

Table (1): Suckering effect on total fresh weight (g), number and average weight (g) of suckers and/or watersprouts per tree of Manfalouty pomegranate cv. during 2004 to 2007 seasons.

Characters Seasons Treatments	Total fresh weight (g) of Suckers and/or watersprouts/tree				Number of Suckers and/or watersprouts/tree				Average weight (g) of Suckers and/or watersprouts/tree			
	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean
1 Month	663.90	559.30	551.90	591.70	373.00	212.67	183.33	257.00	1.77	2.63	2.98	2.46
2 Month	1214.47	1039.93	1283.83	1179.41	241.33	204.33	168.33	201.67	5.03	5.13	8.22	6.13
3 Month	2139.67	2282.07	2107.20	2176.31	122.00	111.67	103.33	112.33	17.57	20.43	20.42	19.47
4 Month	2615.90	2604.10	2692.20	2637.40	117.33	108.67	104.00	110.00	22.28	24.44	25.9	24.21
5 Month	2792.20	2801.53	2725.97	2773.23	107.00	103.33	94.33	101.56	26.13	27.1	28.9	27.38
6 Month	3208.73	3375.03	3143.00	3236.26	58.67	53.00	45.67	52.44	54.69	63.33	69.82	62.61
7 Month	3344.27	3412.00	3457.13	3404.47	49.33	43.67	42.00	45.00	67.96	78.14	82.1	76.07
8 Month	3851.73	3816.23	3724.67	3797.54	48.33	44.00	41.67	44.67	79.72	87.2	90.18	85.70
9 Month	4215.07	4080.10	4047.17	4114.10	47.00	42.67	41.00	43.56	89.73	97.68	99.98	95.80
10 Month	3950.30	3958.70	3839.23	3916.08	46.00	43.67	39.33	43.00	86.03	90.84	98.66	91.84
11 Month	4100.37	3965.17	3923.70	3996.41	43.33	42.00	38.00	41.11	94.84	94.6	104.3	97.91
12 Month (control)	4075.37	3977.03	4026.97	4026.46	42.33	41.00	37.00	40.11	96.44	97.2	109.86	68.17
T-Dunnett 5%	355.11	331.57	379.71	197.82	9.04	6.86	25.90	6.70	8.44	7.78	18.99	7.06

Table (2): Suckering effect on some vegetative growth traits of Manfalouty pomegranate cv. during 2004 to 2007 seasons.

Characters	Upper shoot length (cm)				Leaf number/shoot				Leaf area (cm ²)			
Seasons Treatments	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean
1 Month	66.33	68.00	70.00	68.11	112.77	115.60	119.10	115.84	6.57	7.43	8.50	7.50
2 Month	64.33	65.33	66.33	65.33	109.33	111.07	112.77	111.06	6.47	7.33	8.37	7.39
3 Month	63.33	64.33	65.00	64.22	107.67	109.38	110.50	109.18	6.23	7.07	7.63	6.98
4 Month	62.00	61.00	60.33	61.11	105.40	103.70	102.57	103.89	6.87	6.80	6.63	6.73
5 Month	59.33	58.00	56.67	58.00	100.87	98.63	96.33	98.61	6.73	6.70	6.57	6.66
6 Month	49.00	48.00	46.67	47.89	78.40	76.80	74.93	76.71	6.63	6.53	6.50	6.56
7 Month	48.67	47.67	46.67	47.67	77.33	75.73	74.80	75.96	6.63	6.60	6.47	6.57
8 Month	48.33	47.00	46.33	47.22	76.80	75.07	74.27	75.38	6.63	6.53	6.50	6.55
9 Month	47.67	47.00	46.00	46.89	76.27	75.07	73.60	74.98	6.50	6.50	6.50	6.48
10 Month	47.67	47.00	46.00	46.89	76.27	75.07	73.60	74.98	6.50	6.50	6.47	6.47
11 Month	47.67	47.00	45.67	46.78	76.27	75.07	73.60	74.98	6.50	6.50	6.40	6.46
12 Month (control)	47.67	47.00	45.67	46.78	76.27	75.07	73.60	75.18	6.50	6.47	6.40	6.46
T-Dunnett 5%	2.55	3.11	3.39	1.66	4.08	5.45	5.14	2.68	0.24	0.27	0.29	0.15

Table(3): Suckering effect on shoot total carbohydrate percentage (C), total nitrogen percentage (N) and C/N ratio in shoots of Manfalouty pomegranate cv. during 2004 to 2007 seasons.

