

Appendix I – Cited in Chapter 2.

Appendix I.I (Experiment 1)

I.I.I. Analysis of variance aerial and root evaluation of *Castanea sativa* under four different conditions: control=non-infested (NI)=C1; control together with (plus) *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested (I) =C3 and infested together with (plus) P. p=C4.

Least significant difference (LSD) Multiple comparisons

Variável dependente	(I) Conditions	(J) Conditions	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%		
						Limite inferior	Limite superior	
Aerial evaluation	C1	Castanea sativa control	-,2167	,5470	,696	-1,358	,924	
		C. sativa plus Phlomis control	-1,6000*	,5470	,008	-2,741	-,459	
		C. sativa infested plus Phlomis	-1,4000*	,5470	,019	-2,541	-,259	
	C2	C. sativa plus Phlomis control	,2167	,5470	,696	-,924	1,358	
		C. sativa infested	-1,3833*	,5470	,020	-2,524	-,242	
		C. sativa infested plus Phlomis	-1,1833*	,5470	,043	-2,324	-,042	
	C3	C. sativa infested	1,6000*	,5470	,008	,459	2,741	
		Castanea sativa control	1,3833*	,5470	,020	,242	2,524	
		C. sativa plus Phlomis control	,2000	,5470	,718	-,941	1,341	
	C4	C. sativa infested plus Phlomis	1,4000*	,5470	,019	,259	2,541	
		Castanea sativa control	1,1833*	,5470	,043	,042	2,324	
		C. sativa plus Phlomis control	-,2000	,5470	,718	-1,341	,941	
	Radicular evaluation	Castanea sativa control	C. sativa plus Phlomis control	-,1500	,5221	,777	-1,239	,939
			C. sativa infested	-2,1500*	,5221	,001	-3,239	-1,061
			C. sativa infested plus Phlomis	-2,2833*	,5221	,000	-3,373	-1,194
		C. sativa plus Phlomis control	Castanea sativa control	,1500	,5221	,777	-,939	1,239
C. sativa infested			-2,0000*	,5221	,001	-3,089	-,911	
C. sativa infested plus Phlomis			-2,1333*	,5221	,001	-3,223	-1,044	
C. sativa infested		Castanea sativa control	2,1500*	,5221	,001	1,061	3,239	
		C. sativa plus Phlomis control	2,0000*	,5221	,001	,911	3,089	
		C. sativa infested plus Phlomis	-,1333	,5221	,801	-1,223	,956	
C. sativa infested plus Phlomis		Castanea sativa control	2,2833*	,5221	,000	1,194	3,373	
		C. sativa plus Phlomis control	2,1333*	,5221	,001	1,044	3,223	
		C. sativa infested	-,1333	,5221	,801	-,956	1,223	

*. A diferença média é significativa no nível 0.05.

Notes (translation):

DMS= **Least significant difference (LSD)**

Comparações múltiplas= **Multiple comparisons**

Variável dependente= **Dependent variable**

Diferença média= **Mean difference**

Erro padrão= **Standard Error**

Intervalo de confiança de 95%= **95% Confidence Interval**

Limite inferior= **Lower Bound**

Limite superior= **Upper Bound**

A diferença média é significativa no nível 0.05=**The mean difference is significant at the 0.05 level**

Descritivos= **Descriptives**

Estatística= **Statistics**

Média= **Mean**

Desvio padrão= **Standard deviation**

Avaliação aérea = **Aerial evaluation**

Avaliação radicular = **Root evaluation**

Peso da parte aérea/raiz principal/ raiz secundária/ raiz total= **Aerial weight/main root/secondary roots/total root**

% recup. P.C. raízes/solo= **Percentage of *Phytophthora cinnamomi* recovery from roots/soil**

Correlação= **Correlation**

I.I.II. Comparison of means of aerial evaluation of *Castanea sativa* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Condições		Estatística		Erro Padrão			
Aerial evaluation	Castanea sativa control	Média		1,633	,2906		
		95% Intervalo de Confiança para Média	Limite inferior	,886			
			Limite superior	2,380			
		5% da média aparada		1,620			
		Mediana		1,500			
		Variância		,507			
		Desvio Padrão		,7118			
		Mínimo		1,0			
		Máximo		2,5			
		Intervalo		1,5			
		Intervalo interquartil		1,3			
		Assimetria		,195	,845		
		Curtose		-2,608	1,741		
		C. sativa plus Phlomis control	C. sativa plus Phlomis control	Média		1,850	,3481
				95% Intervalo de Confiança para Média	Limite inferior	,955	
					Limite superior	2,745	
				5% da média aparada		1,806	
Mediana				1,700			
Variância				,727			
Desvio Padrão				,8526			
Mínimo				1,0			
Máximo				3,5			
Intervalo				2,5			
Intervalo interquartil				2,0			
Assimetria				1,851	,845		
Curtose				4,280	1,741		
C. sativa infested	C. sativa infested			Média		3,232	,4649
				95% Intervalo de Confiança para Média	Limite inferior	1,987	
					Limite superior	4,480	
				5% da média aparada		3,276	
		Mediana		4,000			
		Variância		1,411			
		Desvio Padrão		1,1877			
		Mínimo		1,7			
		Máximo		4,0			
		Intervalo		2,3			
		Intervalo interquartil		2,3			
		Assimetria		-,968	,845		
		Curtose		-1,875	1,741		
		C. sativa infested plus Phlomis	C. sativa infested plus Phlomis	Média		3,033	,3972
				95% Intervalo de Confiança para Média	Limite inferior	2,012	
					Limite superior	4,054	
				5% da média aparada		3,037	
Mediana				3,100			
Variância				,947			
Desvio Padrão				,9730			
Mínimo				2,0			
Máximo				4,0			
Intervalo				2,0			
Intervalo interquartil				2,0			
Assimetria				-,083	,845		
Curtose				-2,887	1,741		

I.I.III. Comparison of means of root evaluation of *Castanea sativa* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Condições		Estatística		Erro Padrão			
Radicular evaluation	Castanea sativa control	Média		1,000	,2875		
		95% Intervalo de Confiança para Média	Limite inferior	,261			
			Limite superior	1,739			
		5% da média aparada		,983			
		Mediana		,750			
		Variância		,496			
		Desvio Padrão		,7043			
		Mínimo		,3			
		Máximo		2,0			
		Intervalo		1,7			
		Intervalo interquartil		1,3			
		Assimetria		,644	,845		
		Curtose		-1,683	1,741		
		C. sativa plus Phlomis control	C. sativa plus Phlomis control	Média		1,150	,3998
				95% Intervalo de Confiança para Média	Limite inferior	,122	
					Limite superior	2,178	
				5% da média aparada		1,083	
Mediana				,700			
Variância				,959			
Desvio Padrão				,9793			
Mínimo				,5			
Máximo				3,0			
Intervalo				2,5			
Intervalo interquartil				1,4			
Assimetria				1,803	,845		
Curtose				3,011	1,741		
C. sativa infested	C. sativa infested			Média		3,150	,4931
				95% Intervalo de Confiança para Média	Limite inferior	1,882	
					Limite superior	4,418	
				5% da média aparada		3,194	
		Mediana		3,850			
		Variância		1,459			
		Desvio Padrão		1,2079			
		Mínimo		1,5			
		Máximo		4,0			
		Intervalo		2,5			
		Intervalo interquartil		2,4			
		Assimetria		-,942	,845		
		Curtose		-1,814	1,741		
		C. sativa infested plus Phlomis	C. sativa infested plus Phlomis	Média		3,283	,2442
				95% Intervalo de Confiança para Média	Limite inferior	2,656	
					Limite superior	3,911	
				5% da média aparada		3,276	
Mediana				3,150			
Variância				,368			
Desvio Padrão				,5981			
Mínimo				2,7			
Máximo				4,0			
Intervalo				1,3			
Intervalo interquartil				1,3			
Assimetria				,444	,845		
Curtose				-2,061	1,741		

Correlations: Direction and Strength

<http://www.strath.ac.uk/aer/materials/4dataanalysisineducationalresearch/unit4/correlationsdirectionandstrength/>

A correlation shows whether two variables are related (or not), how strongly, and in what way.

Value of the Correlation Co-Efficient	Strength of the Correlation	Direction of the Correlation
1	Perfect	Variables can be correlated either positively or negatively. In order to indicate the direction of the correlation, we use a positive sign (+) in front of the correlation coefficient for positive correlations or a negative sign (-) for negative correlations.
0.8 - 0.9	Very Strong	
0.5 - 0.8	Strong	
0.3 - 0.5	Moderate	
0.1 - 0.3	Modest	
> 0.1	Weak	
0	Zero	

I.I.IV. Pearson's correlation between aerial and radicular (root) evaluation of *Castanea sativa*

Correlações

		Aerial evaluation	Radicular evaluation
Aerial evaluation	Correlação de Pearson	1	,883*
	Sig. (2 extremidades)		,000
	N	24	24
Radicular evaluation	Correlação de Pearson	,883*	1
	Sig. (2 extremidades)	,000	
	N	24	24

**. A correlação é significativa no nível 0,01 (2 extremidades).

I.I.V. Analysis of variance aerial and root evaluation of *Quercus canariensis* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Comparações múltiplas

DMS

Variável dependente	(I) Conditions	(J) Conditions	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
						Limite inferior	Limite superior
Aerial evaluation	Quercus canariensis control	Quercus canariensis control plus Phlomis	-,3667 ^a	,1278	,009	-,633	-,100
		Quercus canariensis infested	-,9667 ^a	,1278	,000	-1,233	-,700
		Quercus canariensis infested plus Phlomis	-1,1333 ^a	,1278	,000	-1,400	-,867
	Quercus canariensis control plus Phlomis	Quercus canariensis control	,3667 ^a	,1278	,009	,100	,633
		Quercus canariensis infested	-,6000 ^a	,1278	,000	-,867	-,333
		Quercus canariensis infested plus Phlomis	-,7667 ^a	,1278	,000	-1,033	-,500
	Quercus canariensis infested	Quercus canariensis control	,9667 ^a	,1278	,000	,700	1,233
		Quercus canariensis control plus Phlomis	,6000 ^a	,1278	,000	,333	,867
		Quercus canariensis infested plus Phlomis	-,1667	,1278	,207	-,433	,100
	Quercus canariensis infested plus Phlomis	Quercus canariensis control	1,1333 ^a	,1278	,000	,867	1,400
		Quercus canariensis control plus Phlomis	,7667 ^a	,1278	,000	,500	1,033
		Quercus canariensis infested	,1667	,1278	,207	-,100	,433
Radicular evaluation	Quercus canariensis control	Quercus canariensis control plus Phlomis	-,2833	,3192	,385	-,949	,382
		Quercus canariensis infested	-1,2167 ^a	,3192	,001	-1,882	-,551
		Quercus canariensis infested plus Phlomis	-,5500	,3192	,100	-1,216	,116
	Quercus canariensis control plus Phlomis	Quercus canariensis control	,2833	,3192	,385	-,382	,949
		Quercus canariensis infested	-,9333 ^a	,3192	,008	-1,599	-,268
		Quercus canariensis infested plus Phlomis	-,2667	,3192	,413	-,932	,399
	Quercus canariensis infested	Quercus canariensis control	1,2167 ^a	,3192	,001	,551	1,882
		Quercus canariensis control plus Phlomis	,9333 ^a	,3192	,008	,268	1,599
		Quercus canariensis infested plus Phlomis	,6667 ^a	,3192	,050	,001	1,332
	Quercus canariensis infested plus Phlomis	Quercus canariensis control	,5500	,3192	,100	-,116	1,216
		Quercus canariensis control plus Phlomis	,2667	,3192	,413	-,399	,932
		Quercus canariensis infested	-,6667 ^a	,3192	,050	-1,332	-,001

* A diferença média é significativa no nível 0,05.

I.I.VI. Comparison of means of aerial evaluation of *Quercus canariensis* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Descritivos			Estatística	Erro Padrão			
Aerial evaluation	Quercus canariensis control	Média	,767	,0803			
		95% Intervalo de Confiança para Média	Limite inferior Limite superior	,560 ,973			
		5% da média aparada		,769			
		Mediana		,700			
		Variância		,039			
		Desvio Padrão		,1966			
		Mínimo		,5			
		Máximo		1,0			
		Intervalo		,5			
		Intervalo interquartil		,4			
		Assimetria		,219	,845		
		Curtose		-1,079	1,741		
		Quercus canariensis control plus Phlomis		Média	1,133	,1174	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,832 1,435	
				5% da média aparada		1,137	
				Mediana		1,150	
				Variância		,083	
				Desvio Padrão		,2875	
				Mínimo		,7	
				Máximo		1,5	
Intervalo				,8			
Intervalo interquartil				,4			
Assimetria				-,348	,845		
Curtose				-,564	1,741		
Quercus canariensis infested				Média	1,733	,0919	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	1,497 1,970	
				5% da média aparada		1,731	
				Mediana		1,700	
				Variância		,051	
				Desvio Padrão		,2251	
				Mínimo		1,5	
				Máximo		2,0	
		Intervalo		,5			
		Intervalo interquartil		,5			
		Assimetria		,327	,845		
		Curtose		-1,875	1,741		
		Quercus canariensis infested plus Phlomis		Média	1,900	,0632	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	1,737 2,063	
				5% da média aparada		1,906	
				Mediana		2,000	
				Variância		,024	
				Desvio Padrão		,1549	
				Mínimo		1,7	
				Máximo		2,0	
Intervalo				,3			
Intervalo interquartil				,3			
Assimetria				-,968	,845		
Curtose				-1,875	1,741		

I.I.VII. Comparison of means of root evaluation of *Quercus canariensis* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Descritivos			Estatística	Erro Padrão			
Radicular evaluation	Quercus canariensis control	Média	400	,0447			
		95% Intervalo de Confiança para Média	Limite inferior Limite superior	285 515			
		5% da média aparada		400			
		Mediana		400			
		Variância		,012			
		Desvio Padrão		,1095			
		Mínimo		,3			
		Máximo		,5			
		Intervalo		,2			
		Intervalo interquartil		,2			
		Assimetria		0,000	,845		
		Curtose		-3,333	1,741		
		Quercus canariensis control plus Phlomis		Média	683	,0749	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	491 875	
				5% da média aparada		676	
				Mediana		700	
				Variância		,034	
				Desvio Padrão		,1835	
				Mínimo		,5	
				Máximo		1,0	
Intervalo				,5			
Intervalo interquartil				,3			
Assimetria				,844	,845		
Curtose				1,356	1,741		
Quercus canariensis infested				Média	1,617	,3583	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,701 2,533	
				5% da média aparada		1,591	
				Mediana		1,500	
				Variância		,763	
				Desvio Padrão		,8727	
				Mínimo		,7	
				Máximo		3,0	
		Intervalo		2,3			
		Intervalo interquartil		1,3			
		Assimetria		,686	,845		
		Curtose		-,578	1,741		
		Quercus canariensis infested plus Phlomis		Média	950	,2630	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	274 1,626	
				5% da média aparada		,917	
				Mediana		,600	
				Variância		,415	
				Desvio Padrão		,6442	
				Mínimo		,5	
				Máximo		2,0	
Intervalo				1,5			
Intervalo interquartil				1,1			
Assimetria				1,161	,845		
Curtose				-,422	1,741		

I.I.VIII. Pearson's correlation between aerial and root evaluation of *Quercus canariensis*

Correlações

		Aerial evaluation	Radicular evaluation
Aerial evaluation	Correlação de Pearson	1	,492 [*]
	Sig. (2 extremidades)		,015
Radicular evaluation	Correlação de Pearson	,492 [*]	1
	Sig. (2 extremidades)	,015	
		N	24
		N	24

*. A correlação é significativa no nível 0,05 (2 extremidades).

I.I.IX. Analysis of variance of aerial and root evaluation of *Quercus coccifera* under four different conditions: control=non-infested=C1; control together with *Phomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Comparações múltiplas

DMS

Variável dependente	(i) Conditions	(j) Conditions	Diferença média (i-j)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
						Limite inferior	Limite superior
Aerial evaluation	Quercus coccifera control	Quercus coccifera control plus Phlomis	,0333	,2047	,872	-.394	,460
		Quercus coccifera infested	-1,2833 [*]	,2047	,000	-1,710	-.856
		Quercus coccifera infested plus Phlomis	-4,000	,2047	,065	-.827	,027
		Quercus coccifera control plus Phlomis	-.0333	,2047	,872	-.460	,394
	Quercus coccifera control plus Phlomis	Quercus coccifera control	-1,3167 [*]	,2047	,000	-1,744	-.890
		Quercus coccifera infested	-.4333 [*]	,2047	,047	-.860	-.006
		Quercus coccifera control plus Phlomis	1,2833	,2047	,000	,856	1,710
		Quercus coccifera infested plus Phlomis	1,3167 [*]	,2047	,000	,890	1,744
	Quercus coccifera infested	Quercus coccifera control	,8833 [*]	,2047	,000	,456	1,310
		Quercus coccifera control plus Phlomis	4,000	,2047	,065	-.027	,827
		Quercus coccifera infested plus Phlomis	4,3333 [*]	,2047	,047	,006	,860
		Quercus coccifera infested	-.8833 [*]	,2047	,000	-1,310	-.456
Radicular evaluation	Quercus coccifera control	Quercus coccifera control plus Phlomis	-.9667 [*]	,3376	,010	-1,671	-.262
		Quercus coccifera infested	-1,7333 [*]	,3376	,000	-2,438	-1,029
		Quercus coccifera infested plus Phlomis	-.9667 [*]	,3376	,010	-1,671	-.262
		Quercus coccifera control plus Phlomis	,9667 [*]	,3376	,010	,262	1,671
	Quercus coccifera control plus Phlomis	Quercus coccifera control	-.7667 [*]	,3376	,034	-1,471	-.062
		Quercus coccifera infested plus Phlomis	,0000	,3376	1,000	-.704	,704
		Quercus coccifera infested	1,7333	,3376	,000	1,029	2,438
		Quercus coccifera control plus Phlomis	,7667 [*]	,3376	,034	,062	1,471
	Quercus coccifera infested	Quercus coccifera control	,9667 [*]	,3376	,010	,262	1,671
		Quercus coccifera control plus Phlomis	,0000	,3376	1,000	-.704	,704
		Quercus coccifera infested plus Phlomis	-.7667 [*]	,3376	,034	-1,471	-.062
		Quercus coccifera infested	-.7667 [*]	,3376	,034	-1,471	-.062

*. A diferença média é significativa no nível 0,05.

