

Table 1. Effect of compost, bio-fertilizer and yeast on number of branches of oregano (*Origanum syriacum*, L. cv. Sinaicum) plants, during 2004 and 2005 seasons

Treatments		Number of branches															
		First season,2004								Second season, 2005							
		1 st Cut				2 nd Cut				1 st Cut				2 nd Cut			
		Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean
C ₁	B ₀	16.07	24.60	17.53	19.40	39.20	53.27	40.67	44.38	28.78	31.22	26.67	28.89	50.33	58.56	66.56	58.48
	B ₁	24.15	31.60	27.87	27.87	39.00	61.87	40.47	47.11	31.11	39.00	30.78	33.63	56.67	58.11	71.44	62.07
	Mean	20.11	28.10	22.70	23.64	39.10	57.57	40.57	45.74	29.94	35.11	28.72	31.26	53.50	58.33	69.00	60.28
C ₂	B ₀	19.47	19.53	20.13	19.71	47.73	55.40	65.47	56.20	31.11	24.44	34.22	29.92	60.45	60.78	65.11	62.11
	B ₁	24.20	31.67	29.13	28.33	55.47	67.27	78.07	66.93	39.00	44.67	33.78	39.15	85.56	107.00	81.00	91.19
	Mean	21.83	25.60	24.63	24.02	51.60	61.33	71.77	61.57	35.06	34.56	34.00	34.54	73.00	83.89	73.06	76.65
C ₃	B ₀	20.73	23.73	21.27	21.91	48.47	58.60	55.13	54.07	28.11	28.78	26.00	27.63	72.55	65.89	62.78	67.07
	B ₁	30.80	33.27	31.87	31.98	53.20	70.53	56.13	59.96	31.22	28.55	34.11	31.30	64.00	81.11	63.33	69.48
	Mean	25.77	28.50	26.57	26.95	50.83	64.57	55.63	57.01	29.67	28.67	30.06	29.46	68.28	73.50	63.06	68.28
Mean of B		20.34	29.39			51.55	58.00			28.81	34.69			62.56	74.56		
Mean of Y		22.57	27.40	24.63		47.18	61.16	55.99		31.56	32.78	30.93		64.93	71.91	68.37	
L.S.D at 0.05																	
C		3.60				9.32				11.79				12.58			
B		4.24				9.52				4.39				3.80			
Y		2.45				6.84				5.61				6.80			
C + B		7.35				16.50				7.60				6.58			
C + Y		4.25				11.86				9.72				11.78			
B + Y		3.47				9.68				7.93				9.62			
C + B + Y		6.01				16.77				13.75				16.66			

C = Compost (5,10,20 m³/feddan) B= Bio-fertilizer (0, with) Y= Yeast (0,5,10 g /L)

Table 2. Effect of compost, bio-fertilizer and yeast on fresh weight (g) /plant of oregano (*Origanum syriacum*, L. cv. Sinaicum) plants, during 2004 and 2005 seasons

Treatments		Fresh weight (g) /plant															
		First season,2004								Second season, 2005							
		1 st Cut				2 nd Cut				1 st Cut				2 nd Cut			
		Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean
C ₁	B ₀	26.17	40.63	31.33	32.71	54.00	58.13	54.80	55.64	27.27	40.00	26.55	31.27	55.78	61.89	72.11	63.26
	B ₁	46.92	53.42	44.83	48.39	59.53	73.00	65.47	66.00	30.12	46.85	54.79	43.92	62.33	68.45	83.67	71.48
	Mean	36.54	47.02	38.08	40.55	56.77	65.57	60.13	60.82	28.69	43.42	40.67	37.60	59.06	65.17	77.89	67.37
C ₂	B ₀	41.33	51.83	41.08	44.75	74.58	69.83	68.75	71.06	46.22	42.89	36.37	41.83	76.78	74.22	68.89	73.30
	B ₁	52.75	65.75	42.67	53.72	75.25	90.18	113.00	92.82	67.85	70.89	53.63	64.12	111.67	97.89	105.44	105.00
	Mean	47.04	58.79	41.88	49.24	74.92	80.01	90.89	81.94	57.03	56.89	45.00	52.98	94.22	86.06	87.17	89.15
C ₃	B ₀	54.17	56.50	48.25	52.97	72.00	77.42	64.75	71.39	56.44	61.11	43.56	53.70	70.89	75.78	55.55	67.41
	B ₁	53.75	60.00	66.50	60.08	66.42	94.27	70.67	77.12	41.48	57.26	46.15	48.30	73.89	81.44	57.45	70.93
	Mean	53.96	58.25	57.38	56.53	69.21	85.84	67.71	74.25	48.96	59.18	44.85	51.00	72.39	78.61	56.50	69.17
Mean of B		43.48	54.06			66.03	78.65			42.27	52.11			67.99	82.47		
Mean of Y		45.85	54.69	45.78		66.96	77.14	72.91		44.90	53.17	43.51		75.22	76.61	73.85	
L.S.D at 0.05																	
C		9.23				12.58				11.00				12.63			
B		6.75				7.78				9.65				12.61			
Y		5.49				9.39				9.90				11.87			
C + B		11.70				13.48				16.72				21.85			
C + Y		9.51				16.26				17.16				20.56			
B + Y		7.76				13.28				14.01				16.79			
C + B + Y		13.46				23.00				24.27				29.07			

