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CHANGES IN DEVELOPMENT AND SPATIAL DISTRIBUTION OF POPULATION IN ALEKSANDROVAC MUNICIPALITY IN THE SECOND HALF OF THE 20TH CENTURY

Abstract: There are numerous different and spatially dispersive marks of a human living (material and spiritual) and especially of a settlement development at the present territory of Aleksandrovac municipality (387 km², 55 settlements and 29,387 inhabitants). They are characterized by historical continuity, from late prehistory until present time, as well as by chorological and chronological fluctuation in concentration. The most important localities for the research of the oldest settlement and cultural history of this geographic area are situated in following settlements: Vitkovo, Venčac, Garevina, Tuleš, Rudenice, Trnavci, Aleksandrovac, Puhovac, Ljubinci etc. The basis of modern settlement-demographic structure dates from the middle 18th and the beginning of 19th century. In this article are stressed particular, especially important for recent condition, population changes that occurred during the second half of 20th century.

Key words: population, households, Aleksandrovac municipality.

Извод: Трагови људског живљења (материјални и духовни), а пре свега насеобинског развоја, на данашњој територији општине Александровац (387 km², 55 насеља и 29.389 становника) су многобројни, разноврсни и просторно дисперзни. Карактерише их историјска континуираност присуства, од млађе праисторије до данас, али и хоролошка и хронолошка промењивост концентрације. За тумачење најстарије насеобинске и културне прошлости овог геопростора посебно су значајни локалитети у атарима насеља: Витково, Венчац, Гаревина, Тулеш, Руденице, Трнавци, Александровац, Пуховац, Љубинци и др. Основа савремене насеобинско-демографске структуре утемељена је од средине XVIII и током прве половине XIX века. У овом раду су посебно апострофиране поједине, за рецентно стање пресудно значајне, популационе промене присутне током друге половине XX века.

Кључне речи: становништво, домаћинства, општина Александровац

Introduction

Current population situation and its trends in the territory of Aleksandrovac municipality are characterized by numerous interconnected and synchronized changes and trends. During the second half of the 20th century, the following stood out as significant and typical:

- Slight increase and further stagnation and fall of the total population;
- Permanently lower population density rate in Aleksandrovac municipality compared with the population density rate of the Rasinski Region according to the 1971 census and compared with Serbia as a whole;
- Fall in the proportion of Aleksandrovac municipality population in the total population of the Rasinski Region and Central Serbia;
- Dynamic demographic growth of the town and the share of urban population in the total population of the municipality;
- Permanent absolute decrease of rural population and its share in the total population of the municipality;
- Evident demographic aging and feminization, above all of rural population, etc.

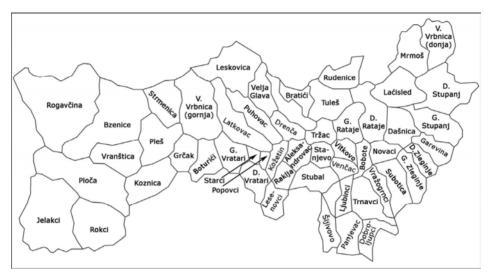
Changes in population change and distribution

The population of Aleksandrovac municipality, as a complex bio-social and territorial system, is exposed to numerous external and internal factors and interactions of development resulting from the impact of natural environment, historical, socio-economic and psycho-social processes. For such a broad and complex interdependence, population development, as a real demographic process, represents a continuous and complex course of quantitative and qualitative changes at different levels of organization of life, from family and settlement locally, to regional, national and global levels. Also, population as a complex and multidimensional structure is prone to changes resulting from its own developmental tendencies.

Aleksandrovac municipality has dispersed population with population density (80.98 pop/km²) which is smaller than the population density of the Rasinski Region (103 pop/km²) and Central Serbia (103.79 pop/km²). Actually, population density of the municipality was in decline since 1953 when it reached its peak (89.79 pop/km²) – in 2002, it accounted for 78.02% of the population density of Central Serbia, i.e. 78.62% of the Rasinski Region. At the same time, the proportion of Aleksandrovac municipality population in the total population of the Rasinski Region was registering permanent fall – from 14.48% in 1948 to 11.33% in 2002 (according to the 2002 census methodology).

