

 Direcção Regional de Agricultura e Pescas do Algarve	LABORATÓRIO DE APOIO Á PRODUÇÃO AGRÍCOLA DE TAVIRA
RELATÓRIO DE ENSAIO N.º 263 / APA / 2013	

Appendix II. Cited in Chapter 3

Ref. Amostra: Parcela nº18-ZIF Loulé Nº Lab: 461/13 Data colheita: 31/10/2013 Data saída: 22/11/2013

PARÂMETROS	RESULTADOS	CLASSIFICAÇÃO
pH	5,1	Ácido
TEXTURA MANUAL	Média	-
CALCÁRIO TOTAL (%)	<0,03 (LD)	Não calcário
CALCÁRIO ACTIVO (%)	-	-
MATÉRIA ORGÂNICA (%)	2,5	Média
CARBONO ORGÂNICO (%)	1,450	-
FÓSFORO (ppm de P ₂ O ₅)	9	Muito baixa
POTÁSSIO (ppm de K ₂ O)	104	Alta
AZOTO TOTAL (%)	0,06	-
RELAÇÃO C/N	24,17	-
CONDUTIVIDADE (mS/cm)	0,05	Salinidade nula
AZOTO MINERAL (mg/Kg de terra)	-	-
FERRO (mg/L)	69	Alta
ZINCO (mg/L)	2,7	Média
MANGANÊS (mg/L)	16	Média
COBRE (mg/L)	0,9	Média
BORO (mg/L)	0,54	Média
CLORETOS (% de NaCl)	-	-
BASES TROCA:		
CÁLCIO (meq/100g)	0,2	Muito baixa
MAGNÉSIO (meq/100g)	0,6	Baixa
POTÁSSIO (meq/100g)	0,01	Muito baixa
SÓDIO (meq/100g)	0,24	Baixa
ACIDEZ TITULÁVEL (meq/100g)	6,20	-
CAPACIDADE DE TROCA	7,25	Baixa
GRAU DE SATURAÇÃO (%)	14	Muito baixa
ANÁLISE GRANULOMÉTRICA		
AREIA FINA (%)	24,4	
AREIA GROSSA (%)	17,3	Franco-Argilo-Arenoso
LIMO (%)	31,6	
ARGILA (%)	26,7	

OBS: Classificação segundo "MANUAL DE FERTILIZAÇÃO DAS CULTURAS - LAB. QUÍMICO AGRÍCOLA REBELO da SILVA", 2006, LD=Limite deteção.

LA Alameda

Appendix II.I.

Soil analysis from PTS area.

pH	acidic
texture	medium
Limestone	no
Organic matter	medium
Phosphorous	very low
Potassium	high
Conductivity	zero salinity
Iron	high
Zinc	medium
Manganese	medium
Copper	medium
Boron	medium
<u>Base exchange</u>	
Calcium	very low
Magnesium	low
Potassium	very low
Sodium	low
Exchange capacity	low
Degree of saturation.	very low

Soil classification:

Sandy-loamy-clay

MD.SSC.46.00 de 10FEV/2013

Appendices

Field Assay - Evaluations	Menta control																Emergence	Survival			
	18-05-2012	14-06-2012	02-07-2012	03-08-2012	28-08-2012	05-09-2012	19-09-2012	29-10-2012	22-11-2012	25-12-2012	29-01-2013	20-04-2013	30-05-2013	26-06-2013	16-07-2013	05-08-2013	06-11-2013	20-02-2014			
1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	1
2		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5																				0	0
6																				0	0
7																				0	0
8												1	1							1	0
9														1	1	1	1			1	1
10				1				1	1											0	0
11																				0	0
12																				0	0
13																				0	0
14																				0	0
15						1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
16																				0	0
17																				0	0
18																				0	0
19																				0	0
20																				0	0
21																				0	0
22																				0	0
23																				0	0
24																				0	0
25							1	1	1											1	0
26																				0	0
27							1			1	1		1							1	0
28																				0	0
29																				0	0
30									1	1	1	1								1	0
31								1	1	1	1									1	0
32																				0	0
33												1	1	1	1	1	1			1	1
34																				0	0
35							1	1	1	1	1									1	0
36																				0	0
37																				0	0
38								1	1											1	0
39																				0	0
40																				0	0
41												1	1	1	1	0	0			0	0
42								1	1	1	1	1	1	1	1	0	0			1	0
43																				0	0
44												1	1	1	1	1	1			1	1
45					1			1	1	1	1	1	1	1	1	1	1			1	0
46								2	2	2	2	1	1	1	1	1	1	1	1	2	1
47																				0	0
48																				0	0
49																				0	0
50																				0	0
51																				0	0
52																				0	0
53																				0	0
54						1	1	1				1	1	1	1	0	0			0	0
55																				1	0
56								1	1	1	1									1	0
57												1	1	1	1	1	1	1	1	1	1
58								1	1			1	1	1	1	1	1	1	1	1	1
59																				0	0
60																				0	0
61								2	2	2	2	1	1							2	0
62																				0	0
63																				0	0
64																				0	0
65																				0	0
66			1	1																0	0
67																				0	0
68																				0	0
69																				0	0
70																				0	0
71			1	1	1	1	1	1				1	1	1	1	1	1	1	1	1	1
72																				1	0
73			1	1																1	0
74																				0	0
75								1	1	1	1									1	0
76																				0	0
77				1																0	0
78																				0	0
79																				0	0
80																				0	0
81																				0	0
82																				0	0
83																				0	0
84																				0	0
85								1	1											1	0
86														1	1	0	0			0	0
87																				0	0
88																				0	0
89																				0	0
90																				0	0
91					1	1	1			1	1	1								1	0
92																				1	0
93				1		1	1	1												1	0
94					2															2	0
95																				0	0
96								1	1											1	0
97																				0	0
98																				0	0
99																				0	0
100																				0	0
Total	1	6	8	11	10	11	11	22	22	18	18	17	16	15	14	12	12	12	43		12

Appendix II.II. Emergence and survival of *Quercus suber* at "Menta" area without *Phlomis purpurea* (control) (A1). Zero, one and two are the number of seeds that emerged during the trial and survived at the end of the trial.

