)
Ryegrass	-0.18 (± 0.001)*	-0.20 (± 0.001)*	0.28 (± 0.01)*
<i>Total</i>	<i>0.75 (± 0.05)*</i>	<i>0.81 (± 0.02)*</i>	<i>1.28 (± 0.01)*</i>
Quinoa 1303	0.16 (± 0.03)*	0.11 (± 0.03)*	0.15 (± 0.01)*
Ryegrass	-0.18 (± 0.001)*	-0.24 (± 0.02)*	-0.14 (± 0.02)*
<i>Total</i>	<i>0.98 (± 0.03)</i>	<i>0.87 (± 0.04)*</i>	<i>1.01 (± 0.03)</i>
Aboveground dry mass			
Quinoa 1331	-0.12 (± 0.01)*	-0.21 (± 0.01)*	-0.18 (± 0.01)*
Ryegrass	-0.20 (± 0.001)*	-0.28 (± 0.01)*	-0.35 (± 0.01)*
<i>Total</i>	<i>0.69 (± 0.01)*</i>	<i>0.51 (± 0.01)*</i>	<i>0.48 (± 0.01)*</i>
Quinoa 1324	0.06 (± 0.03)	-0.12 (± 0.02)*	-0.14 (± 0.001)*
Ryegrass	-0.22 (± 0.001)*	-0.29 (± 0.001)*	-0.21 (± 0.01)*
<i>Total</i>	<i>0.84 (± 0.03)*</i>	<i>0.59 (± 0.02)*</i>	<i>0.65 (± 0.02)*</i>
Quinoa 1303	0.01 (± 0.01)	-0.17 (± 0.01)*	-0.15 (± 0.001)*
Ryegrass	-0.20 (± 0.01)*	-0.31 (± 0.01)*	-0.32 (± 0.01)*
<i>Total</i>	<i>0.81 (± 0.01)*</i>	<i>0.52 (± 0.01)*</i>	<i>0.53 (± 0.01)*</i>

* Significant difference by the T-test ($p \leq 0.05$). Values into brackets are the standard error of the mean.