In spite of intercensal oscillations, the total population of the municipality decreased from 32,612 to 31,338 between 1948 and 2002, which is 23.6 inhabitants a year. Observed according to intercensal periods, the largest growth of the total population of the municipality was registered in 1948-1953 (2,136) and the sharpest fall in 1991-2002 (1,877). Statistical value of the regis-

tered fall is actually even larger if we apply new census methodology, i.e. from 33,125 to 29,389 or by 3,826 inhabitants¹.



Layout 1. – Identification basis for settlement areas in Aleksandrovac municipality

Trends in the total population of Aleksandrovac municipality during the period under consideration vary between slight increase, stagnation and fall within the categories of urban and rural population; especially since 1961, the situation has diametrically changed. The population of the municipal centre was on the rise – from 1,027 in 1948 to 6,476 in 2002, i.e. by 530.57%.

¹ Fall in the number of the population in the said intercensal period results from the

"temporarily" working abroad and members of their family who accompanied them aboard. However, after the 1991 census, special processing was done (C3C, 9, 1996),

combined impact of actual fall and change in census methodology. Because of differences in defining the category "total population" in the census methodology between 1965 and 2002, their full comparability is not completely acceptable and justified. In some censal years, the defined category "total population" was equalized with "de facto population" or "resident population". The results of the 1961 census were processed based on the "resident population" concept, i.e. based on the permanent residence of every inhabitant, regardless of the fact where such person was located at the moment of the census. According to the 1971, 1981 and 1991 census, the concept "total" or "resident population" included both population who lived in the country and population

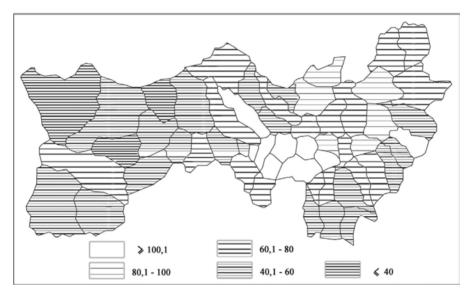
which enabled data comparison. In accordance with international recommendations, the 2002 census, in the category "resident" or "total population", included: population in the country, our citizens residing in a foreign country for a period shorter than one year, refugees with residence in Serbia regardless of their citizenship and foreign citizens residing in the territory of Serbia for the period longer than one year.

Простор: предмет картографског моделовања

Table 1. – Population and households in 1953-2002.