I.I.X. Comparison of means of aerial evaluation of *Quercus coccifera* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Descritivos

Conditions	Estadística	Erro Padrão	
Aerial evaluation Quercus coccifera control	Média	,467	
	95% Intervalo de Confiança para Média	Limite inferior: ,260 Limite superior: ,673	
	5% da média aparada	,463	
	Mediana	,400	
	Variância	,039	
	Desvio Padrão	,1966	
	Mínimo	,3	
	Máximo	,7	
	Intervalo	,4	
	Intervalo interquartil	,4	
	Assimetria	,456	
	Curtose	-2,390	
	Quercus coccifera control plus Phlomis	Média	,433
		95% Intervalo de Confiança para Média	Limite inferior: ,262 Limite superior: ,605
		5% da média aparada	,426
		Mediana	,400
Variância		,027	
Desvio Padrão		,1633	
Mínimo		,3	
Máximo		,7	
Intervalo		,4	
Intervalo interquartil		,3	
Assimetria		,857	
Curtose		-3,300	
Quercus coccifera infested		Média	1,750
		95% Intervalo de Confiança para Média	Limite inferior: 1,094 Limite superior: 2,406
		5% da média aparada	1,706
		Mediana	1,500
	Variância	,391	
	Desvio Padrão	,6253	
	Mínimo	1,3	
	Máximo	3,0	
	Intervalo	1,7	
	Intervalo interquartil	,6	
	Assimetria	2,227	
	Curtose	5,170	
	Quercus coccifera infested plus Phlomis	Média	,867
		95% Intervalo de Confiança para Média	Limite inferior: ,640 Limite superior: 1,093
		5% da média aparada	,880
		Mediana	1,000
Variância		,047	
Desvio Padrão		,2160	
Mínimo		,5	
Máximo		1,0	
Intervalo		,5	
Intervalo interquartil		,4	
Assimetria		-1,323	
Curtose		,214	

I.I.XI. Comparison of means of root evaluation of *Quercus coccifera* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p) =non-infested plus P. p =C2; infested=C3 and infested together with P. p =C4.

Condições		Estatística		Erro Padrão	
Radicular evaluation	Quercus coccifera control	Média		1,000	,1095
		95% Intervalo de Confiança para Média	Limite inferior	,718	
			Limite superior	1,282	
		5% da média aparada		1,000	
		Mediana		1,000	
		Variância		,072	
		Desvio Padrão		,2683	
		Mínimo		,7	
		Máximo		1,3	
		Intervalo		,6	
	Intervalo interquartil		,6		
	Assimetria		,000	,845	
	Curiose		-1,875	1,741	
	Quercus coccifera control plus Phlomis	Média		1,967	2,777
		95% Intervalo de Confiança para Média	Limite inferior	1,253	
			Limite superior	2,680	
		5% da média aparada		1,946	
		Mediana		1,850	
		Variância		,463	
		Desvio Padrão		,6802	
Mínimo			1,3		
Máximo			3,0		
Intervalo			1,7		
Intervalo interquartil		1,3			
Assimetria		,613	,845		
Curiose		-,949	1,741		
Quercus coccifera infested	Média		2,733	,0919	
	95% Intervalo de Confiança para Média	Limite inferior	2,497		
		Limite superior	2,970		
	5% da média aparada		2,731		
	Mediana		2,700		
	Variância		,051		
	Desvio Padrão		,2251		
	Mínimo		2,5		
	Máximo		3,0		
	Intervalo		,5		
Intervalo interquartil		,5			
Assimetria		,327	,845		
Curiose		-1,875	1,741		
Quercus coccifera infested plus Phlomis	Média		1,967	,3612	
	95% Intervalo de Confiança para Média	Limite inferior	1,038		
		Limite superior	2,895		
	5% da média aparada		1,946		
	Mediana		1,750		
	Variância		,763		
	Desvio Padrão		,8847		
	Mínimo		1,0		
	Máximo		3,3		
	Intervalo		2,3		
Intervalo interquartil		1,6			
Assimetria		,634	,845		
Curiose		-1,030	1,741		

I.I.XII. Comparison of aerial and root evaluation under two different conditions [control (NI) and infested plants] using independent T-test for *Phlomis purpurea*.

Estatísticas de grupo					
Condições	N	Média	Desvio Padrão	Erro padrão da média	
Aerial evaluation	Phlomis purpurea Control	6	,567	,1033	,0422
	Phlomis purpurea infested	6	,533	,0816	,0333
Radicular evaluation	Phlomis purpurea Control	6	,400	,1673	,0683
	Phlomis purpurea infested	6	,300	,0000	,0000

Teste de amostras independentes										
		Teste de Levene para igualdade de variâncias				teste-t para igualdade de Médias				
		Z	Sig.	t	df	Sig. (2 extremidades)	Diferença média	Erro padrão de diferença	95% Intervalo de Confiança da Diferença	
									Inferior	Superior
Aerial evaluation	Variâncias iguais assumidas	1,607	,224	,620	10	,549	,0333	,0537	-,0864	,1531
	Variâncias iguais não assumidas			,620	9,494	,550	,0333	,0537	-,0873	,1540
Radicular evaluation	Variâncias iguais assumidas	16,000	,003	1,464	10	,174	,1000	,0683	-,0522	,2522
	Variâncias iguais não assumidas			1,464	5,000	,203	,1000	,0683	-,0756	,2756

I.I.XIII. Comparison of means of aerial evaluation of *Phlomis purpurea* under two different conditions: control=non-infested=C1 and infested=C3.

Descritivos				Estadística	Erro Padrão	
Conditions						
Aerial evaluation Phlomis purpurea Control	Média			,567	,0422	
	95% Intervalo de Confiança para Média	Limite inferior		,458		
		Limite superior		,675		
	5% da média aparada			,563		
	Mediana			,500		
	Variância			,011		
	Desvio Padrão			,1033		
	Mínimo			,5		
	Máximo			,7		
	Intervalo			,2		
	Intervalo interquartil			,2		
	Assimetria			,968	,845	
	Curtose			-1,875	1,741	
	Phlomis purpurea infested	Média			,533	,0333
		95% Intervalo de Confiança para Média	Limite inferior		,448	
Limite superior				,619		
5% da média aparada				,526		
Mediana				,500		
Variância				,007		
Desvio Padrão				,0816		
Mínimo				,5		
Máximo				,7		
Intervalo				,2		
Intervalo interquartil				,1		
Assimetria				2,449	,845	
Curtose				6,000	1,741	

I.I.XIV. Comparison of means of root evaluation of *Phlomis purpurea* under two different conditions: control=non-infested=C1 and infested=C3.

Descritivos ^a				Estadística	Erro Padrão
Conditions					
Radicular evaluation Phlomis purpurea Control	Média			,400	,0683
	95% Intervalo de Confiança para Média	Limite inferior		,224	
		Limite superior		,576	
	5% da média aparada			,389	
	Mediana			,300	
	Variância			,028	
	Desvio Padrão			,1673	
	Mínimo			,3	
	Máximo			,7	
	Intervalo			,4	
	Intervalo interquartil			,3	
	Assimetria			1,537	,845
	Curtose			1,429	1,741

^a Radicular evaluation é constante quando Conditions = Phlomis purpurea infested. Foi omitida.

^a Radicular evaluation is constant when Conditions=Phlomis purpurea infested. It was omitted.

Appendix I.II (Experiment 2)

I.II.I. Analysis of variance for average of root and aerial symptom severity of *Castanea sativa* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Comparações múltiplas							
Variável dependente	(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
						Limite inferior	Limite superior
Avaliação aérea	Castanea sativa control	C. sativa infested	-1,2400 ^a	,4289	,006	-2,110	-,370
		C. sativa + P. purpurea control	-,3700	,4289	,394	-1,240	,500
		C. sativa + P. purpurea infested	-,8900 ^a	,4289	,045	-1,760	-,020
	C. sativa infested	Castanea sativa control	1,2400 ^a	,4289	,006	,370	2,110
		C. sativa + P. purpurea control	,8700 ^a	,4289	,050	,000	1,740
		C. sativa + P. purpurea infested	,3500	,4289	,420	-,520	1,220
	C. sativa + P. purpurea control	Castanea sativa control	,3700	,4289	,394	-,500	1,240
		C. sativa infested	-,8700 ^a	,4289	,050	-1,740	,000
		C. sativa + P. purpurea infested	-,5200	,4289	,233	-1,390	,350
	C. sativa + P. purpurea infested	Castanea sativa control	,8900 ^a	,4289	,045	,020	1,760
		C. sativa infested	-,3500	,4289	,420	-1,220	,500
		C. sativa + P. purpurea control	,5200	,4289	,233	-,350	1,390
Avaliação radicular	Castanea sativa control	C. sativa infested	-,9800 ^a	,2355	,000	-1,458	-,502
		C. sativa + P. purpurea control	,0200	,2355	,933	-,458	,498
		C. sativa + P. purpurea infested	-,1200	,2355	,613	-,598	,358
	C. sativa infested	Castanea sativa control	,9800 ^a	,2355	,000	,502	1,458
		C. sativa + P. purpurea control	1,0000 ^a	,2355	,000	,522	1,478
		C. sativa + P. purpurea infested	,8600 ^a	,2355	,001	,382	1,338
	C. sativa + P. purpurea control	Castanea sativa control	-,0200	,2355	,933	-,498	,458
		C. sativa infested	-1,0000 ^a	,2355	,000	-1,478	-,522
		C. sativa + P. purpurea infested	-,1400	,2355	,556	-,618	,338
	C. sativa + P. purpurea infested	Castanea sativa control	,1200	,2355	,613	-,358	,598
		C. sativa infested	-,8600 ^a	,2355	,001	-1,338	-,382
		C. sativa + P. purpurea control	,1400	,2355	,556	-,338	,618

^a A diferença média é significativa no nível 0.05.

I.II.II. Analysis of variance for weight of: aerial part, principal root, secondary root and total root as well as percentage of *Phytophthora cinnamomi* isolation from roots of *Castanea sativa* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus (P. p)=C2; infested=C3 and infested together with (P. p)=C4.

Comparações múltiplas

Variável dependente	(i) Plant name	(j) Plant name	Diferença média (i-j)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
						Limite inferior	Limite superior
Peso parte aérea	Castanea sativa control	C. sativa infested	3,6100	1,8525	,059	-.147	7,367
		C. sativa + P. purpurea control	2,4600	1,8525	,193	-1,297	6,217
		C. sativa + P. purpurea infested	4,7300*	1,8525	,015	,973	8,487
	C. sativa infested	Castanea sativa control	-3,6100	1,8525	,059	-7,367	-.147
		C. sativa + P. purpurea control	-1,1500	1,8525	,539	-4,907	2,607
		C. sativa + P. purpurea infested	1,1200	1,8525	,549	-2,637	4,877
	C. sativa + P. purpurea control	Castanea sativa control	-2,4600	1,8525	,193	-6,217	1,297
		C. sativa infested	1,1500	1,8525	,539	-2,607	4,907
		C. sativa + P. purpurea infested	-2,2700	1,8525	,239	-4,487	0,007
	C. sativa + P. purpurea infested	Castanea sativa control	-4,7300*	1,8525	,015	-8,487	-.973
		C. sativa infested	-1,1200	1,8525	,549	-4,877	2,637
		C. sativa + P. purpurea control	-2,2700	1,8525	,239	-6,027	1,487
Peso raiz principal	Castanea sativa control	C. sativa infested	4,4100*	,8376	,000	2,711	6,109
		C. sativa + P. purpurea control	2,2000*	,8376	,013	,501	3,899
		C. sativa + P. purpurea infested	2,0700*	,8376	,018	,371	3,769
	C. sativa infested	Castanea sativa control	-4,4100*	,8376	,000	-6,109	-2,711
		C. sativa + P. purpurea control	-2,2100*	,8376	,012	-3,909	-.511
		C. sativa + P. purpurea infested	-2,3400*	,8376	,008	-4,039	-.641
	C. sativa + P. purpurea control	Castanea sativa control	-2,2000*	,8376	,013	-3,899	-.501
		C. sativa infested	2,2100*	,8376	,012	,511	3,909
		C. sativa + P. purpurea infested	-1,3000	,8376	,878	-4,829	1,569
	C. sativa + P. purpurea infested	Castanea sativa control	-2,0700*	,8376	,018	-3,769	-.371
		C. sativa infested	-2,3400*	,8376	,008	-.641	4,039
		C. sativa + P. purpurea control	-1,3000	,8376	,878	-1,569	1,829
Peso raiz secundária	Castanea sativa control	C. sativa infested	-.0300	1,3202	,982	-2,707	2,647
		C. sativa + P. purpurea control	-.3000	1,3202	,822	-2,977	2,377
		C. sativa + P. purpurea infested	-.2400	1,3202	,857	-2,917	2,437
	C. sativa infested	Castanea sativa control	0,3000	1,3202	,982	-2,647	2,707
		C. sativa + P. purpurea control	-.2700	1,3202	,839	-2,947	2,407
		C. sativa + P. purpurea infested	-.2100	1,3202	,875	-2,887	2,467
	C. sativa + P. purpurea control	Castanea sativa control	-.3000	1,3202	,822	-2,377	2,977
		C. sativa infested	-.2700	1,3202	,839	-2,407	2,947
		C. sativa + P. purpurea infested	-.0600	1,3202	,964	-2,617	2,747
	C. sativa + P. purpurea infested	Castanea sativa control	-.2400	1,3202	,857	-2,437	2,917
		C. sativa infested	-.2100	1,3202	,875	-2,467	2,887
		C. sativa + P. purpurea control	-.0600	1,3202	,964	-2,737	2,617
Peso raiz total	Castanea sativa control	C. sativa infested	4,3800*	1,6953	,014	,942	7,818
		C. sativa + P. purpurea control	1,9000*	1,6953	,270	-1,538	5,338
		C. sativa + P. purpurea infested	1,8300*	1,6953	,288	-1,608	5,268
	C. sativa infested	Castanea sativa control	-4,3800*	1,6953	,014	-7,818	-.942
		C. sativa + P. purpurea control	-2,4800*	1,6953	,152	-5,918	,958
		C. sativa + P. purpurea infested	-2,5500*	1,6953	,141	-5,988	,888
	C. sativa + P. purpurea control	Castanea sativa control	-1,9000*	1,6953	,270	-5,338	1,538
		C. sativa infested	2,4800*	1,6953	,152	-.958	5,918
		C. sativa + P. purpurea infested	-.0700	1,6953	,967	-3,508	3,368
	C. sativa + P. purpurea infested	Castanea sativa control	-1,8300*	1,6953	,288	-5,268	1,608
		C. sativa infested	2,5500*	1,6953	,141	-.888	5,988
		C. sativa + P. purpurea control	0,7000	1,6953	,967	-3,368	3,508
% recup P.c. raízes	Castanea sativa control	C. sativa infested	-31,8000*	11,2496	,008	-54,615	-8,985
		C. sativa + P. purpurea control	0,0000	11,2496	1,000	-22,815	22,815
		C. sativa + P. purpurea infested	-25,5100*	11,2496	,029	-48,325	-2,695
	C. sativa infested	Castanea sativa control	31,8000*	11,2496	,008	8,985	54,615
		C. sativa + P. purpurea control	31,8000*	11,2496	,008	8,985	54,615
		C. sativa + P. purpurea infested	6,2900	11,2496	,580	-16,525	29,105
	C. sativa + P. purpurea control	Castanea sativa control	0,0000	11,2496	1,000	-22,815	22,815
		C. sativa infested	-31,8000*	11,2496	,008	-54,615	-8,985
		C. sativa + P. purpurea infested	-25,5100*	11,2496	,029	-48,325	-2,695
	C. sativa + P. purpurea infested	Castanea sativa control	-25,5100*	11,2496	,029	-48,325	-2,695
		C. sativa infested	-6,2900	11,2496	,580	-29,105	16,525
		C. sativa + P. purpurea control	25,5100*	11,2496	,029	2,695	48,325

* A diferença média é significativa no nível 0,05.

I.II.III. Comparison of means for average of root and aerial symptom severity; weight of: aerial part, principal root, secondary root and total root as well as percentage of isolation from roots of *Castanea sativa* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
Análise aérea	Castanea sativa control	10	1,680	,7545	,2386	1,120	2,200	1,0	3,3
	C. sativa infested	10	2,900	1,2887	,4089	1,880	3,820	,5	4,8
	C. sativa + P. purpurea control	10	2,030	,8044	,2680	1,383	2,677	1,0	3,7
	C. sativa + P. purpurea infested	10	2,550	,7876	,2522	1,879	3,121	1,5	4,0
	Total	40	2,295	1,0398	,1844	1,953	2,617	,5	4,0
Análise radicular	Castanea sativa control	10	,340	,0843	,0267	,289	,400	,3	,5
	C. sativa infested	10	1,320	,8997	,3130	,612	2,028	,5	3,0
	C. sativa + P. purpurea control	10	,320	,0832	,0200	,275	,365	,3	,5
	C. sativa + P. purpurea infested	10	,460	,3438	,1087	,214	,706	,0	1,0
	Total	40	,610	,6586	,1036	,409	,820	,0	3,0
Peso parte aérea	Castanea sativa control	10	13,000	1,7510	,5540	11,747	14,253	8,5	14,6
	C. sativa infested	10	9,390	4,6271	1,4832	6,080	12,700	3,8	18,3
	C. sativa + P. purpurea control	10	10,540	6,1684	1,9506	6,127	14,953	5,3	27,1
	C. sativa + P. purpurea infested	10	8,270	2,4712	,7815	6,562	10,038	5,3	12,6
	Total	40	10,300	4,2590	,6891	8,908	11,894	3,8	27,1
Peso raiz principal	Castanea sativa control	10	10,680	2,0983	,6503	9,209	12,151	7,9	13,7
	C. sativa infested	10	6,370	1,7127	,5416	5,045	7,495	3,0	8,6
	C. sativa + P. purpurea control	10	8,480	1,3871	,4386	7,488	9,472	6,2	10,8
	C. sativa + P. purpurea infested	10	8,610	2,2238	,7032	7,019	10,201	6,2	12,4
	Total	40	8,510	2,3847	,3786	7,744	9,276	3,0	13,3
Peso raiz secundária	Castanea sativa control	10	9,540	3,1131	,9845	7,313	11,767	5,7	14,6
	C. sativa infested	10	9,570	2,4583	,7768	7,813	11,327	6,2	14,3
	C. sativa + P. purpurea control	10	9,840	3,2294	1,0212	7,538	12,150	3,2	14,3
	C. sativa + P. purpurea infested	10	9,780	2,9503	,9330	7,670	11,890	7,2	16,3
	Total	40	9,683	2,8393	,4489	8,774	10,591	3,2	16,3
Peso raiz total	Castanea sativa control	10	20,220	4,2881	1,3554	17,154	23,286	13,6	27,5
	C. sativa infested	10	15,840	3,5815	1,1326	13,278	18,402	12,2	22,9
	C. sativa + P. purpurea control	10	19,320	4,8127	1,5219	15,877	22,763	13,6	30,0
	C. sativa + P. purpurea infested	10	18,390	4,1054	1,2982	15,453	21,327	14,1	24,4
	Total	40	18,443	4,3794	,9924	17,042	19,843	12,2	30,0
% recup P.c. raízes	Castanea sativa control	10	,000	,0000	,0000	,000	,000	,0	,0
	C. sativa infested	10	31,800	37,8543	11,9706	4,721	58,878	,0	91,7
	C. sativa + P. purpurea control	10	,000	,0000	,0000	,000	,000	,0	,0
	C. sativa + P. purpurea infested	10	25,510	33,1377	10,4791	1,885	48,215	,0	100,0
	Total	40	14,328	28,2790	4,4713	5,283	23,372	,0	100,0

I.II.IV. Pearson's correlation between: aerial and root symptom severity; aerial symptom severity and weight of aerial part; root symptom severity and percentage of *Phytophthora cinnamomi* isolation from roots and as well as root symptom severity and principal root, secondary root and total root weights of *Castanea sativa*.