Appendices

Field Assay - Evaluations	PTS control																			Emergence	Survival			
	18-05-2012	14-06-2012	02-07-2012	03-08-2012	28-08-2012	05-09-2012	19-09-2012	29-10-2012	21-11-2012	25-12-2012	29-01-2013	20-04-2013	30-05-2013	26-06-2013	16-07-2013	05-08-2013	27-08-2013	06-11-2013	20-02-2013					
1																					0	0		
2		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	1	1		
3		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	1	1		
4																					0	0		
5																					0	0		
6																					0	0		
7																					0	0		
8		QQ	QQ	QQ	QQ	QQ	QQ	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	2	0		
9																					1	1		
10	QQ	QQ	QQ	QQ	QQ	QQ	QQ	QQ	QQ	QQ	QQ	Q	QQ	QQ	QQ						2	0		
11																					0	0		
12																					0	0		
13																					0	0		
14																					0	0		
15																					0	0		
16																					0	0		
17																					0	0		
18																					0	0		
19																					0	0		
20																					0	0		
21																					0	0		
22																					0	0		
23																					0	0		
24																					0	0		
25																					0	0		
26																					0	0		
27																					0	0		
28							Q	Q	Q												1	0		
29																					0	0		
30																					0	0		
31																					0	0		
32									Q												1	0		
33																					0	0		
34																					0	0		
35																					1	0		
36			Q	Q	Q			Q	Q	Q			Q	Q	Q	Q	Q	Q	Q		1	0		
37																					0	0		
38																					0	0		
39																					0	0		
40																					0	0		
41																					0	0		
42																					0	0		
43																					0	0		
44																					0	0		
45																					0	0		
46																					0	0		
47																					0	0		
48																					0	0		
49																					0	0		
50																					0	0		
51																					0	0		
52																					0	0		
53																					0	0		
54																					0	0		
55																					0	0		
56																					0	0		
57																					0	0		
58																					0	0		
59																					0	0		
60												Q	Q	Q	Q						1	0		
61																					0	0		
62																					0	0		
63																					0	0		
64																					0	0		
65																					0	0		
66																					0	0		
67																					0	0		
68																					0	0		
69																					0	0		
70																					0	0		
71																					0	0		
72																					0	0		
73								Q					Q								1	0		
74																					0	0		
75																					0	0		
76																					0	0		
77																					0	0		
78		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q						1	0		
79																					0	0		
80																					0	0		
81																					0	0		
82																					0	0		
83													Q	Q	Q						1	0		
84																					0	0		
85																					0	0		
86																					0	0		
87																					0	0		
88																					0	0		
89																					0	0		
90					Q	Q		Q				Q	Q	Q	Q	Q	Q				1	0		
91																					0	0		
92																					0	0		
93																					0	0		
94																					0	0		
95																					0	0		
96																					0	0		
97																					0	0		
98																					0	0		
99																					0	0		
100																					0	0		
																						Sum=	16	3

Appendix II.IV. Emergence and survival of *Quercus suber* at PTS area without *Phlomis purpurea* (control) (B1).
 Q=1 *Quercus suber* present;
 QQ=2 *Quercus suber* present.
 The numbers zero, one and two are the number of seeds that emerged during the trial and survived at the end of the trial.

Appendix II.V. Comparison of means of *Quercus suber* emergence at Menta, under two different conditions: without and with *Phlomis purpurea* using T-test for independent samples.

Estadísticas de grupo

Plot		N	Média	Desvio Padrão	Erro padrão da média
Q_suber_emergence	Menta without Phlomis	100	,43	,573	,057
	Menta with Phlomis	100	,75	,821	,082

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
Q_suber_emergence	Variâncias iguais assumidas	24,736	,000	-3,196	198	,002	-,320	,100	-,517	-,123
	Variâncias iguais não assumidas			-3,196	176,945	,002	-,320	,100	-,518	-,122

Appendix II.VI. Comparison of means of *Quercus suber* emergence at PTS, under two different conditions: without and with *Phlomis purpurea* using T-test for independent samples.

Estadísticas de grupo

Plot		N	Média	Desvio Padrão	Erro padrão da média
Q_suber_emergence	PTS without Phlomis	100	,16	,420	,042
	PTS with Phlomis	100	,98	,778	,078

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
Q_suber_emergence	Variâncias iguais assumidas	33,239	,000	-9,274	198	,000	-,820	,088	-,994	-,646
	Variâncias iguais não assumidas			-9,274	152,098	,000	-,820	,088	-,995	-,645

Appendix II.VII. Comparison of means of *Quercus suber* survival after 2 years, at Menta, under two different conditions: without and with *Phlomis purpurea* using T-test for independent samples.

Estadísticas de grupo

Plot		N	Média	Desvio Padrão	Erro padrão da média
Q_suber_survival	Menta without Phlomis	39	,282	,4412	,0707
	Menta with Phlomis	51	,304	,4133	,0579

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
Q_suber_survival	Variâncias iguais assumidas	,285	,595	-,242	88	,810	-,0219	,0905	-,2018	,1580
	Variâncias iguais não assumidas			-,239	79,050	,811	-,0219	,0913	-,2036	,1599

Appendix II.VIII. Comparison of means of *Quercus suber* survival after 2 years, at PTS, under two different conditions: without and with *Phlomis purpurea* using T-test for independent samples.

Estadísticas de grupo

Plot		N	Média	Desvio Padrão	Erro padrão da média
Q_suber_survival	PTS without Phlomis	14	,214	,4258	,1138
	PTS with Phlomis	69	,580	,7051	,0849

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
Q_suber_survival	Variâncias iguais assumidas	5,077	,027	-1,866	81	,066	-,3654	,1959	-,7552	,0243
	Variâncias iguais não assumidas			-2,574	29,732	,015	-,3654	,1420	-,6555	-,0754

Appendix II.IX. Resume of cases of the aerial and root evaluation, Percentage of *Phytophthora cinnamomi* re-isolation from the roots and inoculum potential [Method 1 -c.f.u. g⁻¹ soil and Method 2 (baits)] at Menta.

Resumos de caso ^a			Aerial_evaluation	Root_evaluation	% P cinnamomi in the roots	Baits	c.f.u. g-1
Plant_condition	Quercus suber alone	1	3,70	3,0	,0	100	0
		2	3,00	,5	,0	100	59
		3	3,50	1,5	71,4	100	23
		4	2,00	3,7	100,0	100	14
		5	1,50	3,0	33,3	100	9
		6	3,00	3,5	100,0	100	5
		7	2,50	,5	57,1	100	74
		8	1,50	3,0	33,3	100	2
		9	1,50	3,0	100,0	100	1
		10	3,00	3,5	100,0	100	0
		11	1,00	3,0	50,0	100	10
		12	1,00	,5	,0	100	0
			Total Média	2,2667	2,392	53,758	100,00
	Desvio Padrão	,96703	1,2631	40,8953	,000	24,604	
Q. suber 1 + Phlomis	1	1	2,50	3,0	33,3	100	14
		2	1,50	2,5	16,7	100	12
		3	1,00	2,3	28,6	100	15
		4	1,00	1,0	100,0	100	29
		5	,50	3,0	,0	100	0
		6	1,50	3,0	33,3	100	3
		7	2,50	3,0	100,0	100	0
		8	1,50	2,0	28,6	100	12
		9	1,00	,5	,0	100	7
		10	,50	1,5	,0	100	0
		11	2,00	2,5	40,0	100	2
		12	1,00	,5	42,9	100	4
			Total Média	1,3750	2,067	35,283	100,00
	Desvio Padrão	,67840	,9670	33,8902	,000	8,674	
Phlomis 1 + Q. suber	1	1	,50	,3	,0	100	14
		2	,70	,7	,0	100	12
		3	,50	,5	,0	100	15
		4	,30	,3	,0	100	29
		5	,50	,7	,0	100	0
		6	,30	,0	,0	100	3
		7	,50	,5	,0	100	0
		8	,70	,7	,0	100	12
		9	,70	,7	,0	100	7
		10	,00	,0	,0	100	0
		11	,50	,5	,0	100	2
		12	,00	,0	,0	100	4
			Total Média	,4333	,408	,000	100,00
	Desvio Padrão	,24246	,2843	,0000	,000	8,674	
Phlomis 2 + Q. suber	1	1	,50	,5	,0	100	14
		2	,70	,7	,0	100	12
		3	,70	,7	,0	100	15
		4	,50	,5	,0	100	29
		5	,70	,7	,0	100	0
		6	,50	,0	,0	100	3
		7	,70	,7	,0	100	0
		8	,70	,7	,0	100	12
		9	,70	,7	,0	100	7
		10	,00	,5	,0	100	0
		11	,70	,7	,0	100	2
		12	,00	,0	,0	100	4
			Total Média	,5333	,533	,000	100,00
	Desvio Padrão	,26400	,2640	,0000	,000	8,674	
Phlomis purpurea 1	1	1	,30	,3	,0	100	0
		2	,00	,0	,0	100	0
		3	,00	,0	,0	No Pcinnamomi	0
		4	,00	,0	,0	No Pcinnamomi	0
		5	,00	,0	,0	100	0
		6	,00	,0	,0	100	0
		7	,00	,3	,0	No Pcinnamomi	0
		8	,00	,0	,0	100	0
		9	,30	,3	,0	100	0
		10	,00	,0	,0	100	0
		11	,30	,5	,0	100	15
		12	,00	,0	,0	100	0
			Total Média	,0750	,117	,000	75,00
	Desvio Padrão	,13568	,1801	,0000	45,227	4,330	
Phlomis purpurea 2	1	1	,30	,3	,0	100	0
		2	,00	,0	,0	100	0
		3	,30	,0	,0	No Pcinnamomi	0
		4	,00	,0	,0	No Pcinnamomi	0
		5	,00	,0	,0	100	0
		6	,50	,5	,0	100	0
		7	,70	,7	,0	No Pcinnamomi	0
		8	,50	,3	,0	100	0
		9	,70	,7	,0	100	0
		10	,70	,7	,0	100	0
		11	,30	,5	,0	100	15
		12	,00	,0	1,0	100	0
			Total Média	,3333	,308	,083	75,00
	Desvio Padrão	,28710	,3029	,2887	45,227	4,330	
Total	Média	,8361	,971	14,854	91,67	7,24	
	Desvio Padrão	,91117	1,1234	30,2020	27,832	12,703	

