

## INDICATORS OF PURCHASED QUANTITIES OF TOBACCO TYPES IN THE REPUBLIC OF MACEDONIA

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### ABSTRACT

Purchase of oriental tobacco types Prilep, Yaka, Djebel and Basmak were analysed by purchase grades and their values. Investigations were carried out in 2006, 2007 and 2008. In the purchase structure, tobacco type Prilep has the largest share ranging from 56.20% in 2008 to 65.82% in 2006. The share of Yaka is somewhat lower (25.68% in 2006 to 27.70% in 2008). Tobacco type Basmak has the lowest share, ranging from 8.5% in 2006 to 15.81% in 2008. The highest quantities of purchased tobacco by grades was of the II and III<sup>A</sup> grade. The average purchase price ranged from 118.14% denars/kg in 2006, 140.57 denars/kg in 2007, up to 167.42 denars/kg in 2008. The total quantities of purchased oriental tobacco were as follows: 19.681.162,3 kg in 2006, 16.288.439,7 kg in 2007 and 16.126.379,1 kg in 2008. The purchase of additional tobacco was symbolic in the three years of investigations.

**Key words:** tobacco, Prilep, Yaka, Djebel, Basmak

### ПОКАЗАТЕЛИ НА ОТКУПЕНИТЕ КОЛИЧИНИ НА ТУТУН ПО СОРТИ ВО РЕПУБЛИКА МАКЕДОНИЈА

Во овој труд е анализиран откупот на ориенталските типови на тутун прилеп, јака, џебел и басмак по откупни класи и нивната вредност. Истражувањата се извршени во 2006, 2007 и 2008 година. Во структурата на откупот типот прилеп има најголем дел кој се движи од 56,20% во 2008 година до 65,82% во 2006 година. Помал дел има типот јака со учество од 25,68% во 2006 година до 27,70% во 2008 година. Типот басмак најмал дел во откупот има во 2006 година со 8,5%, а најголем во 2008 година со 15,81%. Во структурата на откупот на тутунот по класи тутунот најмногу се откупил во II и III<sup>A</sup> класа. Според просечната откупна цена на тутунот во 2006 година имаме најниска цена од 118,14 денари/kg тутун, во 2007 година таа е повисока и изнесува 140,57 денари/kg тутун и највисока просечна откупна цена се има добиено во 2008 година која изнесува 167,42 денари/kg тутун. Вкупните откупни количини на ориенталски тутун изнесуваат во 2006 година 19,681.162,3 kg, во 2007 година 16.288.439,7 kg и во 2008 година 16.126.379,1 kg. Откупот на дополнителен тутун е симболично во трите години на истражување.

**Клучни зборови:** тутун, прилеп, јака, џебел, басмак

## INTRODUCTION

Production and purchase of tobacco in the Republic of Macedonia is regulated by the Law on tobacco and tobacco products and special rules related to this Law.

The purchase is made according to the Rules and Criteria for qualitative and quantitative

estimation of leaf tobacco. Based on this Rules, aromatic type of tobacco is purchased in 6 classes and the additional type in 5 classes. The purchase of additional tobacco in the three years of investigation was only symbolic.

## MATERIAL AND METHODS

For realization of our goals, we used statistical data issued by the State Statistical Office of R. Macedonia, the Analyses of the Ministry of Agriculture, Forestry and Water Economy of R. Macedonia and data from the Act

on tobacco and tobacco products issued in 2006.

In data procession and making conclusions usual methods for this type of investigation were used. The most frequently applied was the comparative-analytical method.

## RESULTS AND DISCUSSION

Analysis on purchased tobacco quantities by types and varieties was made for the period 2006, 2007 and 2008, using the data of the Ministry of Agriculture, Forestry and Water Economy. Primarily, the purchased amounts of leaf tobacco by grades were presented, followed by the review of total quantity of purchased aromatic tobaccos and by the values of purchased leaf tobacco for the given crops.

