

GENDER AND AGE GROUP STRUCTURES IN MUREȘ COUNTY, AT THE 2011 CENSUS

G. B. TOFAN¹, A. NIȚĂ², B. N. PĂCURAR³

ABSTRACT. – **Gender and Age Group Structures in Mureș County, at the 2011 Census.** The importance of possessing knowledge regarding the above mentioned component stems from territorial demographic and social-economic planning. Thusly, we emphasized the *population gender structure*, starting with *both genders* (BG), followed by *male* (M) and *female* (F) populations. We then proceeded to examine *age groups*, according to the logical succession comprising *young people* (0-19 years of age), *adults* (20-59 years), and *seniors* (≥ 60 years). The demographic pyramid of Mureș County reveals the same aging process recorded at national level, with a *regressive population*, where young people register increasingly lower values, while elderly people are more numerous. Age group structure is also influenced by other exogenous factors, such as *migration* (internal and external). The young urban population of Mureș County is lower (19.89%) than in rural areas (24.93%), while the latter areas have an older population (23%) compared to urban areas (21.72%). The adult population dominates all of the county's administrative-territorial units, the highest values having been recorded in urban settlements (58.39%), where the county seat, the city of Târgu Mureș, reigns supreme (60.08%), while rural areas registered an average of 52.09%, with higher values (above 60%) only in Corunca and Sângeorgiu de Mureș.

Keywords: *population, male, female, age groups, 2011 Census.*

¹ „Vasile Goldiș” Western University of Arad, Faculty of Economic Sciences, Engineering and Informatics, Department of Engineering and Informatics, Baia Mare Branch, 5 Culturii Street, Romania, e-mail: bogdan.tofan@uvvg.ro

² „Babeș-Bolyai” University, Faculty of Geography, Gheorgheni Branch, Csiki Garden, Romania, e-mail: nitaadrian@hotmail.com

³ „Babeș-Bolyai” University Cluj-Napoca, Faculty of Geography, Centre for Research on Settlements and Urbanism; Cluj County Council, Urbanism and Territorial Planning Department, Cluj-Napoca, Romania, e-mail: pacurarbogdan@ymail.com

1. INTRODUCTION

The authors of the study are at their third analysis of the gender and age structure of the population registered at the 2011 Census. The first study involved the County of Harghita, while the second Covasna County, both having been published in the Annals of Oradea University, Geography Series (XXVI, no. 1&2/2016) (see references).

We employed data from the Population and Household Census of 2011, the National Institute of Statistics enabling the possibility to freely access the necessary geodemographic indicators. We must also point out that *the Mureș County Statistical Department* (<http://www.mures.insse.ro>) is among the few in Romania which offers online data at microscalar level (component settlements and villages).

The second stage of the research involved the data analysis, processing and interpretation, in the form of tables, graphs and maps, thus insuring a proper dissemination of the results. We also used several scientific papers and studies that tackled this component (Pop et al., 1973; Surd, 2001; Pop, 2002; Pop et al., 2015; Tofan, 2014 b), focused either on the entire county (Șonerieu & Mac, 1973) or on certain of its areas (Tofan, 2014 a), as well as the methodological guidebooks written by Vert in 1995 and 2001.

2. THE GENDER AND AGE STRUCTURE OF THE POPULATION OF MUREȘ COUNTY

At the census held on 20th October 2011, the County of Mureș registered 550,846 inhabitants, 48.82% (268,941 people) being male, while 51.18% (281,905 people) female.

2.1. Both genders

a) *Young people (0-19 years)*, with a county percentage of 22.39% (123,353 inhabitants out of 550,846), registered values around the above mentioned average, 21-23%, in two urban areas (Târnăveni and Sovata) and in 21 communes (Adămuș, Ațintiș, Bogata, Breaza, Chețani, Corunca, Cuci, Fântânele, Gălești, Gănești, Hodoșa, Ibănești, Lunca, Măgherani, Pănet, Păsăreni, Răstolița, Rușii Munți, Sâncraiu de Mureș, Sânpetru de Câmpie and Vătava).