a. Limitado aos primeiros 100 casos.

Appendix II.X. Analysis of variance of aerial and root evaluation of *Quercus suber* planted alone, *Q. suber* planted together with *Phlomis purpurea*, *P. purpurea* planted with *Q. suber* and *P. purpurea* planted alone at Menta.

Comparações múltiplas

DMS

Variável dependente	(I) Plant_condition	(J) Plant_condition	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%		
						Limite inferior	Limite superior	
Aerea_evaluation	Quercus suber alone	Q. suber 1 + Phlomis	,89167*	,21244	,000	,4675	1,3158	
		Phlomis 1 + Q. suber	1,83333*	,21244	,000	1,4092	2,2575	
		Phlomis 2 + Q. suber	1,73333*	,21244	,000	1,3092	2,1575	
		Phlomis purpurea 1	2,19167*	,21244	,000	1,7675	2,6158	
		Phlomis purpurea 2	1,93333*	,21244	,000	1,5092	2,3575	
	Q. suber 1 + Phlomis	Quercus suber alone	-89167*	,21244	,000	-1,3158	-4675	
		Phlomis 1 + Q. suber	,94167*	,21244	,000	,5175	1,3658	
		Phlomis 2 + Q. suber	,84167*	,21244	,000	,4175	1,2658	
		Phlomis purpurea 1	1,30000*	,21244	,000	,8759	1,7241	
		Phlomis purpurea 2	1,04167*	,21244	,000	,6175	1,4658	
	Phlomis 1 + Q. suber	Quercus suber alone	-1,83333*	,21244	,000	-2,2575	-1,4092	
		Q. suber 1 + Phlomis	-,94167*	,21244	,000	-1,3658	-5175	
		Phlomis 2 + Q. suber	-,10000	,21244	,639	-,5241	,3241	
		Phlomis purpurea 1	,35833	,21244	,096	-,0658	,7825	
		Phlomis purpurea 2	,10000	,21244	,639	-,3241	,5241	
	Phlomis 2 + Q. suber	Quercus suber alone	-1,73333*	,21244	,000	-2,1575	-1,3092	
		Q. suber 1 + Phlomis	-,84167*	,21244	,000	-1,2658	-,4175	
		Phlomis 1 + Q. suber	,10000	,21244	,639	-,3241	,5241	
		Phlomis purpurea 1	,45833*	,21244	,035	,0342	,8825	
		Phlomis purpurea 2	,20000	,21244	,350	-,2241	,6241	
	Phlomis purpurea 1	Quercus suber alone	-2,19167*	,21244	,000	-2,6158	-1,7675	
		Q. suber 1 + Phlomis	-1,30000*	,21244	,000	-1,7241	-,8759	
		Phlomis 1 + Q. suber	-,35833	,21244	,096	-,7825	,0658	
		Phlomis 2 + Q. suber	-,45833*	,21244	,035	-,8825	-,0342	
		Phlomis purpurea 2	-,25833	,21244	,228	-,6825	,1658	
	Phlomis purpurea 2	Quercus suber alone	-1,93333*	,21244	,000	-2,3575	-1,5092	
		Q. suber 1 + Phlomis	-1,04167*	,21244	,000	-1,4658	-,6175	
		Phlomis 1 + Q. suber	-,10000	,21244	,639	-,5241	,3241	
		Phlomis 2 + Q. suber	-,20000	,21244	,350	-,6241	,2241	
		Phlomis purpurea 1	,25833	,21244	,228	-,1658	,6825	
	Root_evaluation	Quercus suber alone	Q. suber 1 + Phlomis	,3250	,2791	,249	-,232	,882
			Phlomis 1 + Q. suber	1,9833*	,2791	,000	1,426	2,541
			Phlomis 2 + Q. suber	1,8583*	,2791	,000	1,301	2,416
			Phlomis purpurea 1	2,2750*	,2791	,000	1,718	2,832
			Phlomis purpurea 2	2,0833*	,2791	,000	1,526	2,641
		Q. suber 1 + Phlomis	Quercus suber alone	-,3250	,2791	,249	-,882	,232
			Phlomis 1 + Q. suber	1,6583*	,2791	,000	1,101	2,216
			Phlomis 2 + Q. suber	1,5333*	,2791	,000	,976	2,091
			Phlomis purpurea 1	1,9500*	,2791	,000	1,393	2,507
			Phlomis purpurea 2	1,7583*	,2791	,000	1,201	2,316
		Phlomis 1 + Q. suber	Quercus suber alone	-1,9833*	,2791	,000	-2,541	-1,426
			Q. suber 1 + Phlomis	-1,6583*	,2791	,000	-2,216	-1,101
			Phlomis 2 + Q. suber	-,1250	,2791	,656	-,682	,432
			Phlomis purpurea 1	,2917	,2791	,300	-,266	,849
			Phlomis purpurea 2	,1000	,2791	,721	-,457	,657
		Phlomis 2 + Q. suber	Quercus suber alone	-1,8583*	,2791	,000	-2,416	-1,301
			Q. suber 1 + Phlomis	-1,5333*	,2791	,000	-2,091	-,976
			Phlomis 1 + Q. suber	,1250	,2791	,656	-,432	,682
Phlomis purpurea 1			,4167	,2791	,140	-,141	,974	
Phlomis purpurea 2			,2250	,2791	,423	-,332	,782	
Phlomis purpurea 1		Quercus suber alone	-2,2750*	,2791	,000	-2,832	-1,718	
		Q. suber 1 + Phlomis	-1,9500*	,2791	,000	-2,507	-1,393	
		Phlomis 1 + Q. suber	-,2917	,2791	,300	-,849	,266	
		Phlomis 2 + Q. suber	-,4167	,2791	,140	-,974	,141	
		Phlomis purpurea 2	-,1917	,2791	,495	-,749	,366	
Phlomis purpurea 2		Quercus suber alone	-2,0833*	,2791	,000	-2,641	-1,526	
		Q. suber 1 + Phlomis	-1,7583*	,2791	,000	-2,316	-1,201	
		Phlomis 1 + Q. suber	-,1000	,2791	,721	-,657	,457	
		Phlomis 2 + Q. suber	-,2250	,2791	,423	-,782	,332	
		Phlomis purpurea 1	,1917	,2791	,495	-,366	,749	

*. A diferença média é significativa no nível 0.05.

