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The main indicators analysis that characterize the food consumtion evolution in Romania in comparison between the period 2001-2006 and 2007-2014

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THE MAIN INDICATORS ANALYSIS THAT CHARACTERIZE THE FOOD CONSUMTION EVOLUTION IN ROMANIA IN COMPARISON BETWEEN THE PERIOD 2001-2006 AND 2007-2014

NECULA RALUCA¹, STOIAN MIRELA², DRĂGHICI MANEA³

Abstract: The analysis on the food consumption is particularly important because it helps us to discover information about the individual's health and economic differences between the two periods studied, outlining the economic impact on human food consumption and the worldwide food trends impact on the food transit that's going on within our country. It have been also noticed changes at the level of urban and rural areas and the differences between the two environments, which illustrates on the one hand the existence of changes in feeding with the accession to the European Union, the tendency being to decrease the number of calories, and the differences between environments demonstrating a higher food consumption for the countryside.

Keywords : food consumption, calories, protein, carbohydrates, lipids

INTRODUCTION

From FAO sources (Quarterly Bulletin of Statistics no. 2, 3, 4/1994), European Community (Eurostat Agriculture, Brussels, 1994) and Romanian (MAA data, 1994) the Romania's place within the Member countries of the European Union in 1994 after the food availability expressed in calories per person per day, we occupy the last place (about 3000) after United Kingdom and Netherlands. The top three are Greece and Ireland, and Spain with approximately 4000 calories per person per day. In the classification by number of grams protein per person per day, Romania (almost 100 gr) is ahead of Netherlands and United Kingdom (85-90 gr). The first three places being occupied by Ireland, France and Greece (approx. 120 gr).

MATERIAL AND METHODS

In the paper were used the following indicators: arithmetic mean, mean square deviation, standard deviation, coefficient of variation.

Food consumption expressed in calories and nutritional factors is the correspondent in calories and some nutrients (proteins, lipids, carbohydrates) of alimentary products in a person's consumption in a given time period (usually one day).

Main groups of nutritional principles which enters in the chemical composition of food are: proteins, lipids, carbohydrates, vitamins, mineral salts and water. Of these, proteins, lipids and carbohydrates are substances which provide the body trophicity, respectively, allow the cells of living organisms tissues to maintain specific structure needed for a normal metabolism.

Measuring the food consumption

• Net average daily food consumption per capita, expressed in calories (Cc)-content in calories of net daily average food consumption per capita; is calculated according to: Cc = (ADC * cc)/1000 where: cc = the number of calories contained in 1000 grams alimentary product, edible part.

• Net average daily food consumption per capita, expressed in proteins (Cp)-protein content of the net daily average food consumtion per capita; shall be determined as follows: Cp = (ADC * cp)/1000 where: cp= the number of proteins contained in 1000 grams alimentary product, edible part.

• Net average daily food consumption per capita, expressed in lipids (Cl)-the content of lipids of net average daily food consumption per capita; shall be determined according to: Cl = (ADC * cl)/1000 where: cl represents average content in fat to 1000 grams alimentary product, the edible part.

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• Net average daily food consumption per capita, expressed in carbohydrates (Cg)-the content of glucides (carbohydrates) of net average daily food consumption per capita; shall be determined on the basis of the following relationships: Cg = (ADC * cg)/1000 where: cg represents average content in carbohydrates to 1000 grams, the edible part.

The formulas, which can calculate these indicators are:

For arithmetic mean = $\overline{x} = \frac{\sum xi}{n}$; where:

X = the arithmetical moving average ; Xi = average production values on a number of years (i);n = number of years taken into account.

The average annual rate of increase = $r2000 - 2008 = \sqrt[8]{\prod (p1/p0) - 1}$;

For the standard deviation $\partial = \sqrt{\frac{\sum (\bar{x} - xi)^2}{n-1}}$; where:

 \hat{O} = standard deviation; xi = average production values on a number of years; n = number of years taken into account

For mean square deviation =
$$\partial x = \sqrt{\frac{\sum (\bar{x} - xi)^2}{n(n-1)}}$$
; where:

 ∂x = mean square deviation;

Coefficient of variation = $C = \frac{\delta}{\overline{X}} \times 100$ where:

C = coefficient of variation (express in percentages)

Coefficient of variation can be: 0-10% variation- small variation; between 10-20%- middle variation ; more than 20%- high variation

The data used had as source: Statistical Yearbook of Romania, INS, data in the literature.