C = Compost (5,10,20 m³/feddan) B= Bio-fertilizer (0, with) Y= Yeast (0, 5, 10 g /L)

Table 3. Effect of compost, bio-fertilizer and yeast on dry weight (g /plant) of oregano (*Origanum syriacum*,L. cv. Sinaicum) plants, during 2004 and 2005 seasons.

Treatments		Dry weight (g /plant)															
		First season, 2004								Second season, 2005							
		1 st Cut				2 nd Cut				1 st Cut				2 nd Cut			
		Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean
C ₁	B ₀	9.40	16.68	11.30	12.46	19.73	20.87	19.20	19.93	10.28	16.33	10.61	12.41	27.67	30.11	34.78	30.85
	B ₁	16.93	19.08	16.31	17.44	21.73	26.33	23.73	23.93	16.44	17.33	18.11	17.30	30.11	31.55	36.22	32.63
	Mean	13.17	17.88	13.81	14.95	20.73	23.60	21.47	21.93	13.36	16.83	14.36	14.85	28.89	30.83	35.50	31.74
C ₂	B ₀	16.06	19.33	15.43	16.94	27.17	25.79	24.42	25.79	20.59	17.63	15.70	17.97	32.78	34.33	31.89	33.00
	B ₁	18.58	25.49	15.80	19.96	30.33	33.00	41.00	34.78	28.96	32.82	20.52	27.43	46.56	43.44	47.67	45.89
	Mean	17.32	22.41	15.62	18.45	28.75	29.40	32.71	30.28	24.77	25.22	18.11	22.70	39.67	38.89	39.78	39.44
C ₃	B ₀	17.17	20.43	17.67	18.42	25.25	33.50	25.83	28.19	23.56	22.15	16.00	20.57	33.56	34.00	26.56	31.37
	B ₁	18.98	21.57	24.84	21.80	28.38	31.87	25.50	28.58	16.22	23.33	19.63	19.73	34.00	39.67	27.22	33.63
	Mean	18.07	21.00	21.26	20.11	26.81	32.68	25.67	28.39	19.89	22.74	17.81	20.15	33.78	36.83	26.89	32.50
Mean of B		15.94	19.73			24.64	29.10			16.98	21.49			31.74	37.38		
Mean of Y		16.19	20.43	16.89		25.43	28.56	26.61		19.34	21.60	16.76		34.11	35.52	34.06	
L.S.D at 0.05																	
C		3.85				5.31				7.12				5.00			
B		2.69				2.27				3.08				4.30			
Y		2.32				4.15				3.97				4.58			
C + B		4.66				3.94				5.33				7.45			
C + Y		4.01				7.19				6.89				7.93			
B + Y		3.28				5.87				5.62				6.48			
C + B + Y		5.68				10.18				9.74				11.23			

C = Compost (5,10,20 m³/feddan) B= Bio-fertilizer (0, with) Y= Yeast (0,5,10 g /L)

Table 4. Effect of compost, bio-fertilizer and yeast on the oil percentage in dry herb of oregano (*Origanum syriacum*, L. cv. Sinaicum) plants, during 2004 and 2005 seasons