Appendix II.XI. Analysis of variance of the percentage of *Phytophthora cinnamomi* re-isolation from the roots of *Quercus suber* planted alone, *Q. suber* planted together with *Phlomis purpurea*, *P. purpurea* planted with *Q. suber* and *P. purpurea* planted alone at Menta.

Comparações múltiplas

Variável dependente: % P cinnamomi in the roots
DMS

(I) Plant_condition	(J) Plant_condition	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Quercus suber alone	Q. suber 1 + Phlomis	18,4750 [†]	8,8523	,041	,801	36,149
	Phlomis 1 + Q. suber	53,7583 [†]	8,8523	,000	36,084	71,432
	Phlomis 2 + Q. suber	53,7583 [†]	8,8523	,000	36,084	71,432
	Phlomis purpurea 1	53,7583 [†]	8,8523	,000	36,084	71,432
	Phlomis purpurea 2	53,6750 [†]	8,8523	,000	36,001	71,349
Q. suber 1 + Phlomis	Quercus suber alone	-18,4750 [†]	8,8523	,041	-36,149	-,801
	Phlomis 1 + Q. suber	35,2833 [†]	8,8523	,000	17,609	52,957
	Phlomis 2 + Q. suber	35,2833 [†]	8,8523	,000	17,609	52,957
	Phlomis purpurea 1	35,2833 [†]	8,8523	,000	17,609	52,957
	Phlomis purpurea 2	35,2000 [†]	8,8523	,000	17,526	52,874
Phlomis 1 + Q. suber	Quercus suber alone	-53,7583 [†]	8,8523	,000	-71,432	-36,084
	Q. suber 1 + Phlomis	-35,2833 [†]	8,8523	,000	-52,957	-17,609
	Phlomis 2 + Q. suber	,0000	8,8523	1,000	-17,674	17,674
	Phlomis purpurea 1	,0000	8,8523	1,000	-17,674	17,674
	Phlomis purpurea 2	-,0833	8,8523	,993	-17,757	17,591
Phlomis 2 + Q. suber	Quercus suber alone	-53,7583 [†]	8,8523	,000	-71,432	-36,084
	Q. suber 1 + Phlomis	-35,2833 [†]	8,8523	,000	-52,957	-17,609
	Phlomis 1 + Q. suber	,0000	8,8523	1,000	-17,674	17,674
	Phlomis purpurea 1	,0000	8,8523	1,000	-17,674	17,674
	Phlomis purpurea 2	-,0833	8,8523	,993	-17,757	17,591
Phlomis purpurea 1	Quercus suber alone	-53,7583 [†]	8,8523	,000	-71,432	-36,084
	Q. suber 1 + Phlomis	-35,2833 [†]	8,8523	,000	-52,957	-17,609
	Phlomis 1 + Q. suber	,0000	8,8523	1,000	-17,674	17,674
	Phlomis 2 + Q. suber	,0000	8,8523	1,000	-17,674	17,674
	Phlomis purpurea 2	-,0833	8,8523	,993	-17,757	17,591
Phlomis purpurea 2	Quercus suber alone	-53,6750 [†]	8,8523	,000	-71,349	-36,001
	Q. suber 1 + Phlomis	-35,2000 [†]	8,8523	,000	-52,874	-17,526
	Phlomis 1 + Q. suber	,0833	8,8523	,993	-17,591	17,757
	Phlomis 2 + Q. suber	,0833	8,8523	,993	-17,591	17,757
	Phlomis purpurea 1	,0833	8,8523	,993	-17,591	17,757

*. A diferença média é significativa no nível 0.05.

Appendix II.XII. Analysis of variance of soil inoculum potential (baits) of *Quercus suber* planted alone, *Q. suber* planted together with *Phlomis purpurea*=*P. purpurea* planted with *Q. suber* and *P. purpurea* planted alone at Menta.

Comparações múltiplas

Variável dependente: Inoculum_potential_Baitings
DMS

(I) Plant_condition	(J) Plant_condition	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Quercus suber alone	Q. suber 1 + Phlomis	,000	,107	1,000	-,21	,21
	Phlomis 1 + Q. suber	,000	,107	1,000	-,21	,21
	Phlomis 2 + Q. suber	,000	,107	1,000	-,21	,21
	Phlomis purpurea 1	,250 [†]	,107	,022	,04	,46
	Phlomis purpurea 2	,250 [†]	,107	,022	,04	,46
Q. suber 1 + Phlomis	Quercus suber alone	,000	,107	1,000	-,21	,21
	Phlomis 1 + Q. suber	,000	,107	1,000	-,21	,21
	Phlomis 2 + Q. suber	,000	,107	1,000	-,21	,21
	Phlomis purpurea 1	,250 [†]	,107	,022	,04	,46
	Phlomis purpurea 2	,250 [†]	,107	,022	,04	,46
Phlomis 1 + Q. suber	Quercus suber alone	,000	,107	1,000	-,21	,21
	Q. suber 1 + Phlomis	,000	,107	1,000	-,21	,21
	Phlomis 2 + Q. suber	,000	,107	1,000	-,21	,21
	Phlomis purpurea 1	,250 [†]	,107	,022	,04	,46
	Phlomis purpurea 2	,250 [†]	,107	,022	,04	,46
Phlomis 2 + Q. suber	Quercus suber alone	,000	,107	1,000	-,21	,21
	Q. suber 1 + Phlomis	,000	,107	1,000	-,21	,21
	Phlomis 1 + Q. suber	,000	,107	1,000	-,21	,21
	Phlomis purpurea 1	,250 [†]	,107	,022	,04	,46
	Phlomis purpurea 2	,250 [†]	,107	,022	,04	,46
Phlomis purpurea 1	Quercus suber alone	-,250 [†]	,107	,022	-,46	-,04
	Q. suber 1 + Phlomis	-,250 [†]	,107	,022	-,46	-,04
	Phlomis 1 + Q. suber	-,250 [†]	,107	,022	-,46	-,04
	Phlomis 2 + Q. suber	-,250 [†]	,107	,022	-,46	-,04
	Phlomis purpurea 2	,000	,107	1,000	-,21	,21
Phlomis purpurea 2	Quercus suber alone	-,250 [†]	,107	,022	-,46	-,04
	Q. suber 1 + Phlomis	-,250 [†]	,107	,022	-,46	-,04
	Phlomis 1 + Q. suber	-,250 [†]	,107	,022	-,46	-,04
	Phlomis 2 + Q. suber	-,250 [†]	,107	,022	-,46	-,04
	Phlomis purpurea 1	,000	,107	1,000	-,21	,21

*. A diferença média é significativa no nível 0.05.

