Table(1): Effect of pruning, defoliation and N-fertilization on number of lateral shoots and leaves/shoot on Abdel-Razik Annona cultivar during 2003 and 2004, seasons.

Treatments	First season		Second season	
	Lateral/ shoots No	Leaves/ shoot No	Lateral/ shoots No	Leaves/ shoot No
Control	0.3	47.1	0.0	47.3
N-fertilization	1.0	48.0	1.0	47.7
Defoliation + N-fertilization	1.7	48.4	1.6	48.0
HB by removing 5 cm. + N	1.7	48.7	2.0	49.1
HB by removing 10 cm. + N	5.1	56.0	5.0	54.9
HB by removing 20 cm. + N	7.3	60.3	5.2	59.2
Thinning out + N	4.1	49.2	3.0	48.0
Defoliation	1.3	42.6	1.0	47.8
HB by removing 5 cm.	1.3	47.9	1.3	48.0
HB by removing 10 cm.	3.4	51.5	2.4	50.4
HB by removing 20 cm.	4.5	53.0	4.8	52.6
Thinning out	2.0	48.3	1.3	48.0
New L.S.D at 0.05	1.36	3.51	1.14	4.01

Table(2): Effect of pruning, defoliation and N-fertilization on flowering (start, end and days) required on Abdel-Razik Annona cultivar during 2003 and 2004, seasons.

Treatments	First season			Second season		
	Flowering time		Days required	Flowering time		Days required
	Start	End		Start	End	
Control	May 23rd	Sep. 11th	112	May 28th	Sep. 16th	112
N-fertilization	" 9th	Aug.29th	114	" 13th	Aug.31th	112
Defoliation + N	" 8th	" 25th	111	" 11th	" 29th	112
HB by removing 5 cm. +N	" 8th	" 24th	110	" 10th	" 30th	114
HB by removing 10 cm.+N	" 8th	" 24th	110	" 8th	" 25th	111
HB by removing 20 cm.+N	" 6th	" 23rd	111	" 7th	" 23rd	110
Thinning + N	" 9th	" 27th	112	" 10th	" 29th	113
Defoliation	" 11th	" 30th	113	" 9th	" 27th	112
HB by removing 5 cm.	" 12th	" 30th	112	" 8th	" 26th	112
HB by removing 10 cm.	" 11th	" 29th	112	" 10th	" 30th	114
HB by removing 20 cm.	" 11th	" 30th	113	" 10th	" 29th	113
Thinning out	" 10th	" 29th	113	" 9th	" 27th	112
New L.S.D at 0.05			N.S			N.S

Table (3): Effect of pruning, defoliation and N-fertilization on number of flowers, fruit set % and yield components on Abdel-Razik Annona cultivar during 2003 and 2004, seasons.

Treatment	First season				Second season			
	No of flowers	Fruit set (%)	Yield components		No of flowers	Fruit set (%)	Yield components	
			No.of Fruit per tree	Kg./tree			NO. of Fruit Per tree	Kg./tree
Control	33.4	2.1	8.1	2.360	34.8	2.0	7.4	2.208
N-fertilization	38.2	5.0	12.5	3.716	37.5	4.6	10.5	3.195
Defoliation + N	39.3	8.3	19.3	6.139	40.1	7.5	16.3	5.013
HB by removing 5 cm.+N	40.6	12.2	33.6	10.842	42.4	12.0	32.1	10.605
HB by removing 10 cm.+N	51.1	14.6	40.1	15.077	52.7	14.8	41.3	15.755
HB by removing 20 cm. +N	44.2	13.7	36.8	14.322	44.9	12.8	34.6	13.435
Thinning + N	41.1	7.3	14.9	5.402	43.8	6.0	13.1	4.704
Defoliation	36.0	5.4	13.0	3.903	35.6	5.1	12.4	3.737
HB by removing 5 cm.	39.7	9.6	20.2	6.387	40.2	8.4	22.8	7.129
HB by removing 10 cm.	43.5	10.1	27.0	9.736	44.0	10.0	24.5	8.771
HB by removing 20 cm.	40.9	9.8	25.7	9.467	41.1	8.3	21.8	7.852
Thinning out	39.4	6.8	13.6	4.761	39.6	6.0	12.5	4.431
New L.S.D at 0.05	2.51	2.81	3.27	2.19	2.41	2.33	2.85	2.06

Table (4): Effect of pruning, defoliation and N-fertilization on some physical properties of fruit on Abdel-Razik Annona cultivar during 2003 and 2004 seasons.