The analysis of data presented in Table 1, reveals that a total of 18.429.294,00 kg of aromatic tobacco types Yaka, Basmak, Prilep and Djebel were purchased in 2006 crop, of which the highest amount of Prilep -11.731.646,20 kg (63.66%) and Yaka - 5.046.182,10 kg (27.38%) and the lowest of Basmak - 1.651.465,70 kg (8.96%). No purchase of Djebel tobacco was rerecorded in this period.

With regard to additional tobaccos, a total amount of 1.198.806,20 kg were purchased. The highest percentage of it belongs to Prilep tobacco - 1.174.676,10 kg (92.99%), and only negligible amounts of the other tobacco types were purchased.

From the total amount of 53.062,10 kg moldy tobacco purchased in 2006, 46.834,40 kg (88.26%) belongs to the type Prilep .

So, in 2006 the total quantity of purchased leaf tobacco was 19.681.162,30 kg, with the highest percentage of it belonging to the type Prilep (65.82%).

Data on the average purchase price by types and the average price achieved for aromatic tobaccos are also presented in Table 1.

Table 1 Purchased aromatic tobaccos by grades, crop 2006

Class	type Yaka		type Basmak		type Prilep		type Djebel		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%
I	540.614,20	10,71	122.256,00	7,40	727.009,10	6,20	-	-	1.389.879,30	7,55
II	1.751.761,90	34,72	639.638,80	38,73	4.166.199,80	35,52	-	-	6.557.598,60	35,58
III <sup>A</sup>	1.720.902,30	34,10	553.866,70	33,54	4.409.577,40	37,59	-	-	6.684.346,40	36,27
III <sup>B</sup>	732.931,70	14,53	241.318,60	14,61	1.588.245,30	13,54	-	-	2.562.495,60	13,91
IV	277.225,30	5,49	85.175,80	5,16	705.485,10	6,01	-	-	1.067.886,20	5,79
V	22.746,70	0,45	9.211,80	0,56	135.129,40	1,15	-	-	167.087,90	0,90
<b>Aromatic tobaccos, Total</b>	<b>5.046.182,10</b>	<b>100</b>	<b>1.651.465,70</b>	<b>100</b>	<b>11.731.646,20</b>	<b>100</b>	<b>-</b>	<b>-</b>	<b>18.429.294,00</b>	<b>100</b>
%	27,38		8,96		63,66		-	-	100	
<b>Additional tobaccos</b>										
I	2.369,50	63,64	18.898,50	92,61	971.914,10	82,74	-	-	993.182,10	82,85
II	1.264,00	33,94	1.485,60	7,28	180.433,60	15,36	-	-	183.193,20	15,28
III	90,50	2,44	22,00	0,11	19.756,90	1,68	-	-	19.869,40	1,66
IV	0,00	-	0,00	-	1.462,40	0,12	-	-	1.462,40	0,12
V	0,00	-	0,00	-	1.109,10	0,09	-	-	1.109,10	0,9
<b>Additional tobaccos, Total</b>	<b>3.724,00</b>	<b>100</b>	<b>20.406,10</b>	<b>100</b>	<b>1.174.676,10</b>	<b>100</b>	<b>-</b>	<b>-</b>	<b>1.198.806,20</b>	<b>100</b>
%	0,3		1,7		92,99		-	-	100,00	
<b>Moldy</b>	<b>3.633,50</b>		<b>2.594,20</b>		<b>46.834,40</b>		<b>-</b>	<b>-</b>	<b>53.062,10</b>	<b>100</b>
%	6,85		4,89		88,26		-	-	100,00	
<b>Total kg by types</b>	<b>5.053.539,62</b>		<b>1.674.466,00</b>		<b>12.953.156,70</b>		<b>-</b>	<b>-</b>	<b>19.681.162,30</b>	
%	25,68		8,5		65,82		-	-	100	
Average purchase price, denars/kg by types	119,98		156,33		112,49		119,00			
Average purchase price for aromatic tobacco					118,14					

Data on the total amount of purchased aromatic, additional and moldy tobacco are presented in Table 2.