Treatments		Oil percentage															
		First season,2004								Second season, 2005							
		1 st Cut				2 nd Cut				1 st Cut				2 nd Cut			
		Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean
C ₁	B ₀	3.00	4.55	3.50	3.68	3.00	3.10	3.10	3.07	4.00	4.30	5.40	4.57	2.40	2.60	2.70	2.57
	B ₁	4.40	4.40	4.30	4.37	3.20	3.40	3.20	3.27	5.60	6.00	6.00	5.87	2.80	2.70	2.70	2.73
	Mean	3.70	4.48	3.90	4.03	3.10	3.25	3.15	3.17	4.80	5.15	5.70	5.22	2.60	2.65	2.70	2.65
C ₂	B ₀	4.60	4.60	5.00	4.73	2.60	3.50	3.00	3.03	6.00	6.10	5.00	5.70	2.10	2.60	1.80	2.17
	B ₁	5.00	5.50	5.00	5.17	3.20	4.30	3.70	3.73	6.10	6.10	5.00	5.73	3.20	3.20	3.10	3.17
	Mean	4.80	5.05	5.00	4.95	2.90	3.90	3.35	3.38	6.05	6.10	5.00	5.72	2.65	2.90	2.45	2.67
C ₃	B ₀	5.20	5.07	6.50	5.59	3.70	3.70	3.50	3.63	5.10	5.40	6.50	5.67	3.30	3.10	2.80	3.07
	B ₁	3.50	4.93	5.73	4.72	3.50	3.90	3.40	3.60	5.80	4.80	6.40	5.67	3.10	3.20	3.40	3.23
	Mean	4.35	5.00	6.12	5.16	3.60	3.80	3.45	3.62	5.45	5.10	6.45	5.67	3.20	3.15	3.10	3.15
Mean of B		4.67	4.75			3.24	3.53			5.31	5.76			2.60	3.04		
Mean of Y		4.28	4.84	5.00		3.20	3.65	3.31		5.43	5.45	5.72		2.82	2.90	2.75	
L.S.D at 0.05																	
C		0.25				0.07				0.09				0.09			
B		0.15				0.20				0.10				0.11			
Y		0.15				0.12				0.14				0.12			
C + B		0.26				0.35				0.17				0.20			
C + Y		0.27				0.22				0.24				0.21			
B + Y		0.22				0.18				0.19				0.17			
C + B + Y		0.38				0.31				0.34				0.31			

C = Compost(5,10,20 m³/feddan) B= Bio-fertilizer (0, with) Y= Yeast (0,5,10 g /L)

Table 5. Effect of compost, bio-fertilizer and yeast on the oil yield (ml) /plant of oregano (*Origanum syriacum*, L. cv. Sinaicum) plants, during 2004 and 2005 seasons

Treatments		Oil yield (ml) /plant															
		First season,2004								Second season, 2005							
		1 st Cut				2 nd Cut				1 st Cut				2 nd Cut			
		Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean
C ₁	B ₀	0.28	0.76	0.39	0.48	0.59	0.65	0.09	0.41	0.41	0.70	0.57	0.56	0.66	0.78	0.94	0.79
	B ₁	0.74	0.84	0.70	0.76	0.79	0.89	0.76	0.81	0.92	1.04	1.09	1.02	0.84	0.85	0.98	0.89
	Mean	0.51	0.80	0.55	0.63	0.64	0.77	0.43	0.61	0.67	0.87	0.83	0.79	0.75	0.82	0.96	0.84
C ₂	B ₀	0.74	0.89	0.77	0.80	0.71	0.90	0.73	0.78	1.24	1.08	0.79	1.04	0.69	0.89	0.58	0.85
	B ₁	0.93	1.40	0.79	1.04	0.97	1.42	1.52	1.30	1.77	2.00	1.03	1.60	1.49	1.39	1.48	1.45
	Mean	0.84	1.15	0.78	0.89	0.84	1.16	1.13	1.04	1.51	1.54	0.91	1.32	1.09	1.14	1.48	1.15
C ₃	B ₀	0.89	1.04	1.15	1.03	0.94	1.24	0.91	1.03	1.20	1.19	1.04	1.14	1.11	1.05	0.74	0.97
	B ₁	0.66	1.06	1.42	1.05	0.99	1.24	0.87	1.03	0.94	1.12	1.26	1.11	1.06	1.27	0.92	1.08
	Mean	0.78	1.05	1.29	1.04	0.97	1.24	0.89	1.03	1.07	1.16	1.15	1.13	1.09	1.16	0.83	1.03
Mean of B		0.56	0.95			0.81	1.04			0.91	1.24			0.83	1.14		
Mean of Y		0.70	0.99	0.87		0.81	1.05	0.89		1.08	1.19	0.96		0.97	1.04	0.94	
L.S.D at 0.05																	
C		0.16				0.18				0.39				0.15			
B		0.10				0.07				0.18				0.11			
Y		0.10				0.14				0.22				0.12			
C + B		0.18				0.12				0.31				0.20			
C + Y		0.17				0.25				0.38				0.21			
B + Y		0.14				0.20				0.31				0.17			
C + B + Y		0.25				0.35				0.54				0.31			