Treatments	First season				Second season			
	Fruit weight	Fruit height (H)	Fruit diameter (D)	H/D	Fruit weight	Fruit height (H)	Fruit diameter (D)	H/D
Control	291.4	7.7	7.9	0.90	298.5	7.9	7.9	1.00
N-fertilization	302.1	7.8	7.0	1.00	309.3	7.9	8.0	0.99
Defoliation + N	318.1	8.0	8.1	0.99	307.6	8.3	8.4	0.99
HB by removing 5 cm.. + N	322.7	8.1	8.1	1.00	330.4	8.3	8.3	1.00
HB by removing 10 cm.+ N	376.0	8.3	8.3	1.00	381.5	8.5	8.5	1.00
HB by removing 20 cm.+ N	389.2	8.3	8.7	0.95	388.3	8.5	8.6	0.99
Thinning + N	362.6	8.2	8.3	0.99	359.1	8.3	8.3	1.00
Defoliation	300.3	7.7	7.7	1.00	301.4	7.6	7.6	1.00
HB by removing 5 cm.	316.2	7.8	7.8	1.00	312.7	8.0	8.0	1.00
HB by removing 10 cm..	360.6	7.9	8.0	0.99	358.0	8.2	8.3	0.99
HB by removing 20 cm.	368.4	8.0	8.0	1.00	360.2	8.2	8.2	1.00
Thinning out	350.1	7.8	7.9	0.98	354.5	8.0	8.0	1.00
New L.S.D at 0.05	6.54	N.S	N.S	N.S	6.78	N.S	N.S	N.S

Table(5): Effect of pruning, defoliation and N-fertilization on some chemical properties of fruit on Abdel-Razik Annona cultivar during 2003 and 2004 seasons.

Treatments	First season			Second season		
	TSS	Acidity	TSS/acid ratio	TSS	Acidity	TSS/acid ratio
Control	20.53	0.22	93.31	20.49	0.22	93.13
N-fertilization	19.84	0.25	79.36	19.80	0.24	82.50
Defoliation + N	19.77	0.24	82.38	19.68	0.24	82.00
HB by removing 5 cm.+ N	19.71	0.24	82.13	19.70	0.24	82.08
HB by removing 10 cm.+ N	19.13	0.25	76.52	19.44	0.24	81.00
HB by removing 20 cm.. + N	19.85	0.24	82.11	19.86	0.25	79.44
Thinning + N	19.73	0.24	82.21	19.66	0.24	81.32
Defoliation	20.60	0.22	93.64	20.53	0.22	89.26
HB by removing 5 cm.	20.64	0.22	93.62	20.60	0.22	93.64
HB by removing 10 cm.	20.68	0.22	94.00	20.62	0.22	93.12
HB by removing 20 cm.	20.63	0.22	93.17	20.60	0.22	89.57
Thinning out	20.59	0.22	93.59	20.55	0.22	93.41
New L.S.D at 0.05	0.24	N.S	2.14	0.16	N.S	2.07

Table (6): Effect of pruning, defoliation and N-fertilization on leaf content of NPK on Abdel-Razik Annona cultivar during 2003 and 2004 seasons.

Treatments	First season			Second season		
	N	P	k	N	P	k
Control	1.31	0.367	1.07	1.27	0.357	1.10
N-fertilization	1.50	0.398	1.11	1.49	0.369	1.14
Defoliation + N	1.56	0.412	1.27	1.53	0.418	1.27
HB by removing 5 cm.+ N	1.61	0.416	1.29	1.57	0.416	1.30
HB by removing 10 cm.+ N	1.59	0.414	1.27	1.57	0.418	1.26
HB by removing 20 cm.+ N	1.59	0.412	1.28	1.54	0.418	1.24
Thinning + N	1.60	0.412	1.28	1.57	0.416	1.27
Defoliation	1.44	0.374	1.12	1.39	0.366	1.14
HB by removing 5 cm.	1.48	0.377	1.22	1.40	0.368	1.24
HB by removing 10 cm.	1.47	0.368	1.27	1.46	0.359	1.26
HB by removing 20 cm.	1.47	0.374	1.27	1.48	0.354	1.26
Thinning out	1.48	0.368	1.09	1.48	0.351	1.11
New L.S.D at 0.05	N.S	N.S	N.S	N.S	N.S	N.S