



Fig(2): Symptoms development of root rot and wilt complex disease on artificially inoculated olive transplants (Toffahi var.) under greenhouse conditions. A: less; B: slight; C: moderate; D: sever symptoms.

Table(4): Effect of different fungicides on growth of the pathogen fungi *in vitro*.

Fungicides	Reduction in linear growth (%)											
	<i>F. oxysporum</i>				<i>F. solani</i>				<i>R. solani</i>			
	25	50	100	200	25	50	100	200	25	50	100	200
Kema-Z	62.2	100	100	100	65.1	100	100	100	68.9	100	100	100
Moncut	40.0	77.8	100	100	14.5	72.2	100	100	0.0	35.5	100	100
Maxim XL	72.2	100	100	100	83.3	100	100	100	100	100	100	100
Redomil gold plus	19.1	55.5	74.6	100	38.4	55.5	77.8	100	27.3	55.5	75.5	100
Rizolex -T	55.5	100	100	100	61.8	100	100	100	100	100	100	100
Topsin M ₇₀	82.6	100	100	100	68.7	100	100	100	71.3	100	100	100
Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L.S.D. at 0.05:												
Fungicides	0.89				0.97				0.88			
Concentrations	0.72				0.79				0.70			
F×C	1.78				1.94				1.76			

Table(5): Effect of different fungicides, as soil drench treatment, severity of root rot and wilt complex disease on olive transplants grown in artificially infested soil, 90 days after treatment under greenhouse conditions.

Fungicides	Recommended dose (Con. /L Water)	<i>F. oxysporum</i>		<i>F. solani</i>		<i>R. solani</i>		Mean	
		Severity	Reduction	Severity	Reduction	Severity	Reduction	Severity	Reduction
Kema-Z	1.5 gm	41.6	52.4	29.1	66.7	33.3	66.7	33.3	60.0
Moncut	3 gm	29.1	66.7	29.1	66.7	16.7	83.3	25.0	75.0
Maxim XL	1 ml	0.0	100	0.0	100	0.0	100	0.0	100
Redomil G P	1.5 gm	70.8	19.1	58.3	33.4	66.7	33.3	66.7	33.3
Rizolex -T	2 gm	12.5	85.7	16.6	81.0	0.0	100	8.3	90.0
Topsin M ₇₀	1.5 gm	0.0	100	0.0	100	0.0	100	0.0	100
Control		87.5	-	87.5	-	75.0	-	83.3	-
L.S.D. at 0.05:		0.68	0.73	0.56	0.77	0.62	0.74		

Table(6):Effect of Humic acid as soil treatment on disease incidence of root rot and wilt on olive transplants grown in artificially infested soil, 90 days after planting under greenhouse conditions.

Pathogenic fungi	Disease incidence (%)					Efficiency (%)		
	Conc. of Humic acid (%)					Conc. of Humic acid (%)		
	0	1	2	3	L.S.D. at (0.05)	1	2	3
<i>Fusarium oxysporum</i>	100	66.6	16.66	16.66	1.60	33.4	83.34	83.34
<i>F. solani</i>	100	50.0	33.33	16.66	1.52	50.0	66.67	83.34
<i>F. equiseti</i>	33.3	33.3	16.66	16.66	1.20	0.0	49.92	49.92
<i>F. moniliforme</i>	33.3	33.3	16.66	16.66	1.20	0.0	49.92	49.92
<i>Rhizoctonia solani</i>	83.3	50.0	16.66	16.66	1.49	39.97	80.0	80.0
<i>M. phaseolina</i>	33.3	33.3	16.66	16.66	1.30	0.0	49.92	49.92