Correlações

		Avaliação aérea	Avaliação radicular
Avaliação aérea	Correlação de Pearson	1	,519*
	Sig. (2 extremidades)		,001
	N	40	40
Avaliação radicular	Correlação de Pearson	,519**	1
	Sig. (2 extremidades)	,001	
	N	40	40

** A correlação é significativa no nível 0,01 (2 extremidades).

Correlações

		Avaliação aérea	Peso parte aérea
Avaliação aérea	Correlação de Pearson	1	-,429*
	Sig. (2 extremidades)		,006
	N	40	40
Peso parte aérea	Correlação de Pearson	-,429*	1
	Sig. (2 extremidades)	,006	
	N	40	40

** A correlação é significativa no nível 0,01 (2 extremidades).

Correlações

		Avaliação radicular	% recup P. c. raízes
Avaliação radicular	Correlação de Pearson	1	,378*
	Sig. (2 extremidades)		,016
	N	40	40
% recup P. c. raízes	Correlação de Pearson	,378*	1
	Sig. (2 extremidades)	,016	
	N	40	40

* A correlação é significativa no nível 0,05 (2 extremidades).

Correlações

		Avaliação radicular	Peso raíz principal	Peso raíz secundária	Peso raíz total
Avaliação radicular	Correlação de Pearson	1	-,539**	-,152	-,434*
	Sig. (2 extremidades)		,000	,350	,005
	N	40	40	40	40
Peso raíz principal	Correlação de Pearson	-,539**	1	,144	,706**
	Sig. (2 extremidades)	,000		,376	,000
	N	40	40	40	40
Peso raíz secundária	Correlação de Pearson	-,152	,144	1	,802*
	Sig. (2 extremidades)	,350	,376		,000
	N	40	40	40	40
Peso raíz total	Correlação de Pearson	-,434*	,706**	,802*	1
	Sig. (2 extremidades)	,005	,000	,000	
	N	40	40	40	40

** A correlação é significativa no nível 0,01 (2 extremidades).

I.II.V. Analysis of variance for average of root and aerial symptom severity of *Quercus coccifera* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea* (P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p=C4.

Comparações múltiplas

Variável dependente	(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%		
						Limite inferior	Limite superior	
Avaliação aérea	Quercus coccifera control	Q. coccifera infested	-,4375 ^a	,1639	,012	-,773	-,102	
		Q. coccifera + P. purpurea control	-,3958 ^a	,1592	,019	,070	,722	
		Q. coccifera + P. purpurea infested	-,2518	,1696	,149	-,599	,096	
		Q. coccifera infested	-,4375 ^a	,1639	,012	,102	,773	
	Q. coccifera infested	Q. coccifera + P. purpurea control	,8333 ^b	,1592	,000	,507	1,160	
		Q. coccifera + P. purpurea infested	-,1857	,1696	,283	-,162	,533	
		Q. coccifera + P. purpurea control	-,3958 ^a	,1592	,019	-,722	-,070	
		Q. coccifera infested	-,8333 ^b	,1592	,000	-,160	-,507	
	Q. coccifera + P. purpurea infested	Quercus coccifera control	,2518	,1696	,149	-,096	,599	
		Q. coccifera infested	-,1857	,1696	,283	-,533	,162	
		Q. coccifera + P. purpurea control	,8476 ^b	,1652	,001	,309	,986	
		Q. coccifera + P. purpurea infested	-,3500	,2312	,141	-,824	,124	
	Avaliação radicular	Quercus coccifera control	Q. coccifera infested	-,3500	,2312	,141	-,824	,124
			Q. coccifera + P. purpurea control	,0806	,2247	,723	-,380	,541
			Q. coccifera + P. purpurea infested	-,8464 ^a	,2393	,012	-,1137	-,156
			Q. coccifera infested	,3500	,2312	,141	-,124	,824
Q. coccifera infested		Quercus coccifera control	4306	,2247	,066	-,030	,891	
		Q. coccifera + P. purpurea control	-,2964	,2393	,226	-,787	,194	
		Q. coccifera + P. purpurea infested	-,0806	,2247	,723	-,541	,380	
		Q. coccifera infested	-,4306	,2247	,066	-,891	,030	
Q. coccifera + P. purpurea control		Quercus coccifera control	-,7270 ^a	,2330	,004	-,1204	-,250	
		Q. coccifera + P. purpurea infested	-,4306	,2247	,066	-,891	,030	
		Q. coccifera + P. purpurea control	,8464 ^a	,2393	,012	,156	1,137	
		Q. coccifera infested	-,2964	,2393	,226	-,194	,787	
Q. coccifera + P. purpurea infested		Quercus coccifera control	,7270 ^a	,2330	,004	,250	1,204	
		Q. coccifera infested	-,4306	,2247	,066	-,891	,030	
		Q. coccifera + P. purpurea control	,8464 ^a	,2393	,012	,156	1,137	
		Q. coccifera + P. purpurea infested	-,2964	,2393	,226	-,194	,787	

* A diferença média é significativa no nível 0,05.

I.II.VI. Analysis of variance for weight of: aerial part, principal root, secondary root and total root as well as percentage of *Phytophthora cinnamomi* isolation from roots of *Quercus coccifera* under four different conditions: control=non-infested=C1; control together with *Phlomis purpurea*(P. p)=non-infested plus P. p=C2; infested=C3 and infested together with P. p =C4.

Comparações múltiplas

DMS

Variável dependente	(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
						Limite inferior	Limite superior
Peso parte aérea	Quercus coccifera control	Q. coccifera infested	,4750	,5100	,360	-,570	1,520
		Q. coccifera + P. purpurea control	,1583	,4957	,752	-,857	1,174
		Q. coccifera + P. purpurea infested	,1250	,5279	,815	-,956	1,206
	Q. coccifera infested	Quercus coccifera control	-,4750	,5100	,360	-1,520	,570
		Q. coccifera + P. purpurea control	-,3167	,4957	,528	-1,332	,699
		Q. coccifera + P. purpurea infested	-,3500	,5279	,513	-1,431	,731
	Q. coccifera + P. purpurea control	Quercus coccifera control	-,1583	,4957	,752	-1,174	,857
		Q. coccifera infested	,3167	,4957	,528	-,699	1,332
		Q. coccifera + P. purpurea infested	-,0333	,5141	,949	-1,086	1,020
	Q. coccifera + P. purpurea infested	Quercus coccifera control	-,1250	,5279	,815	-1,206	,956
		Q. coccifera infested	,3500	,5279	,513	-,731	1,431
		Q. coccifera + P. purpurea control	,0333	,5141	,949	-1,020	1,086
Peso raiz principal	Quercus coccifera control	Q. coccifera infested	,2875	,7811	,716	-1,313	1,888
		Q. coccifera + P. purpurea control	,3181	,7591	,678	-1,237	1,873
		Q. coccifera + P. purpurea infested	-,3804	,8085	,642	-2,037	1,276
	Q. coccifera infested	Quercus coccifera control	-,2875	,7811	,716	-1,888	1,313
		Q. coccifera + P. purpurea control	,0306	,7591	,968	-1,524	1,585
		Q. coccifera + P. purpurea infested	-,6679	,8085	,416	-2,324	,988
	Q. coccifera + P. purpurea control	Quercus coccifera control	-,3181	,7591	,678	-1,873	1,237
		Q. coccifera infested	-,0306	,7591	,968	-1,585	1,524
		Q. coccifera + P. purpurea infested	-,6984	,7873	,383	-2,311	,914
	Q. coccifera + P. purpurea infested	Quercus coccifera control	,3804	,8085	,642	-1,276	2,037
		Q. coccifera infested	,6679	,8085	,416	-,988	2,324
		Q. coccifera + P. purpurea control	,6984	,7873	,383	-,914	2,311
Peso raiz secundária	Quercus coccifera control	Q. coccifera infested	1,3250*	,6384	,047	,017	2,633
		Q. coccifera + P. purpurea control	-,1278	,6204	,838	-1,399	1,143
		Q. coccifera + P. purpurea infested	1,6214*	,6608	,021	,268	2,975
	Q. coccifera infested	Quercus coccifera control	-1,3250*	,6384	,047	-2,633	-,017
		Q. coccifera + P. purpurea control	-1,4528*	,6204	,027	-2,724	-,182
		Q. coccifera + P. purpurea infested	,2964	,6608	,657	-1,057	1,650
	Q. coccifera + P. purpurea control	Quercus coccifera control	,1278	,6204	,838	-1,143	1,399
		Q. coccifera infested	1,4528*	,6204	,027	,182	2,724
		Q. coccifera + P. purpurea infested	1,7492*	,6434	,011	,431	3,067
	Q. coccifera + P. purpurea infested	Quercus coccifera control	-1,6214*	,6608	,021	-2,975	-,268
		Q. coccifera infested	-,2964	,6608	,657	-1,650	1,057
		Q. coccifera + P. purpurea control	-1,7492*	,6434	,011	-3,067	-,431
Peso raiz total	Quercus coccifera control	Q. coccifera infested	1,6125	1,2634	,212	-,975	4,200
		Q. coccifera + P. purpurea control	,1903	1,2278	,878	-2,325	2,705
		Q. coccifera + P. purpurea infested	1,2411	1,3077	,351	-1,438	3,920
	Q. coccifera infested	Quercus coccifera control	-1,6125	1,2634	,212	-4,200	,975
		Q. coccifera + P. purpurea control	-1,4222	1,2278	,256	-3,937	1,093
		Q. coccifera + P. purpurea infested	-,3714	1,3077	,778	-3,050	2,307
	Q. coccifera + P. purpurea control	Quercus coccifera control	-,1903	1,2278	,878	-2,705	2,325
		Q. coccifera infested	1,4222	1,2278	,256	-1,093	3,937
		Q. coccifera + P. purpurea infested	1,0508	1,2733	,416	-1,558	3,659
	Q. coccifera + P. purpurea infested	Quercus coccifera control	-1,2411	1,3077	,351	-3,920	1,438
		Q. coccifera infested	,3714	1,3077	,778	-2,307	3,050
		Q. coccifera + P. purpurea control	-1,0508	1,2733	,416	-3,659	1,558
% recup P.c. raizes	Quercus coccifera control	Q. coccifera infested	-26,0000*	9,6114	,011	-45,688	-6,312
		Q. coccifera + P. purpurea control	,0000	9,3406	1,000	-19,133	19,133
		Q. coccifera + P. purpurea infested	-69,9000*	9,9488	,000	-90,279	-49,521
	Q. coccifera infested	Quercus coccifera control	26,0000*	9,6114	,011	6,312	45,688
		Q. coccifera + P. purpurea control	26,0000*	9,3406	,010	6,867	45,133
		Q. coccifera + P. purpurea infested	-43,9000*	9,9488	,000	-64,279	-23,521
	Q. coccifera + P. purpurea control	Quercus coccifera control	,0000	9,3406	1,000	-19,133	19,133
		Q. coccifera infested	-26,0000*	9,3406	,010	-45,133	-6,867
		Q. coccifera + P. purpurea infested	-69,9000*	9,6874	,000	-89,744	-50,056
	Q. coccifera + P. purpurea infested	Quercus coccifera control	69,9000*	9,9488	,000	49,521	90,279
		Q. coccifera infested	43,9000*	9,9488	,000	23,521	64,279
		Q. coccifera + P. purpurea control	69,9000*	9,6874	,000	50,056	89,744

*. A diferença média é significativa no nível 0.05.

I.II.VII. Comparison of means for average of root and aerial symptom severity; weight of: aerial part, principal root, secondary root and total root as well as percentage of *Phytophthora cinnamomi* isolation from roots of *Quercus coccifera* under four different conditions: control=non-infested=C1; control together with *Phomis purpurea* (P. p)=non-infested plus P. p =C2; infested=C3 and infested together with P. p =C4.

Plant name	Contagem	Média	Desvio padrão
Quercus coccifera control	Avaliação aérea	8	,9
	Avaliação radicular	8	,5
	Peso parte aérea	8	2,6
	Peso raiz principal	8	4,1
	Peso raiz secundária	8	3,1
	Peso raiz total	8	7,2
	% recup P.c. raízes	8	,0
Q. coccifera infested	Avaliação aérea	8	1,3
	Avaliação radicular	8	,9
	Peso parte aérea	8	2,2
	Peso raiz principal	8	3,8
	Peso raiz secundária	8	1,8
	Peso raiz total	8	5,6
	% recup P.c. raízes	8	26,0
Q. coccifera + P. purpurea control	Avaliação aérea	9	,5
	Avaliação radicular	9	,4
	Peso parte aérea	9	2,5
	Peso raiz principal	9	3,7
	Peso raiz secundária	9	3,3
	Peso raiz total	9	7,0
	% recup P.c. raízes	9	,0
Q. coccifera + P. purpurea infested	Avaliação aérea	7	1,1
	Avaliação radicular	7	1,2
	Peso parte aérea	7	2,5
	Peso raiz principal	7	4,4
	Peso raiz secundária	7	1,5
	Peso raiz total	7	6,0
	% recup P.c. raízes	7	69,9

I.II.VIII. Pearson's correlation between aerial and root symptom severity; weight of: aerial part; principal root, secondary root, total root and percentage of *Phytophthora cinnamomi* recovery from roots of *Quercus coccifera*.

		Correlações						
		Avaliação aérea	Avaliação radicular	Peso parte aérea	Peso raiz principal	Peso raiz secundária	Peso raiz total	% recup P.c. raízes
Avaliação aérea	Correlação de Pearson	1	,614**	-,483*	-,342	-,572**	-,537**	,300
	Sig. (2 extremidades)		,000	,005	,055	,001	,002	,096
	N	32	32	32	32	32	32	32
Avaliação radicular	Correlação de Pearson	,614**	1	-,313	-,119	-,481**	-,350	,473**
	Sig. (2 extremidades)	,000		,081	,516	,005	,050	,006
	N	32	32	32	32	32	32	32
Peso parte aérea	Correlação de Pearson	-,483**	-,313	1	,774**	,555**	,789**	-,021
	Sig. (2 extremidades)	,005	,081		,000	,001	,000	,910
	N	32	32	32	32	32	32	32
Peso raiz principal	Correlação de Pearson	-,342	-,119	,774**	1	,431*	,853**	-,211
	Sig. (2 extremidades)	,055	,516	,000		,014	,000	,246
	N	32	32	32	32	32	32	32
Peso raiz secundária	Correlação de Pearson	-,572**	-,481**	,555**	,431*	1	,838**	-,325
	Sig. (2 extremidades)	,001	,005	,001	,014	,000		,070
	N	32	32	32	32	32	32	32
Peso raiz total	Correlação de Pearson	-,537**	-,350	,789**	,853**	,838**	1	-,060
	Sig. (2 extremidades)	,002	,050	,000	,000	,000		,743
	N	32	32	32	32	32	32	32
% recup P.c. raízes	Correlação de Pearson	,300	,473**	-,021	,211	-,325	-,060	1
	Sig. (2 extremidades)	,096	,006	,910	,246	,070	,743	
	N	32	32	32	32	32	32	32

** A correlação é significativa no nível 0.01 (2 extremidades).

* A correlação é significativa no nível 0.05 (2 extremidades).

I.II.IX. Comparison of two groups of variables (control and infested plants) using independent T-test for average of root and aerial symptom severity; weight of: aerial part, principal root, secondary root and total root of *Phomis purpurea*.

		Levene's Test for Equality of Variances		t-Test for Equality of Means				95% Confidence Interval of the Difference		
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Avaliação aérea	Equal variances assumed	,107	,872	-1,251	13	,233	-,3000	,2399	-,8193	,2183
	Equal variances not assumed			-1,296	12,889	,219	-,3000	,2315	-,8041	,2041
Avaliação radicular	Equal variances assumed	,087	,773	-3,032	13	,010	-,3611	,1191	-,6194	-,1038
	Equal variances not assumed			-2,821	8,321	,022	-,3611	,1280	-,6543	-,0679
Peso parte aérea	Equal variances assumed	,638	,439	,033	13	,974	,0278	,8480	-1,8043	1,8599
	Equal variances not assumed			,035	12,888	,973	,0278	,7911	-1,8832	1,7387
Peso raiz principal	Equal variances assumed	4,177	,062	2,898	13	,012	,2500	,0863	,0636	,4364
	Equal variances not assumed			3,406	10,969	,006	,2500	,0734	,0884	,4116
Peso raiz secundária	Equal variances assumed	2,982	,108	,277	13	,786	,0833	,3006	-,5660	,7327
	Equal variances not assumed			,316	12,240	,757	,0833	,2634	-,4894	,8560
Peso raiz total	Equal variances assumed	5,810	,031	,951	13	,359	,3333	,3506	-,4241	1,0908
	Equal variances not assumed			1,114	11,106	,289	,3333	,2992	-,3244	,9910

I.II.X. Comparison means of average of root and aerial symptom severity; weight of: aerial part, principal root, secondary root and total root as well as percentage of *Phytophthora cinnamomi* isolated from *Phlomis purpurea* roots.

		Descriptives							
		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Avaliação aérea	Phlomis purpurea control	9	,667	,4822	,1607	,286	1,037	,0	1,3
	Phlomis purpurea infested	6	,967	,4082	,1667	,538	1,395	,5	1,5
	Total	15	,787	,4642	,1199	,530	1,044	,0	1,5
Avaliação radicular	Phlomis purpurea control	9	,122	,1922	,0641	-,026	,270	,0	,5
	Phlomis purpurea infested	6	,493	,2714	,1108	,198	,768	,3	1,0
	Total	15	,267	,2845	,0735	,109	,424	,0	1,0
Peso parte aérea	Phlomis purpurea control	9	2,111	1,7857	,5952	,739	3,484	,5	6,0
	Phlomis purpurea infested	6	2,083	1,2766	,5212	,744	3,423	1,2	4,5
	Total	15	2,100	1,5506	,4004	1,241	2,959	,5	6,0
Peso raiz principal	Phlomis purpurea control	9	,433	,2000	,0667	,280	,587	,1	,7
	Phlomis purpurea infested	6	,183	,0753	,0307	,104	,262	,1	,3
	Total	15	,333	,2024	,0523	,221	,445	,1	,7
Peso raiz secundária	Phlomis purpurea control	9	,767	,6782	,2261	,245	1,288	,2	2,2
	Phlomis purpurea infested	6	,683	,3312	,1352	,336	1,031	,4	1,3
	Total	15	,733	,5612	,1423	,428	1,039	,2	2,2
Peso raiz total	Phlomis purpurea control	9	1,200	,8109	,2703	,577	1,823	,3	2,8
	Phlomis purpurea infested	6	,867	,3141	,1282	,537	1,196	,6	1,4
	Total	15	1,067	,6630	,1712	,700	1,434	,3	2,8
% recup P.c. raízes	Phlomis purpurea control	9	,000	,0000	,0000	,000	,000	,0	,0
	Phlomis purpurea infested	6	,000	,0000	,0000	,000	,000	,0	,0
	Total	15	,000	,0000	,0000	,000	,000	,0	,0

I.II.XI. Pearson's correlation between: aerial and root symptom severity; root symptom severity and principal root weight, secondary root weight and total root weight as well as percentage of isolation from roots of *Phlomis purpurea*.