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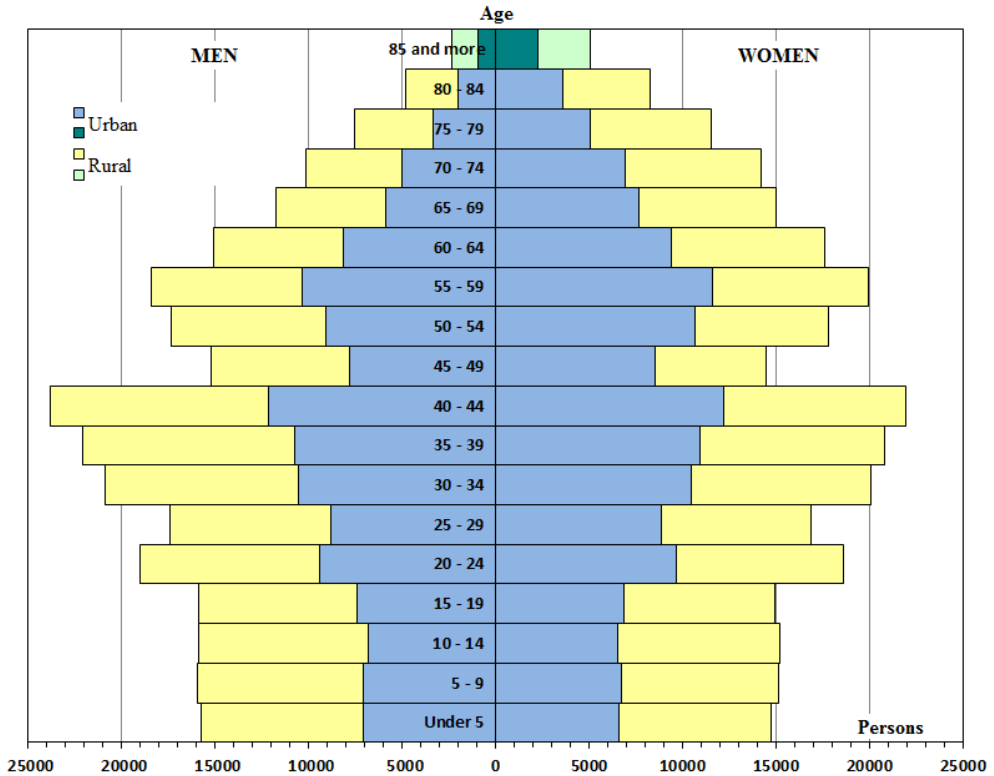


Fig. 1. The age pyramid of Mureș County, 2011

Values below 21% were recorded in 15 administrative-territorial units, the commune of Băla having the lowest percentage (14.81%). Higher values, 23-25%, were found in 25 settlements (3 urban and 22 rural), while the highest, above 25%, in the remaining 39 areas, such as Ungheni (25.79%), Apold (31.71%), Band (31.01%), Nadeș (31.12%), Ogra (31.13%), Petelea (31.64%), Vânători (32.25%) and Vișoara (33.76%).

b) Adults (20-59 years) registered an average of 55.25% (304,368 people) at county level. Values close to this number, 54-56%, were found in 15 administrative-territorial units (Târnăveni, Sângeorgiu de Pădure, Ungheni, Apold, Batoș, Brâncovenesti, Ernei, Gănești, Gurghiu, Hodac, Ibănești, Livezeni, Lunca Bradului, Solovăstru, and Stânceni), while the next 13 units comprising the above 56% category, where the highest value was found in Corunca (61.04%). The lower category, below 54%, encompass 74 areas, the lowest having been found in Băla (38.23%) and Bichiș (37.89%).