RESULTS AND DISCUSSIONS

1. Comparison between the evolution of food consumption in 2001-2006 and the period 2007-2014 at the country level.

As it can be seen from table 1, the number of total calories at the country level, for the period 2001-2006 falls within the boundaries of 2449 and 2521 calories, with an average of 2484 calories, with a declining annual rate and a coefficient of variation showing very small oscillations between data.

Table No. 1. The main indicators characterizing the evolution of food consumption in the period 2001-2006 COUNTRY level

		2000	COUNTR					
					2001-2006	-		
						St.		
					annual	Dev.		
Components expressed in calories		min	max	average	rate	(б)	C	pef of var.
and nutritional factors	MU	UM	UM	UM	%	UM	%	signification
Total CALORIES:	No	2449	2521	2484.0	-0.3	23.6	0.95	small
of vegetal origin	No	1876	1967	1929.0	-0.8	32.2	1.67	small
of animal origin	No	534	573	555.0	1.4	17.5	3.15	small
Total PROTEIN of which:	GR	78.7	80.7	80.0	0.4	0.9	1.08	small
of vegetable origin	GR	44.2	46.9	45.9	-1.1	1.0	2.27	small
of animal origin	GR	31.9	36.2	34.1	2.6	1.6	4.78	small
Total LIPIDS of which:	GR	79.5	82	81.1	0.6	1.2	1.52	small
of vegetable origin	GR	41.5	42.5	42.0	0.1	0.4	0.84	small
of animal origin	GR	37.7	40.4	39.1	1.1	1.2	2.94	small
Total CARBOHYDRATES	GR	319.3	335	329.1	-0.9	5.7	1.74	small

Processed: INS, accessed may 2015 Online TEMPO, BUF112I

Proteins, also for the period 2001-2006, are located around the average of 80 grams of which 28.5 grams are of vegetable origin and 34.1 grams of animal origin, with small variations per year. Lipids, as in the case of proteins have a higher share of vegetable origin, i.e. an average per year of 42 grams of 82.1 total and 39.1 grams of animal origin, and total carbohydrates are between 319.3 grams and 335 grams, the annual rate being of decrease, -0.9%.

Table No. 2. The main indicators characterizing the evolution of food consumption in the period 2007-2014 at the
country level

			The pe	riod 2007-2	2014		
Components expressed in calories and nutritional factors	min	max	average	annual rate	St. Dev. (6)	Coef of var.	
	MU	MU	MU	%	MU	%	signification
Total CALORIES:	2400	2487	2438.9	-0.35	31.6	1.29	small
of vegetable origin	1783	1873	1822.9	-0.65	30.9	1.70	small
of animal origin	600	623.6	616.1	0.55	4.6	0.75	small
Total PROTEIN of which:	80.7	83.1	81.6	-0.14	0.8	0.98	small
of vegetable origin	40.7	43.6	41.9	-0.98	0.8	1.84	small
of animal origin	38.2	40.3	39.7	0.77	0.4	1.07	small
Total LIPIDS of which:	82.8	85.2	84.0	0.20	0.8	0.98	small
of vegetable origin	40.3	42.2	41.3	-0.14	0.6	1.54	small
of animal origin	41.8	43.3	42.7	0.50	0.3	0.74	small
Total CARBOHYDRATES	302	318.8	309.4	-0.77	5.4	1.75	small

Processed: INS, accessed may 2015 Online TEMPO, BUF112I

With respect to the period 2007-2014, the indicators characterizing the food consumption at the country level, show the next situation:

- the total number of calories varies very little around the average of 2438.9, the annual rate being of decrease ,-0.35%, standard deviation of 19.6 calories. It can be noticed a decrease in calories relative to the period 2001-2006.
- Compared to the first period surveyed, the protein number increased at 80 grams, years average at 81.6 for 2007-2014, raising in particular the share of animal proteins.
- We can observe an increase also at the number of lipids, at 84 grams, the media in particular increasing at animal origin lipids.
- Carbohydrates are the ones that fell, the average showing almost 20 carbohydrates grams less in food consumption.

