

**Table 3. Effect of some inorganic N fertilizer, EM, yeast and humic acid treatments on the leaf area (cm<sup>2</sup>), percentages of N-P-K in the leaves, yield, fruit weight and total soluble solids % of the fruits of Anna apple trees during 2009 and 2010 seasons**

Inorganic N fertilizer, EM, yeast and humic acid treatments	Leaf area (cm <sup>2</sup> )		Leaf N %		Leaf P %		Leaf K %		Yield/tree (kg.)		Fruit weight (g.)		T.S.S %	
	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010
Inorganic N at 100 % alone	55.9	56.6	2.74	2.79	0.11	0.12	1.74	1.76	41.9	43.0	80.0	80.9	14.0	14.2
Inorganic N at 80 % alone	53.0	53.8	2.41	2.46	0.14	0.14	1.81	1.83	40.0	41.1	77.6	78.5	13.7	13.9
Inorganic N at 80 % + EM	64.3	65.0	2.67	2.70	0.25	0.25	2.08	2.11	48.0	49.1	90.0	90.9	14.9	15.1
Inorganic N at 80 % + yeast	58.5	59.0	2.51	2.55	0.18	0.18	1.90	1.92	44.5	45.6	83.3	84.2	14.4	14.5
Inorganic N at 80 % + humic acid	61.3	62.0	2.60	2.65	0.22	0.23	1.99	1.99	46.3	47.3	86.6	87.5	14.7	14.9
Inorganic N at 60 % alone	50.0	50.8	2.06	2.11	0.30	0.31	2.17	2.20	38.1	39.1	75.0	75.9	13.5	13.8
Inorganic N at 60 % + EM	64.0	64.9	2.31	2.35	0.39	0.40	2.45	2.46	47.9	49.0	89.5	90.4	14.8	15.0
Inorganic N at 60 % + yeast	58.1	58.7	2.15	2.20	0.32	0.33	2.27	2.30	44.0	45.1	83.0	83.9	14.3	14.5
Inorganic N at 60 % + humic acid	61.2	61.9	2.23	2.27	0.36	0.35	2.35	2.38	46.0	47.1	86.0	87.0	14.6	14.7
Inorganic N at 40 % alone	39.0	40.0	1.67	1.71	0.41	0.41	2.42	2.43	32.0	33.2	66.1	67.0	12.6	12.9
Inorganic N at 40 % + EM	45.9	46.7	2.00	2.04	0.48	0.47	2.66	2.68	36.4	37.6	72.6	73.6	13.3	13.4
Inorganic N at 40 % + yeast	41.5	42.3	1.77	1.81	0.43	0.43	2.51	2.53	33.6	34.9	68.4	69.5	12.8	13.0
Inorganic N at 40 % + humic acid	43.6	44.3	1.88	1.93	0.46	0.46	2.60	2.61	35.0	36.3	70.5	71.5	13.0	13.2
New L.S.D. at 5 %	1.7	1.9	0.06	0.07	0.02	0.02	0.06	0.07	1.4	1.5	2.0	1.9	0.2	0.2

**Table 4. Effect of some inorganic N fertilizer, EM, yeast and humic acid treatments on chemical characteristics of the fruits of Anna apple trees during 2009 and 2010 seasons**

Inorganic N fertilizer, EM, yeast and humic acid treatments	Total sugars %		Reducing sugars %		Non- reducing sugars %		Total acidity %		Nitrite in the pulp (ppm)		Nitrate in the pulp (ppm)	
	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010
Inorganic N at 100 % alone	11.0	11.2	7.9	8.0	3.1	3.2	0.560	0.553	1.55	1.62	3.99	3.92
Inorganic N at 80 % alone	10.6	10.7	7.7	7.7	2.9	3.0	0.580	0.573	0.99	1.06	3.50	3.43
Inorganic N at 80 % + EM	12.0	12.1	8.7	8.8	3.3	3.3	0.496	0.490	0.61	0.59	1.35	1.28
Inorganic N at 80 % + yeast	11.3	11.5	8.3	8.2	3.0	3.2	0.537	0.530	0.70	0.68	2.45	2.37
Inorganic N at 80 % + humic acid	11.7	11.8	8.5	8.6	3.2	3.2	0.518	0.511	0.65	0.63	1.94	1.88
Inorganic N at 60 % alone	10.3	10.4	7.5	7.6	2.8	2.8	0.600	0.593	0.71	0.80	3.20	3.13
Inorganic N at 60 % + EM	11.9	12.0	8.6	8.7	3.3	3.3	0.499	0.491	0.55	0.53	1.20	1.13
Inorganic N at 60 % + yeast	11.3	11.4	8.2	8.2	3.1	3.2	0.539	0.532	0.64	0.62	2.30	2.23
Inorganic N at 60 % + humic acid	11.6	11.8	8.4	8.5	3.2	3.3	0.519	0.512	0.59	0.57	1.80	1.70
Inorganic N at 40 % alone	9.1	9.2	6.7	6.8	2.4	2.4	0.680	0.673	0.64	0.71	2.69	2.62
Inorganic N at 40 % + EM	10.0	10.1	7.3	7.4	2.7	2.7	0.620	0.613	0.50	0.47	1.00	0.92
Inorganic N at 40 % + yeast	9.4	9.5	6.9	7.0	2.5	2.5	0.660	0.653	0.59	0.56	2.00	1.91
Inorganic N at 40 % + humic acid	9.7	9.9	7.1	7.2	2.6	2.7	0.641	0.634	0.53	0.50	1.50	1.41
New L.S.D. at 5 %	0.2	0.2	0.2	0.2	0.2	0.2	0.017	0.019	0.03	0.04	0.05	0.06