Correlações			
		Avaliação aérea	Avaliação radicular
Avaliação aérea	Correlação de Pearson	1	,191
	Sig. (2 extremidades)		,495
	N	15	15
Avaliação radicular	Correlação de Pearson	,191	1
	Sig. (2 extremidades)	,495	
	N	15	15

Correlações						
		Avaliação radicular	Peso raiz principal	Peso raiz secundária	Peso raiz total	% recup P.c. raízes
Avaliação radicular	Correlação de Pearson	1	-,327	-,302	-,351	, ^a
	Sig. (2 extremidades)		,235	,274	,200	.
	N	15	15	15	15	15
Peso raiz principal	Correlação de Pearson	-,327	1	,425	,658 ^{**}	, ^a
	Sig. (2 extremidades)	,235		,115	,008	.
	N	15	15	15	15	15
Peso raiz secundária	Correlação de Pearson	-,302	,425	1	,961 ^{**}	, ^a
	Sig. (2 extremidades)	,274	,115		,000	.
	N	15	15	15	15	15
Peso raiz total	Correlação de Pearson	-,351	,658 ^{**}	,961 ^{**}	1	, ^a
	Sig. (2 extremidades)	,200	,008	,000		.
	N	15	15	15	15	15
% recup P.c. raízes	Correlação de Pearson	, ^a	, ^a	, ^a	, ^a	, ^a
	Sig. (2 extremidades)
	N	15	15	15	15	15

** A correlação é significativa no nível 0,01 (2 extremidades).

a. Não é possível calcular porque pelo menos uma das variáveis é constante.

Appendix I.III (Experiment 3)

I.III.I. Analysis of variance of aerial evaluation of *Castanea sativa* under five different conditions: C1= non-infested (NI); C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously

Comparações múltiplas

Variável dependente: Avaliação aérea
DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
C5	Castanea sativa inoculated directly	3,5100 [*]	,5093	,000	2,484	4,536
	C. sativa control (in a pot left with soil for 10 weeks)					
	C. sativa in infested soil (soil was infested 10 weeks before)	,7200	,5093	,164	-,306	1,746
	C. sativa + P. purpurea that was left for 10 weeks before	3,7300 [*]	,5093	,000	2,704	4,756
	C. sativa + P. purpurea inoculated for 10 weeks	2,1000 [*]	,5093	,000	1,074	3,128
C1	C. sativa control (in a pot left with soil for 10 weeks)	-3,5100 [*]	,5093	,000	-4,536	-2,484
	Castanea sativa inoculated directly					
	C. sativa in infested soil (soil was infested 10 weeks before)	-2,7900 [*]	,5093	,000	-3,816	-1,764
	C. sativa + P. purpurea that was left for 10 weeks before	,2200	,5093	,668	-,806	1,246
	C. sativa + P. purpurea inoculated for 10 weeks	-1,4100 [*]	,5093	,008	-2,436	-,384
C3	C. sativa in infested soil (soil was infested 10 weeks before)	-7,200	,5093	,164	-1,746	,306
	Castanea sativa inoculated directly					
	C. sativa control (in a pot left with soil for 10 weeks)	2,7900 [*]	,5093	,000	1,764	3,816
	C. sativa + P. purpurea that was left for 10 weeks before	3,0100 [*]	,5093	,000	1,984	4,036
	C. sativa + P. purpurea inoculated for 10 weeks	1,3800 [*]	,5093	,009	,354	2,406
C2	C. sativa + P. purpurea that was left for 10 weeks before	-3,7300 [*]	,5093	,000	-4,756	-2,704
	Castanea sativa inoculated directly					
	C. sativa control (in a pot left with soil for 10 weeks)	-,2200	,5093	,668	-1,246	,806
	C. sativa in infested soil (soil was infested 10 weeks before)	-3,0100 [*]	,5093	,000	-4,036	-1,984
	C. sativa + P. purpurea inoculated for 10 weeks	-1,6300 [*]	,5093	,003	-2,656	-,604
C4	C. sativa + P. purpurea inoculated for 10 weeks	-2,1000 [*]	,5093	,000	-3,128	-1,074
	Castanea sativa inoculated directly					
	C. sativa control (in a pot left with soil for 10 weeks)	1,4100 [*]	,5093	,008	,384	2,436
	C. sativa in infested soil (soil was infested 10 weeks before)	-1,3800 [*]	,5093	,009	-2,406	-,354
	C. sativa + P. purpurea that was left for 10 weeks before	1,6300 [*]	,5093	,003	,604	2,656

*. A diferença média é significativa no nível 0.05.

I.III.II. Analysis of variance of aerial evaluation of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and C4.2: In pre-infested soil together with *C. sativa*

Comparações múltiplas

Variável dependente: Avaliação aérea

DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
C2.1	P. purpurea PP1 + Cs control	,1200	,2704	,659		
	P. purpurea PP2 + Cs control	,4600	,2704	,094	-,420	1,000
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,5000	,2704	,069	-,040	1,040
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,9350*	,2868	,002	-1,508	-,362
	PP1 control	-,1886	,2979	,529	-,784	,406
	PP2 control	-,1933	,2778	,489	-,748	,361
	pp2 infested	-,2489	,2778	,374	-,804	,306
C2.2	P. purpurea PP2 + Cs control	-,1200	,2704	,659	-,600	,420
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,3400	,2704	,213	-,200	,880
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,3800	,2704	,165	-,160	,920
	PP1 control	-1,0550*	,2868	,000	-1,628	-,482
	PP2 control	-,3086	,2979	,304	-,904	,286
	PP1 infested	-,3133	,2778	,263	-,868	,241
	pp2 infested	-,3689	,2778	,189	-,924	,186
C4.1	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,4600	,2704	,094	-1,000	,080
	P. purpurea PP2 + Cs control	-,3400	,2704	,213	-,880	,200
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0400	,2704	,883	-,500	,580
	PP1 control	-1,3950*	,2868	,000	-1,968	-,822
	PP2 control	-,6486*	,2979	,033	-1,244	-,054
	PP1 infested	-,6533*	,2778	,022	-1,208	-,099
	pp2 infested	-,7089*	,2778	,013	-1,264	-,154
C4.2	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,5000	,2704	,069	-1,040	,040
	P. purpurea PP1 + Cs control	-,3800	,2704	,165	-,920	,160
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,0400	,2704	,883	-,580	,500
	PP1 control	-1,4350*	,2868	,000	-2,008	-,862
	PP2 control	-,6886*	,2979	,024	-1,284	-,094
	PP1 infested	-,6933*	,2778	,015	-1,248	-,139
	pp2 infested	-,7489*	,2778	,009	-1,304	-,194
C1.1	PP1 control	,9350*	,2868	,002	,362	1,508
	P. purpurea PP2 + Cs control	1,0550*	,2868	,000	,482	1,628
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	1,3950*	,2868	,000	,822	1,968
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	1,4350*	,2868	,000	,862	2,008
	PP2 control	,7464*	,3129	,020	,122	1,371
	PP1 infested	,7417*	,2938	,014	,155	1,328
	pp2 infested	,6861*	,2938	,023	,099	1,273
C1.2	PP2 control	,1886	,2979	,529	-,406	,784
	P. purpurea PP1 + Cs control	,3086	,2979	,304	-,286	,904
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,6486*	,2979	,033	,054	1,244
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,6886*	,2979	,024	,094	1,284
	PP1 control	-,7464*	,3129	,020	-1,371	-,122
	PP1 infested	-,0048	,3047	,988	-,613	,604
	pp2 infested	-,0603	,3047	,844	-,669	,548
C3.1	PP1 infested	,1933	,2778	,489	-,361	,748
	P. purpurea PP2 + Cs control	,3133	,2778	,263	-,241	,868
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,6533*	,2778	,022	,099	1,208
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,6933*	,2778	,015	,139	1,248
	PP1 control	-,7417*	,2938	,014	-1,328	-,155
	PP2 control	,0048	,3047	,988	-,604	,613
	pp2 infested	-,0556	,2850	,846	-,625	,514
C3.2	pp2 infested	,2489	,2778	,374	-,306	,804
	P. purpurea PP1 + Cs control	,3689	,2778	,189	-,186	,924
	P. purpurea PP2 + Cs control	,7089*	,2778	,013	,154	1,264
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,7489*	,2778	,009	,194	1,304
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,6861*	,2938	,023	-1,273	-,099
	PP2 control	,0603	,3047	,844	-,548	,669
	PP1 infested	,0556	,2850	,846	-,514	,625

*. A diferença média é significativa no nível 0.05.

Plant name	Descritivos ^a		Estatística	Erro Padrão
	Média	Limite inferior / Limite superior		
Avaliação aérea	C= sativa control (in a pot left with soil for 10 weeks)	Média	490	,2957
		95% Intervalo de Confiança para Média	-1,179 / 1,159	
		5% da média aparada	,378	
		Mediana	1,150	
		Variancia	,874	
		Desvio Padrão	,9351	
		Mínimo	,0	
		Máximo	3,0	
		Intervalo	3,0	
		Intervalo interquartil	,5	
		Assimetria	2,606	
		Curtose	7,095	
		Média	3,280	
		95% Intervalo de Confiança para Média	2,194 / 4,366	
5% da média aparada	3,406			
Mediana	4,000			
Variancia	2,306			
Desvio Padrão	1,5188			
Mínimo	,3			
Máximo	4,0			
Intervalo	3,7			
Intervalo interquartil	,9			
Assimetria	-1,783			
Curtose	1,436			
Média	2,70			
95% Intervalo de Confiança para Média	-0,006 / ,546			
5% da média aparada	,244			
Mediana	,000			
Variancia	,149			
Desvio Padrão	,3860			
Mínimo	,0			
Máximo	1,0			
Intervalo	1,0			
Intervalo interquartil	,7			
Assimetria	1,038			
Curtose	-5,62			
Média	1,900			
95% Intervalo de Confiança para Média	,629 / 3,171			
5% da média aparada	1,889			
Mediana	1,750			
Variancia	3,155			
Desvio Padrão	1,7764			
Mínimo	,0			
Máximo	4,0			
Intervalo	4,0			
Intervalo interquartil	4,0			
Assimetria	1,31			
Curtose	-2,070			
Média	840			
95% Intervalo de Confiança para Média	,368 / 1,312			
5% da média aparada	,794			
Mediana	,700			
Variancia	,436			
Desvio Padrão	,6603			
Mínimo	,0			
Máximo	2,5			
Intervalo	2,5			
Intervalo interquartil	,5			
Assimetria	1,867			
Curtose	5,000			
Média	,720			
95% Intervalo de Confiança para Média	,457 / ,983			
5% da média aparada	,700			
Mediana	1,35			
Variancia	,3676			
Desvio Padrão	,3			
Mínimo	1,5			
Máximo	1,2			
Intervalo	,6			
Intervalo interquartil	,976			
Assimetria	1,033			
Curtose	1,380			
Média	,280			
95% Intervalo de Confiança para Média	,480 / ,367			
5% da média aparada	,300			
Mediana	,020			
Variancia	,1398			
Desvio Padrão	,3			
Mínimo	,7			
Máximo	,4			
Intervalo	2			
Intervalo interquartil	1,658			
Assimetria	2,045			
Curtose	,340			
Média	,181			
95% Intervalo de Confiança para Média	,499 / ,339			
5% da média aparada	,300			
Mediana	,049			
Variancia	,2221			
Desvio Padrão	,0			
Mínimo	,7			
Máximo	,7			
Intervalo	,3			
Intervalo interquartil	-2,52			
Assimetria	-2,59			
Curtose	1,775			
Média	,943			
95% Intervalo de Confiança para Média	2,607 / 1,722			
5% da média aparada	1,350			
Mediana	,991			
Variancia	,9953			
Desvio Padrão	1,0			
Mínimo	3,5			
Máximo	2,5			
Intervalo	1,8			
Intervalo interquartil	,989			
Assimetria	-5,15			
Curtose	1,029			
Média	,592			
95% Intervalo de Confiança para Média	1,465 / 1,032			
5% da média aparada	1,000			
Mediana	,222			
Variancia	,4716			
Desvio Padrão	,5			
Mínimo	1,5			
Máximo	1,0			
Intervalo	1,0			
Intervalo interquartil	1,0			
Assimetria	-0,97			
Curtose	-2,419			
Média	1,033			
95% Intervalo de Confiança para Média	,337 / 1,729			
5% da média aparada	1,009			
Mediana	1,000			
Variancia	,820			
Desvio Padrão	,9055			
Mínimo	,0			
Máximo	2,5			
Intervalo	2,5			
Intervalo interquartil	1,5			
Assimetria	,948			
Curtose	-1,195			
Média	1,089			
95% Intervalo de Confiança para Média	,605 / 1,573			
5% da média aparada	1,052			
Mediana	1,000			
Variancia	,396			
Desvio Padrão	,6294			
Mínimo	,3			
Máximo	2,0			
Intervalo	1,7			
Intervalo interquartil	1,3			
Assimetria	4,39			
Curtose	-1,098			

I.I.III. Comparison of means of aerial evaluation of *Castanea sativa* under five different conditions:
 C1= NI;
 C2= NI together with *P. purpurea* pre-planted;
 C3= In pre-infested soil;
 C4= In pre-infested soil together with *P. purpurea*;
 C5= Planted and infested simultaneously and *Phlomis purpurea* under four different conditions:
 C1.1 and C1.2= Non-Infested (NI);
 C2.1 and C2.2= NI together with *Castanea sativa*;
 C3.1 and C3.2= In pre-infested soil;
 C4.1 and 4.2= In pre-infested soil together with *C. sativa*

^a Aerial evaluation is constant when Plant name= Castanea sativa inoculated directly. It was omitted.

a. Avaliação aérea é constante quando Plant name = Castanea sativa inoculated directly. Foi omitida.

I.III.IV. Analysis of variance of root evaluation of *Castanea sativa* under five different conditions: C1= Non-Infested (NI); C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously

Comparações múltiplas

Variável dependente: Avaliação radicular
DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Castanea sativa inoculated directly	C. sativa control (in a pot left with soil for 10 weeks)	3,6100 [*]	,3444	,000	2,916	4,304
	C. sativa in infested soil (soil was infested 10 weeks before)	,2000	,3444	,564	-,494	,894
	C. sativa + P. purpurea that was left for 10 weeks before	3,1000 [*]	,3444	,000	2,406	3,794
	C. sativa + P. purpurea inoculated for 10 weeks	2,1000 [*]	,3444	,000	1,406	2,794
C. sativa control (in a pot left with soil for 10 weeks)	Castanea sativa inoculated directly	-3,6100 [*]	,3444	,000	-4,304	-2,916
	C. sativa in infested soil (soil was infested 10 weeks before)	-3,4100 [*]	,3444	,000	-4,104	-2,716
	C. sativa + P. purpurea that was left for 10 weeks before	-,5100	,3444	,146	-1,204	,184
	C. sativa + P. purpurea inoculated for 10 weeks	-1,5100 [*]	,3444	,000	-2,204	-,816
C. sativa in infested soil (soil was infested 10 weeks before)	Castanea sativa inoculated directly	-,2000	,3444	,564	-,894	,494
	C. sativa control (in a pot left with soil for 10 weeks)	3,4100 [*]	,3444	,000	2,716	4,104
	C. sativa + P. purpurea that was left for 10 weeks before	2,9000 [*]	,3444	,000	2,206	3,594
	C. sativa + P. purpurea inoculated for 10 weeks	1,9000 [*]	,3444	,000	1,206	2,594
C. sativa + P. purpurea that was left for 10 weeks before	Castanea sativa inoculated directly	-3,1000 [*]	,3444	,000	-3,794	-2,406
	C. sativa control (in a pot left with soil for 10 weeks)	-,5100	,3444	,146	-,184	1,204
	C. sativa in infested soil (soil was infested 10 weeks before)	-2,9000 [*]	,3444	,000	-3,594	-2,206
	C. sativa + P. purpurea inoculated for 10 weeks	-1,0000 [*]	,3444	,006	-1,694	-,306
C. sativa + P. purpurea inoculated for 10 weeks	Castanea sativa inoculated directly	-2,1000 [*]	,3444	,000	-2,794	-1,406
	C. sativa control (in a pot left with soil for 10 weeks)	1,5100 [*]	,3444	,000	,816	2,204
	C. sativa in infested soil (soil was infested 10 weeks before)	-1,9000 [*]	,3444	,000	-2,594	-1,206
	C. sativa + P. purpurea that was left for 10 weeks before	1,0000 [*]	,3444	,006	,306	1,694

*. A diferença média é significativa no nível 0,05.

Comparações múltiplas

Variável dependente: Avaliação radicular

DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
P. purpurea PP1 + Cs control	P. purpurea PP2 + Cs control	,0800	,2078	,701	-,335	,495
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,1500	,2078	,473	-,265	,565
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,1500	,2078	,473	-,265	,565
	PP1 control	-,0875	,2204	,693	-,528	,353
	PP2 control	-,0500	,2289	,828	-,507	,407
	PP1 infested	-,4722*	,2135	,030	-,899	-,046
	pp2 infested	,0611	,2135	,776	-,365	,487
	P. purpurea PP2 + Cs control	P. purpurea PP1 + Cs control	-,0800	,2078	,701	-,495
P. purpurea PP1 in infested soil for 10 wks + C. sativa		,0700	,2078	,737	-,345	,485
P. purpurea PP2 in infested soil for 10 wks + C. sativa		,0700	,2078	,737	-,345	,485
PP1 control		-,1675	,2204	,450	-,608	,273
PP2 control		-,1300	,2289	,572	-,587	,327
PP1 infested		-,5522*	,2135	,012	-,979	-,126
pp2 infested		-,0189	,2135	,930	-,445	,407
P. purpurea PP1 in infested soil for 10 wks + C. sativa		P. purpurea PP1 + Cs control	-,1500	,2078	,473	-,565
	P. purpurea PP2 + Cs control	-,0700	,2078	,737	-,485	,345
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0000	,2078	1,000	-,415	,415
	PP1 control	-,2375	,2204	,285	-,678	,203
	PP2 control	-,2000	,2289	,386	-,657	,257
	PP1 infested	-,6222*	,2135	,005	-1,049	-,196
	pp2 infested	-,0889	,2135	,678	-,515	,337
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	P. purpurea PP1 + Cs control	-,1500	,2078	,473	-,565
P. purpurea PP2 + Cs control		-,0700	,2078	,737	-,485	,345
P. purpurea PP1 in infested soil for 10 wks + C. sativa		,0000	,2078	1,000	-,415	,415
PP1 control		-,2375	,2204	,285	-,678	,203
PP2 control		-,2000	,2289	,386	-,657	,257
PP1 infested		-,6222*	,2135	,005	-1,049	-,196
pp2 infested		-,0889	,2135	,678	-,515	,337
PP1 control		P. purpurea PP1 + Cs control	,0875	,2204	,693	-,353
	P. purpurea PP2 + Cs control	,1675	,2204	,450	-,273	,608
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,2375	,2204	,285	-,203	,678
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,2375	,2204	,285	-,203	,678
	PP2 control	,0375	,2404	,877	-,443	,518
	PP1 infested	-,3847	,2257	,093	-,836	,066
	pp2 infested	,1486	,2257	,513	-,302	,599
	PP2 control	P. purpurea PP1 + Cs control	,0500	,2289	,828	-,407
P. purpurea PP2 + Cs control		,1300	,2289	,572	-,327	,587
P. purpurea PP1 in infested soil for 10 wks + C. sativa		,2000	,2289	,386	-,257	,657
P. purpurea PP2 in infested soil for 10 wks + C. sativa		,2000	,2289	,386	-,257	,657
PP1 control		-,0375	,2404	,877	-,518	,443
PP1 infested		-,4222*	,2341	,076	-,890	,045
pp2 infested		,1111	,2341	,637	-,356	,579
PP1 infested		P. purpurea PP1 + Cs control	,4722*	,2135	,030	,046
	P. purpurea PP2 + Cs control	,5522*	,2135	,012	,126	,979
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,6222*	,2135	,005	,196	1,049
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,6222*	,2135	,005	,196	1,049
	PP1 control	,3847	,2257	,093	-,066	,836
	PP2 control	,4222*	,2341	,076	-,045	,890
	pp2 infested	,5333*	,2190	,018	,096	,971
	pp2 infested	P. purpurea PP1 + Cs control	-,0611	,2135	,776	-,487
P. purpurea PP2 + Cs control		,0189	,2135	,930	-,407	,445
P. purpurea PP1 in infested soil for 10 wks + C. sativa		,0889	,2135	,678	-,337	,515
P. purpurea PP2 in infested soil for 10 wks + C. sativa		,0889	,2135	,678	-,337	,515
PP1 control		-,1486	,2257	,513	-,599	,302
PP2 control		-,1111	,2341	,637	-,579	,356
PP1 infested		-,5333*	,2190	,018	-,971	-,096

*. A diferença média é significativa no nível 0.05.