Comparações múltiplas

Variável dependente: ufc/ml
DMS

(I) Plant_condition	(J) Plant_condition	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Quercus suber alone	Q. suber 1 + Phlomis	8,250	4,912	,098	-1,56	18,06
	Phlomis 1 + Q. suber	8,250	4,912	,098	-1,56	18,06
	Phlomis 2 + Q. suber	8,250	4,912	,098	-1,56	18,06
	Phlomis purpurea 1	15,167	4,912	,003	5,36	24,97
	Phlomis purpurea 2	15,167	4,912	,003	5,36	24,97
Q. suber 1 + Phlomis	Quercus suber alone	-8,250	4,912	,098	-18,06	1,56
	Phlomis 1 + Q. suber	,000	4,912	1,000	-9,81	9,81
	Phlomis 2 + Q. suber	,000	4,912	1,000	-9,81	9,81
	Phlomis purpurea 1	6,917	4,912	,164	-2,89	16,72
	Phlomis purpurea 2	6,917	4,912	,164	-2,89	16,72
Phlomis 1 + Q. suber	Quercus suber alone	-8,250	4,912	,098	-18,06	1,56
	Q. suber 1 + Phlomis	,000	4,912	1,000	-9,81	9,81
	Phlomis 2 + Q. suber	,000	4,912	1,000	-9,81	9,81
	Phlomis purpurea 1	6,917	4,912	,164	-2,89	16,72
	Phlomis purpurea 2	6,917	4,912	,164	-2,89	16,72
Phlomis 2 + Q. suber	Quercus suber alone	-8,250	4,912	,098	-18,06	1,56
	Q. suber 1 + Phlomis	,000	4,912	1,000	-9,81	9,81
	Phlomis 1 + Q. suber	,000	4,912	1,000	-9,81	9,81
	Phlomis purpurea 1	6,917	4,912	,164	-2,89	16,72
	Phlomis purpurea 2	6,917	4,912	,164	-2,89	16,72
Phlomis purpurea 1	Quercus suber alone	-15,167	4,912	,003	-24,97	-5,36
	Q. suber 1 + Phlomis	-6,917	4,912	,164	-16,72	2,89
	Phlomis 1 + Q. suber	-6,917	4,912	,164	-16,72	2,89
	Phlomis 2 + Q. suber	-6,917	4,912	,164	-16,72	2,89
	Phlomis purpurea 2	,000	4,912	1,000	-9,81	9,81
Phlomis purpurea 2	Quercus suber alone	-15,167	4,912	,003	-24,97	-5,36
	Q. suber 1 + Phlomis	-6,917	4,912	,164	-16,72	2,89
	Phlomis 1 + Q. suber	-6,917	4,912	,164	-16,72	2,89
	Phlomis 2 + Q. suber	-6,917	4,912	,164	-16,72	2,89
	Phlomis purpurea 1	,000	4,912	1,000	-9,81	9,81

Appendix II.XIII. Analysis of variance of soil inoculum potential (Method 1 - c.f.u. g⁻¹ soil) of *Quercus suber* planted alone, *Q. suber* planted together with *Phlomis purpurea*=*P. purpurea* planted with *Q. suber* and *P. purpurea* planted alone at Menta.

Note: In the table instead of "ufc/ml" you should read "c.f.u. g⁻¹ soil"

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

Resumos de caso*

Plant_condition	Aerial_evaluation	Root_evaluation	% P cinnamomi in the roots	Baits	c.f.u. g ⁻¹		
Quercus suber alone	1	.70	3,0	.0	100	0	
	2	2,50	3,5	33,3	100	0	
	3	1,60	2,5	100,0	100	8	
	Total	Média	1,6000	3,000	44,433	100,00	2,67
		Desvio Padrão	.900000	.5000	50,9211	.000	4,619
	Q. suber 1 + Phlomis	1	.50	.3	.0	100	0
		2	.50	2,7	.0	100	0
		3	.50	3,7	.0	100	0
		4	.70	2,5	70,0	100	3
		5	.30	2,5	2,5	9,1	0
		6	.50	.5	28,6	100	0
		7	.50	.0	.0	100	2
		8	.50	1,0	25,0	100	0
9		.70	2,5	2,5	0	8	
10		2,50	2,5	25,0	100	3	
11		.50	2,5	.0	100	40	
12		.50	2,5	.0	No P.cinnamomi	0	
Total	Média	.6833	1,933	14,336	91,67	4,67	
	Desvio Padrão	.58127	1,1665	21,8859	28,868	11,380	
Q. suber 2 + Phlomis	1	.50	.3	33,3	100	0	
	2	.50	3,5	.0	100	0	
	3	2,50	3,5	.0	100	0	
	4	.50	2,5	12,5	100	40	
	Total	Média	1,00000	2,450	22,900	100,00	10,00
	Desvio Padrão	1,000000	1,5089	14,7078	.000	20,000	
Phlomis 1 + Q. suber	1	.50	.5	.0	100	0	
	2	.00	0,0	.0	100	0	
	3	.00	0,0	.0	100	0	
	4	.50	.5	.0	100	3	
	5	.00	0,0	.0	100	0	
	6	.50	.5	.0	100	0	
	7	.70	.7	.0	100	2	
	8	.70	.7	.0	100	0	
	9	.50	.5	.0	100	8	
	10	.50	.5	.0	100	3	
	11	.30	.3	.0	100	40	
	12	.30	.3	.0	No P.cinnamomi	0	
	Total	Média	.3750	.375	.000	91,67	4,67
	Desvio Padrão	.25628	.2563	.0000	28,868	11,380	
Phlomis 2 + Q. suber	1	.50	.5	.0	100	0	
	2	.00	0,0	.0	100	0	
	3	.50	.7	.0	100	3	
	4	.00	0,0	.0	100	0	
	5	.50	.5	.0	100	0	
	6	.70	.7	.0	100	0	
	7	.70	2,5	.0	100	8	
	8	.50	.3	.0	100	40	
	9	.30	.3	.0	No P.cinnamomi	0	
	10	.00	0,0	.0	No P.cinnamomi	0	
	11	.00	0,0	.0	No P.cinnamomi	0	
	12	.30	.3	.0	No P.cinnamomi	0	
	Total	Média	.3833	.383	.000	66,67	.33
	Desvio Padrão	.22896	.2443	.0000	49,237	.888	
Phlomis purpurea 1	1	.70	.5	.0	100	0	
	2	.70	.7	.0	No P.cinnamomi	0	
	3	.30	.7	.0	100	0	
	4	.00	0,0	.0	No P.cinnamomi	0	
	5	.30	.3	.0	100	0	
	6	.50	.3	.0	100	1	
	7	.30	.3	.0	100	0	
	8	.70	.7	.0	100	3	
	9	.50	.5	.0	100	0	
	10	.70	.5	.0	100	0	
	11	.30	.3	.0	No P.cinnamomi	0	
	12	.00	0,0	.0	No P.cinnamomi	0	
	Total	Média	.4750	.425	.000	66,67	.33
	Desvio Padrão	.23404	.2137	.0000	49,237	.888	
Phlomis purpurea 2	1	.50	.5	5,521	92,81	3,42	
	2	.70	.7	.0	100	0	
	3	.70	.7	.0	100	0	
	4	.30	.3	.0	No P.cinnamomi	0	
	5	.30	.3	.0	100	0	
	6	.50	.3	.0	100	1	
	7	.30	.3	.0	100	0	
	8	.70	.7	.0	100	3	
	9	.50	.5	.0	100	0	
	10	.70	.5	.0	100	0	
	11	.30	.3	.0	No P.cinnamomi	0	
	12	.00	0,0	.0	No P.cinnamomi	0	
	Total	Média	.3547	.364	5,521	92,81	3,42
	Desvio Padrão	.50487	1,0844	17,1100	38,025	9,742	

a. Limitado aos primeiros 100 casos.

