

Table(4): Effect of organic and inorganic nitrogen fertilization treatments on some growth parameters of Roumi Red grapevines during 2004 and 2005 seasons

Treatment	Shoot length (cm)		Shoot thickness (cm)		No Branches/shoot.		Leaf area(cm ²)		Pruning wood weight (Kg)	
	2004	2005	2004	2005	2004	2005	2004	2005	2004	2005
I (Control)	163.2	141	1.29	0.93	19.33	19.40	104.1	120.2	2.38	2.45
1/2 I +1/2 F.M.C.	173.1	148.0	1.47	1.01	20.0	20.0	128.1	145.0	2.78	2.86
1/4 I +3/4 F.M.C	174.0	168.0	1.46	1.06	19.83	19.97	123.7	143.8	2.91	2.96
F.M.C.	191.1	170	1.48	1.08	22.9	21.8	123.3	163.0	3.56	3.27
1/2 I +1/2 Ch.M.	172.0	153.0	1.43	1.02	21.11	18.87	122.0	128.0	2.69	2.67
1/4 I +3/4 Ch.M	169.0	157.0	1.33	1.02	20.33	20.13	120.2	129.3	2.98	3.15
Ch.M	188	165	1.41	1.06	20.8	20.2	132.3	178.0	3.04	3.18
L.S.D _{0.05}	25.1	19.8	0.18	0.11	N.S	N.S	14.0	19.20	0.43	0.36

Table(5):Effect of organic and inorganic nitrogen fertilization treatments on leaf nutrient composition some growth parameters of Roumi Red grapevines during 2004 and 2005 seasons

Treatment	N(%)		P(%)		K(%)		Zn(ppm)		Fe(ppm)		Mn(ppm)	
	2004	2005	2004	2005	2004	2005	2004	2005	2004	2005	2004	2005
I (Control)	1.84	1.81	0.10	0.09	0.75	0.80	30.80	28.30	81.4	86.60	27.30	30.60
1/2 I +1/2 F.M.C.	2.08	2.25	0.15	0.16	0.93	0.98	33.00	35.90	90.30	89.80	29.50	32.60
1/4 I +3/4 F.M.C	2.37	2.51	0.14	0.16	0.99	1.06	36.00	37.00	96.6	93.00	31.90	38.40
F.M.C.	2.35	2.54	0.16	0.18	1.03	1.09	37.00	38.00	95.00	93.30	33.10	40.00
1/2 I +1/2 Ch.M.	2.18	2.34	0.13	0.13	0.86	1.00	36.00	35.90	85.80	87.30	28.50	31.80
1/4 I +3/4 Ch.M	2.21	2.27	0.13	0.13	1.05	1.11	38.60	39.80	102.0	98.60	30.60	32.10
Ch.M	2.37	2.48	0.14	0.15	1.08	1.13	39.80	41.00	103.60	99.60	30.80	33.00
L.S.D _{0.05}	0.09	0.14	0.02	0.03	0.05	0.05	1.08	1.21	2.03	1.98	1.70	1.95

Table(6): Effect of organic and inorganic nitrogen fertilization treatments on yield and yield components of Roumi Red grapevines during 2004 and 2005 seasons

Treatment	Berry set (%)		No. Cluster/ vine		Cluster weight(g)		Yield / vine(Kg)	
	2004	2005	2004	2005	2004	2005	2004	2005
M (Control)	9.12	8.62	29.32	27.21	370.8	358.5	10.35	9.62
1/2I+1/2F.M.C.	9.58	9.45	25.38	31.73	412.3	385.5	10.38	11.90
1/4I+3/4F.M.C	10.70	9.85	27.13	36.14	453.5	418.7	11.30	15.00
F.M.C.	11.58	10.81	26.60	37.83	461.50	473.4	11.70	17.20
1/2I+1/2Ch.M.	9.69	9.13	26.70	31.47	405.5	391.0	10.80	12.35
1/4I+3/4Ch.M	9.63	9.40	19.08	34.80	438.5	415.8	11.60	14.30
Ch.M	10.94	10.08	26.15	36.28	444.70	452.6	11.20	16.10
L.S.D _{0.05}	0.38	0.45	N.S	3.36	18.8	26.1	0.83	1.28

Table(7): Effect of organic and inorganic nitrogen fertilization treatments on Berry quality of Roumi Red grapevines during 2004 and 2005 seasons

Treatment	25 berry weight(g)		Berry length (cm)		T.S.S%		Reducing sugar(%)		Acidity (%)	
	2004	2005	2004	2005	2004	2005	2004	2005	2004	2005
I (Control)	105.5	106.5	2.23	2.18	16.53	16.33	11.27	11.51	0.583	0.423
1/2 I+1/2 F.M.C.	108.8	109.2	2.40	2.37	16.80	16.80	12.10	11.95	0.545	0.400
1/4I+3/4 F.M.C	111.0	113.0	2.46	2.42	17.20	17.00	13.21	12.24	0.510	0.375
F.M.C.	113.0	116.3	2.48	2.43	19.33	17.93	13.35	12.86	0.505	0.363
1/2I+1/2 Ch.M.	107.0	109.0	2.36	2.33	16.67	16.50	11.75	11.63	0.550	0.393
1/4I+3/4 Ch.M	108.9	111.8	2.43	2.40	17.60	17.00	12.67	12.15	0.513	0.385
Ch.M	111.3	115.8	2.50	2.41	18.97	17.57	12.83	12.16	0.518	0.396

L.S.D _{0.05}	1.8	2.4	0.18	0.21	0.38	0.51	0.64	0.59	0.028	0.023
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