I.III.VI. Analysis of variance of root evaluation of *Phlomis purpurea* under four different conditions: C1.1 and C1.2= Non-Infested (NI); C2.1 and C2.2= NI together with *Castanea sativa*; C3.1 and C3.2= In pre-infested soil; C4.1 and C4.2= In pre-infested soil together with *C. sativa*

Plant name		Descritivos ^a		Estadística	Erro Padrão
Avaliação radicular	C. sativa control (in a pot left with soil for 10 weeks)	Média		3,363	,0960
		95% Intervalo de Confiança para Média	Limite inferior	,173	
			Limite superior	,607	
		5% da média aparada		,378	
		Mediana		,300	
		Variância		,092	
		Desvio Padrão		,3035	
		Mínimo		,0	
		Máximo		1,0	
		Intervalo		1,0	
		Intervalo interquartil		,3	
		Assimetria		,885	,687
		Curtose		,664	1,334
				3,800	,1333
				3,498	
				4,102	
				3,833	
				4,000	
				,173	
				,4216	
		3,0			
		4,0			
		1,0			
		,3			
		-1,779	,687		
		1,406	1,334		
		,900	,1619		
		,534			
		1,266			
		,889			
		1,000			
		,262			
		,5121			
		,3			
		1,7			
		1,4			
		,7			
		,484	,687		
		-7,53	1,334		
		1,900	,4933		
		,784			
		3,016			
		1,861			
		1,500			
		2,433			
		1,5599			
		,5			
		4,0			
		3,5			
		3,5			
		,643	,687		
		-1,687	1,334		
		,450	,0992		
		,226			
		,974			
		,444			
		,500			
		,098			
		,3136			
		,0			
		1,0			
		1,0			
		,5			
		,041	,687		
		-,223	1,334		
		,170	,0883		
		,570			
		,272			
		,500			
		,078			
		,2791			
		,0			
		,7			
		,7			
		,6			
		-,458	,687		
		-1,421	1,334		
		,300	,0869		
		1,103			
		,497			
		,294			
		,400			
		,076			
		,2749			
		,0			
		,7			
		,7			
		,6			
		-,080	,687		
		-1,877	1,334		
		,300	,0919		
		,092			
		,508			
		,294			
		,300			
		,084			
		,2906			
		,0			
		,7			
		,7			
		,6			
		-,204	,687		
		-1,683	1,334		
		,538	,1295		
		,231			
		,844			
		,542			
		,500			
		1,34			
		,3662			
		,0			
		1,0			
		1,0			
		,6			
		-,043	,752		
		-1,366	1,481		
		,500	,2225		
		-,046			
		1,046			
		,472			
		,300			
		,347			
		,5888			
		,0			
		1,5			
		1,5			
		1,0			
		,857	,794		
		-,534	1,587		
		,923	,3231		
		1,77			
		1,667			
		,886			
		,700			
		,939			
		,9692			
		,0			
		2,5			
		2,5			
		1,6			
		1,023	,717		
		-,279	1,400		
		,389	,0807		
		,203			
		,676			
		,393			
		,500			
		,059			
		,2421			
		,0			
		,7			
		,7			
		,4			
		-,921	,717		
		-,210	1,400		

a. Avaliação radicular é constante quando Plant name = Castanea sativa inoculated directly. Foi omitida.

I.III.VII. Comparison of means of root evaluation of *Castanea sativa* under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously and aerial evaluation of *Phlomis purpurea* under four different conditions: C1.1 and C1.2= Non-Infested (NI); C2.1 and C2.2= NI together with *Castanea sativa*; C3.1 and C3.2= In pre-infested soil; C4.1 and 4.2= In pre-infested soil together with *C. sativa*.

I.III.VIII. Pearson's correlation between aerial and radicular evaluation of *Castanea sativa*.

Correlações

		Avaliação aérea	Avaliação radicular
Avaliação aérea	Correlação de Pearson	1	,589**
	Sig. (2 extremidades)		,000
	N	73	73
Avaliação radicular	Correlação de Pearson	,589**	1
	Sig. (2 extremidades)	,000	
	N	73	73

**. A correlação é significativa no nível 0,01 (2 extremidades).

I.III.IX. Analysis of variance for weight of aerial part of *Castanea sativa* under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously.

Comparações múltiplas

Variável dependente: Peso parte aérea

DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Castanea sativa inoculated directly	C. sativa control (in a pot left with soil for 10 weeks)	-2,1200 [*]	,5574	,000	-3,243	-,997
	C. sativa in infested soil (soil was infested 10 weeks before)	-,8300	,5574	,143	-1,953	,293
	C. sativa + P. purpurea that was left for 10 weeks before	-1,8300 [*]	,5574	,002	-2,953	-,707
	C. sativa + P. purpurea inoculated for 10 weeks	-1,0400	,5574	,069	-2,163	,083
C. sativa control (in a pot left with soil for 10 weeks)	Castanea sativa inoculated directly	2,1200 [*]	,5574	,000	,997	3,243
	C. sativa in infested soil (soil was infested 10 weeks before)	1,2900 [*]	,5574	,025	,167	2,413
	C. sativa + P. purpurea that was left for 10 weeks before	,2900	,5574	,605	-,833	1,413
	C. sativa + P. purpurea inoculated for 10 weeks	1,0800	,5574	,059	-,043	2,203
C. sativa in infested soil (soil was infested 10 weeks before)	Castanea sativa inoculated directly	,8300	,5574	,143	-,293	1,953
	C. sativa control (in a pot left with soil for 10 weeks)	-1,2900 [*]	,5574	,025	-2,413	-,167
	C. sativa + P. purpurea that was left for 10 weeks before	-1,0000	,5574	,080	-2,123	,123
	C. sativa + P. purpurea inoculated for 10 weeks	-,2100	,5574	,708	-1,333	,913
C. sativa + P. purpurea that was left for 10 weeks before	Castanea sativa inoculated directly	1,8300 [*]	,5574	,002	,707	2,953
	C. sativa control (in a pot left with soil for 10 weeks)	-,2900	,5574	,605	-1,413	,833
	C. sativa in infested soil (soil was infested 10 weeks before)	1,0000	,5574	,080	-,123	2,123
	C. sativa + P. purpurea inoculated for 10 weeks	,7900	,5574	,163	-,333	1,913
C. sativa + P. purpurea inoculated for 10 weeks	Castanea sativa inoculated directly	1,0400	,5574	,069	-,083	2,163
	C. sativa control (in a pot left with soil for 10 weeks)	-1,0800	,5574	,059	-2,203	,043
	C. sativa in infested soil (soil was infested 10 weeks before)	,2100	,5574	,708	-,913	1,333
	C. sativa + P. purpurea that was left for 10 weeks before	-,7900	,5574	,163	-1,913	,333

*. A diferença média é significativa no nível 0,05.

I.III.X. Comparison of means of **weight of aerial part** of *Castanea sativa* under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5: Planted and infested simultaneously

Descritivos			Estadística	Erro Padrão	
Plant name					
Peso parte aérea Castanea sativa inoculated directly	Média		,460	,1384	
	95% Intervalo de Confiança para Média	Limite inferior	,147		
		Limite superior	,773		
	5% da média aparada		,439		
	Mediana		,350		
	Variância		,192		
	Desvio Padrão		4377		
	Mínimo		,0		
	Máximo		1,3		
	Intervalo		1,3		
	Intervalo interquartil		,7		
	Assimetria		,834	,687	
	Curtose		-,186	1,334	
	Média		2,580	,5998	
	C. sativa control (In a pot left with soil for 10 weeks)	95% Intervalo de Confiança para Média	Limite inferior	1,223	
Limite superior			3,937		
5% da média aparada			2,556		
Mediana			2,350		
Variância			3,597		
Desvio Padrão			1,8967		
Mínimo			,0		
Máximo			5,6		
Intervalo			5,6		
Intervalo interquartil			3,2		
Assimetria			,413	,687	
Curtose			-,895	1,334	
Média			1,290	,3644	
C. sativa in infested soil (soil was infested 10 weeks before)		95% Intervalo de Confiança para Média	Limite inferior	,466	
			Limite superior	2,114	
	5% da média aparada		1,233		
	Mediana		1,100		
	Variância		1,328		
	Desvio Padrão		1,1522		
	Mínimo		,0		
	Máximo		3,6		
	Intervalo		3,6		
	Intervalo interquartil		1,4		
	Assimetria		,993	,687	
	Curtose		,560	1,334	
	Média		2,290	,4157	
	C. sativa + P. purpurea that was left for 10 weeks before	95% Intervalo de Confiança para Média	Limite inferior	1,350	
			Limite superior	3,230	
5% da média aparada			2,283		
Mediana			2,250		
Variância			1,728		
Desvio Padrão			1,3144		
Mínimo			,5		
Máximo			4,2		
Intervalo			3,7		
Intervalo interquartil			2,3		
Assimetria			,295	,687	
Curtose			-,232	1,334	
Média			1,500	,3040	
C. sativa + P. purpurea inoculated for 10 weeks		95% Intervalo de Confiança para Média	Limite inferior	,812	
			Limite superior	2,188	
	5% da média aparada		1,467		
	Mediana		1,550		
	Variância		,924		
	Desvio Padrão		,9615		
	Mínimo		,4		
	Máximo		3,2		
	Intervalo		2,8		
	Intervalo interquartil		1,8		
	Assimetria		,348	,687	
	Curtose		-,991	1,334	

I.III.XI. Analysis of variance for weight of principal root, of *Castanea sativa* under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously.

Comparações múltiplas

Variável dependente: Peso raiz principal
DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Castanea sativa inoculated directly	C. sativa control (in a pot left with soil for 10 weeks)	,8800*	,2618	,002	-1,407	-,353
	C. sativa in infested soil (soil was infested 10 weeks before)	-,3800	,2618	,154	-,907	,147
	C. sativa + P. purpurea that was left for 10 weeks before	-,7800*	,2618	,005	-1,307	-,253
	C. sativa + P. purpurea inoculated for 10 weeks	-,4400	,2618	,100	-,967	,087
C. sativa control (in a pot left with soil for 10 weeks)	Castanea sativa inoculated directly	,8800*	,2618	,002	,353	1,407
	C. sativa in infested soil (soil was infested 10 weeks before)	,5000	,2618	,062	-,027	1,027
	C. sativa + P. purpurea that was left for 10 weeks before	,1000	,2618	,704	-,427	,627
	C. sativa + P. purpurea inoculated for 10 weeks	,4400	,2618	,100	-,087	,967
C. sativa in infested soil (soil was infested 10 weeks before)	Castanea sativa inoculated directly	-,3800	,2618	,154	-,147	,907
	C. sativa control (in a pot left with soil for 10 weeks)	-,5000	,2618	,062	-1,027	,027
	C. sativa + P. purpurea that was left for 10 weeks before	-,4000	,2618	,133	-,927	,127
	C. sativa + P. purpurea inoculated for 10 weeks	-,0600	,2618	,820	-,587	,467
C. sativa + P. purpurea that was left for 10 weeks before	Castanea sativa inoculated directly	,7800*	,2618	,005	,253	1,307
	C. sativa control (in a pot left with soil for 10 weeks)	-,1000	,2618	,704	-,627	,427
	C. sativa in infested soil (soil was infested 10 weeks before)	,4000	,2618	,133	-,127	,927
	C. sativa + P. purpurea inoculated for 10 weeks	,3400	,2618	,201	-,187	,867
C. sativa + P. purpurea inoculated for 10 weeks	Castanea sativa inoculated directly	,4400	,2618	,100	-,087	,967
	C. sativa control (in a pot left with soil for 10 weeks)	-,4400	,2618	,100	-,967	,087
	C. sativa in infested soil (soil was infested 10 weeks before)	,0600	,2618	,820	-,467	,587
	C. sativa + P. purpurea that was left for 10 weeks before	-,3400	,2618	,201	-,867	,187

* A diferença média é significativa no nível 0.05.

I.III.XII. Comparison of means of weight of principal root of *Castanea sativa* under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously

Descritivos			Estadística	Erro Padrão			
Plant name							
Peso raiz principal	Castanea sativa inoculated directly	Média	,860	,1097			
		95% Intervalo de Confiança para Média	Limite inferior Limite superior	,612 1,108			
		5% da média aparada		,861			
		Mediana		,700			
		Variância		,120			
		Desvio Padrão		,3471			
		Mínimo		,3			
		Máximo		1,4			
		Intervalo		1,1			
		Intervalo interquartil		,5			
		Assimetria		,202	,687		
		Curiose		-1,809	1,334		
		C. sativa control (in a pot left with soil for 10 weeks)		Média	1,740	,1231	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	1,462 2,018	
				5% da média aparada		1,733	
Mediana				1,550			
Variância				,152			
Desvio Padrão				,3893			
Mínimo				1,3			
Máximo				2,3			
Intervalo				1,0			
Intervalo interquartil				,8			
Assimetria				,456	,687		
Curiose				-1,834	1,334		
C. sativa in infested soil (soil was infested 10 weeks before)				Média	1,240	,2061	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,774 1,706	
				5% da média aparada		1,194	
		Mediana		1,100			
		Variância		,425			
		Desvio Padrão		,6518			
		Mínimo		,5			
		Máximo		2,8			
		Intervalo		2,3			
		Intervalo interquartil		,8			
		Assimetria		1,616	,687		
		Curiose		3,377	1,334		
		C. sativa + P. purpurea that was left for 10 weeks before		Média	1,640	,2884	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,988 2,292	
				5% da média aparada		1,633	
Mediana				1,650			
Variância				,832			
Desvio Padrão				,9119			
Mínimo				,5			
Máximo				2,9			
Intervalo				2,4			
Intervalo interquartil				2,0			
Assimetria				-0,078	,687		
Curiose				-1,630	1,334		
C. sativa + P. purpurea inoculated for 10 weeks				Média	1,300	,1358	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,993 1,607	
				5% da média aparada		1,283	
		Mediana		1,250			
		Variância		,184			
		Desvio Padrão		,4295			
		Mínimo		,7			
		Máximo		2,2			
		Intervalo		1,5			
		Intervalo interquartil		,6			
		Assimetria		,757	,687		
		Curiose		1,218	1,334		

I.III.XIII. Analysis of variance for weight of secondary root, of *Castanea sativa* under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously

Comparações múltiplas

Variável dependente: Peso raiz secundária
DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Castanea sativa inoculated directly	C. sativa control (in a pot left with soil for 10 weeks)	-1,0700*	,3547	,004	-1,784	-,356
	C. sativa in infested soil (soil was infested 10 weeks before)	-,2040	,3547	,568	-,918	,510
	C. sativa + <i>P. purpurea</i> that was left for 10 weeks before	-,7200*	,3547	,048	-1,434	-,006
	C. sativa + <i>P. purpurea</i> inoculated for 10 weeks	-,2200	,3547	,538	-,934	,494
C. sativa control (in a pot left with soil for 10 weeks)	Castanea sativa inoculated directly	1,0700*	,3547	,004	,356	1,784
	C. sativa in infested soil (soil was infested 10 weeks before)	,8660*	,3547	,019	,152	1,580
	C. sativa + <i>P. purpurea</i> that was left for 10 weeks before	,3500	,3547	,329	-,364	1,064
	C. sativa + <i>P. purpurea</i> inoculated for 10 weeks	,8500*	,3547	,021	,136	1,564
C. sativa in infested soil (soil was infested 10 weeks before)	Castanea sativa inoculated directly	,2040	,3547	,568	-,510	,918
	C. sativa control (in a pot left with soil for 10 weeks)	-,8660*	,3547	,019	-1,580	-,152
	C. sativa + <i>P. purpurea</i> that was left for 10 weeks before	-,5160	,3547	,153	-1,230	,198
	C. sativa + <i>P. purpurea</i> inoculated for 10 weeks	-,0160	,3547	,964	-,730	,698
C. sativa + <i>P. purpurea</i> that was left for 10 weeks before	Castanea sativa inoculated directly	,7200*	,3547	,048	,006	1,434
	C. sativa control (in a pot left with soil for 10 weeks)	-,3500	,3547	,329	-1,064	,364
	C. sativa in infested soil (soil was infested 10 weeks before)	,5160	,3547	,153	-,198	1,230
	C. sativa + <i>P. purpurea</i> inoculated for 10 weeks	,5000	,3547	,165	-,214	1,214
C. sativa + <i>P. purpurea</i> inoculated for 10 weeks	Castanea sativa inoculated directly	,2200	,3547	,538	-,494	,934
	C. sativa control (in a pot left with soil for 10 weeks)	-,8500*	,3547	,021	-1,564	-,136
	C. sativa in infested soil (soil was infested 10 weeks before)	,0160	,3547	,964	-,698	,730
	C. sativa + <i>P. purpurea</i> that was left for 10 weeks before	-,5000	,3547	,165	-1,214	,214

*. A diferença média é significativa no nível 0.05.

I.III.XIV. Comparison of means of weight of secondary root of *Castanea sativa* under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously

Descritivos			Estatística	Erro Padrão			
Plant name							
Peso raiz secundária	Castanea sativa inoculated directly	Média	,120	,0467			
		95% Intervalo de Confiança para Média	Limite inferior Limite superior	,014 ,226			
		5% da média aparada		,111			
		Mediana		,050			
		Variância		,022			
		Desvio Padrão		,1476			
		Mínimo		,0			
		Máximo		,4			
		Intervalo		,4			
		Intervalo interquartil		,2			
		Assimetria		,871	,687		
		Curtose		-5,513	1,334		
		C. sativa control (in a pot left with soil for 10 weeks)		Média	1,190	,4598	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,150 2,230	
				5% da média aparada		1,039	
Mediana				,750			
Variância				2,114			
Desvio Padrão				1,4541			
Mínimo				,1			
Máximo				5,0			
Intervalo				4,9			
Intervalo interquartil				1,2			
Assimetria				2,350	,687		
Curtose				6,128	1,334		
C. sativa in infested soil (soil was infested 10 weeks before)				Média	,324	,1050	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,087 ,561	
				5% da média aparada		,304	
		Mediana		,250			
		Variância		,110			
		Desvio Padrão		,3320			
		Mínimo		,0			
		Máximo		1,0			
		Intervalo		1,0			
		Intervalo interquartil		,5			
		Assimetria		1,002	,687		
		Curtose		,353	1,334		
		C. sativa + P. purpurea that was left for 10 weeks before		Média	,840	,2914	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,181 1,499	
				5% da média aparada		,756	
Mediana				,600			
Variância				,849			
Desvio Padrão				,9216			
Mínimo				,1			
Máximo				3,1			
Intervalo				3,0			
Intervalo interquartil				,9			
Assimetria				1,963	,687		
Curtose				3,939	1,334		
C. sativa + P. purpurea inoculated for 10 weeks				Média	,340	,0702	
				95% Intervalo de Confiança para Média	Limite inferior Limite superior	,181 ,499	
				5% da média aparada		,339	
		Mediana		,400			
		Variância		,049			
		Desvio Padrão		,2221			
		Mínimo		,0			
		Máximo		,7			
		Intervalo		,7			
		Intervalo interquartil		,4			
		Assimetria		-.024	,687		
		Curtose		-.625	1,334		

I.III.XV. Analysis of variance for root length, of *Castanea sativa* under five different conditions: C1: NI; C2: NI together with *P. purpurea* pre-planted; C3: In pre-infested soil; C4: In pre-infested soil together with *P. purpurea*; C5: Planted and infested simultaneously.