			Popul	ation			Nur	nber o	f hous	eholds		Average size of the household
	53.	61.	71.	81.	91.	02.	53. 61.	71.	81.	91.	02.	53. 61. 71. 81. 91. 02.
Aleksandrovac	1153	1320	3067	5177	6354	7014	362 411	1027	1605	1857	2208	3.2 3.2 3.0 3.2 3.4 3.2
Bzenice	1019	1005	723	588	432	434	146 166	158	146	123	132	7.0 6.1 4.6 4.0 3.5 3.3
Bobote	549	556	516	473	424	366	89 96	104	116	121	111	6.2 5.8 5.0 4.1 3.5 3.3
Boturići	413	399	354	336	308	279	63 60	64	71	80	78	6.6 6.7 5.5 4.7 3.9 3.6
Bratići	284	252	216	204	168	144	38 46	48	46	42	39	7.5 5.5 4.5 4.4 4.0 3.7
V. Vrbnica	794	774	705	619	484	471	113 115	120	128	121	116	7.0 6.7 5.9 4.8 4.0 4.1
Velja Glava	367	376	324	302	263	198	53 58	62	62	57	52	6.9 6.5 5.2 4.9 4.6 3.8
Venčac	448	390	396	401	478	456	66 64	81	95	120	119	6.8 6.1 4.9 4.2 4.0 3.8
Vitkovo	535	565	514	493	565	508	87 96	108	115	139	151	6.2 5.9 4.8 4.3 4.1 3.4
Vražogrnci	480	485	450	378	381	309	72 80	98	101	110	100	6.7 6.1 4.6 3.7 3.5 3.1
Vranštica	315	318	266	206	125	75	37 39	34	39	28	24	8.5 8.2 7.8 5.3 4.5 3.1
Vrbnica	823	834	715	671	609	564	166:176	167	175	163	156	5.0 4.7 4.3 3.8 3.7 3.6
Garevina	315	304	513	503	451	431	46 55	118	114	113	125	6.9 5.5 4.4 4.4 4.0 3.5
G. Zleginje	773	728	648	621	580	458	126 136	143	160	151	137	6.1 5.4 4.5 3.9 3.8 3.3
G. Rataje	1155		1055	1004	964	890	193 217	228	230	226	219	6.0 5.1 4.6 4.4 4.3 4.1
G. Vratari	380	338	284	246	213	200	57 58	59	58	52	57	6.7 5.8 4.8 4.2 4.1 3.5
G. Stupanj	1166		1022		859	691	210 223	234	231	224	212	5.6 4.9 4.4 4.0 3.8 3.3
Grčak	350	340	269	229	182	151	42 51	53	54	46	45	8.3 6.7 5.1 4.2 4.0 3.4
Dašnica	845	825	795	752	754	713	148:161	185	191	191	188	5.7 : 5.1 : 4.3 : 3.9 : 4.0 : 3.8
	653	587	548	481	425	374	107:112	128	136	124	119	6.1 5.2 4.3 3.5 3.4 3.1
Dobroljupci		569	503	430	392	302		128			97	
D. Zleginje	588						113 120		120	116		
D. Rataje	1203			1045	1010	960	206;231;	242	245	245	240	5.8 5.0 4.5 4.3 4.1 4.0
D. Vratari	476	448	395	340	316	299	72 78	82	79	75	76	6.6 5.7 4.8 4.3 4.2 3.9
D. Stupanj		1589				1138	281 316	312	311	298	293	5.8 5.0 4.5 4.3 4.2 3.9
Drenča	573	559	296	275	299	278	95 1111	57	63	69	75	6.0 5.0 5.2 4.4 4.3 3.7
Jelakci	980	1109		844	627	505	117 132	152	158	164	137	8.4 8.4 7.1 5.3 3.8 3.7
Kožetin	355	350	504	885	888	936	78 91	156	276	246	297	4.6 3.9 3.2 3.2 3.6 3.2
Koznica	323	313	321	267	211	150	45 46	52	54	52	48	7.2 6.8 6.2 4.9 4.1 3.1
Latkovac	780	775	756	674	574	502	113 125	135	144	146	139	6.9 6.2 5.6 4.7 3.9 3.6
Lacisled	1042			964	954	864	181 203	229	228	224	221	5.8 5.2 4.2 4.2 4.3 3.9
Lesenovci	315	331	288	256	209	195	43 48	59	60	57	54	7.3 6.9 4.9 4.3 3.7 3.6
Leskovica	489	503	515	440	381	322	62 81	88	88	78	76	7.9 6.2 5.9 5.0 4.9 4.2
Ljubinci	505	492	430	361	371	328	78 87	92	90	97	95	6.5 5.7 4.7 4.0 3.8 3.5
Mrmoš	1106			971	954	864	206 232	246	244	248	230	5.4 4.9 4.1 4.0 3.9 3.8
Novaci	521	510	502	463	450	422	91 96	104	115	121	121	5.7 5.3 4.8 4.0 3.7 3.5
Panjevac	622	547	507	425	339	293	92 97	108	107	101	100	6.8 5.6 4.7 4.0 3.4 2.9
Parčin	408	373	373	348	283	274	56 62	72	72	70	70	7.3 6.0 5.2 4.8 4.0 3.9
Pleš	777	795	695	585	490	403	111 130	127	132	122	115	7.0 6.1 5.5 4.4 4.0 3.5
Ploča	640	726	701	606	574	476	87 94	100	111	118	120	7.4 7.7 7.0 5.5 4.9 4.0
Popovci	73	77	61	73	77	103	12 14	19	21	23	31	6.1 5.5 3.2 3.5 3.4 3.3
Puhovac	499	543	495	388	531	510	71 88	96	87	130	135	7.0 6.2 5.2 4.5 4.1 3.8
Raklja	262	273	359	442	583	727	39 45	94	108	156	214	6.7 6.1 3.8 4.1 3.7 3.4
Ržanica	570	538	489	458	388	350	85 93	96	112	98	89	6.7 5.8 5.1 4.1 4.0 3.9
Rogavčina	831	1091	829	687	410	221	184 153	159	152	122	78	4.5 7.1 5.2 4.5 3.4 2.8
Rokci	664	712	672	551	508	282	77 85	93	104	99	81	8.6 8.4 7.2 5.3 5.1 3.5
Rudenice	298	302	281	299	264	258	47 56	57	60	60	58	6.3 5.4 4.9 5.0 4.4 4.5
Stanjevo	363	352	676	991	1197	1337	66 67	182	265	295	372	5.5 5.3 3.7 3.7 4.1 3.6
Starci	90	92	74	74	69	53	14 12	16	14	16	14	6.4 7.7 4.6 5.3 4.3 3.8
Strmenica	799	584	473	360	270	194	108 77	86	84	79	72	7.4 7.6 5.5 4.3 3.4 2.7
Stubal	527	535	503	524	591	654	71 98	107	119	138	173	7.4 5.5 4.7 4.4 4.3 3.8
Subotica	1067	995	916	851	838	724	156 174	220	222	214	206	6.8 5.7 4.2 3.8 3.9 3.5
Tržac	361	310	305	287	270	253	59 60	69	69	66	69	6.1 : 5.2 : 4.4 : 4.2 : 4.1 : 3.7
Trnavci	866	872	763	635	581	494	155 177	177	171	153	159	5.6 4.9 4.3 3.7 3.8 3.1
Tuleš	696	729	674	687	629	561	119 129		144	140	134	5.9 5.7 5.0 4.8 4.5 4.2
Šljivovo	640	590	490	448			99 103					6.5 5.7 4.2 3.8 3.7 3.3
SIJITOTO	040	570	770	770	723	500	// (103)	11/	11/	113	117	0.010.1117.210.010.1110.0

