



Table 1. Correlation coefficients between quality expressed by price and chemical components of cured leaves, and among chemical components of cured leaves

	Quality	Total nitrogen	Protein nitrogen	Nicotine	Reducing sugar	Ash	pH	Pet. ether extract	Volatile acids
Quality		0.5185*	0.4230	0.2664	-0.1630	-0.6576**	-0.4421	0.6916**	0.5990**
Total nitrogen	0.6378**		0.7611**	0.7228**	0.0015	-0.0757	-0.2049	0.6344**	0.5853*
Protein nitrogen	0.4740*	0.7230**		0.5833*	-0.2138	0.0044	-0.3765	0.4381	0.2581
Nicotine	0.4330	0.6361**	0.3297		-0.2819	0.1338	-0.3643	0.5422*	0.4567
Reducing sugar	0.3695	0.1288	-0.0745	0.2319		-0.2237	-0.3391	-0.4997*	-0.2350
Ash	-0.7276**	-0.1236	-0.2327	0.1656	-0.4362		0.3662	-0.2715	-0.3730
pH	-0.6690**	-0.3916	-0.1959	-0.6209**	-0.6752**	0.3797		-0.2715	-0.2537
Pet. ether extract	0.6338**	0.7661**	0.4888*	0.5809*	0.3103	-0.4260	-0.3535		0.8466**
Volatile acids	0.6645**	0.6565**	0.6725**	0.4411	0.3792	-0.4966*	-0.4917*	0.7823**	

Note 1. \*,\*\* : Significant at the 0.05 and 0.01 levels of probability, respectively.

2. Left under part shows correlation coefficients of Xanthi - Basma and right upper part shows those of KA 101.

Table 2. Comparison of some quality indices among leaf samples of KA 101 and Xanthi - Basma

Index	KA 101						Xanthi - Basma						Remarks
	2nd priming			4th priming			2nd priming			4th priming			
	C	E	G	C	E	G	C	E	G	C	E	G	
I	4.47	6.50	2.82	3.75	2.46	1.82	2.10	4.16	1.72	1.35	1.69	2.40	$\frac{\% R-S}{\% Protein}$
II	16.71	24.84	8.81	15.00	9.00	6.27	7.60	15.35	5.10	3.87	6.42	6.63	$\frac{\% R-S}{\% T-N - \% N-N}$
III	15.20	22.50	8.14	13.90	8.44	5.54	6.72	13.40	4.19	3.53	5.81	5.58	$\frac{\% R-S}{\% T-N}$
IV	0.86	1.41	0.79	0.77	1.08	0.70	0.51	0.95	0.54	0.45	0.73	0.85	$\frac{\% R-S + \% Pet. ether ext.}{\% T-N + Nicotine + pH + \% Ash}$
V	0.30	3.04	4.22	1.92	5.46	6.63	1.25	1.63	2.00	1.62	2.67	3.74	Sum of volatile organic acids, mg/100g (V. O. A)
VI	8.26	9.79	16.50	8.22	16.38	19.47	6.39	8.86	17.57	8.51	9.67	17.09	Sum of volatile neutral components, peak area/C <sub>15</sub> , mg area
VII	1.14	4.62	3.44	3.94	5.61	5.21	1.29	1.66	1.13	1.50	2.13	1.82	$\frac{V.O.A + Aldehyde + Ketones}{\% Nicotine + \% T-N}$
VIII	2.10	3.56	4.08	2.80	6.73	7.06	2.85	3.13	4.04	3.63	4.93	6.67	$\frac{V.O.A + \% Pet. ether ext. + \% T-N}{\% Ash + pH} \times 10$
K	1.58	2.93	3.16	2.32	5.54	6.19	2.27	2.46	3.03	2.75	3.89	5.45	$\frac{V.O.A + \% Pet. ether ext.}{\% Ash + pH} \times 10$
X	1.45	1.20	1.53	1.54	2.46	3.22	1.71	1.68	2.27	1.97	2.45	3.68	$\frac{\% Pet. ether ext.}{\% Ash + pH} \times 10$

R-S:Reducing sugar, T-N:Total nitrogen, N-N:Nicotine nitrogen (= % Nicotine x 0.17), Protein:% Protein nitrogen x 6.25.

1) C, E, G means Conventional, Early planting both in Korea and Greek culture, respectively.