Comparações múltiplas

Variável dependente: Root lenght (cm)

DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Castanea sativa inoculated directly	C. sativa control (in a pot left with soil for 10 weeks)	-3,2500	2,5442	,208	-8,374	1,874
	C. sativa in infested soil (soil was infested 10 weeks before)	2,7000	2,5442	,294	-2,424	7,824
	C. sativa + P. purpurea that was left for 10 weeks before	-2,7500	2,5442	,285	-7,874	2,374
	C. sativa + P. purpurea inoculated for 10 weeks	1,3500	2,5442	,598	-3,774	6,474
C. sativa control (in a pot left with soil for 10 weeks)	Castanea sativa inoculated directly	3,2500	2,5442	,208	-1,874	8,374
	C. sativa in infested soil (soil was infested 10 weeks before)	5,9500*	2,5442	,024	,826	11,074
	C. sativa + P. purpurea that was left for 10 weeks before	,5000	2,5442	,845	-4,624	5,624
	C. sativa + P. purpurea inoculated for 10 weeks	4,6000	2,5442	,077	-,524	9,724
C. sativa in infested soil (soil was infested 10 weeks before)	Castanea sativa inoculated directly	-2,7000	2,5442	,294	-7,824	2,424
	C. sativa control (in a pot left with soil for 10 weeks)	-5,9500*	2,5442	,024	-11,074	-,826
	C. sativa + P. purpurea that was left for 10 weeks before	-5,4500*	2,5442	,038	-10,574	-,326
	C. sativa + P. purpurea inoculated for 10 weeks	-1,3500	2,5442	,598	-6,474	3,774
C. sativa + P. purpurea that was left for 10 weeks before	Castanea sativa inoculated directly	2,7500	2,5442	,285	-2,374	7,874
	C. sativa control (in a pot left with soil for 10 weeks)	-,5000	2,5442	,845	-5,624	4,624
	C. sativa in infested soil (soil was infested 10 weeks before)	5,4500*	2,5442	,038	,326	10,574
	C. sativa + P. purpurea inoculated for 10 weeks	4,1000	2,5442	,114	-1,024	9,224
C. sativa + P. purpurea inoculated for 10 weeks	Castanea sativa inoculated directly	-1,3500	2,5442	,598	-6,474	3,774
	C. sativa control (in a pot left with soil for 10 weeks)	-4,6000	2,5442	,077	-9,724	,524
	C. sativa in infested soil (soil was infested 10 weeks before)	1,3500	2,5442	,598	-3,774	6,474
	C. sativa + P. purpurea that was left for 10 weeks before	-4,1000	2,5442	,114	-9,224	1,024

*. A diferença média é significativa no nível 0.05.

I.III.XVI. Comparison of means of root length of **Castanea sativa** under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously

Descritivos				Estadística	Erro Padrão	
Plant name						
Root lenght (cm) Castanea sativa inoculated directely	Média			22,000	1,7321	
	95% Intervalo de Confiança para Média	Limite inferior		18,082		
		Limite superior		25,918		
	5% da média aparada			22,361		
	Mediana			24,750		
	Variância			30,000		
	Desvio Padrão			5,4772		
	Mínimo			10,5		
	Máximo			27,0		
	Intervalo			16,5		
	Intervalo interquartil			7,0		
	Assimetria			-1,413	,687	
	Curtose			,961	1,334	
	C. sativa control (in a pot left with soil for 10 weeks)	Média			25,250	1,4534
		95% Intervalo de Confiança para Média	Limite inferior		21,962	
		Limite superior		28,538		
5% da média aparada				24,861		
Mediana				24,500		
Variância				21,125		
Desvio Padrão				4,5962		
Mínimo				20,5		
Máximo				37,0		
Intervalo				16,5		
Intervalo interquartil				3,4		
Assimetria				2,048	,687	
Curtose				5,407	1,334	
C. sativa in infested soil (soil was infested 10 weeks before)		Média			19,300	1,5691
		95% Intervalo de Confiança para Média	Limite inferior		15,750	
		Limite superior		22,850		
	5% da média aparada			19,111		
	Mediana			18,250		
	Variância			24,622		
	Desvio Padrão			4,9621		
	Mínimo			13,0		
	Máximo			29,0		
	Intervalo			16,0		
	Intervalo interquartil			7,4		
	Assimetria			,664	,687	
	Curtose			,002	1,334	
	C. sativa + P. purpurea that was left for 10 weeks before	Média			24,750	2,7256
		95% Intervalo de Confiança para Média	Limite inferior		18,584	
		Limite superior		30,916		
5% da média aparada				24,306		
Mediana				22,500		
Variância				74,292		
Desvio Padrão				8,6193		
Mínimo				16,0		
Máximo				41,5		
Intervalo				25,5		
Intervalo interquartil				12,8		
Assimetria				1,074	,687	
Curtose				,206	1,334	
C. sativa + P. purpurea inoculated for 10 weeks		Média			20,650	1,0854
		95% Intervalo de Confiança para Média	Limite inferior		18,195	
		Limite superior		23,105		
	5% da média aparada			20,444		
	Mediana			20,000		
	Variância			11,781		
	Desvio Padrão			3,4323		
	Mínimo			16,0		
	Máximo			29,0		
	Intervalo			13,0		
	Intervalo interquartil			3,1		
	Assimetria			1,605	,687	
	Curtose			4,109	1,334	

I.III.XVII. Analysis of variance for percentage of *Phytophthora cinnamomi* isolation from soil, where ***Castanea sativa*** was planted under five different conditions: C1= Non-Infested (NI); C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously

Comparações múltiplas

Variável dependente: % recuperação Pc solo

DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Castanea sativa inoculated directly	C. sativa control (in a pot left with soil for 10 weeks)	9,8000*	,6710	,000	8,449	11,151
	C. sativa in infested soil (soil was infested 10 weeks before)	8,0000*	,6710	,000	6,649	9,351
	C. sativa + P. purpurea that was left for 10 weeks before	9,8000*	,6710	,000	8,449	11,151
	C. sativa + P. purpurea inoculated for 10 weeks	9,5000*	,6710	,000	8,149	10,851
C. sativa control (in a pot left with soil for 10 weeks)	Castanea sativa inoculated directly	-9,8000*	,6710	,000	-11,151	-8,449
	C. sativa in infested soil (soil was infested 10 weeks before)	-1,8000*	,6710	,010	-3,151	-,449
	C. sativa + P. purpurea that was left for 10 weeks before	,0000	,6710	1,000	-1,351	1,351
	C. sativa + P. purpurea inoculated for 10 weeks	-,3000	,6710	,657	-1,651	1,051
C. sativa in infested soil (soil was infested 10 weeks before)	Castanea sativa inoculated directly	-8,0000*	,6710	,000	-9,351	-6,649
	C. sativa control (in a pot left with soil for 10 weeks)	1,8000*	,6710	,010	,449	3,151
	C. sativa + P. purpurea that was left for 10 weeks before	1,8000*	,6710	,010	,449	3,151
	C. sativa + P. purpurea inoculated for 10 weeks	1,5000*	,6710	,030	,149	2,851
C. sativa + P. purpurea that was left for 10 weeks before	Castanea sativa inoculated directly	-9,8000*	,6710	,000	-11,151	-8,449
	C. sativa control (in a pot left with soil for 10 weeks)	,0000	,6710	1,000	-1,351	1,351
	C. sativa in infested soil (soil was infested 10 weeks before)	-1,8000*	,6710	,010	-3,151	-,449
	C. sativa + P. purpurea inoculated for 10 weeks	-,3000	,6710	,657	-1,651	1,051
C. sativa + P. purpurea inoculated for 10 weeks	Castanea sativa inoculated directly	-9,5000*	,6710	,000	-10,851	-8,149
	C. sativa control (in a pot left with soil for 10 weeks)	,3000	,6710	,657	-1,051	1,651
	C. sativa in infested soil (soil was infested 10 weeks before)	-1,5000*	,6710	,030	-2,851	-,149
	C. sativa + P. purpurea that was left for 10 weeks before	,3000	,6710	,657	-1,051	1,651

*. A diferença média é significativa no nível 0.05.

I.III.XVIII. Comparison of means of percentage of *Phytophthora cinnamomi* isolation from soil, where **Castanea sativa** was planted under five different conditions: C1= Non-Infested (NI); C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously.

Descritivos^{a,b}

Plant name				Estatística	Erro Padrão		
% recuperação Pc solo	Castanea sativa inoculated directly	Média		9,800	1,0198		
		95% Intervalo de Confiança para Média	Limite inferior	7,493			
			Limite superior	12,107			
		5% da média aparada		9,889			
		Mediana		10,000			
		Variância		10,400			
		Desvio Padrão		3,2249			
		Mínimo		3,0			
		Máximo		15,0			
		Intervalo		12,0			
		Intervalo interquartil		3,0			
		Assimetria		-,670	,687		
		Curtose		1,791	1,334		
		C. sativa in infested soil (soil was infested 10 weeks before)		Média		1,800	,2494
				95% Intervalo de Confiança para Média	Limite inferior	1,236	
					Limite superior	2,364	
				5% da média aparada		1,778	
				Mediana		2,000	
				Variância		,622	
Desvio Padrão				,7888			
Mínimo				1,0			
Máximo				3,0			
Intervalo				2,0			
Intervalo interquartil				1,3			
Assimetria				,407	,687		
Curtose				-1,074	1,334		
C. sativa + P. purpurea inoculated for 10 weeks				Média		,300	,1528
				95% Intervalo de Confiança para Média	Limite inferior	-,046	
					Limite superior	,646	
				5% da média aparada		,278	
				Mediana		,000	
				Variância		,233	
		Desvio Padrão		,4830			
		Mínimo		,0			
		Máximo		1,0			
		Intervalo		1,0			
		Intervalo interquartil		1,0			
		Assimetria		1,035	,687		
		Curtose		-1,224	1,334		

a. % recuperação Pc solo é constante quando Plant name = C. sativa control (in a pot left with soil for 10 weeks). Foi omitida.

b. % recuperação Pc solo é constante quando Plant name = C. sativa + P. purpurea that was left for 10 weeks before. Foi omitida.

I.III.XIX. Comparison of means of percentage of *Phytophthora cinnamomi* isolation from soil, where ***Phomopsis purpurea*** under four different conditions: C1.1 and C1.2= Control, Non-Infested (NI); C2.1 and C2.2= NI together with *Castanea sativa*; C3.1 and C3.2= In pre-infested soil; C4.1 and 4.2= In pre-infested soil together with *C. sativa*

Descritivos^{a,b,c,d,e}

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- a. Não há casos válidos para % recuperação Pc solo quando Plant name = 6,000. As estatísticas não podem ser calculadas para esse nível.
- b. % recuperação Pc solo é constante quando Plant name = PP1 control. Foi omitida.
- c. % recuperação Pc solo é constante quando Plant name = PP2 control. Foi omitida.
- d. % recuperação Pc solo é constante quando Plant name = PP1 infested. Foi omitida.
- e. % recuperação Pc solo é constante quando Plant name = pp2 infested. Foi omitida.

- a. There are no valid cases for the isolation of *Phytophthora cinnamomi* from soil when plant name=6,000. Statistics cannot be calculated.
- b. Percentage of isolation of *Phytophthora cinnamomi* from soil is constant when plant name=PP1 control. It was omitted.
- c. Percentage of isolation of *Phytophthora cinnamomi* from soil is constant when plant name=PP2 control. It was omitted.
- d. Percentage of isolation of *Phytophthora cinnamomi* from soil is constant when plant name=PP1infested. It was omitted.
- e. Percentage of isolation of *Phytophthora cinnamomi* from soil is constant when plant name=PP2 infested. It was omitted.

I.III.XX. Analysis of variance for percentage of *Phytophthora cinnamomi* isolation from roots, where ***Castanea sativa*** was planted under five different conditions: C1= Non-Infested (NI); C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously

Comparações múltiplas

Variável dependente: % recup P.c. raízes

DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Castanea sativa inoculated directly	C. sativa control (in a pot left with soil for 10 weeks)	100,0000*	,2656	,000	99,465	100,535
	C. sativa in infested soil (soil was infested 10 weeks before)	,0000	,2656	1,000	-,535	,535
	C. sativa + P. purpurea that was left for 10 weeks before	100,0000*	,2656	,000	99,465	100,535
	C. sativa + P. purpurea inoculated for 10 weeks	,4200	,2656	,121	-,115	,955
C. sativa control (in a pot left with soil for 10 weeks)	Castanea sativa inoculated directly	-100,0000*	,2656	,000	-100,535	-99,465
	C. sativa in infested soil (soil was infested 10 weeks before)	-100,0000*	,2656	,000	-100,535	-99,465
	C. sativa + P. purpurea that was left for 10 weeks before	,0000	,2656	1,000	-,535	,535
	C. sativa + P. purpurea inoculated for 10 weeks	-99,5800*	,2656	,000	-100,115	-99,045
C. sativa in infested soil (soil was infested 10 weeks before)	Castanea sativa inoculated directly	,0000	,2656	1,000	-,535	,535
	C. sativa control (in a pot left with soil for 10 weeks)	100,0000*	,2656	,000	99,465	100,535
	C. sativa + P. purpurea that was left for 10 weeks before	100,0000*	,2656	,000	99,465	100,535
	C. sativa + P. purpurea inoculated for 10 weeks	,4200	,2656	,121	-,115	,955
C. sativa + P. purpurea that was left for 10 weeks before	Castanea sativa inoculated directly	-100,0000*	,2656	,000	-100,535	-99,465
	C. sativa control (in a pot left with soil for 10 weeks)	,0000	,2656	1,000	-,535	,535
	C. sativa in infested soil (soil was infested 10 weeks before)	-100,0000*	,2656	,000	-100,535	-99,465
	C. sativa + P. purpurea inoculated for 10 weeks	-99,5800*	,2656	,000	-100,115	-99,045
C. sativa + P. purpurea inoculated for 10 weeks	Castanea sativa inoculated directly	-,4200	,2656	,121	-,955	,115
	C. sativa control (in a pot left with soil for 10 weeks)	99,5800*	,2656	,000	99,045	100,115
	C. sativa in infested soil (soil was infested 10 weeks before)	-,4200	,2656	,121	-,955	,115
	C. sativa + P. purpurea that was left for 10 weeks before	99,5800*	,2656	,000	99,045	100,115

*. A diferença média é significativa no nível 0.05.

I.III.XXI. Analysis of variance of root evaluation of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and 4.2: In pre-infested soil together with *C. sativa*

Comparações múltiplas

Variável dependente: % recup P.c. raízes
DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%		
					Limite inferior	Limite superior	
P. purpurea PP1 + Cs control	P. purpurea PP2 + Cs control	,0000	,1210	1,000	-,242	,242	
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,2300	,1210	,062	-,472	,012	
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0000	,1210	1,000	-,242	,242	
	PP1 control	,0000	,1284	1,000	-,256	,256	
	PP2 control	,0000	,1334	1,000	-,266	,266	
	PP1 infested	,0000	,1244	1,000	-,248	,248	
	pp2 infested	,0000	,1244	1,000	-,248	,248	
	P. purpurea PP2 + Cs control	P. purpurea PP1 + Cs control	,0000	,1210	1,000	-,242	,242
P. purpurea PP2 + Cs control	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,2300	,1210	,062	-,472	,012	
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0000	,1210	1,000	-,242	,242	
	PP1 control	,0000	,1284	1,000	-,256	,256	
	PP2 control	,0000	,1334	1,000	-,266	,266	
	PP1 infested	,0000	,1244	1,000	-,248	,248	
	pp2 infested	,0000	,1244	1,000	-,248	,248	
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP1 + Cs control	-,2300	,1210	,062	-,012	,472
	P. purpurea PP2 + Cs control	P. purpurea PP2 + Cs control	-,2300	,1210	,062	-,012	,472
P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,2300	,1210	,062	-,012	,472	
	PP1 control	-,2300	,1284	,078	-,026	,486	
	PP2 control	-,2300	,1334	,089	-,036	,496	
	PP1 infested	-,2300	,1244	,069	-,018	,478	
	pp2 infested	-,2300	,1244	,069	-,018	,478	
	P. purpurea PP1 + Cs control	P. purpurea PP1 + Cs control	,0000	,1210	1,000	-,242	,242
	P. purpurea PP2 + Cs control	P. purpurea PP2 + Cs control	,0000	,1210	1,000	-,242	,242
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,2300	,1210	,062	-,472	,012
PP1 control	PP1 control	,0000	,1284	1,000	-,256	,256	
	P. purpurea PP2 + Cs control	,0000	,1284	1,000	-,256	,256	
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,2300	,1284	,078	-,486	,026	
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0000	,1284	1,000	-,256	,256	
	PP2 control	,0000	,1401	1,000	-,280	,280	
	PP1 infested	,0000	,1315	1,000	-,263	,263	
	pp2 infested	,0000	,1315	1,000	-,263	,263	
	P. purpurea PP1 + Cs control	P. purpurea PP1 + Cs control	,0000	,1334	1,000	-,266	,266
PP2 control	P. purpurea PP2 + Cs control	,0000	,1334	1,000	-,266	,266	
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,2300	,1334	,089	-,496	,036	
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0000	,1334	1,000	-,266	,266	
	PP1 control	,0000	,1401	1,000	-,280	,280	
	PP1 infested	,0000	,1364	1,000	-,272	,272	
	pp2 infested	,0000	,1364	1,000	-,272	,272	
	P. purpurea PP1 + Cs control	P. purpurea PP1 + Cs control	,0000	,1244	1,000	-,248	,248
	P. purpurea PP2 + Cs control	P. purpurea PP2 + Cs control	,0000	,1244	1,000	-,248	,248
PP1 infested	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,2300	,1244	,069	-,478	,018	
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0000	,1244	1,000	-,248	,248	
	PP1 control	,0000	,1315	1,000	-,263	,263	
	PP2 control	,0000	,1364	1,000	-,272	,272	
	pp2 infested	,0000	,1276	1,000	-,255	,255	
	P. purpurea PP1 + Cs control	P. purpurea PP1 + Cs control	,0000	,1244	1,000	-,248	,248
	P. purpurea PP2 + Cs control	P. purpurea PP2 + Cs control	,0000	,1244	1,000	-,248	,248
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,2300	,1244	,069	-,478	,018
pp2 infested	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0000	,1244	1,000	-,248	,248	
	PP1 control	,0000	,1315	1,000	-,263	,263	
	PP2 control	,0000	,1364	1,000	-,272	,272	
	PP1 infested	,0000	,1276	1,000	-,255	,255	