	Deviations ((+/-) period (2	2007-2013)-(2	001-2006)				•				
Components expressed in calories and nutritional	Average 2001- 2006	Average 2007- 2014	Average	Annual rate	St. Dev. (6)	Coef of var.						
factors	UM	UM	UM	%	UM	%	tcal/average	significance				
Total CALORIES:	2484.0	2438.9	-45.1	-0.06	8.0	0.3	1.94	Ν				
of vegetable origin	1929.0	1822.9	-106.2	0.13	-1.3	0.0	5.05	***				
of animal origin	555.0	616.1	61.1	-0.87	-12.8	-2.4	6.26	***				
Total PROTEIN out of which:	80.0	81.6	1.7	-0.57	-0.1	-0.1	0.46	N				
of vegetable origin	45.9	41.9	-4.0	0.16	-0.3	-0.4	1.44	Ν				
of animal origin	34.0	39.7	5.6	-1.79	-1.2	-3.7	2.37	*				
Total LIPIDS of which:	81.1	84.0	3.0	-0.42	-0.4	-0.5	0.80	Ν				
of vegetable origin	42.0	41.3	-0.7	-0.28	0.3	0.7	0.27	Ν				
of animal origin	39.1	42.7	3.6	-0.64	-0.8	-2.2	1.42	Ν				
Total CARBOHYDRATES	329.1	309.4	-19.7	0.10	-0.3	0.0	2.57	*				

 Table No. 3. The main indicators characterizing the evolution of food consumption in comparison between 2001-2006 and 2007-2014 at the country level

Processed: INS, accessed may 2015 Online TEMPO , **BUF112;** t_{teor} (0.001:4.31; 0.01:3.05; 0.05:2.17); GL = 12

As table 3 shows, the differences between the two periods are quite high, dropping the number of calories with 45.1, the large differences can be observed at the calories of vegetable origin, growing the interest for the animal origin for both protein and lipids.

2. Trends in food consumption in comparison between the period 2001-2006 and 2007-2014 at the URBAN residence level

As regards the indicators characterizing the evolution of food consumption at the urban level, the analysis can be seen in the following three tables.

Thus, table 4 characterizes food consumption for the period 2001-2006 in urban environments, where it becomes evident that:

- Towards the level of the country, urban areas consume fewer calories per capita, an average of 2385.7 for this period, where the maximum reaches at 2410 calories, with an slow annual rate of increase of 0.1% variation between the data is small c% = 0.72%;

	alea													
				2	2001-2006									
Components expressed in	UM	min	max	average	annual rate	St. Dev. (6)	Co	ef of var.						
calories and nutritional factors		MU	MU	MU	%	UM	%	MU						
Total CALORIES:	No	2357	2410	2385.7	0.1	17.3	0.72	small						
of vegetal origin	No	1819	1881	1852.7	-0.6	22.6	1.22	small						
of animal origin	No	505	567	533.0	2.3	23.4	4.40	small						
Total PROTEIN out of which:	GR	75.2	78.6	77.0	0.9	1.4	1.81	small						
of vegetal origin	GR	41.2	43.5	42.6	-1.1	0.9	2.04	small						
of animal origin	GR	31.7	37.4	34.4	3.4	2.1	6.07	small						
Total LIPIDS of which:	GR	79.9	83.6	81.6	0.9	1.4	1.74	small						

45

39.1

314.9

44.6

37.0

310.3

-0.2

2.1

-0.7

Table No. 4. The main indicators characterizing the evolution of food consumption in the period 2001-2006 in URBAN

Processed: INS, accessed may 2015 Online TEMPO, BUF112I

GR

GR

GR

44

35.2

303.8

of vegetal origin

of animal origin

Total CARBOHYDRATES

- The average number of protein consumed is of 77 grams, of which over half are of vegetable origin, 42.6 grams and 34.4 grams of animal grams;

0.85

3.91

1.32

small

small

small

0.4

1.4

4.1

- In total, is consumed for this period, approximately 50.7 grams of lipids, as well as the preference is for the vegetable origin, but the rate is of decline;
- It should be noted also the total number of carbohydrates consumed, so that the average of 310.3 grams is smaller than the total country, showing a decrease in the consumption of carbohydrates.