The population of rural settlements was in permanent decline – from 33,595 in 1953 to 24,243 in 2002. Fall in the population of rural settlements has been particularly intensive since 1961, resulting from the migration of a portion of economically active and fertile contingent, mostly to Aleksandrovac urban settlement and to a significant extent to foreign countries. Rural population index for 2002/1953 is 72.40. The time and volume of intensive absolute and real decrease in rural population show high level of positive correlation with growth in urban population. Thus, in 1961-2002, the share of urban population in total population rose from 3.82% to 22.38%.



Layout 2. – Index of changes in population number, 2002-1953.

Although total rural population of the municipality started decreasing since the 1953-1961 intercensal period (-375), its analysis for individual rural settlements shows significant differences in trends, dynamics and chronology. In the 1953-2002 intercensal period, in eight (Venčac, Puhovac, Garevina, Stubal, Kožetin, Raklja and Stanjevo) out of 54 rural settlements, population rise by a total of 2312 inhabitants was registered. The absolute value of population growth for specific settlements is as follows: Stanjevo (974), Kožetin (581), Raklja (465), Stubal (127), Garevina (116), Popovci (30), Puhovac (11) and Venčac (8). The largest growth index was registered in Stanjevo – 368.32, Raklje – 277.48 and Kozetin – 263.66.

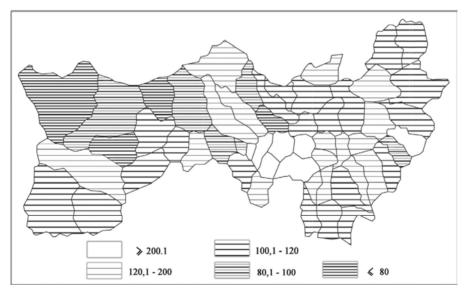
Of the total number of rural settlements in the period 1953-2002, fall in population was registered in 46, i.e. 85.2%. In nine rural settlements (16.6%), the registered fall exceeds 50%. The highest absolute value of depopulation in this period was registered in Rogavčina -610, Strmenica -605,

Bzenice -585, D. Stupanj -484 and others. As opposed to the absolute values of population change, where rural settlements with the largest population mostly dominate, relative indicators reveal the level of intensity of depopulation in smaller settlements, too. The largest percent of decrease in 1953-2002 was registered in Vranštica – 76.19%, Strmenica – 75.72%, Rogavčina – 73.41% etc.

