

Table 1. Leaf mineral content of olive varieties in season, 2001

Variety	Manzanello			Picual			Arbicon			Coratina		
Treatment	Cont.	IBF	L.S.D.	Cont.	IBF	L.S.D	Cont.	IBF	L.S.D.	Cont.	IBF	L.S.D.
Element												
N	1.3	1.50	0.10	1.05	1.47	0.15	1.33	1.65	0.20	1.15	1.65	0.25
P	0.11	0.20	0.06	0.10	0.18	0.04	0.08	0.22	0.10	0.07	0.20	0.05
K	1.10	1.60	0.32	1.00	1.90	0.35	1.03	1.50	0.30	1.15	1.60	0.32
Mg	0.17	0.28	0.05	0.10	0.25	0.05	0.15	0.25	0.07	0.16	0.22	0.04
Fe	75	169	18	84	137	22	76	125	20	80	147	25
Mn	21	52	11	20	45	16	23	40	9	20	35	9
Zn	18	33	6	15	25	7	20	32	7	16	26	5

IBF: Integrated and Balanced Fertigation

Cont. : Control

Table 2. Leaf mineral content of olive varieties is season, 2002

Variety	Manzanello			Picual			Arbicon			Coratina		
Treatment	Cont.	IBF	L.S.D.	Cont.	IBF	L.S.D.	Cont.	IBF	L.S.D.	Cont.	IBF	L.S.D.
Element												
N	1.20	1.54	0.15	1.05	1.40	0.20	1.05	1.05	0.25	1.20	1.50	0.21
P	0.10	0.22	0.05	0.07	0.17	0.03	0.15	0.29	0.11	0.08	0.21	0.05
K	1.20	2.1	0.30	1.10	2.20	0.40	1.20	1.65	0.25	1.20	2.00	0.29
Mg	0.18	0.26	0.03	0.20	0.37	0.05	0.19	0.30	0.07	0.14	0.22	0.04
Fe	72	134	16	87	153	25	81	140	0.18	87	153	22
Mn	20	42	10	27	44	12	25	64	12	21	33	8
Zn	15	25	4	13	22	6	22	36	8	15	22	4

IBF : Integrated and Balanced Fertigation

Con. : Control

Table 3. Productivity and fruit quality of olive varieties in two seasons, 2001 and 2002

Olive varieties		Yield Kg/Tree		Oil %		Free Fatty acids %		Iodin Number		Peroxide number Mg/Kg		Acidity %	
		2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
Manzanillo	Cont.	15.6	27.9	16	15	1.20	1.00	92	90	15.5	14.0	0.9	0.8
	IBF	21.1	32.5	19	18	0.69	0.62	84	82	11.4	8.6	0.7	0.6
	L.S.D	3.4	2.9	1.5	1.7	0.31	0.27	6.1	6.2	2.4	2.6	0.1	0.1
Picual	Cont.	17.9	28.1	17	18	1.30	1.10	87	89	16.3	11.5	1.0	0.9
	IBF	23.8	34.1	21	20	0.73	0.48	80	77	11.5	6.3	0.8	0.7
	L.S.D	3.2	3.6	2.3	1.2	0.28	0.30	4.8	5.0	2.6	3.1	0.1	0.1
Arbican	Cont.	12.5	19.1	6	6	0.90	0.95	90	93	18.6	17.5	0.8	0.9
	IBF	17.2	24.0	7	8	0.71	0.69	84	81	15.4	13.3	0.7	0.8
	L.S.D	3.5	2.9	N.S	1.6	N.S	0.26	4.2	4.9	2.0	3.0	N.S	N.S
Coraina	Cont.	13.8	25.4	18	17	0.77	0.92	86	88	19.1	18.0	0.5	0.7
	IBF	19.7	29.0	20	19	0.53	0.42	77	72	12.3	7.5	0.4	0.5

L.S.D	3.7	2.6	1.5	1.4	0.19	0.25	3.9	5.6	3.4	4.2	N.S	0.1
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IBF : Integrated and Balanced Fertigation

2001 : off year, 2002 : on year