Table No. 5. The main indicators characterizing the evolution of food consumption in the period 2007-2013 in URBAN

			The per	riod 2007-20	14		
Components expressed in calories and	min	max	average	annual rate	St. Dev. (б)	Co	ef of var.
nutritional factors	MU	MU	MU	%	UM	%	MU
Total CALORIES:	2340	2442.4	2390.9	-0.15	34.3	1.44	small
of vegetable origin	1738	1817.1	1774.8	-0.44	27.3	1.54	small
of animal origin	598	629.6	616.1	0.68	10.3	1.68	small

Total PROTEIN of which:	78.8	82.4	80.5	0.02	1.1	1.38	small
of vegetable origin	38.5	40.5	39.5	-0.72	0.6	1.52	small
of animal origin	39.7	42.2	41.1	0.74	0.7	1.80	small
Total LIPIDS of which:	83	87	85.3	0.20	1.3	1.58	small
of vegetable origin	41.9	44	43.1	-0.23	0.8	1.83	small
of animal origin	41	43.1	42.2	0.65	0.7	1.70	small
Total CARBOHYDRATES	292.3	304.7	298.1	-0.45	4.4	1.48	small

Processed: INS, accessed may 2015 Online TEMPO, BUF112I

The period 2007-2014 represented a period of profound economic and administrative changes, of course, with repercussions on the food consumption.

The total number of calories consumed per day in the urban area is oscillating between 2340 calories and 2442.4 calories, with an average of 2390.9 calories, the annual rate is of decrease -0.15%, while the variation is small, 1.44%.

The protein consumption expressed in grams is situated within the limits of 78.8 grams and 82.4 grams with an average of 80.5 grams, of which over half are those of animal origin 41.1 and 39.5 grams protein of vegetal origin.

The proportion of lipids of different origins is similar, from 85.3 grams, 43.1 grams are of vegetal origin and 42.2 grams of animal origin. The vegetal origin lipids are dropping, with an annual rate of-0.23%. The carbohydrates grams make for a day an average of 298.1 grams for the period 2007-2014, with variations between 292.3 grams and 304.7 grams.

			Deviations	(+/-) period	(2007-20)	13)-(2001	-2006)	
Components expressed in calories and nutritional	Average 2001- 2006	Average 2007- 2014	Average	Annual rate	St. Dev. (б)	Coef of var.		
factors	MU	MU	MU	%	MU	%	tcal/average	significance
Total CALORIES:	2385.7	2390.9	5.3	-0.20	17.0	0.7	0.23	Ν
of vegetable origin	1852.7	1774.8	-77.8	0.17	4.7	0.3	3.88	Ν
of animal origin	533.0	616.1	83.1	-1.66	-13.1	-2.7	8.22	***
Total PROTEIN of which:	77.0	80.5	3.6	-0.87	-0.3	-0.4	0.99	N
of vegetable origin	42.6	39.5	-3.1	0.36	-0.3	-0.5	1.17	Ν
of animal origin	34.4	41.1	6.7	-2.62	-1.3	-4.3	2.79	*
Total LIPIDS of which:	81.6	85.3	3.7	-0.66	-0.1	-0.2	0.99	Ν
of vegetable origin	44.6	43.1	-1.5	-0.05	0.4	1.0	0.55	Ν
of animal origin	37.0	42.2	5.2	-1.48	-0.7	-2.2	2.08	Ν
Total CARBOHYDRATES	310.3	298.1	-12.2	0.23	0.3	0.2	1.66	Ν

Table 6. The main indicators characterizing the evolution of food consumption in comparisonbetween 2001-2006 and 2007-2014 period in the URBAN area

Processed: INS, accessed may 2015 Online TEMPO , **BUF112I** t_{teor} (0.001:4.31; 0.01:3.05; 0.05:2.17); GL = 12

Table 6 shows the evolution of food consumption compared between the two periods, 2001-2006 and 2007-2014 where it is noticed:

- it has increased the total number of calories with 5.3 calorie difference between the two periods, of which has decreased the vegetal origin calories with 77.8 calories and increased consumption of animal origin calories with 83.1 calories;

-in the case of proteins, an increase of 3.6 grams can be observed, being preferred the animal origin protein at the expense of those of vegetal origin;

- also has increased the consumption of lipids with 3.7 grams per capita, while maintaining the growth of animal origins lipids with 5.2 grams and has dropped those of vegetal origin with 1.5 grams;

-Carbohydrates have suffered a decrease, from 310.3 grams at 298.1 grams, a decrease of 12.2.