Changes in movement and distribution of households

In the period 1948-2002, the number of households in the territory of the municipality was on permanent rise – from 5,229 to 8,789 or by 68%. The average population size was reduced from 6.24 to 3.39 pop/household. With regard to interdependence between total population trends and the number of households, what could be observed are clear differences between municipal center and other settlements, cumulatively and individually.

With regard to the urban settlement, the number of households was permanently growing – more or less intensively: between 1948 (331) and 2002 (2,208), it increased 6.67 times. The relative ratio of urban households to other households ranged from 6.24%:93.76% (1948) to 24.56%:75.44% (2002). At the same time, in the settlements categorized as other, the number of households increased from 4898 to 6783, or by 38.49%. The municipal center accounts for approximately 50% of the total growth in the number of households in the municipality in 1948-2002.



Layout 3. – Index of changes in number of households, 2002-1953.

At the level of municipality, the most intensive absolute and relative growth in the number of households was registered in the 1961-1971 intercen-

sal period by 1,230 or 19.74%. The largest decrease of the average size – from 5.54 to 4.52 pop/household was registered during the same period. This trend, with somehow lower intensity, continued into the next intercensal period, when the number of households rose by 935 or 12.49%. The pace of growth in the next intercensal periods evidently stagnated; thus, in 1981-2002, its number increased by 572 or 28.6 households a year on average

In Aleksandrovac urban settlement, the dynamic of growth in some intercensal periods displayed variable absolute and relative indicators. The most significant absolute growth by 616 households or 150% was registered in 1961-1971. Developments in the number of households in the group of settlements categorized as other registered growth in 1948-1981 and then fall until 2002. As far as individual rural settlements are concerned, in 1948-2002, absolute growth in the number of households was present in 44 or 81.48% of all households, while eight registered fall. In two settlements (Starci and G. Vratari), the number of households remained unchanged. The most significant absolute growth in the number of households is registered in Stanjevo (306), Kozetin (219), Raklja (175), while the most pronounced fall is present in Rogavčina (-106), Strmenica (-36), D. Zleginje (-16) etc.

And while the average household size in the settlements classified as other was in permanent decline (the reduction of broader family structures to family nucleus), in the municipal center it had dominant upward trend, resulting in the following ratios in specific intercensal processes: 4.3:2.8 (1961); 3.8:2.9 (1971); 3.5:3.0 (1981); 3.2:3.2 (1991) µ 3.0:3.1 (2002).

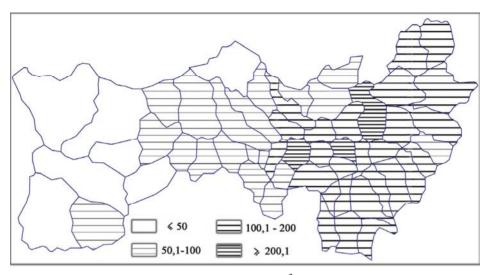
Spatial distribution of the population

Population density of the territory is analyzed at the level of settlement district in censal processes in 1961 and 2002. During 1961, 26, i.e. 47.27% of settlement districts, with the total area of 239.96 km², that is 62% of the total territory, had the density smaller than 100 pop/km². Also, 26 settlement districts with the total area of 135.43 km² had population density between 100 and 200 pop/km². The largest population density exists in the settlement districts of Aleksandrovac (368.72), Vitkovo (243.44) and D. Rataje (230.67). The smallest population density is present in Koznica (32.17), Rogavčina (33.52) and Vranštica (38.36).

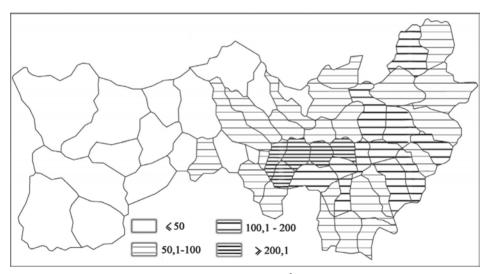
During 2002 (calculated according to the previous census methodologies), 39, i.e. 70.9% of the total number of settlement districts, covering the area of 329.16 km² or 49.43% of the total municipal territory, had population density smaller than 100 pop/km². In 16 settlement districts, area 191.23 km² or 49.43% of the total municipal territory, population density is smaller than 50 pop/ km².² Population density of 100-200 pop/km² is present in 11 settlement

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² Based on the analysis of specific foreign experiences, Mendras, (1986) draws a conclusion that a sustainable developmental minimum should tend to the density of at least



Layout 4. – Population density (population/km²) per settlement area in 1961.