Table 2 Total amount of purchased aromatic tobacco (kg), crop 2006

	Type				Total
	Yaka	Basmak	Prilep	Djebel	
Aromatic	5.046.182,10	1.651.465,70	11.731.646,20	-	18.429.294,00
Additional.	3.724,00	20.406,10	1.174.676,10	-	1.198.806,20
Moldy	3.663,50	2.594,20	46.834,40	-	53.062,10
<b>Overall in kg</b>	<b>5.053.539,60</b>	<b>1.674.466,00</b>	<b>12.953.156,70</b>	<b>-</b>	<b>19.681.162,30</b>

Source: Data from the Ministry of Agriculture, Forestry and Water Economy - R. Macedonia

Based on the total amount of purchased aromatic tobaccos and the average purchase price by types, data on the total value in denars are presented in Table 3.

Table 3 The value of purchased leaf tobacco by types, crop 2006

Type	Purchased tobacco leaf, kg	Average purchase price, den/kg	Value in denars
Yaka	5.053.539,60	119,98	606.323.729,20
Basmak	1.674.466,00	156,33	261.769.269,78
Prilep	12.953.156,70	112,49	1.457.100.630,93
Djebel	-	-	-
Total	19.681.162,30	118,14	2.325.132.478,68

Note: Estimation was made by the average price and the price achieved for aromatic tobacco

In 2007 crop, total quantity of purchased aromatic tobacco by grades was 16.268.450,00 kg. The highest amount of it accounts for the type Prilep - 10.075.872,90 kg, i.e. 61.94%, followed by Yaka - 25.73% and Djebel with only 0.55%.

The total quantity of purchased additional tobacco was 17.991,90 kg, of which the highest part belongs again to the type Prilep - 16.287,70 (90.53%). The share of all other tobacco types is insignificant.

Table 4 The quantity of purchased aromatic tobacco (kg) by grades, crop 2007

Grade	Type Yaka		Type Djebel		Type Prilep		Type Basmak		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%
I	473.137,80	11,30	7.232,50	8,39	535.741,40	5,32	196.878,00	10,25	1.212.989,70	7,46
II	2.228.379,10	53,24	50.448,00	58,53	5.997.016,40	59,52	1.020.934,10	53,16	9.296.777,60	57,15
III <sup>A</sup>	1.305.391,00	31,19	25.935,50	30,09	3.238.869,20	32,14	571.673,80	29,77	5.141.868,50	31,61
III <sup>B</sup>	165.320,90	3,95	2.388,00	2,77	285.939,50	2,84	116.853,50	6,08	570.501,90	3,51
IV	12.512,70	0,30	184,50	0,28	15.674,50	0,16	13.418,30	0,70	41.790,00	0,26
V	1.129,50	0,03	0,00	0,00	2.632,90	0,04	759,90	0,04	4.522,30	0,03
<b>Total Aromatic tobacco</b>	<b>4.185.871,00</b>	<b>100,00</b>	<b>86.188,50</b>	<b>100,00</b>	<b>10.075.872,90</b>	<b>100,00</b>	<b>1.920.517,60</b>	<b>100,00</b>	<b>16.268.450,00</b>	<b>100,00</b>
%	25,73		0,5		61,94		11,81		100,00	
<b>Additional tobacco</b>										
I	738,50	90,90			15.528,00	95,39	840,20	93,23	17.106,70	95,08
II	74,00	9,10			664,80	4,09	60,50	6,77	799,30	4,44
III	0,00				14,40	0,09	0,00		14,40	0,08
IV	0,00				4,90	0,03	0,00		4,90	0,28
V	0,00				66,60	0,41	0,00		66,60	0,37
<b>Total Additional tobacco</b>	<b>812,50</b>	<b>100,00</b>			<b>16.278,70</b>	<b>100,00</b>	<b>900,70</b>	<b>100,00</b>	<b>17.991,90</b>	<b>100,00</b>
%	4,5				90,48		5,0		100,00	
<b>Moldy tobacco</b>	<b>277,00</b>				<b>1.204,60</b>		<b>516,20</b>		<b>1.997,80</b>	
%	13,86				60,31		25,83		100	
<b>Total kg by types</b>	<b>4.186.960,50</b>	<b>100,00</b>	<b>86.188,50</b>	<b>100,00</b>	<b>10.093.356,20</b>	<b>100,00</b>	<b>1.921.934,50</b>	<b>100,00</b>	<b>16.288.439,70</b>	
%	25,71		0,53		61,97		11,80		100,00	
<b>Average purchase price by types, den/kg</b>	144,49		144,29		131,85		177,60			
<b>Average price of aromatic tob.</b>									140,57	

From the class of moldy tobacco 1.997,80 kg were purchased, most of it belonging to type Prilep - 1.204,60 kg, i.e. 60.31%.