3. The food consumption evolution in comparison between the period 2001-2006 and 2007-2014 at the RURAL residence level.

We have also characterized the indicators that characterize food consumption in rural areas, both for the period 2001-2006 and for the period 2007-2014.

So table 7 outlines the evolution of food consumption for the period 2001-2006 where we find that the total number of calories consumed per day was between 2643 and 2526 calories, with an average of 2597.2 calories, the variation being determined by the coefficient of variation, namely 1.53%, representing a small variation.

Of this total number of calories, the vegetal origin ones occupies a share of over 77%, namely 2017 calories.

				2	001-2006			
Components expressed in calories		min	max	average	annual rate	St. Dev. (6)	Coe	ef of var.
and nutritional factors	MU	MU	MU	MU	%	MU	%	MU
Total CALORIES:	No	2526	2643	2597.2	-0.6	39.8	1.53	small
of vegetable origin	No	1946	2061	2017.0	-0.9	42.8	2.12	small
of animal origin	No	562	603	580.2	0.5	14.9	2.58	small
Total PROTEIN of which:	GR	82.5	84.5	83.4	0.0	0.7	0.88	small
of vegetable origin	GR	47.8	50.9	49.8	-1.1	1.2	2.44	small
of animal origin	GR	32.1	34.7	33.6	1.6	1.1	3.30	small
Total LIPIDS of which:	GR	78.9	82.3	80.4	0.3	1.4	1.69	small
of vegetable origin	GR	38.3	39.7	39.0	0.4	0.5	1.27	small
of animal origin	GR	40.2	43.7	41.5	0.1	1.3	3.02	small
Total CARBOHYDRATES	GR	338.1	357.1	350.8	-1.0	7.4	2.10	small

Table No. 7. The main indicators characterizing the evolution of food consumption in the period 2001-2006 in the RURAL area

Processed: INS, accessed may 2015 Online TEMPO, BUF112I

The protein grams have an average of 83.4, with a greater appreciation of vegetal origin, having a share of 59.7% of total proteins.

In exchange, the lipids consumption, with an average of 80.4 grams, is divided into 39 grams of vegetal origin and 41.5 grams of animal origin. Carbohydrate consumption lies at 350.8 grams, oscillating between the limits of 338.1 grams and 357.1 grams.

Table No. 8. The main indicators characterizing the evolution of food consumption in the period 2007-2014 in the

RURAL area.

			The p	eriod 2007-	2014		
				annual	St.		
Components expressed in calories	min	Max	Average	rate	Dev.(6)	Co	pef of var.
and nutritional factors	MU	MU	MU	%	MU	%	significance
Total CALORIES:	2443	2554	2497.0	-0.59	33.8	1.35	small
of vegetable origin	1828	1952	1881.1	-0.91	37.2	1.98	small
of animal origin	602	629.7	616.0	0.41	5.9	0.97	small
Total PROTEIN of which:	81.8	83.9	82.9	-0.33	0.7	0.84	small
of vegetable origin	43.3	47.3	45.0	-1.25	1.0	2.27	small
of animal origin	36.5	38.8	38.0	0.80	0.4	1.13	small
Total LIPIDS of which:	81.8	83.2	82.5	0.19	0.4	0.53	small
of vegetable origin	38.4	40	39.2	0.00	0.5	1.32	small
of animal origin	42.5	44.2	43.4	0.37	0.4	0.98	small
Total CARBOHYDRATES	311.6	337.7	323.2	-1.14	7.0	2.17	small

Processed: INS, accessed may 2015 Online TEMPO, BUF112I

Along with the changes our country has passed, it has been affected also the food consumption in rural areas, so that for the period 2007-2014, the number of calories was located between 2443 and 2554 calories, with an annual rate of decrease of -0.59% change in data being small, c% = 1.35%. Protein consumption were at 51.5 grams, slightly increasing the animal origin one, at the expense of proteins of vegetal origin. In addition , has increased the consumption of animal fats, with a growth rate of 0.37%, while carbohydrates decreased , with -1.14% annually, with an average of 323.2 grams.