Layout 5. – Population density (population/km²) per settlement area in 2002.

50 pop/km². Research done under the auspices of the UN indicates that low density/concentration and dispersion of rural population aggravate and increase the costs of equipping them with social and technical infrastructure and complicated and expensive services (Lackó, 1986). It is small concentration of the population both in rural territories and in settlements as basic inhabiting units, together with population aging and irrational network of settlements, that does not enable the sustainability of the existing or the development of new supra- and infrastructure facilities or the attainment of necessary forms of social standard.

Space: subject of cartographic modeling

Table 2. – Area, population density (1961 and 2002) and demographic age index (i_s) by settlements (1961, 1991 and 2002).

	Area	Demog	raphic age i	ndex (i _s)	Area population density (pop/km²)		
	in ha	1961	1991	2002	1961	2002	
Aleksandrovac	358	0.3	0.3	0.6	368.72	1959.22	
Bzenice	2122	0.2	1	1.4	47.36	20.45	
Bobote	310	0.4	1.6	2.5	179.35	118.1	
Boturići	518	0.3	1.1	1.9	77.03	53.81	
Bratići	390	0.2	0.9	3.1	64.62	36.92	
V. Vrbnica	738	0.2	1	1.4	104.87	63.82	
Velja Glava	588	0.2	0.9	1.8	63.95	33.67	
Venčac	256	0.4	0.9	1.2	152.34	178.13	
Vitkovo	241	0.3	0.8	1.4	234.44	210.79	
Vražogrnci	320	0.2	1.8	1.6	151.56	96.56	
Vranštica	829	0.1	1.2	1.6	38.36	9.05	
Vrbnica	1530	0.3	1.6	2.1	54.51	36.86	
Garevina	364	0.2	1.1	1.6	83.52	118.41	
G. Zleginje	423	0.3	1.5	2.2	172.1	108.27	
G. Rataje	910	0.3	1.5	1.7	122.3	97.8	
G. Vratari	442	0.2	0.9	1.0	76.47	45.25	
G. Stupanj	827	0.4	1.7	2.3	133.13	83.56	
Grčak	428	0.2	1.2	1.5	79.44	35.28	
Dašnica	540	0.4	1.2	1.3	152.78	132.04	
Dobroljupci	425	0.3	1.2	1.8	138.12	88	
D. Zleginje	338	0.3	2.2	2.8	168.34	89.35	
0 0	502	0.3	1.5	1.4	230.67	191.24	
D. Rataje	498	0.3	0.9	1.4	89.96	60.04	
D. Vratari							
D. Stupanj	1178	0.3	1.2	1.7	134.89	96.60	
Drenča	442	0.4	1.2	1.3	126.47	62.9	
Jelakci	2372	0.1	1.2	2.6	46.75	21.29	
Kožetin	196	0.3	0.3	0.5	178.57	477.55	
Koznica	973	0.2	0.6	1.9	32.17	15.42	
Latkovac	816	0.2	0.9	1.4	94.98	61.52	
Laćisled .	911	0.3	1	1.5	115.81	94.84	
Lesenovci	386	0.2	1.4	1.8	85.71	50.52	
Leskovica	1235	0.1	0.7	1.2	40.73	26.07	
Ljubinci	253	0.3	1.2	1.4	194.47	129.64	
Mrmoš	850	0.3	1.2	1.6	133.29	101.65	
Novaci	330	0.4	1.2	1.7	154.55	127.88	
Panjevac	470	0.3	1.9	1.9	116.38	62.34	
Parčin	289	0.2	1.8	1.9	129.07	94.81	
Pleš	900	0.2	1	1.5	88.33	44.78	
Ploča	1745	0.1	0.6	1.4	41.60	27.28	
Popovci	115	0.3	1.1	0.9	66.96	89.57	
Puhovac	639	0.2	0.6	0.8	84.97	79.81	
Raklje	326	0.2	0.6	0.7	83.74	223	
Ržanica	508	0.3	1.1	1.7	105.91	68.9	
Rogavčina	3255	0.2	1.6	3.4	33.52	6.79	
Rokci	1398	0.2	0.8	7.6	50.93	20.17	
Rudenice	389	0.3	1.3	2.2	77.63	66.32	
Stanjevo	352	0.3	0.4	0.7	100	379.83	
Starci	165	0.2	0.4	1.7	55.76	32.12	
Strmenica	751	0.2	1.6	2.7	77.76	25.83	
Stubal	530	0.3	0.9	1.1	100.94	123.39	
Subotica	613	0.3	1.2	1.9	162.32	118.11	
Tržac	263	0.3	1.3	1.3	117.87	96.2	
Trnavci	855	0.4	1.3	1.8	101.99	57.78	
Tuleš	822	0.2	1	1.6	88.68	68.25	
Šljivovo	416	0.3	1.5	2.0	141.83	91.35	