The overall quantity of purchased aromatic tobacco is 16.288.439,70 kg and

61.97% of it belongs to type Prilep, followed by lower amounts of Yaka and Basmak.

Data on the average purchase price of the investigated tobacco types and the price achieved for aromatic tobaccos are presented in Tables 5- 6.

Table 5 Total quantity of purchased aromatic tobacco (kg), crop 2007

Tobacco leaf	Type				Total
	Yaka	Djebel	Prilep	Basmak	
Aromatic.	4.185.871,00	86.188,50	10.075.872,90	1.920.517,60	16.268.450,00
Additional.	812,50	0,00	16.278,70	900,70	17.991,90
Moldy	277,00	0,00	1.204,60	516,20	1.997,80
Overall, in kg	4.186.960,50	86.188,50	10.093.356,20	1.921.934,50	16.288.439,70

Source: Estimation was made according to the data of the Ministry of Agriculture, Forestry and Water Economy - R. Macedonia

Note: Estimation was made by the average price and the price achieved for aromatic tobacco

Table 6 The value of purchased leaf tobacco by types, crop 2007

Type	Purchased tobacco leaf, kg	Average purchase price, den/kg	Value in denars
Yaka	4.186.960,50	144,49	604.973.994,89
Basmak	86.188,50	144,29	12.436.210,81
Prilep	10.093.356,20	131,85	1.330.808.988,60
Djebel	1.921.934,50	177,60	341.450.972,10
<b>Total</b>	<b>16.288.439,70</b>	<b>140,57</b>	<b>2.289.666.010,80</b>

Note: Estimation was made by the average price and the price achieved for aromatic tobacco

The total quantity of aromatic tobacco purchased in 2008 was 16.122.738 kg. In this crop, too, the share of the type Prilep is the highest - 9.061.098,30 kg (56.20%), and it is followed by the types Yaka and Basmak.

From the class of additional tobaccos a total of 2.805 kg were purchased, most of it

belonging to the type Prilep - 1.671,70 (60%). The least quantity was purchased from the class of moldy tobacco - only 836.00 kg, 48.92% of which belongs to the type Prilep.

So, the overall quantity of aromatic tobacco purchased in 2008 was 16.126.379,10 kg, most of it belonging to the type Prilep.