Characters	Carbohydrate % (C)				Total nitrogen % (N)				C/N ratio			
Seasons Treatments	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean
1 Month	15.73	16.33	17.20	16.42	2.64	2.66	2.70	2.67	5.97	6.14	6.36	6.16
2 Month	15.47	15.90	16.59	15.99	2.60	2.63	2.67	2.63	5.96	6.04	6.22	6.07
3 Month	14.70	15.60	15.70	15.22	2.57	2.60	2.63	2.60	5.72	5.88	5.96	5.85
4 Month	14.33	14.12	13.93	14.12	2.54	2.54	2.52	2.53	5.64	5.57	5.52	5.58
5 Month	14.06	14.06	13.43	13.85	2.53	2.52	2.51	2.52	5.65	5.58	5.35	5.53
6 Month	13.99	13.92	13.79	13.89	2.53	2.52	2.51	2.52	5.52	5.85	5.50	5.51
7 Month	13.95	13.88	13.78	13.87	2.53	2.51	2.50	2.51	5.52	5.52	5.50	5.52
8 Month	13.88	13.82	13.77	13.82	2.52	2.51	2.50	2.51	5.50	5.51	5.50	5.51
9 Month	13.68	13.66	13.65	13.66	2.52	2.50	2.51	2.51	5.44	5.46	5.44	5.45
10 Month	13.63	13.52	13.38	13.51	2.51	2.50	2.50	2.51	5.42	5.41	5.35	5.39
11 Month	13.52	13.39	13.28	13.39	2.50	2.50	2.50	2.50	5.39	5.35	5.35	5.36
12 Month (control)	13.45	13.28	13.14	13.29	2.50	2.50	2.50	2.50	5.37	5.31	5.26	5.31
T-Dunnnett 5%	0.56	0.84	0.90	0.38	0.04	0.04	0.06	0.03	0.56	0.84	0.90	0.38

Table(4): Suckering effect on fruit set (%), yield weight (kg)/tree and Commercial yield (%)/tree of Manfalouty pomegranate cv. during 2004 to 2007 seasons.

Characters	Fruit set percentage				Yield (kg)/tree				Commercial yield %			
Seasons Treatments	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean
1 Month	46.12	54.73	57.10	52.65	82.00	86.00	89.00	85.67	83.77	86.47	86.23	85.49
2 Month	46.68	53.80	55.93	52.14	74.33	78.33	84.00	78.89	81.97	82.83	84.17	82.99
3 Month	45.96	53.05	54.20	51.03	65.00	71.33	76.33	70.89	78.13	78.50	78.33	78.32
4 Month	42.00	46.76	46.17	45.20	64.33	60.33	57.33	60.67	72.93	69.20	67.97	69.73
5 Month	39.00	43.63	42.63	41.96	57.33	53.67	50.67	53.89	69.63	69.20	66.67	70.06
6 Month	38.00	42.69	42.08	41.15	57.00	53.33	47.00	52.44	67.70	66.83	66.30	66.94
7 Month	38.00	40.33	39.35	39.00	54.67	51.67	47.67	51.33	68.80	66.33	66.87	67.33
8 Month	37.00	39.60	38.86	38.00	53.67	50.33	47.00	50.33	68.70	67.67	69.80	67.72
9 Month	36.70	38.55	38.41	37.00	53.33	50.00	46.33	49.89	67.30	66.13	65.27	66.23
10 Month	37.25	36.65	35.97	36.62	49.67	46.67	42.67	46.33	66.17	64.17	63.40	64.58
11 Month	35.76	35.13	34.29	35.06	47.00	45.00	42.33	44.78	65.97	64.23	64.50	64.46
12 Month (control)	35.93	34.18	33.27	35.26	46.67	45.00	41.67	44.44	65.47	65.37	63.80	64.84
T-Dunnett 5%	4.51	4.52	3.58	2.31	9.27	7.25	12.74	4.14	4.73	3.61	5.85	2.62

Table(5): Suckering effect on fruit splitting percentage, weight (g) and grains/fruit weight percentage of Manfalouty pomegranate cv. during 2004 to 2007 seasons.