Appendix II.XIV. Resume of cases of the aerial and root evaluation, Percentage of *Phytophthora cinnamomi* re-isolation from the roots and inoculum potential [Method 1 -c.f.u. g⁻¹ soil and Method 2 (baits)] at PTS.

Note: *Quercus suber* 2 + *Phlomis purpurea* (Q. suber 2+ Phlomis) was excluded in all statistics, to simplify the interpretation.

Appendix II.XV. Analysis of variance of aerial and root evaluation of *Quercus suber* planted alone, *Q. suber* planted together with *Phlomis purpurea*, *P. purpurea* planted with *Q. suber* and *P. purpurea* planted alone at PTS.

Comparações múltiplas

DMS

Variável dependente	(I) Plant_condition	(J) Plant_condition	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%		
						Limite inferior	Limite superior	
Aerial_evaluation	Quercus suber alone	Q. suber 1 + Phlomis	,91667*	,28081	,002	,3544	1,4790	
		Q. suber 2 + Phlomis	,60000	,33226	,076	-,0653	1,2653	
		Phlomis 1 + Q. suber	1,22500*	,28081	,000	,6627	1,7873	
		Phlomis 2 + Q. suber	1,18889*	,29002	,000	,6081	1,7696	
		Phlomis purpurea 1	1,21667*	,28081	,000	,6544	1,7790	
		Phlomis purpurea 2	1,12500*	,28081	,000	,5627	1,6873	
	Q. suber 1 + Phlomis	Quercus suber alone	-,91667*	,28081	,002	-1,4790	-,3544	
		Q. suber 2 + Phlomis	-,31667	,25116	,213	-,8196	-,1863	
		Phlomis 1 + Q. suber	-,30833	,17760	,088	-,0473	,6640	
		Phlomis 2 + Q. suber	-,27222	,19183	,161	-,1119	,6564	
		Phlomis purpurea 1	-,30000	,17760	,097	-,0556	,6556	
		Phlomis purpurea 2	-,20833	,17760	,246	-,1473	,5640	
	Q. suber 2 + Phlomis	Quercus suber alone	-,60000	,33226	,076	-1,2653	-,0653	
		Q. suber 1 + Phlomis	-,31667	,25116	,213	-,1863	,8196	
		Phlomis 1 + Q. suber	,62500*	,25116	,016	,1221	1,1279	
		Phlomis 2 + Q. suber	,58889*	,26142	,028	,0654	1,1124	
		Phlomis purpurea 1	,61667*	,25116	,017	,1137	1,1196	
		Phlomis purpurea 2	,52500*	,25116	,041	,0221	1,0279	
	Phlomis 1 + Q. suber	Quercus suber alone	-1,22500*	,28081	,000	-1,7873	-,6627	
		Q. suber 1 + Phlomis	-,30833	,17760	,088	-,6640	,0473	
		Q. suber 2 + Phlomis	-,62500*	,25116	,016	-1,1279	-,1221	
		Phlomis 1 + Q. suber	-,03611	,19183	,851	-,4202	,3480	
		Phlomis purpurea 1	-,00833	,17760	,963	-,3640	,3473	
		Phlomis purpurea 2	-,10000	,17760	,576	-,4556	,2556	
	Phlomis 2 + Q. suber	Quercus suber alone	-1,18889*	,29002	,000	-1,7696	-,6081	
		Q. suber 1 + Phlomis	-,27222	,19183	,161	-,6564	,1119	
		Q. suber 2 + Phlomis	-,58889*	,26142	,028	-1,1124	-,0654	
		Phlomis 1 + Q. suber	,03611	,19183	,851	-,3480	,4202	
		Phlomis purpurea 1	,02778	,19183	,885	-,3564	,4119	
		Phlomis purpurea 2	-,06389	,19183	,740	-,4480	,3202	
	Phlomis purpurea 1	Quercus suber alone	-1,21667*	,28081	,000	-1,7790	-,6544	
		Q. suber 1 + Phlomis	-,30000	,17760	,097	-,6556	,0556	
		Q. suber 2 + Phlomis	-,61667*	,25116	,017	-1,1196	-,1137	
		Phlomis 1 + Q. suber	,00833	,17760	,963	-,3473	,3640	
		Phlomis 2 + Q. suber	-,02778	,19183	,885	-,4119	,3564	
		Phlomis purpurea 2	-,09167	,17760	,608	-,4473	,2640	
	Phlomis purpurea 2	Quercus suber alone	-1,12500*	,28081	,000	-1,6873	-,5627	
		Q. suber 1 + Phlomis	-,20833	,17760	,246	-,5640	,1473	
		Q. suber 2 + Phlomis	-,52500*	,25116	,041	-1,0279	-,0221	
		Phlomis 1 + Q. suber	,10000	,17760	,576	-,2556	,4556	
		Phlomis 2 + Q. suber	,06389	,19183	,740	-,3202	,4480	
		Phlomis purpurea 1	,09167	,17760	,608	-,2640	,4473	
	Root_evaluation	Quercus suber alone	Q. suber 1 + Phlomis	1,0667*	,4583	,024	,149	1,984
			Q. suber 2 + Phlomis	,5500	,5422	,315	-,536	1,636
			Phlomis 1 + Q. suber	2,6250*	,4583	,000	1,707	3,543
			Phlomis 2 + Q. suber	2,3889*	,4733	,000	1,441	3,337
			Phlomis purpurea 1	2,6167*	,4583	,000	1,699	3,534
			Phlomis purpurea 2	2,5750*	,4583	,000	1,657	3,493
Q. suber 1 + Phlomis		Quercus suber alone	-1,0667*	,4583	,024	-1,984	-,149	
		Q. suber 2 + Phlomis	-,5167	,4099	,213	-1,337	-,304	
		Phlomis 1 + Q. suber	1,5583*	,2898	,000	,978	2,139	
		Phlomis 2 + Q. suber	1,3222*	,3130	,000	,695	1,949	
		Phlomis purpurea 1	1,5500*	,2898	,000	,970	2,130	
		Phlomis purpurea 2	1,5083*	,2898	,000	,928	2,089	
Q. suber 2 + Phlomis		Quercus suber alone	-,5500	,5422	,315	-1,636	-,536	
		Q. suber 1 + Phlomis	-,5167	,4099	,213	-,304	1,337	
		Phlomis 1 + Q. suber	2,0750*	,4099	,000	1,254	2,896	
		Phlomis 2 + Q. suber	1,8389*	,4266	,000	,985	2,693	
		Phlomis purpurea 1	2,0667*	,4099	,000	1,246	2,887	
		Phlomis purpurea 2	2,0250*	,4099	,000	1,204	2,846	
Phlomis 1 + Q. suber		Quercus suber alone	-2,6250*	,4583	,000	-3,543	-1,707	
		Q. suber 1 + Phlomis	-1,5583*	,2898	,000	-2,139	-,978	
		Q. suber 2 + Phlomis	-2,0750*	,4099	,000	-2,896	-1,254	
		Phlomis 1 + Q. suber	-,2361	,3130	,454	-,863	,391	
		Phlomis purpurea 1	-,0083	,2898	,977	-,589	,572	
		Phlomis purpurea 2	-,0500	,2898	,864	-,630	,530	
Phlomis 2 + Q. suber		Quercus suber alone	-2,3889*	,4733	,000	-3,337	-1,441	
		Q. suber 1 + Phlomis	-1,3222*	,3130	,000	-1,949	-,695	
		Q. suber 2 + Phlomis	-1,8389*	,4266	,000	-2,693	-,985	
		Phlomis 1 + Q. suber	,2361	,3130	,454	-,391	,863	
		Phlomis purpurea 1	,2278	,3130	,470	-,399	,855	
		Phlomis purpurea 2	,1861	,3130	,555	-,441	,813	
Phlomis purpurea 1		Quercus suber alone	-2,6167*	,4583	,000	-3,534	-1,699	
		Q. suber 1 + Phlomis	-1,5500*	,2898	,000	-2,130	-,970	
		Q. suber 2 + Phlomis	-2,0667*	,4099	,000	-2,887	-1,246	
		Phlomis 1 + Q. suber	,0083	,2898	,977	-,572	,589	
		Phlomis 2 + Q. suber	-,2278	,3130	,470	-,855	,399	
		Phlomis purpurea 2	-,0417	,2898	,886	-,622	,539	
Phlomis purpurea 2		Quercus suber alone	-2,5750*	,4583	,000	-3,493	-1,657	
		Q. suber 1 + Phlomis	-1,5083*	,2898	,000	-2,089	-,928	
		Q. suber 2 + Phlomis	-2,0250*	,4099	,000	-2,846	-1,204	
		Phlomis 1 + Q. suber	,0500	,2898	,864	-,530	,630	
		Phlomis 2 + Q. suber	-,1861	,3130	,555	-,813	,441	
		Phlomis purpurea 1	,0417	,2898	,886	-,539	,622	