I.III.XXII. Comparison of means of percentage of *Phytophthora cinnamomi* isolation from roots of *Castanea sativa* under five different conditions: C1= NI; C2= NI together with *P. purpurea* pre-planted; C3= In pre-infested soil; C4= In pre-infested soil together with *P. purpurea*; C5= Planted and infested simultaneously and *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and 4.2: In pre-infested soil together with *C. sativa*

Resumos de caso ^a		% recup P.c. raízes
Plant name Castanea sativa inoculated directly	1	100,0
	2	100,0
	3	100,0
	4	100,0
	5	100,0
	6	100,0
	7	100,0
	8	100,0
	9	100,0
	10	100,0
	Total	N Média Desvio Padrão
C. sativa control (in a pot left with soil for 10 weeks)	1	,0
	2	,0
	3	,0
	4	,0
	5	,0
	6	,0
	7	,0
	8	,0
	9	,0
	10	,0
	Total	N Média Desvio Padrão
C. sativa in infested soil (soil was infested 10 weeks before)	1	100,0
	2	100,0
	3	100,0
	4	100,0
	5	100,0
	6	100,0
	7	100,0
	8	100,0
	9	100,0
	10	100,0
	Total	N Média Desvio Padrão
C. sativa + P. purpurea that was left for 10 weeks before	1	,0
	2	,0
	3	,0
	4	,0
	5	,0
	6	,0
	7	,0
	8	,0
	9	,0
	10	,0
	Total	N Média Desvio Padrão
C. sativa + P. purpurea inoculated for 10 weeks	1	100,0
	2	100,0
	3	100,0
	4	100,0
	5	95,8
	6	100,0
	7	100,0
	8	100,0
	9	100,0
	10	100,0
	Total	N Média Desvio Padrão
P. purpurea PP1 + Cs control	1	,0
	2	,0
	3	,0
	4	,0
	5	,0
	6	,0
	7	,0
	8	,0
	9	,0
	10	,0
	Total	N Média Desvio Padrão
P. purpurea PP2 + Cs control	1	,0
	2	,0
	3	,0
	4	,0
	5	,0
	6	,0
	7	,0
	8	,0
	9	,0
	10	,0
	Total	N Média Desvio Padrão
P. purpurea PP1 in infested soil for 10 wks + C. sativa	1	2,3
	2	,0
	3	,0
	4	,0
	5	,0
	6	,0
	7	,0
	8	,0
	9	,0
	10	,0
	Total	N Média Desvio Padrão
P. purpurea PP2 in infested soil for 10 wks + C. sativa	1	,0
	2	,0
	3	,0
	4	,0
	5	,0
	6	,0
	7	,0
	8	,0
	9	,0
	10	,0
	Total	N Média Desvio Padrão
PP1 control	1	,0
	2	,0
	3	,0
	4	,0
	5	,0
	6	,0
	7	,0
	8	,0
Total	N Média Desvio Padrão	8 ,000 ,0000
PP2 control	1	,0
	2	,0
	Total	N Média Desvio Padrão
Total	N	,0000
	Média	1,00
	Desvio Padrão	29,981 45,9795

a. Limitado aos primeiros 100 casos.

I.III.XXIII. Analysis of variance of root length of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and C4.2: In pre-infested soil together with *C. sativa*

Comparações múltiplas

Variável dependente: Root lenght (cm)
DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
P. purpurea PP1 + Cs control	P. purpurea PP2 + Cs control	1,4000	3,1054	,654	-4,802	7,602
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-1,5000	3,1054	,631	-7,702	4,702
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-1,4000	3,1054	,654	-7,602	4,802
	PP1 control	4,3500	3,2938	,191	-2,228	10,928
	PP2 control	,8857	3,4220	,797	-5,949	7,720
	PP1 infested	-4,2889	3,1905	,184	-10,661	2,083
	pp2 infested	-2,7333	3,1905	,395	-9,105	3,639
P. purpurea PP2 + Cs control	P. purpurea PP1 + Cs control	-1,4000	3,1054	,654	-7,602	4,802
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-2,9000	3,1054	,354	-9,102	3,302
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-2,8000	3,1054	,371	-9,002	3,402
	PP1 control	2,9500	3,2938	,374	-3,628	9,528
	PP2 control	-,5143	3,4220	,881	-7,349	6,320
	PP1 infested	-5,6889	3,1905	,079	-12,061	,683
	pp2 infested	-4,1333	3,1905	,200	-10,505	2,239
P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP1 + Cs control	1,5000	3,1054	,631	-4,702	7,702
	P. purpurea PP2 + Cs control	2,9000	3,1054	,354	-3,302	9,102
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,1000	3,1054	,974	-6,102	6,302
	PP1 control	5,8500	3,2938	,080	-,728	12,428
	PP2 control	2,3857	3,4220	,488	-4,449	9,220
	PP1 infested	-2,7889	3,1905	,365	-9,161	3,583
	pp2 infested	-1,2333	3,1905	,700	-7,605	5,139
P. purpurea PP2 in infested soil for 10 wks + C. sativa	P. purpurea PP1 + Cs control	1,4000	3,1054	,654	-4,802	7,602
	P. purpurea PP2 + Cs control	2,8000	3,1054	,371	-3,402	9,002
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,1000	3,1054	,974	-6,302	6,102
	PP1 control	5,7500	3,2938	,086	-,828	12,328
	PP2 control	2,2857	3,4220	,507	-4,549	9,120
	PP1 infested	-2,8889	3,1905	,369	-9,261	3,483
	pp2 infested	-1,3333	3,1905	,677	-7,705	5,039
PP1 control	P. purpurea PP1 + Cs control	-4,3500	3,2938	,191	-10,928	2,228
	P. purpurea PP2 + Cs control	-2,9500	3,2938	,374	-9,528	3,628
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-5,8500	3,2938	,080	-12,428	,728
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-5,7500	3,2938	,086	-12,328	,828
	PP2 control	-3,4643	3,5938	,339	-10,642	3,713
	PP1 infested	-8,6389*	3,3742	,013	-15,378	-1,900
	pp2 infested	-7,0833*	3,3742	,040	-13,822	-,345
PP2 control	P. purpurea PP1 + Cs control	-,8857	3,4220	,797	-7,720	5,949
	P. purpurea PP2 + Cs control	,5143	3,4220	,881	-6,320	7,349
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-2,3857	3,4220	,488	-9,220	4,449
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-2,2857	3,4220	,507	-9,120	4,549
	PP1 control	3,4643	3,5938	,339	-3,713	10,642
	PP1 infested	-5,1746	3,4994	,144	-12,163	1,814
	pp2 infested	-3,6190	3,4994	,305	-10,608	3,370
PP1 infested	P. purpurea PP1 + Cs control	4,2889	3,1905	,184	-2,083	10,661
	P. purpurea PP2 + Cs control	5,6889	3,1905	,079	-,683	12,061
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	2,7889	3,1905	,385	-3,583	9,161
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	2,8889	3,1905	,369	-3,483	9,261
	PP1 control	8,6389*	3,3742	,013	1,900	15,378
	PP2 control	5,1746	3,4994	,144	-1,814	12,163
	pp2 infested	1,5556	3,2734	,636	-4,982	8,093
pp2 infested	P. purpurea PP1 + Cs control	2,7333	3,1905	,395	-3,639	9,105
	P. purpurea PP2 + Cs control	4,1333	3,1905	,200	-2,239	10,505
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	1,2333	3,1905	,700	-5,139	7,605
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	1,3333	3,1905	,677	-5,039	7,705
	PP1 control	7,0833*	3,3742	,040	,345	13,822
	PP2 control	3,6190	3,4994	,305	-3,370	10,608
	PP1 infested	-1,5556	3,2734	,636	-8,093	4,982

*. A diferença média é significativa no nível 0.05.

I.III.XXIV. Comparison of means of root length of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and C4.2: In pre-infested soil together with *C. sativa*

Descritivos			Estatística	Erro Padrão		
Plant name						
Root length (cm)	P. purpurea PP1 + Cs control	Média	30,600	1,6944		
		95% Intervalo de Confiança para Média	Limite inferior 26,767 Limite superior 34,433			
		5% da média aparada	30,389			
		Mediana	29,500			
		Variância	28,711			
		Desvio Padrão	5,3583			
		Mínimo	23,0			
		Máximo	42,0			
		Intervalo	19,0			
		Intervalo interquartil	7,5			
		Assimetria	,916	,687		
		Curtose	1,317	1,334		
		P. purpurea PP2 + Cs control	P. purpurea PP2 + Cs control	Média	29,200	1,7114
				95% Intervalo de Confiança para Média	Limite inferior 25,329 Limite superior 33,071	
5% da média aparada	29,111					
Mediana	29,000					
Variância	29,289					
Desvio Padrão	5,4119					
Mínimo	22,0					
Máximo	38,0					
Intervalo	16,0					
Intervalo interquartil	10,5					
Assimetria	,368			,687		
Curtose	-1,052			1,334		
P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP1 in infested soil for 10 wks + C. sativa			Média	32,100	1,6224
				95% Intervalo de Confiança para Média	Limite inferior 29,430 Limite superior 35,770	
		5% da média aparada	32,111			
		Mediana	32,000			
		Variância	26,322			
		Desvio Padrão	5,1305			
		Mínimo	24,0			
		Máximo	40,0			
		Intervalo	16,0			
		Intervalo interquartil	9,5			
		Assimetria	-,035	,687		
		Curtose	-,870	1,334		
		P. purpurea PP2 in infested soil for 10 wks + C. sativa	P. purpurea PP2 in infested soil for 10 wks + C. sativa	Média	32,000	1,9650
				95% Intervalo de Confiança para Média	Limite inferior 27,555 Limite superior 36,445	
5% da média aparada	31,833					
Mediana	30,500					
Variância	38,611					
Desvio Padrão	6,2138					
Mínimo	23,0					
Máximo	44,0					
Intervalo	21,0					
Intervalo interquartil	6,4					
Assimetria	,918			,687		
Curtose	,698			1,334		
PP1 control	PP1 control			Média	26,250	1,5440
				95% Intervalo de Confiança para Média	Limite inferior 22,599 Limite superior 29,901	
		5% da média aparada	25,944			
		Mediana	25,500			
		Variância	19,071			
		Desvio Padrão	4,3671			
		Mínimo	22,0			
		Máximo	36,0			
		Intervalo	14,0			
		Intervalo interquartil	4,3			
		Assimetria	1,847	,752		
		Curtose	4,067	1,481		
		PP2 control	PP2 control	Média	29,714	2,3270
				95% Intervalo de Confiança para Média	Limite inferior 24,020 Limite superior 35,408	
5% da média aparada	29,849					
Mediana	32,000					
Variância	37,905					
Desvio Padrão	6,1567					
Mínimo	20,0					
Máximo	37,0					
Intervalo	17,0					
Intervalo interquartil	11,0					
Assimetria	-,707			,794		
Curtose	-,776			1,587		
PP1 infested	PP1 infested			Média	34,889	3,5057
				95% Intervalo de Confiança para Média	Limite inferior 26,805 Limite superior 42,973	
		5% da média aparada	34,599			
		Mediana	32,000			
		Variância	110,611			
		Desvio Padrão	10,5172			
		Mínimo	23,0			
		Máximo	52,0			
		Intervalo	29,0			
		Intervalo interquartil	17,0			
		Assimetria	1,009	,717		
		Curtose	-,218	1,400		
		pp2 infested	pp2 infested	Média	33,333	3,2956
				95% Intervalo de Confiança para Média	Limite inferior 25,734 Limite superior 40,933	
5% da média aparada	33,259					
Mediana	31,000					
Variância	87,750					
Desvio Padrão	9,8869					
Mínimo	21,0					
Máximo	47,0					
Intervalo	26,0					
Intervalo interquartil	19,5					
Assimetria	,446			,717		
Curtose	-1,598			1,400		

I.III.XXV. Analysis of variance of aerial part weight of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and C4.2: In pre-infested soil together with *C. sativa*

Comparações múltiplas

Variável dependente: Peso parte aérea
DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
P. purpurea PP1 + Cs control	P. purpurea PP2 + Cs control	.9600	1,1624	.412	-1,361	3,281
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-.4600	1,1624	.694	-2,781	1,861
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-.4300	1,1624	.713	-2,751	1,891
	PP1 control	5,0350*	1,2329	.000	2,573	7,497
	PP2 control	4,4243*	1,2809	.001	1,866	6,982
	PP1 infested	2,2100	1,1942	.069	-.175	4,595
	pp2 infested	2,9767*	1,1942	.015	-.592	5,362
	P. purpurea PP2 + Cs control	-.9600	1,1624	.412	-3,281	1,361
P. purpurea PP2 + Cs control	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-1,4200	1,1624	.226	-3,741	.901
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-1,3900	1,1624	.236	-3,711	.931
	PP1 control	4,0750*	1,2329	.002	1,613	6,537
	PP2 control	3,4643*	1,2809	.009	.906	6,022
	PP1 infested	1,2500	1,1942	.299	-1,135	3,635
	pp2 infested	2,0167	1,1942	.096	-.368	4,402
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	.4600	1,1624	.694	-1,861	2,781
	P. purpurea PP2 + Cs control	1,4200	1,1624	.226	-.901	3,741
P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP2 in infested soil for 10 wks + C. sativa	.0300	1,1624	.979	-2,291	2,351
	PP1 control	5,4950*	1,2329	.000	3,033	7,957
	PP2 control	4,8843*	1,2809	.000	2,326	7,442
	PP1 infested	2,6700*	1,1942	.029	.285	5,055
	pp2 infested	3,4367*	1,1942	.005	1,052	5,822
	P. purpurea PP1 + Cs control	.4300	1,1624	.713	-1,891	2,751
	P. purpurea PP2 + Cs control	1,3900	1,1624	.236	-.931	3,711
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-.0300	1,1624	.979	-2,351	2,291
P. purpurea PP2 in infested soil for 10 wks + C. sativa	PP1 control	5,4650*	1,2329	.000	3,003	7,927
	PP2 control	4,8543*	1,2809	.000	2,296	7,412
	PP1 infested	2,6400*	1,1942	.031	.255	5,025
	pp2 infested	3,4067*	1,1942	.006	1,022	5,792
	P. purpurea PP1 + Cs control	-5,0350*	1,2329	.000	-7,497	-2,573
	P. purpurea PP2 + Cs control	-4,0750*	1,2329	.002	-6,537	-1,613
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-5,4950*	1,2329	.000	-7,957	-3,033
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-5,4650*	1,2329	.000	-7,927	-3,003
PP1 control	PP2 control	-.6107	1,3452	.651	-3,297	2,076
	PP1 infested	-2,8250*	1,2630	.029	-5,347	-.303
	pp2 infested	-2,0583	1,2630	.108	-4,581	.464
	P. purpurea PP1 + Cs control	-4,4243*	1,2809	.001	-6,982	-1,866
	P. purpurea PP2 + Cs control	-3,4643*	1,2809	.009	-6,022	-.906
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-4,8843*	1,2809	.000	-7,442	-2,326
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-4,8543*	1,2809	.000	-7,412	-2,296
	PP1 control	.6107	1,3452	.651	-2,076	3,297
PP2 control	PP1 infested	-2,2143	1,3099	.096	-4,830	.402
	pp2 infested	-1,4476	1,3099	.273	-4,064	1,168
	P. purpurea PP1 + Cs control	-2,2100	1,1942	.069	-4,595	.175
	P. purpurea PP2 + Cs control	-1,2500	1,1942	.299	-3,635	1,135
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-2,6700*	1,1942	.029	-5,055	-.285
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-2,6400*	1,1942	.031	-5,025	-.255
	PP1 control	2,8250*	1,2630	.029	.303	5,347
	PP2 control	2,2143	1,3099	.096	-.402	4,830
PP1 infested	pp2 infested	.7667	1,2253	.534	-1,680	3,214
	P. purpurea PP1 + Cs control	-2,9767*	1,1942	.015	-5,362	-.592
	P. purpurea PP2 + Cs control	-2,0167	1,1942	.096	-4,402	.368
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-3,4367*	1,1942	.005	-5,822	-1,052
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-3,4067*	1,1942	.006	-5,792	-1,022
	PP1 control	2,0583	1,2630	.108	-.464	4,581
	PP2 control	1,4476	1,3099	.273	-1,168	4,064
	PP1 infested	-.7667	1,2253	.534	-3,214	1,680

*. A diferença média é significativa no nível 0.05.

I.III.XXVI. Comparison of means of aerial part weight of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and 4.2: In pre-infested soil together with *C. sativa*

		Descritivos		Estatística	Erro Padrão		
Peso parte aérea	P. purpurea PP1 + Cs control	Média		6,910	,7108		
		95% Intervalo de Confiança para Média	Limite inferior	5,302			
			Limite superior	8,518			
		5% da média aparada		7,006			
		Mediana		7,250			
		Variância		5,052			
		Desvio Padrão		2,2477			
		Mínimo		2,3			
		Máximo		9,8			
		Intervalo		7,5			
		Intervalo interquartil		3,3			
		Assimetria		-,933	,687		
		Curtose		,636	1,334		
		P. purpurea PP2 + Cs control	P. purpurea PP2 + Cs control	Média		5,950	1,1401
				95% Intervalo de Confiança para Média	Limite inferior	3,371	
					Limite superior	8,529	
				5% da média aparada		5,850	
				Mediana		5,050	
				Variância		12,998	
Desvio Padrão				3,6053			
Mínimo				1,9			
Máximo				11,8			
Intervalo				9,9			
Intervalo interquartil				6,8			
Assimetria				,575	,687		
Curtose				-1,237	1,334		
P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP1 in infested soil for 10 wks + C. sativa			Média		7,370	,9003
				95% Intervalo de Confiança para Média	Limite inferior	5,333	
					Limite superior	9,407	
				5% da média aparada		7,233	
				Mediana		6,800	
				Variância		8,105	
		Desvio Padrão		2,8469			
		Mínimo		4,2			
		Máximo		13,0			
		Intervalo		8,8			
		Intervalo interquartil		3,8			
		Assimetria		,946	,687		
		Curtose		,229	1,334		
		P. purpurea PP2 in infested soil for 10 wks + C. sativa	P. purpurea PP2 in infested soil for 10 wks + C. sativa	Média		7,340	1,0183
				95% Intervalo de Confiança para Média	Limite inferior	5,036	
					Limite superior	9,644	
				5% da média aparada		7,311	
				Mediana		6,850	
				Variância		10,369	
Desvio Padrão				3,2201			
Mínimo				2,3			
Máximo				12,9			
Intervalo				10,6			
Intervalo interquartil				4,8			
Assimetria				,461	,687		
Curtose				-,117	1,334		
PP1 control	PP1 control			Média		1,875	,3239
				95% Intervalo de Confiança para Média	Limite inferior	1,109	
					Limite superior	2,641	
				5% da média aparada		1,850	
				Mediana		1,750	
				Variância		,839	
		Desvio Padrão		,9161			
		Mínimo		,5			
		Máximo		3,7			
		Intervalo		3,2			
		Intervalo interquartil		,8			
		Assimetria		,825	,752		
		Curtose		2,307	1,481		
		PP2 control	PP2 control	Média		2,486	,6471
				95% Intervalo de Confiança para Média	Limite inferior	,902	
					Limite superior	4,069	
				5% da média aparada		2,479	
				Mediana		2,600	
				Variância		2,931	
Desvio Padrão				1,7121			
Mínimo				,6			
Máximo				4,5			
Intervalo				3,9			
Intervalo interquartil				3,3			
Assimetria				-,013	,794		
Curtose				-2,451	1,587		
PP1 infested	PP1 infested			Média		4,700	,9129
				95% Intervalo de Confiança para Média	Limite inferior	2,595	
					Limite superior	6,805	
				5% da média aparada		4,589	
				Mediana		4,400	
				Variância		7,500	
		Desvio Padrão		2,7386			
		Mínimo		1,1			
		Máximo		10,3			
		Intervalo		9,2			
		Intervalo interquartil		3,7			
		Assimetria		,884	,717		
		Curtose		1,299	1,400		
		pp2 infested	pp2 infested	Média		3,933	,6117
				95% Intervalo de Confiança para Média	Limite inferior	2,523	
					Limite superior	5,344	
				5% da média aparada		3,959	
				Mediana		4,400	
				Variância		3,368	
Desvio Padrão				1,8351			
Mínimo				1,0			
Máximo				6,4			
Intervalo				5,4			
Intervalo interquartil				3,1			
Assimetria				-,355	,717		
Curtose				-,781	1,400		