Characters	Fruit splitting percentage				Fruit weight (g)				Grains weight percentage/fruit			
Seasons Treatments	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean
1 Month	7.83	7.47	7.20	7.50	540.00	555.00	580.00	558.33	60.30	61.67	63.33	61.77
2 Month	7.93	7.70	7.60	7.74	530.00	583.67	562.33	548.56	60.73	61.17	61.67	61.19
3 Month	7.90	8.00	7.53	7.81	476.67	503.33	516.67	498.89	60.27	60.77	60.83	60.62
4 Month	8.87	9.10	9.30	9.09	428.33	418.33	406.67	428.89	59.43	58.67	58.20	58.77
5 Month	9.33	9.23	9.33	9.30	398.33	386.67	410.00	398.33	59.27	58.90	58.77	58.98
6 Month	9.60	9.77	9.53	9.69	388.67	380.00	371.67	380.11	58.90	58.43	58.17	58.50
7 Month	10.13	10.07	10.40	10.20	355.33	379.33	375.00	378.78	59.00	57.90	57.77	58.22
8 Month	10.30	10.63	10.80	10.58	372.33	368.67	365.33	368.78	58.67	58.30	58.07	58.29
9 Month	10.20	10.30	10.83	10.44	368.00	369.33	366.33	367.78	58.13	57.80	57.40	57.78
10 Month	10.30	10.40	10.80	10.50	360.67	357.00	353.00	356.89	57.50	57.03	56.90	57.26
11 Month	11.43	11.57	11.83	11.61	359.67	358.67	356.00	358.11	56.87	56.67	56.47	56.67
12 Month (control)	11.27	11.50	11.73	11.50	357.67	361.33	348.33	353.78	56.67	56.53	56.33	56.51
T-Dunnett 5%	0.47	0.52	0.65	0.29	45.12	47.59	35.54	21.82	2.05	1.80	1.31	0.94

Table(6): Suckering effect on total soluble solids (TSS) (%), titratable acidity %, TSS/acid ratio and reducing sugar percentage in fruit juice of Manfalouty pomegranate cv. during 2004 to 2007 seasons.

Characters	TSS (%)				Titratable acidity (%)				TSS/acid ratio				Reducing sugar (%)			
Seasons Treatments	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean	2004/ 2005	2005/ 2006	2006/ 2007	Mean
1 Month	16.50	17.33	17.53	17.12	1.08	1.06	1.06	1.07	15.33	16.30	16.60	16.07	11.65	11.75	11.85	11.75
2 Month	16.30	16.63	17.13	16.69	1.11	1.12	1.11	1.11	14.77	14.90	15.43	15.02	11.62	11.72	11.82	11.72
3 Month	16.00	16.33	16.73	16.36	1.15	1.17	1.18	1.17	13.90	13.90	14.17	13.99	11.60	11.69	11.79	11.69
4 Month	15.60	15.40	15.20	15.40	1.13	1.17	1.18	1.16	13.80	13.10	12.80	13.25	11.56	11.50	111.46	11.50
5 Month	15.40	15.20	15.00	15.20	1.17	1.18	1.19	1.18	13.13	12.80	12.57	12.81	11.48	11.45	11.39	11.44
6 Month	15.20	15.00	14.80	15.00	1.18	1.19	1.21	1.19	12.87	12.60	12.27	12.59	11.42	11.37	11.35	11.38
7 Month	15.00	14.80	14.60	14.80	1.19	1.20	1.21	1.20	12.63	12.37	12.03	12.34	11.26	11.23	11.21	11.23
8 Month	14.80	14.60	14.40	14.60	1.20	1.21	1.22	1.21	12.40	12.07	11.83	12.09	11.24	11.22	11.20	11.22
9 Month	14.60	14.40	14.20	14.40	1.21	1.22	1.23	1.22	12.10	11.83	11.57	11.84	11.22	11.19	11.16	11.19
10 Month	14.40	14.20	14.00	14.20	1.22	1.23	1.23	1.23	11.83	11.57	11.37	11.59	11.18	11.16	11.13	11.16
11 Month	14.33	14.20	14.07	14.20	1.22	1.24	1.25	1.23	11.73	11.50	11.30	11.51	11.13	11.11	11.10	11.11
12 Month (control)	14.17	14.10	14.00	14.09	1.24	1.24	1.27	1.25	11.53	11.40	11.07	11.29	11.08	11.07	11.06	11.07
T-Dunnett 5%	0.37	0.37	0.47	0.22	0.04	0.03	0.04	0.03	0.59	0.52	0.78	0.34	0.10	0.09	0.10	0.06