*. A diferença média é significativa no nível 0.05.

Comparações múltiplas

Variável dependente: % P cinnamomi in the roots

DMS

(I) Plant_condition	(J) Plant_condition	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Quercus suber alone	Q. suber 1 + Phlomis	30,0970 ⁰	8,9484	,001	12,157	48,037
	Q. suber 2 + Phlomis	21,5333	12,5414	,092	-3,611	46,677
	Phlomis 1 + Q. suber	44,4333 ³	8,8681	,000	26,654	62,213
	Phlomis 2 + Q. suber	44,4333 ³	9,1589	,000	26,071	62,796
	Phlomis purpurea 1	44,4333 ³	8,8681	,000	26,654	62,213
Q. suber 1 + Phlomis	Quercus suber alone	-30,0970 ⁰	8,9484	,001	-48,037	-12,157
	Q. suber 2 + Phlomis	-8,5636	10,5608	,421	-29,737	12,609
	Phlomis 1 + Q. suber	14,3364 ⁴	5,7347	,015	2,839	25,834
	Phlomis 2 + Q. suber	14,3364 ⁴	6,1750	,024	1,956	26,716
	Phlomis purpurea 1	14,3364 ⁴	5,7347	,015	2,839	25,834
Q. suber 2 + Phlomis	Quercus suber alone	-21,5333	12,5414	,092	-46,677	-3,611
	Q. suber 1 + Phlomis	8,5636	10,5608	,421	-12,609	29,737
	Phlomis 1 + Q. suber	22,9000 ⁰	10,4929	,033	1,863	43,937
	Phlomis 2 + Q. suber	22,9000 ⁰	10,7398	,038	1,368	44,432
	Phlomis purpurea 1	22,9000 ⁰	10,4929	,033	1,863	43,937
Phlomis 1 + Q. suber	Quercus suber alone	-44,4333 ³	8,8681	,000	-62,213	-26,654
	Q. suber 1 + Phlomis	-14,3364 ⁴	5,7347	,015	-25,834	-2,839
	Q. suber 2 + Phlomis	-22,9000 ⁰	10,4929	,033	-43,937	-1,863
	Phlomis 2 + Q. suber	,0000	6,0581	1,000	-12,146	12,146
	Phlomis purpurea 1	,0000	5,6087	1,000	-11,245	11,245
Phlomis 2 + Q. suber	Quercus suber alone	-44,4333 ³	9,1589	,000	-62,796	-26,071
	Q. suber 1 + Phlomis	-14,3364 ⁴	6,1750	,024	-26,716	-1,956
	Q. suber 2 + Phlomis	-22,9000 ⁰	10,7398	,038	-44,432	-1,368
	Phlomis 1 + Q. suber	,0000	6,0581	1,000	-12,146	12,146
	Phlomis purpurea 1	,0000	6,0581	1,000	-12,146	12,146
Phlomis purpurea 1	Quercus suber alone	-44,4333 ³	8,8681	,000	-62,213	-26,654
	Q. suber 1 + Phlomis	-14,3364 ⁴	5,7347	,015	-25,834	-2,839
	Q. suber 2 + Phlomis	-22,9000 ⁰	10,4929	,033	-43,937	-1,863
	Phlomis 1 + Q. suber	,0000	5,6087	1,000	-11,245	11,245
	Phlomis 2 + Q. suber	,0000	6,0581	1,000	-12,146	12,146
Phlomis purpurea 2	Quercus suber alone	-44,4333 ³	8,8681	,000	-62,213	-26,654
	Q. suber 1 + Phlomis	-14,3364 ⁴	5,7347	,015	-25,834	-2,839
	Q. suber 2 + Phlomis	-22,9000 ⁰	10,4929	,033	-43,937	-1,863
	Phlomis 1 + Q. suber	,0000	6,0581	1,000	-12,146	12,146
	Phlomis 2 + Q. suber	,0000	5,6087	1,000	-11,245	11,245

*. A diferença média é significativa no nível 0.05.

Appendix II.XVI. Analysis of variance of the percentage of *Phytophthora cinnamomi* re-isolation from the roots of *Quercus suber* planted alone, *Q. suber* planted together with *Phlomis purpurea*, *P. purpurea* planted with *Q. suber* and *P. purpurea* planted alone at PTS.