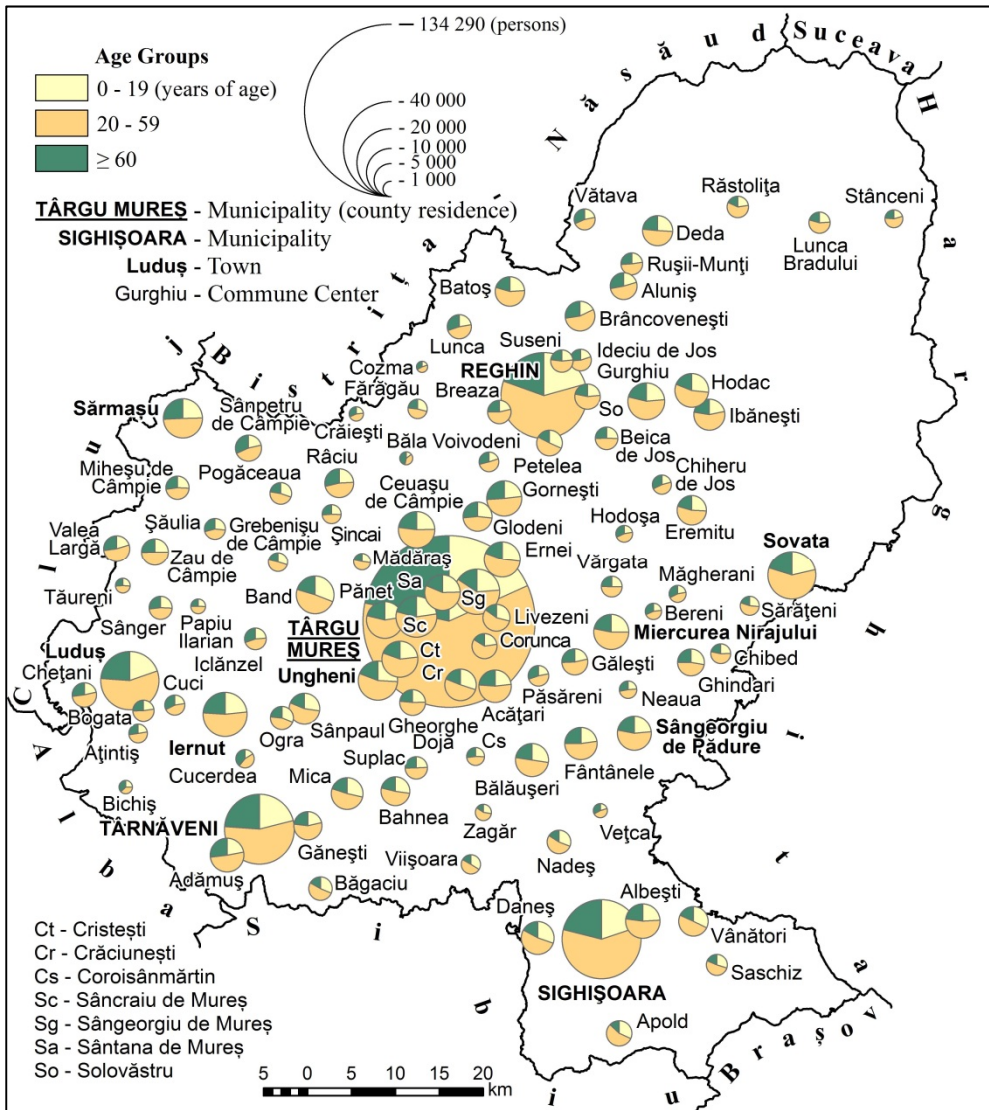


Fig. 2. Age group structure in Mureș County, LAU 2 level, at the 2011 Census

c) Elderly people (over 60 years of age) registered 22.35% at county level (123,125 people). The elderly population can be classified as follows: around the average, 21-23%, values found in 17 settlements (Târgu Mureș, Sighișoara, Miercurea Nirajului, Sângeorgiu de Pădure, Albești, Bahnea, Bălăușeri, Ceuașu de

Câmpie, Chibed, Grebenișu de Câmpie, Gurghiu, Ibănești, Mădăraș, Pănet, Pogăceaua, Sâncraiu de Mureș, and Solovăstru); the 23-25% category including 13 units; above 25% in 44 areas, with its highest values of 46.96% found in Băla, and the category of below 21% with the remaining 28 units (Apold having the lowest, 13.00%).