districts that cover the total area of 49.71 km^2 . The smallest population density exists in Rogavčina -6.79, Vranštica -9.05 and Koznica -15.42 pop/km^2 . On the other hand, the largest population density is registered in Aleksandrovac -1959.22, Kožetin -477.55 and Stanjevo 379.83 pop/km^2 .

Population age structure

The age structure of the population is the most important qualitative indicator of the demographic framework of population and economic prospects of settlements and their administrative territories. Moreover, it is also a key determinant of demographic, settlement-related, functional, economic and overall economic-geographic and physical-geographic processes. The age structure of the population could thus be the basis for the projection of overall evolution and existence of economic activities and geographic space in general.

Although this process is cumulatively and individually differentiated between the municipal center and other settlements, generally speaking aging is a general characteristic of continuous change in the age structure of the population in almost all settlements.

Under current circumstances it is so unfavorable that it appears as the primary limiting factor of its spatial and socio-economic survival and development. Age differentiation of the population is established by the comparison of age index³ for each individual settlement in the 1961, 1991 and 2002 censal processes.

Based on a selected indicator of demographic age, it may be concluded that the settlements of Aleksandrovac municipality, although significantly and broadly diversified, had conditionally the most homogeneous age structure at the beginning of the observed period in 1961, while in analyzed periods of 1991 and 2002 they become heterogeneous and polarized. The differentiation of changes of demographic age is typical both for individual settlements and for the groups of settlements according to the type (urban and other), the categories of settlements of different population size, functional capacity (municipal center, centers of rural communities, primary rural settlements) etc.

The existing scales of the stage of demographic age (Фригановић М., Пенев Γ ., Спасовски М. et al), with regard to this group of settlements, especially in the 1991 and 2002 census, were not convenient for application, because the values of demographic age index in the significant number of individual settlements were such that they were concentrated on the borders of the said models. The obtained results and the dynamics of their changes have such

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³ Aging index speaks of the ratio of elderly (60 years of age and older) and young (up to 20 years of age) segment of the population ($i_s=V_{60}/V_{0-19}$).

variations that their further classification would be difficult. Classification would make sense only if every category of population age could be attributed specific name.

No settlement was identified in the stage of the deepest demographic old age in 1961, while the demographic age index for individual settlements ranged between 0.1 (Vranštica, Jelakci, Leskovica and Ploča) to 0.4 (Venčac, G. Stupanj, Dobroljupci, Drenča and Trnavci). In 1991, settlements with the youngest population $(i_s - 0.3)$ were Aleksandrovac and Kožetin, while Zleginje $(i_s - 2,2)$ was the oldest.

There were 17 settlements in the group of settlements with the deepest demographic old age in 1991 and 43 in 2002. According to the share of settlements in the stage of the deepest demographic old age in 2002, Aleksandrovac municipality had 78.19% of the total number of settlements, which is considerably above the average for Central Serbia -68.9%.