Comparações múltiplas

Variável dependente: Baits

DMS

(I) Plant_condition	(J) Plant_condition	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Quercus suber alone	Q. suber 1 + Phlomis	8,333	24,266	,733	-40,26	56,93
	Q. suber 2 + Phlomis	,000	28,712	1,000	-57,50	57,50
	Phlomis 1 + Q. suber	8,333	24,266	,733	-40,26	56,93
	Phlomis 2 + Q. suber	11,111	25,062	,659	-39,08	61,30
	Phlomis purpurea 1	33,333	24,266	,175	-15,26	81,93
Q. suber 1 + Phlomis	Quercus suber alone	-8,333	24,266	,733	-56,93	40,26
	Q. suber 2 + Phlomis	-8,333	21,704	,702	-51,80	35,13
	Phlomis 1 + Q. suber	,000	15,347	1,000	-30,73	30,73
	Phlomis 2 + Q. suber	2,778	16,577	,868	-30,42	35,97
	Phlomis purpurea 1	25,000	15,347	,109	-5,73	55,73
Q. suber 2 + Phlomis	Quercus suber alone	,000	28,712	1,000	-57,50	57,50
	Q. suber 1 + Phlomis	8,333	21,704	,702	-35,13	51,80
	Phlomis 1 + Q. suber	8,333	21,704	,702	-35,13	51,80
	Phlomis 2 + Q. suber	11,111	22,591	,625	-34,13	56,35
	Phlomis purpurea 1	33,333	21,704	,130	-10,13	76,80
Phlomis 1 + Q. suber	Quercus suber alone	-8,333	24,266	,733	-56,93	40,26
	Q. suber 1 + Phlomis	,000	15,347	1,000	-30,73	30,73
	Q. suber 2 + Phlomis	-8,333	21,704	,702	-51,80	35,13
	Phlomis 2 + Q. suber	2,778	16,577	,868	-30,42	35,97
	Phlomis purpurea 1	25,000	15,347	,109	-5,73	55,73
Phlomis 2 + Q. suber	Quercus suber alone	-11,111	25,062	,659	-61,30	39,08
	Q. suber 1 + Phlomis	-2,778	16,577	,868	-35,97	30,42
	Q. suber 2 + Phlomis	-11,111	22,591	,625	-56,35	34,13
	Phlomis 1 + Q. suber	-2,778	16,577	,868	-35,97	30,42
	Phlomis purpurea 1	22,222	16,577	,185	-10,97	55,42
Phlomis purpurea 1	Quercus suber alone	-33,333	24,266	,175	-81,93	15,26
	Q. suber 1 + Phlomis	-25,000	15,347	,109	-55,73	5,73
	Q. suber 2 + Phlomis	-33,333	21,704	,130	-76,80	10,13
	Phlomis 1 + Q. suber	-25,000	15,347	,109	-55,73	5,73
	Phlomis 2 + Q. suber	-22,222	16,577	,185	-55,42	10,97
Phlomis purpurea 2	Quercus suber alone	-33,333	24,266	,175	-81,93	15,26
	Q. suber 1 + Phlomis	-25,000	15,347	,109	-55,73	5,73
	Q. suber 2 + Phlomis	-33,333	21,704	,130	-76,80	10,13
	Phlomis 1 + Q. suber	-25,000	15,347	,109	-55,73	5,73
	Phlomis 2 + Q. suber	-22,222	16,577	,185	-55,42	10,97

Appendix II.XVII. Analysis of variance of soil inoculum potential (baits) of *Quercus suber* planted alone, *Q. suber* planted together with *Phlomis purpurea*=*P. purpurea* planted with *Q. suber* and *P. purpurea* planted alone at PTS.

Appendix II.XVIII. Analysis of variance of soil inoculum potential (Method 1 - c.f.u. g⁻¹ soil) of *Quercus suber* planted alone, *Q. suber* planted together with *Phlomis purpurea*=*P. purpurea* planted with *Q. suber* and *P. purpurea* planted alone at PTS.

Comparações múltiplas

Variável dependente: c.f.u. g⁻¹
DMS

(I) Plant_condition	(J) Plant_condition	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
Quercus suber alone	Q. suber 1 + Phlomis	-2,000	6,337	,753	-14,69	10,69
	Q. suber 2 + Phlomis	-7,333	7,498	,332	-22,35	7,68
	Phlomis 1 + Q. suber	-2,000	6,337	,753	-14,69	10,69
	Phlomis 2 + Q. suber	-3,000	6,545	,648	-16,11	10,11
	Phlomis purpurea 1	2,333	6,337	,714	-10,36	15,02
	Phlomis purpurea 2	2,333	6,337	,714	-10,36	15,02
Q. suber 1 + Phlomis	Quercus suber alone	2,000	6,337	,753	-10,69	14,69
	Q. suber 2 + Phlomis	-5,333	5,668	,351	-16,68	6,02
	Phlomis 1 + Q. suber	,000	4,008	1,000	-8,03	8,03
	Phlomis 2 + Q. suber	-1,000	4,329	,818	-9,67	7,67
	Phlomis purpurea 1	4,333	4,008	,284	-3,69	12,36
	Phlomis purpurea 2	4,333	4,008	,284	-3,69	12,36
Q. suber 2 + Phlomis	Quercus suber alone	7,333	7,498	,332	-7,68	22,35
	Q. suber 1 + Phlomis	5,333	5,668	,351	-6,02	16,68
	Phlomis 1 + Q. suber	5,333	5,668	,351	-6,02	16,68
	Phlomis 2 + Q. suber	4,333	5,899	,466	-7,48	16,15
	Phlomis purpurea 1	9,667	5,668	,094	-1,68	21,02
	Phlomis purpurea 2	9,667	5,668	,094	-1,68	21,02
Phlomis 1 + Q. suber	Quercus suber alone	2,000	6,337	,753	-10,69	14,69
	Q. suber 1 + Phlomis	,000	4,008	1,000	-8,03	8,03
	Q. suber 2 + Phlomis	-5,333	5,668	,351	-16,68	6,02
	Phlomis 2 + Q. suber	-1,000	4,329	,818	-9,67	7,67
	Phlomis purpurea 1	4,333	4,008	,284	-3,69	12,36
	Phlomis purpurea 2	4,333	4,008	,284	-3,69	12,36
Phlomis 2 + Q. suber	Quercus suber alone	3,000	6,545	,648	-10,11	16,11
	Q. suber 1 + Phlomis	1,000	4,329	,818	-7,67	9,67
	Q. suber 2 + Phlomis	-4,333	5,899	,466	-16,15	7,48
	Phlomis 1 + Q. suber	1,000	4,329	,818	-7,67	9,67
	Phlomis purpurea 1	5,333	4,329	,223	-3,34	14,00
	Phlomis purpurea 2	5,333	4,329	,223	-3,34	14,00
Phlomis purpurea 1	Quercus suber alone	-2,333	6,337	,714	-15,02	10,36
	Q. suber 1 + Phlomis	-4,333	4,008	,284	-12,36	3,69
	Q. suber 2 + Phlomis	-9,667	5,668	,094	-21,02	1,68
	Phlomis 1 + Q. suber	-4,333	4,008	,284	-12,36	3,69
	Phlomis 2 + Q. suber	-5,333	4,329	,223	-14,00	3,34
	Phlomis purpurea 2	,000	4,008	1,000	-8,03	8,03
Phlomis purpurea 2	Quercus suber alone	-2,333	6,337	,714	-15,02	10,36
	Q. suber 1 + Phlomis	-4,333	4,008	,284	-12,36	3,69
	Q. suber 2 + Phlomis	-9,667	5,668	,094	-21,02	1,68
	Phlomis 1 + Q. suber	-4,333	4,008	,284	-12,36	3,69
	Phlomis 2 + Q. suber	-5,333	4,329	,223	-14,00	3,34
	Phlomis purpurea 1	,000	4,008	1,000	-8,03	8,03