2.2. The male population of Mureș County

It amounted to 268,941 people (48.82%) and it also can be divided into three main age groups: young people, numbering 63,418 or 23.58% (0-19 years); adults, with a number of 153,968 or 57.25% (20-59 years), and elderly with 51,555 people or a percentage of 19.17%. In terms of the entire 102 administrative-territorial units that comprise the county, the percentages of males were highly varied.

a) *The young people group (0-19 years)*, with an average value of 23.58%, registered percentages above the average, or 22-24%, in three urban areas (Târnăveni, Sângeorgiu de Pădure, and Sovata) and 18 communes (Acățari, Adămuș, Ațintiș, Bogata, Breaza, Chiheru de Jos, Cozma, Cuci, Fântânele, Gălești, Gornești, Lunca, Măgherani, Pănet, Păsăreni, Sâncraiu de Mureș, Suplac, and Vătava). Values above 24% characterised 63 administrative-territorial units, such as the communes of Petelea (33.33%) and Viișoara (33.84%). Lower values, below 22%, were found in the remaining 18 cities and communes of Mureș County, the lowest being recorded in Băla (15.84%).

b) *The adults age group (20-59 years)* registered an average of 57.25% (153,968 inhabitants). Percentages around the average or 56-58% were recorded in four urban areas and 22 rural areas. Most units comprised the below 56% category (61 to be more exact, Băla, with 42.86%, having the lowest value), while the above 58% only included 15 settlements (Corunca, 61.87%, had the highest percentage of males).

c) *The elderly (above 60)* reached an average of 19.17% (51,555 inhabitants out of a total of 268,941 males). 22 administrative-territorial units found themselves around the mentioned value, between 18-20% (Târgu Mureș, Sighișoara, Miercurea Nirajului, Sângeorgiu de Pădure, Bălăușeri, Beica de Jos, Breaza, Ceuașu de Câmpie, Fântânele, Gănești, Ghindari, Pogăceaua, Sâncraiu de Mureș, Șincai, Solovăstru and Suseni).

Values below 18% were recorded in 32 units, the commune of Apold having the lowest percentage (11.68%), while values above 20% were reported in the remaining 48 units, Băla again registering the lowest numbers (41.30%).

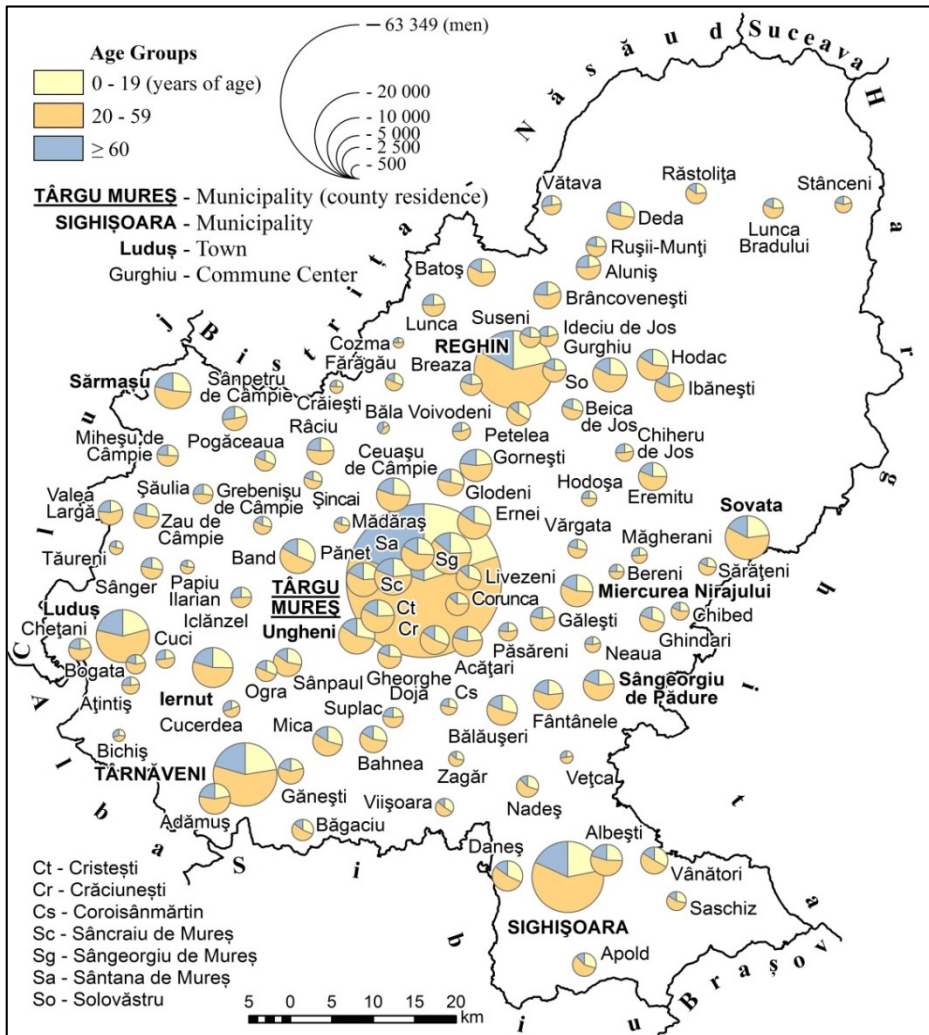


Fig. 3. The age group structure of the male population of Mureș County, LAU 2 level, at the 2011 Census