and the 2007 2014 period at the KOKAL lever residence											
		De	eviations (+/	-) period (2	007-201	3)-(2001	-2006)				
Components expressed in	Average 2001-2006	Average 2007-2014	Average	Annual rate	St. Dev. (б)	Coef of var.					
calories and nutritional factors	MU	MU	MU	%	MU	%	tcal/average	significance			
Total CALORIES:	2597.2	2497.0	-100.1	0.03	-6.0	-0.2	4.17	**			
of vegetable origin	2017.0	1881.1	-135.9	0.02	-5.6	-0.1	6.02	***			
of animal origin	580.2	616.0	35.8	-0.08	-9.0	-1.6	3.56	*			
Total PROTEIN of which:	83.4	82.9	-0.4	-0.28	0.0	0.0	0.12	Ν			
of vegetable origin	49.8	45.0	-4.8	-0.12	-0.2	-0.2	1.66	Ν			
of animal origin	33.6	38.0	4.4	-0.77	-0.7	-2.2	1.86	Ν			
Total LIPIDS of which:	80.4	82.5	2.1	-0.09	-0.9	-1.2	0.57	Ν			
of vegetable origin	39.0	39.2	0.2	-0.41	0.0	0.1	0.09	Ν			
of animal origin	41.5	43.4	1.9	0.22	-0.8	-2.0	0.71	Ν			
Total CARBOHYDRATES	350.8	323.2	-27.6	-0.14	-0.3	0.1	3.44	**			

 Table nr 9. The main indicators characterizing the evolution of food consumption in comparition between 2001-2006

 and the 2007-2014 period at the RURAL level residence

Processed: INS, accessed may 2015 Online TEMPO, BUF112I Jason t (0.001:4.31; 0.01:3.05; 0.05:2.17); GL = 12

Comparisons between the two periods for rural areas, demonstrate a decrease in calories with over 100 calories in the second period. It had decreased these calorie-number of vegetal origin increasing those of animal origin. The same trend is maintained for the proteins, where have decreased the vegetal origin one with 4.8 grams and have increased those of animal origin with 4.4 grams.

Differences in consumption of lipids are quite small, slightly increases with 2.1 grams, especially those of animal origin.

A bigger difference can be seen in the consumption of carbohydrates, 16.8 grams, with the rate of the decline being of 0.14%.

CONCLUSIONS

The food consumption characterization per capita per day for the two periods reflected changes taking into account the intense economic differences caused by the economic crisis.

For the period 2001-2006- the country-level presents a number of calories around the average 2484, having an annual rate declining. Proteins are located around the average of 80 grams, the average of years for lipids of 42 grams and total carbohydrates are between 319.3 grams and 335 grams, the annual rate being in decline.

The period 2007-2014,- country-level the total number of calories varies very little around the average of 2438.9, the annual rhythm being of decrease. Proteins have an average of 81.6 grams, lipids revolve around 84 grams and carbohydrates are the ones that fell, the average pointing nearly 20 fewer carbohydrates in the persons food consumption. The differences between the two periods are quite high, dropping the number of calories with 45.1, high differences can be observed at the calories of vegetal origin, growing interest for the animal for both total protein and lipids.

2001-2006 -Urban level. Compared to the country level, in urban areas are consumed fewer calories per capita, an average of 2385.7.

The period 2007-2014 at Urban level when the total number of calories consumed per day are oscillating between 2340 calories and 2442.4 calories with an average of 2390.9 calories.

Between the two periods are observed differences, i.e. have decreased the calories of vegetal origin with 77.8 calories and increased consumption of animal origin calories with 83.1.

The total number of calories consumed daily in **the period 2001-2006**, in **Rural areas**, it was located between 2643 and 2526 calories, with an average of 2597.2 calories. Of this total number of calories, the vegetal origin calories occupie a share of over 77%, namely 2017 calories.

The calories number for **the period 2007-2014**, **in Rural areas**, it was located between 2443 and 2554 calories, with an annual rate of decline.

Comparisons between the two periods for rural areas, demonstrate a decrease in calories with over 100 calories in the second period. Subtract from these calorie-number of vegetal origin increasing those of animal origin. The same trend is maintained for the proteins, have dropped the proteins of vegetal origin.

It can be concluded that in rural areas for both periods food consumption is higher in relation to food consumption in urban areas, the differences being noticed in the number of calories and carbohydrates, important to note the fact that in urban areas has increased the number of grams of protein of vegetal origin, the orientation towards a more balanced nutrition is more pronounced in this environment.

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