Relative homogeneity of the age structure in 1961 was certainly to a significant extent due to the impact of post-war compensation period (birth rate growth in 1946-1954) and still incomplete processes of demographic transition, for which reason relative shares of young population were of approximate size. While in the following intercensal periods changes in population age structure of the municipal center were minor, until the last intercensal period, in the group of settlements categorized as other, since 1971, they trended towards pronounced aging.

Such change in the population age structure in the settlements categorized as other resulted from combined impact of the establishment of standard secular flows of natural movement which normally occur after the compensation period, above all as a result of selective migration of the population in the reproductive period and consequent effect of reduction in birth⁴.

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ПРОМЕНЕ У РАЗВОЈУ И ПРОСТОРНОМ РАЗМЕШТАЈУ СТАНОВНИШТВА ОПШТИНЕ АЛЕКСАНДРОВАЦ ТОКОМ ДРУГЕ ПОЛОВИНЕ XX ВЕКА

Резиме

Са површином од $386,55~{\rm km}^2$ и 29.389 становника (попис 2002.) Александровац је општина Централне Србије са просечним величинским параметрима

(0,69% територије и 0,54% становника). У склопу Расинског округа $(2.668~{\rm km}^2)$ учествује са 14,5% територије и 11,33% становника. Од шест општина Расинског округа, по површини од ње су мање Ћићевац $(124~{\rm km}^2)$ и Варварин $(248~{\rm km}^2)$, а по броју становника Ћићевац (10.755), Брус (18.764) и Варварин (20.122).

Савремену насеобинску мрежу општине Александровац чини 55 статистички евидентирана насеља (51 К.О.) организованих у 53 месне заједнице и 11 месних канцеларија. По правном критеријуму једно насеље је градско (управно-административни центар) и 54 насеља у категорији осталих. Реална структура мреже насеља надограђена је постојањем несамосталних насеобинских јединица ("пољане" као сезонска виноградарска насеља котлинског дела општине, захваћених различитим процесима функционалних трансформација и викенд насеља планинског дела простора), која нису предмет регистра актуалне статистичке евиденције.

Општина има дисперзну насељеност са густином становништва (80,98 ст/km²) која је мања од оне за Расински округ (103 ст/km²) и Централну Србију (103,79 ст/km²). Заправо, густина насељености општине од 1953. - 89,79 ст/km² опада тако да 2002. године достиже 78,02% вредности за територију Централне Србије, односно 78,62% за Расински округ.

Истовремено, учешће популације општине Александровац у укупном становништву Расинског округа, бележи континуиран пад са 14,48% - 1948. на 11,33% - 2002. године. Посматрано по међупописним периодима највећи пад укупног становништва општине остварен је у периоду 1991-2002. (1.877). Статистички износ оствареног пада у овом међупописном периоду је заправо, применом нове пописне методологије, још и већи са 33.215 на 29.389 или за 3.826 становника.

Од 1953. године становништво сеоских насеља се континуирано смањује са 33.595 на 24.243 - 2002. године. Ово смањење је интензивирано од 1961. године услед исељавања дела радно способног и фертилног (репродуктивно способног) контингента, претежно у градска насеља Александровац и Крушевац, али у значајној мери и на рад у иностранство. Индекс становника сеоских насеља за период 2002/1953. године је 72,40. Истовремено, популација општинског центра се континуирано увећава са 1.027 становника 1948. на 6.476 – 2002 године, односно за 530,57%. У периоду 1961-2002. године учешће урбане у укупној популацији расте са 3,82% на 22,38%.

У категорији најзначајнијих тенденција у развоју и просторном размештају становништва општине Александровац током друге половине хх века истичу се:

- пад укупне популације,
- континуирано апсолутно смањење становништва сеоских насеља и његовог учешћа у укупној популацији општине,
 - изразито демографско старење и феминизација, пре свега, сеоског становништва,
- популациона атрофија и ерозија виталних функција планинских насеља и атара,
- фактички процеси популационог и насеобинског проређивања планинских (популационо гашење и/или груписање појединих морфо-физиономских

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делова сеоских насеља) и груписања на нижим котлинским деловима простора (новија изградња дуж савременијих саобраћајних комуникација, функционална трансформација појединих "пољана" из привремених у стална насеља) и др.