2.3. The female population of Mureș County

The female population of Mureș County numbered 281,905 individuals (51.18%) of the county's population. Young females had a percentage of 21.26% (59,935 individuals), the adult 53.35% (150,400 individuals), while the elderly 25.39% (71,570).

a) *The young category (0-19 years)*, with an average percentage of 21.26%, was classified as follows: the 20-22% category comprised 22 administrative-territorial units; above 22% category included 64 areas (the highest value in Apold, 33.75%); the below 20% category in the remaining 6 urban areas and 10 communes (Cucerdea, 12.93%, had the lowest representation of young females).

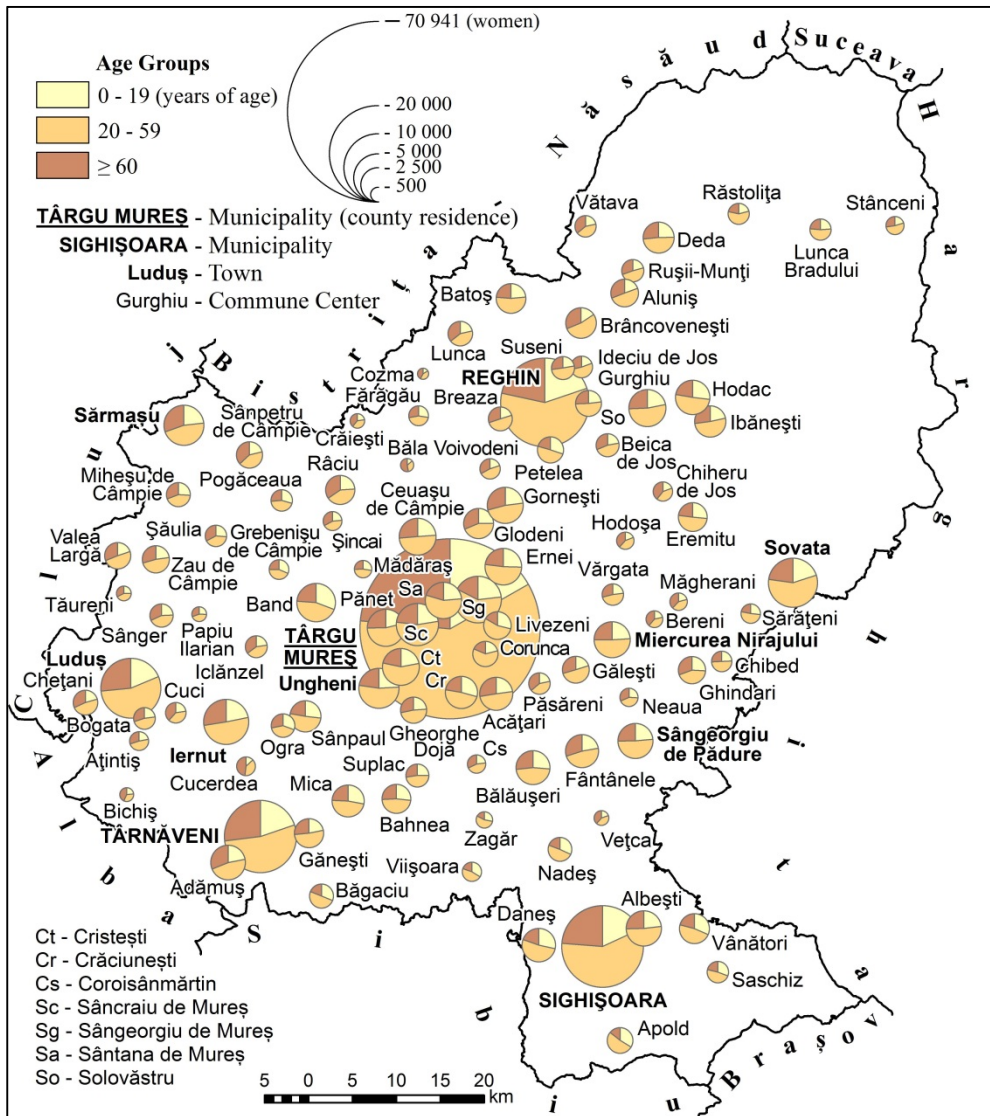


Fig. 4. The age group structure of the female population of Mureș County, LAU 2 level, at the 2011 Census

b) *The adult category (20-59 years)*, with 150,400 individuals (53.35% of the total female population of the county) was distributed in the following manner: values of 52-54% in eight settlements (Târnăveni, Ungheni, Batoș, Brâncovenesti, Daneș, Gurghiu, Lunca Bradului, and Pănet), above 54% with 13 areas (Târgu Mureș, Reghin, Sighișoara, Luduș, Sovata, Corunca (the highest value, 60.20%), Cristești, Livezeni, Răstolița, Sâncraiu de Mureș, Sângeorgiu de Mureș, Sântana de Mureș and Zagăr; values below 52% in most administrative-territorial units (81), Băla registering the lowest percentage, 33.42%.

c) *The elderly female category (over 60 years)*, with an average of 25.39% (71,570 individuals out of a total of 281,905 women) had the following structure: 11 areas recorded values around the average, 24-26%, - Miercurea Nirajului, Sângeorgiu de Pădure, Albești, Bahnea, Chibed, Grebenișu de Câmpie, Gurghiu, Mădăraș, Mica, Pănet and Solovăstru. Values below 24% were found in 30 units (the commune of Apold having the lowest value, 14.34%), while values above 26% were registered in 61 towns and communes, Băla having the highest rate of elderly women in the county (52.83%).

3. CONCLUSIONS