I.III.XXV. Analysis of variance of principal root weight of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and 4.2: In pre-infested soil together with *C. sativa*

Comparações múltiplas

Variável dependente: Peso raiz principal
DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
P. purpurea PP1 + Cs control	P. purpurea PP2 + Cs control	-,2800	,3023	,358	-,884	,324
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,2600	,3023	,393	-,864	,344
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,4700	,3023	,125	-1,074	,134
	PP1 control	-,1800	,3206	,576	-,820	,460
	PP2 control	-,3300	,3331	,326	-,995	,335
	PP1 infested	-,6078	,3106	,055	-1,228	,013
	pp2 infested	-,0922	,3106	,767	-,528	,713
P. purpurea PP2 + Cs control	P. purpurea PP1 + Cs control	,2800	,3023	,358	-,324	,884
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,0200	,3023	,947	-,584	,624
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,1900	,3023	,532	-,794	,414
	PP1 control	,1000	,3206	,756	-,540	,740
	PP2 control	-,0500	,3331	,881	-,715	,615
	PP1 infested	-,3278	,3106	,295	-,948	,293
	pp2 infested	,3722	,3106	,235	-,248	,993
P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP1 + Cs control	,2600	,3023	,393	-,344	,864
	P. purpurea PP2 + Cs control	-,0200	,3023	,947	-,624	,584
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,2100	,3023	,490	-,814	,394
	PP1 control	,0800	,3206	,804	-,560	,720
	PP2 control	-,0700	,3331	,834	-,735	,595
	PP1 infested	-,3478	,3106	,267	-,968	,273
	pp2 infested	,3522	,3106	,261	-,268	,973
P. purpurea PP2 in infested soil for 10 wks + C. sativa	P. purpurea PP1 + Cs control	,4700	,3023	,125	-,134	1,074
	P. purpurea PP2 + Cs control	,1900	,3023	,532	-,414	,794
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,2100	,3023	,490	-,394	,814
	PP1 control	,2900	,3206	,369	-,350	,930
	PP2 control	,1400	,3331	,676	-,525	,805
	PP1 infested	-,1378	,3106	,659	-,758	,483
	pp2 infested	,5622	,3106	,075	-,058	1,183
PP1 control	P. purpurea PP1 + Cs control	,1800	,3206	,576	-,460	,820
	P. purpurea PP2 + Cs control	-,1000	,3206	,756	-,740	,540
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,0800	,3206	,804	-,720	,560
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,2900	,3206	,369	-,930	,350
	PP2 control	-,1500	,3499	,670	-,849	,549
	PP1 infested	-,4278	,3285	,197	-1,084	,228
	pp2 infested	,2722	,3285	,410	-,384	,928
PP2 control	P. purpurea PP1 + Cs control	,3300	,3331	,326	-,335	,995
	P. purpurea PP2 + Cs control	,0500	,3331	,881	-,615	,715
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,0700	,3331	,834	-,595	,735
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,1400	,3331	,676	-,805	,525
	PP1 control	,1500	,3499	,670	-,549	,849
	PP1 infested	-,2778	,3407	,418	-,958	,403
	pp2 infested	,4222	,3407	,220	-,258	1,103
PP1 infested	P. purpurea PP1 + Cs control	,6078	,3106	,055	-,013	1,228
	P. purpurea PP2 + Cs control	,3278	,3106	,295	-,293	,948
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	,3478	,3106	,267	-,273	,968
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,1378	,3106	,659	-,483	,758
	PP1 control	,4278	,3285	,197	-,228	1,084
	PP2 control	,2778	,3407	,418	-,403	,958
	pp2 infested	,7000	,3187	,032	-,064	1,336
pp2 infested	P. purpurea PP1 + Cs control	-,0922	,3106	,767	-,713	,528
	P. purpurea PP2 + Cs control	-,3722	,3106	,235	-,993	,248
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,3522	,3106	,261	-,973	,268
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,5622	,3106	,075	-1,183	,058
	PP1 control	-,2722	,3285	,410	-,928	,384
	PP2 control	-,4222	,3407	,220	-1,103	,258
	PP1 infested	-,7000	,3187	,032	-1,336	-,064

*. A diferença média é significativa no nível 0.05.

I.III.XXVI. Comparison of means of principal root weight of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and 4.2: In pre-infested soil together with *C. sativa*

		Descritivos		Estatística	Erro Padrão
Peso raiz principal	P. purpurea PP1 + Cs control	Média		,970	,1265
		95% Intervalo de Confiança para Média	Limite inferior	,684	
			Limite superior	1,256	
		5% da média aparada		,950	
		Mediana		,950	
		Variância		,160	
		Desvio Padrão		,4001	
		Mínimo		,5	
		Máximo		1,8	
		Intervalo		1,3	
		Intervalo interquartil		,5	
		Assimetria		,913	,687
		Curtose		,878	1,334
				1,250	,2868
				,601	
				1,899	
				1,178	
				1,000	
				,823	
				,9071	
		,3			
		3,5			
		3,2			
		,9			
		1,846	,687		
		4,387	1,334		
		1,230	,1978		
		,783			
		1,677			
		1,189			
		1,000			
		,391			
		,6255			
		,6			
		2,6			
		2,0			
		,9			
		1,266	,687		
		1,305	1,334		
		1,440	,2029		
		,981			
		1,899			
		1,444			
		1,400			
		,412			
		,6415			
		,4			
		2,4			
		2,0			
		1,0			
		,216	,687		
		-,445	1,334		
		1,150	,1086		
		,893			
		1,407			
		1,139			
		1,100			
		,094			
		,3071			
		,8			
		1,7			
		,9			
		,5			
		,711	,752		
		-,301	1,481		
		1,300	,2690		
		,642			
		1,958			
		1,306			
		1,300			
		,507			
		,7118			
		,3			
		2,2			
		1,9			
		1,4			
		-,151	,794		
		-1,455	1,587		
		1,578	,3345		
		,806			
		2,349			
		1,542			
		1,500			
		1,007			
		1,0035			
		,5			
		3,3			
		2,8			
		1,8			
		,749	,717		
		-,696	1,400		
		,878	,1614		
		,506			
		1,250			
		,859			
		,800			
		,234			
		,4842			
		,3			
		1,8			
		1,5			
		,8			
		,752	,717		
		,062	1,400		

I.III.XXV. Analysis of variance of secondary roots weight of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and C4.2: In pre-infested soil together with *C. sativa*

Comparações múltiplas

Variável dependente: Peso raiz secundária

DMS

(I) Plant name	(J) Plant name	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
P. purpurea PP1 + Cs control	P. purpurea PP2 + Cs control	-,6100	1,1062	,583	-2,819	1,599
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,7800	1,1062	,483	-2,989	1,429
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,0800	1,1062	,943	-2,289	2,129
	PP1 control	,3150	1,1733	,789	-2,028	2,658
	PP2 control	-,1600	1,2190	,896	-2,594	2,274
	PP1 infested	-,2600	1,1365	,820	-2,530	2,010
	pp2 infested	2,6511*	1,1365	,023	,381	4,921
P. purpurea PP2 + Cs control	P. purpurea PP1 + Cs control	,6100	1,1062	,583	-1,599	2,819
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,1700	1,1062	,878	-2,379	2,039
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,5300	1,1062	,633	-1,679	2,739
	PP1 control	,9250	1,1733	,433	-1,418	3,268
	PP2 control	,4500	1,2190	,713	-1,984	2,884
	PP1 infested	,3500	1,1365	,759	-1,920	2,620
	pp2 infested	3,2611*	1,1365	,006	,991	5,531
P. purpurea PP1 in infested soil for 10 wks + C. sativa	P. purpurea PP1 + Cs control	,7800	1,1062	,483	-1,429	2,989
	P. purpurea PP2 + Cs control	,1700	1,1062	,878	-2,039	2,379
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,7000	1,1062	,529	-1,509	2,909
	PP1 control	1,0950	1,1733	,354	-1,248	3,438
	PP2 control	,6200	1,2190	,613	-1,814	3,054
	PP1 infested	,5200	1,1365	,649	-1,750	2,790
	pp2 infested	3,4311*	1,1365	,004	1,161	5,701
P. purpurea PP2 in infested soil for 10 wks + C. sativa	P. purpurea PP1 + Cs control	,0800	1,1062	,943	-2,129	2,289
	P. purpurea PP2 + Cs control	-,5300	1,1062	,633	-2,739	1,679
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,7000	1,1062	,529	-2,909	1,509
	PP1 control	,3950	1,1733	,737	-1,948	2,738
	PP2 control	-,0800	1,2190	,948	-2,514	2,354
	PP1 infested	-,1800	1,1365	,875	-2,450	2,090
	pp2 infested	2,7311*	1,1365	,019	,461	5,001
PP1 control	P. purpurea PP1 + Cs control	-,3150	1,1733	,789	-2,658	2,028
	P. purpurea PP2 + Cs control	-,9250	1,1733	,433	-3,268	1,418
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-1,0950	1,1733	,354	-3,438	1,248
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-,3950	1,1733	,737	-2,738	1,948
	PP2 control	-,4750	1,2802	,712	-3,032	2,082
	PP1 infested	-,5750	1,2019	,634	-2,975	1,825
	pp2 infested	2,3361*	1,2019	,056	-,064	4,736
PP2 control	P. purpurea PP1 + Cs control	,1600	1,2190	,896	-2,274	2,594
	P. purpurea PP2 + Cs control	-,4500	1,2190	,713	-2,884	1,984
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,6200	1,2190	,613	-3,054	1,814
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,0800	1,2190	,948	-2,354	2,514
	PP1 control	,4750	1,2802	,712	-2,082	3,032
	PP1 infested	-,1000	1,2465	,936	-2,589	2,389
	pp2 infested	2,8111*	1,2465	,027	,322	5,301
PP1 infested	P. purpurea PP1 + Cs control	,2600	1,1365	,820	-2,010	2,530
	P. purpurea PP2 + Cs control	-,3500	1,1365	,759	-2,620	1,920
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-,5200	1,1365	,649	-2,790	1,750
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	,1800	1,1365	,875	-2,090	2,450
	PP1 control	,5750	1,2019	,634	-1,825	2,975
	PP2 control	,1000	1,2465	,936	-2,389	2,589
	pp2 infested	2,9111*	1,1660	,015	,582	5,240
pp2 infested	P. purpurea PP1 + Cs control	-2,6511*	1,1365	,023	-4,921	-,381
	P. purpurea PP2 + Cs control	-3,2611*	1,1365	,006	-5,531	-,991
	P. purpurea PP1 in infested soil for 10 wks + C. sativa	-3,4311*	1,1365	,004	-5,701	-1,161
	P. purpurea PP2 in infested soil for 10 wks + C. sativa	-2,7311*	1,1365	,019	-5,001	-,461
	PP1 control	-2,3361*	1,2019	,056	-4,736	-,064
	PP2 control	-2,8111*	1,2465	,027	-5,301	-,322
	PP1 infested	-2,9111*	1,1660	,015	-5,240	-,582

*. A diferença média é significativa no nível 0.05.

I.III.XXVI. Comparison of means of secondary roots weight of *Phlomis purpurea* under four different conditions: C1.1 and C1.2: Non-Infested (NI); C2.1 and C2.2: NI together with *Castanea sativa*; C3.1 and C3.2: In pre-infested soil; C4.1 and 4.2: In pre-infested soil together with *C. sativa*

Descrições		Estadística	Erro Padrão
Peso raiz secundária	Plant name		
		P. purpurea PP1 + Cs control	
	Média	4,440	,6796
	95% Intervalo de Confiança para Média	Limite inferior 2,903 Limite superior 5,977	
	5% da média aparada	4,439	
	Mediana	4,400	
	Variância	4,618	
	Desvio Padrão	2,1490	
	Mínimo	1,2	
	Máximo	7,7	
	Intervalo	6,5	
	Intervalo interquartil	3,8	
	Assimetria	-0,006	,687
	Curiose	-1,046	1,334
	P. purpurea PP2 + Cs control		
	Média	5,050	,7715
	95% Intervalo de Confiança para Média	Limite inferior 3,305 Limite superior 6,795	
	5% da média aparada	5,006	
	Mediana	5,250	
	Variância	5,952	
	Desvio Padrão	2,4396	
	Mínimo	2,1	
	Máximo	8,8	
	Intervalo	6,7	
	Intervalo interquartil	4,8	
	Assimetria	,047	,687
	Curiose	-1,544	1,334
P. purpurea PP1 in infested soil for 10 wks + C. sativa			
Média	5,220	,9750	
95% Intervalo de Confiança para Média	Limite inferior 3,014 Limite superior 7,426		
5% da média aparada	4,983		
Mediana	4,100		
Variância	9,506		
Desvio Padrão	3,0832		
Mínimo	2,1		
Máximo	12,6		
Intervalo	10,5		
Intervalo interquartil	3,8		
Assimetria	1,706	,687	
Curiose	3,251	1,334	
P. purpurea PP2 in infested soil for 10 wks + C. sativa			
Média	4,520	,5968	
95% Intervalo de Confiança para Média	Limite inferior 3,170 Limite superior 5,870		
5% da média aparada	4,478		
Mediana	4,400		
Variância	3,562		
Desvio Padrão	1,8873		
Mínimo	2,1		
Máximo	7,7		
Intervalo	5,6		
Intervalo interquartil	3,3		
Assimetria	,291	,687	
Curiose	-1,206	1,334	
PP1 control			
Média	4,125	,6766	
95% Intervalo de Confiança para Média	Limite inferior 2,525 Limite superior 5,725		
5% da média aparada	4,100		
Mediana	4,350		
Variância	3,662		
Desvio Padrão	1,9137		
Mínimo	1,8		
Máximo	6,9		
Intervalo	5,1		
Intervalo interquartil	3,7		
Assimetria	,101	,752	
Curiose	-1,524	1,481	
PP2 control			
Média	4,600	1,1178	
95% Intervalo de Confiança para Média	Limite inferior 1,865 Limite superior 7,335		
5% da média aparada	4,572		
Mediana	5,000		
Variância	8,747		
Desvio Padrão	2,9575		
Mínimo	1,2		
Máximo	8,5		
Intervalo	7,3		
Intervalo interquartil	6,2		
Assimetria	,035	,794	
Curiose	-1,890	1,587	
PP1 infested			
Média	4,700	1,1539	
95% Intervalo de Confiança para Média	Limite inferior 2,039 Limite superior 7,361		
5% da média aparada	4,506		
Mediana	3,400		
Variância	11,982		
Desvio Padrão	3,4616		
Mínimo	,8		
Máximo	12,1		
Intervalo	11,3		
Intervalo interquartil	4,3		
Assimetria	1,244	,717	
Curiose	1,709	1,400	
pp2 infested			
Média	1,789	,3903	
95% Intervalo de Confiança para Média	Limite inferior ,889 Limite superior 2,689		
5% da média aparada	1,749		
Mediana	2,000		
Variância	1,371		
Desvio Padrão	1,1709		
Mínimo	,5		
Máximo	3,8		
Intervalo	3,3		
Intervalo interquartil	2,2		
Assimetria	,405	,717	
Curiose	-974	1,400	

I.III.XXVII. Pearson's correlation between aerial evaluation and aerial part weight of plants

Correlações

		Avaliação aérea	Peso parte aérea
Avaliação aérea	Correlação de Pearson	1	-.486**
	Sig. (2 extremidades)		,000
	N	73	73
Peso parte aérea	Correlação de Pearson	-.486**	1
	Sig. (2 extremidades)	,000	
	N	73	73

** A correlação é significativa no nível 0,01 (2 extremidades).

I.III.XXVIII. Pearson's correlation between root evaluation and principal root weight, secondary root weight and root length of plants

Correlações

		Avaliação radicular	Peso raiz principal	Peso raiz secundária	Root length (cm)
Avaliação radicular	Correlação de Pearson	1	-.387**	-.461**	-.092
	Sig. (2 extremidades)		,001	,000	,440
	N	73	73	73	73
Peso raiz principal	Correlação de Pearson	-.387**	1	,677**	,099
	Sig. (2 extremidades)	,001		,000	,406
	N	73	73	73	73
Peso raiz secundária	Correlação de Pearson	-.461**	,677**	1	,105
	Sig. (2 extremidades)	,000	,000		,377
	N	73	73	73	73
Root length (cm)	Correlação de Pearson	-.092	,099	,105	1
	Sig. (2 extremidades)	,440	,406	,377	
	N	73	73	73	73

** A correlação é significativa no nível 0,01 (2 extremidades).

I.III.XXIX. Pearson's correlation between aerial evaluation and aerial part weight of *Castanea sativa*

Correlações

		Avaliação aérea	Peso parte aérea
Avaliação aérea	Correlação de Pearson	1	-.648**
	Sig. (2 extremidades)		,000
	N	50	50
Peso parte aérea	Correlação de Pearson	-.648**	1
	Sig. (2 extremidades)	,000	
	N	50	50

** A correlação é significativa no nível 0,01 (2 extremidades).

I.III.XXX. Pearson's correlation between root evaluation and principal root weight, secondary root weight, percentage of isolation from roots and root length of *Castanea sativa*

Correlações

		Avaliação radicular	Peso raiz principal	Peso raiz secundária	% recup P.c. raízes	Root length (cm)
Avaliação radicular	Correlação de Pearson	1	-.470**	-.432**	,774**	-.325*
	Sig. (2 extremidades)		,001	,002	,000	,021
	N	50	50	50	50	50
Peso raiz principal	Correlação de Pearson	-.470**	1	,513**	-.428**	,542**
	Sig. (2 extremidades)	,001		,000	,002	,000
	N	50	50	50	50	50
Peso raiz secundária	Correlação de Pearson	-.432**	,513**	1	-.435**	,492**
	Sig. (2 extremidades)	,002	,000		,002	,000
	N	50	50	50	50	50
% recup P.c. raízes	Correlação de Pearson	,774**	-.428**	-.435**	1	-.363**
	Sig. (2 extremidades)	,000	,002	,002		,010
	N	50	50	50	50	50
Root length (cm)	Correlação de Pearson	-.325*	,542**	,492**	-.363**	1
	Sig. (2 extremidades)	,021	,000	,000	,010	
	N	50	50	50	50	50

** A correlação é significativa no nível 0,01 (2 extremidades).

* A correlação é significativa no nível 0,05 (2 extremidades).