C = Compost (5, 10, 20 m³/feddan) B= Bio-fertilizer (0, with) Y= Yeast (0,5,10 g /L)

Table 6. Effect of compost, bio-fertilizer and yeast on nitrogen and phosphorus percentages of oregano herb, (*Origanum syriacum* ,L. cv. Sinaicum) during 2004 and 2005 seasons

Treatments		Nitrogen (%) in herb															
		2004								2005							
		1 st Cut				2 nd Cut				1 st Cut				2 nd Cut			
		Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean
C ₁	B ₀	1,10	1,47	1,23	1,27	1,30	1,96	1,72	1,66	0,98	1,23	1,47	1,27	1.23	1.23	1.35	1.27
	B ₁	1,09	1,72	1,30	1,00	1,09	1,96	1,72	1,76	0,98	1,47	1,09	1,30	1.23	1.47	1.47	1.39
	Mean	1,30	1,60	1,29	1,41	1,47	1,96	1,72	1,72	0,98	1,30	1,03	1,29	1.23	1.35	1.41	1.33
C _r	B ₀	1,10	1,09	1,30	1,30	1,84	2,21	1,84	1,96	1,09	1,30	1,23	1,39	1.35	1.35	1.23	1.31
	B ₁	1,30	1,09	1,47	1,47	1,96	2,21	1,96	2,04	1,84	1,09	1,09	1,67	1.35	1.47	1.47	1.43
	Mean	1,23	1,09	1,41	1,41	1,90	2,21	1,90	2,00	1,72	1,47	1,41	1,03	1.35	1.41	1.35	1.37
C _r	B ₀	1,47	1,23	1,30	1,30	1,96	1,84	1,84	1,88	1,30	1,30	0,86	1,19	1.35	1.23	1.35	1.31
	B ₁	1,47	1,09	1,72	1,09	2,08	2,21	2,08	2,12	1,09	1,72	1,09	1,63	1.47	1.47	1.35	1.43
	Mean	1,47	1,41	1,04	1,47	2,02	2,03	1,96	2,00	1,47	1,04	1,23	1,41	1.41	1.35	1.35	1.37
Mean of B		1,32	1,04			1,84	1,97			1,27	1,00			1.30	1.42		
Mean of Y		1,30	1,03	1,41		1,80	2,07	1,86		1,39	1,40	1,39		1.33	1.37	1.37	
		Phosphorus (%) in herb															
C ₁	B ₀	0,19	0,20	0,22	0,20	0,26	0,24	0,20	0,20	0,20	0,22	0,20	0,22	0,20	0,20	0,24	0,21
	B ₁	0,21	0,20	0,18	0,20	0,20	0,28	0,28	0,27	0,21	0,24	0,23	0,23	0,19	0,23	0,22	0,21
	Mean	0,20	0,20	0,20	0,20	0,26	0,26	0,27	0,26	0,21	0,23	0,24	0,23	0,20	0,22	0,23	0,21
C ₂	B ₀	0,16	0,22	0,21	0,20	0,26	0,24	0,23	0,24	0,24	0,26	0,20	0,20	0,18	0,21	0,19	0,19
	B ₁	0,18	0,26	0,20	0,21	0,27	0,26	0,28	0,27	0,20	0,38	0,37	0,33	0,20	0,23	0,23	0,22
	Mean	0,17	0,24	0,21	0,21	0,27	0,20	0,26	0,26	0,20	0,32	0,31	0,29	0,19	0,22	0,21	0,21
C ₃	B ₀	0,24	0,22	0,20	0,22	0,29	0,29	0,29	0,29	0,40	0,20	0,24	0,30	0,23	0,21	0,21	0,22
	B ₁	0,21	0,17	0,24	0,21	0,29	0,20	0,32	0,29	0,27	0,32	0,24	0,28	0,22	0,19	0,21	0,21
	Mean	0,23	0,20	0,22	0,21	0,29	0,27	0,31	0,29	0,34	0,29	0,24	0,29	0,23	0,20	0,21	0,21
Mean of B		0,21	0,21			0,26	0,28			0,26	0,28			0,21	0,21		
Mean of Y		0,20	0,21	0,21		0,27	0,26	0,28		0,26	0,28	0,26		0,20	0,21	0,22	