At county level, out of a total population of 550,846 inhabitants, females formed the majority (a ratio of 104 women / 100 men). We encountered the following situation after analysing the major age groups of Mureș County: 55.25% *adults* (304,368 people out of 550,846 inhabiting the county), 22.35% *elderly* (123,125) and 22.39% *young people*.

Table 1. The gender and age group structure of Mureș County at the 2011 Census
(Data source: 2011 Census)

Mureș County	Gender	Total stable population	Age groups					
			0-19	%	20-59	%	≥ 60	%
TOTAL	BG	550846	123353	22.39	304368	55.25	123125	22.35
	M	268941	63418	23.58	153968	57.25	51555	19.17
	F	281905	59935	21.26	150400	53.35	71570	25.39
Urban	BG	276773	55039	19.89	161613	58.39	60121	21.72
	M	132494	28360	21.40	78801	59.48	25333	19.12
	F	144279	26679	18.49	82812	57.40	34788	24.11
Rural	BG	274073	68314	24.93	142755	52.09	63004	22.99
	M	136447	35058	25.69	75167	55.09	26222	19.22
	F	137626	33256	24.16	67588	49.11	36782	26.73

BG = both genders, M = male, F = female.

Young people (22.39%) varied in terms of percentages between 14.81% (Băla) and 33.76% (Viișoara), values above 30% having been found only in Crăciunești, Daneș, Pogăceaua, Band, Băgaciu, Apold, Nadeș, Ogra and Petelea.

Adults were the most abundant (55.25%), values above 60% having been found in the county residence city of Târgu-Mureș (60.08%) and in two adjacent communes (Sângeorgiu de Mureș, 60.38%, and Corunca, 61.04%), while the lowest values were recorded in two rural settlements with populations below 1,000 inhabitants (Bichiș, 37.89% and Băla, 38.23%).

Older people averaged 22.35%, while the highest percentage of elderly (46.96%) was registered in Băla, and the lowest in Apold, a rural community where the Gypsy population exceeds 20%.

In urban areas, values below the 21.72% average were recorded in half of the county's towns (Ungheni, Reghin, Sovata, Sighișoara and Târgu-Mureș), areas where adults were numerous. The town of Sărmașu (25.80%) was at the opposite side, recording the highest value.

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