Table 7 The quantity of purchased aromatic tobacco by grades, crop 2008

Grade	Type Yaka		Type Djebel		Type Prilep		Type Basmak		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%
I	1.637.982,30	36,68	9.068,50	19,46	2.931.636,60	32,35	380.583,90	30,76	4.959.271	30,76
II	1.957.819,00	43,84	27.876,50	59,81	4.710.778,70	51,99	1.504.066,70	50,86	8.200.541	50,86
III <sup>A</sup>	799.951,50	17,92	9.165,50	19,67	1.349.169,40	14,89	585.003,60	17,02	2.743.282	17,02
III <sup>B</sup>	64.351,30	1,44	496,00	1,06	63.086,40	0,70	73.509,90	1,25	201.444	1,25
IV	4.581,70	0,10	0,00	0,00	5.561,50	0,06	5.913,50	0,10	16.057	0,10
V	904,70	0,02	0,00	0,00	865,70	0,01	362,70	0,01	2.143	0,01
<b>Total aromatic tobacco</b>	<b>4.465.590,50</b>	<b>100,00</b>	<b>46.606,50</b>	<b>100,00</b>	<b>9.061.098,30</b>	<b>100,00</b>	<b>2.549.442,30</b>	<b>100</b>	<b>16.122.738</b>	<b>100,00</b>
%	27,70		0,29		56,20		15,81		100,00	
<b>Additional tobacco</b>										
I	914,70	86,40	-	-	1.605,00	96,05	4,00	89,98	2524	89,98
II	35,00	3,31	-	-	8,00	0,48	15,40	8,07	58	2,07
III	0,00	0,00	-	-	0,00	-	0,00	-	-	-
IV	41,50	3,97	-	-	21,00	1,26	26,20	3,21	90	3,21
V	67,70	6,43	-	-	37,70	2,27	28,70	4,74	1,34	4,78
<b>Total additional tobacco</b>	<b>1.058,90</b>	<b>100,00</b>	<b>-</b>	<b>-</b>	<b>1.671,70</b>	<b>100,00</b>	<b>74,30</b>	<b>100,00</b>	<b>2.805</b>	<b>100,00</b>
%	37,75				59,61		2,65		100,00	
<b>Moldy tobacco</b>	<b>225,40</b>				<b>409,20</b>		<b>202,00</b>		<b>836,00</b>	
%	26,91				48,92		24,16		100,00	
<b>Total kg by types</b>	<b>4.466.874,80</b>		<b>46.606,50</b>		<b>9.063.179,20</b>		<b>2.549.718,60</b>		<b>16.126.379,10</b>	
%	27,70		0,29		56,20		15,81		100,00	
<b>Average purchase price by types, den/kg</b>	169,02		165,70		159,38		193,23			
<b>Average price of aromatic tob.</b>					167,42					

In Tables 8 and 9 data are presented on the total amount of aromatic, additional and moldy tobacco, as well as the value indexes of purchased leaf tobacco from the crop 2008,

estimated on the basis of average purchase prices by types and the average price achieved for aromatic tobaccos.

Table 8 Total quantity of purchased aromatic tobaccos (kg), crop 2008

Type	Yaka	Djebel	Prilep	Basmak	Total
Aromatic.	4.465.590,50	46.606,50	9.061.098,30	2.549.442,30	16.122.738,00
Additional.	1.058,90	0,00	1.671,70	74,30	2.805,00
Moldy	225,40	0,00	409,20	202,00	836,00
Overall, in kg	<b>4.466.874,80</b>	<b>46.606,50</b>	<b>9.063.179,20</b>	<b>2.549.718,60</b>	<b>16.126.379,10</b>

Source: Estimation was made according to the data of the Ministry of Agriculture, Forestry and Water Economy - R. Macedonia

Table 9 The value of purchased leaf tobacco, crop 2008

Type	Purchased tobacco leaf, kg	Average purchase price, den/kg	Value in denars
Yaka	4.466.874,80	169,02	754.991.213,00
Basmak	46.606,50	165,70	7.722.780,00
Prilep	9.063.179,20	159,38	1.444.489.469,00
Djebel	2.549.718,60	193,23	492.682.202,00
<b>Total</b>	<b>16.126.380,00</b>	<b>167,42</b>	<b>2.699.885.664,00</b>

Note: Estimation was made by the average price and the price achieved for aromatic tobacco

## CONCLUSIONS

Based on the data presented in this paper, the following conclusions can be drawn:

1. Total quantity of aromatic tobacco purchased in 2006, 2007 and 2008 crops amounts between 16.000.000 and 20.000.000 kg. It has an irregular movement, but no visible deviations were observed.
2. In all years of investigation, the highest share of purchased aromatic tobacco belongs to the type Prilep - over 60%, while the share of other types and varieties was relatively small.
3. In present conditions there is a market which can absorb high quantities of tobaccos grown in Macedonia and it will contribute to a higher inflow of foreign currency, which is of essential importance for our country.
4. Tobacco production in the last few years

develops with various speed and intensity, which is affected by purchase price of raw tobacco, subsidies and possibilities for increased production.

5. Tobacco production will continue to be an important factor in agroindustrial complex.
6. On no account should we miss the opportunity for higher tobacco production and increased purchase, because there is no alternative for the most pauperized part of population, which exists only on production of this important industrial crop.
7. At this moment only a few companies in R. Macedonia are engaged in tobacco purchase and procession. Therefore, the production of other more profitable crops should be considered, which will be of a great benefit for the future of the country.



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