C = Compost(5,10,20 m³/feddan)

B= Bio-fertilizer (0, with)

Y= Yeast (0,5,10 g /L)

Table 7. Effect of compost, bio-fertilizer and yeast on potassium and total carbohydrates percentages of oregano herb, (*Origanum syriacum*, L. cv. Sinaicum) plants, during 2004 and 2005 seasons

Treatments		Potassium (%) in herb															
		2004								2005							
		1 st Cut				2 nd Cut				1 st Cut				2 nd Cut			
		Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean	Y ₀	Y ₁	Y ₂	Mean
C ₁	B ₀	0.64	0.6	0.76	0.67	0.59	0.66	0.57	0.61	0.39	0.09	0.01	0.0	0.25	0.28	0.36	0.30
	B ₁	0.6	0.6	0.67	0.62	0.5	0.6	0.51	0.54	0.39	0.09	0.01	0.0	0.18	0.2	0.27	0.22
	Mean	0.62	0.60	0.72	0.65	0.55	0.63	0.54	0.57	0.39	0.09	0.01	0.0	0.22	0.24	0.32	0.26
C _r	B ₀	0.55	0.6	0.67	0.61	0.75	0.41	0.73	0.63	0.01	0.07	0.47	0.01	0.27	0.32	0.23	0.27
	B ₁	0.91	0.73	0.83	0.82	0.76	0.76	0.87	0.80	0.00	0.70	0.79	0.71	0.28	0.3	0.36	0.31
	Mean	0.73	0.67	0.75	0.72	0.76	0.59	0.80	0.71	0.03	0.09	0.08	0.07	0.28	0.31	0.30	0.29
C _r	B ₀	0.82	0.71	0.85	0.79	0.55	0.6	0.66	0.60	0.09	0.41	0.09	0.03	0.27	0.21	0.25	0.24
	B ₁	0.87	0.71	0.73	0.77	0.57	0.51	0.39	0.49	0.44	0.00	0.41	0.40	0.25	0.3	0.25	0.27
	Mean	0.80	0.71	0.79	0.78	0.56	0.56	0.53	0.50	0.02	0.47	0.0	0.49	0.26	0.26	0.25	0.26
Mean of B		0.69	0.74			0.61	0.61			0.01	0.02			0.27	0.27		
Mean of Y		0.73	0.66	0.70		0.62	0.09	0.62		0.48	0.04	0.03		0.25	0.27	0.29	
		Total carbohydrates (%) in herb															
C ₁	B ₀	4.09	8.79	13.04	8.77	6.61	8.47	8.66	7.91	9.41	14.31	19.73	14.40	12.07	10.12	13.06	11.92
	B ₁	14.46	9.38	10.4	13.08	10.97	9.85	8.08	9.63	17.02	17.03	18.71	17.89	17.29	10.06	14.97	10.94
	Mean	9.03	9.04	14.22	10.93	8.79	9.16	8.37	8.77	13.47	10.92	19.12	16.17	14.78	12.84	14.27	13.93
C ₂	B ₀	8.72	10.02	12.06	12.27	7.81	13.88	7.96	9.88	14.72	21.28	14.78	16.86	17.0	21.06	17.72	18.89
	B ₁	14.94	13.08	10.8	14.77	17.39	9.68	12.57	13.21	10.27	19.22	17.70	17.08	9.74	12.07	12.04	11.72
	Mean	11.83	14.00	14.18	13.02	12.60	11.78	10.27	11.55	14.90	20.20	10.72	16.97	13.72	17.07	10.08	10.26
C ₃	B ₀	10.88	10.14	12.74	12.92	18.13	14.53	20.88	17.85	14.79	17.84	18.31	16.98	13.47	12.83	10.87	14.06
	B ₁	11.74	10.21	8.90	10.30	16.2	16.18	23.77	18.72	17.13	14.79	17.08	16.0	21.73	17.03	17.37	18.78
	Mean	11.31	12.78	10.80	11.61	17.17	15.36	22.33	18.28	10.96	17.32	17.20	16.49	17.00	14.93	17.72	16.37
Mean of B		11.32	12.72			11.88	13.85			16.10	16.99			14.96	10.41		
Mean of Y		10.89	12.09	13.08		12.85	12.10	13.65		14.79	17.00	17.34		10.28	14.90	10.32	

C = Compost (5,10,20 m³/feddan)

B= Bio-fertilizer (0, with)

Y= Yeast (0,5,10 g /L)