

Demographic Shifts in Hungary: A County-Level Analysis of Population Trends (2010-2022)

I. Introduction

This report presents a detailed analysis of the official yearly population data for the 19 counties of Hungary, including the capital city of Budapest, spanning the period from 2010 to 2022. The data, obtained from the Hungarian Central Statistical Office (KSH), provides a comprehensive view of the demographic changes that have occurred at the sub-national level within Hungary during this timeframe. This analysis includes a structured presentation of annual population figures for each administrative unit, alongside calculations of year-to-year population changes. Understanding these demographic trends is vital for a range of stakeholders, including policymakers who require accurate data for effective resource allocation and infrastructure development, researchers seeking to understand population dynamics, and businesses aiming to identify areas of growth or decline for strategic planning ¹.

The official source of the data presented in this report is the Hungarian Central Statistical Office (KSH), a professionally independent public administration agency operating under the Hungarian government. The KSH is the primary authority responsible for the collection, processing, and dissemination of a wide array of socio-economic statistics, including the population data for Hungary ¹. The specific data utilized in this report is derived from the KSH's STADAT database, specifically Table 22.1.2.1, titled "Resident population by sex, county and region, 1st January" ³. Given the KSH's role as the official statistical agency of Hungary, adhering to principles of relevance, impartiality, and objectivity, the data presented herein is considered a highly reliable and authoritative source for demographic information ¹.

The structure of this report is as follows: Section II will present the official annual population data for each county and Budapest in a clear tabular format. Section III will analyze the year-to-year population changes calculated from this data, highlighting significant trends and variations across different regions. Section IV will delve into broader demographic trends and observations identified from the data, discussing potential factors that may have influenced these changes. Finally, Section V will provide a conclusion summarizing the key findings and their potential implications for Hungary.

II. Official Population Data by County and Budapest (2010-2022)

This section presents the official resident population figures for each of the 19

counties in Hungary and Budapest for each year from 2010 to 2022. The 19 counties are Bács-Kiskun, Baranya, Békés, Borsod-Abaúj-Zemplén, Csongrád-Csanád, Fejér, Győr-Moson-Sopron, Hajdú-Bihar, Heves, Jász-Nagykun-Szolnok, Komárom-Esztergom, Nógrád, Pest, Somogy, Szabolcs-Szatmár-Bereg, Tolna, Vas, Veszprém, and Zala ⁵. Budapest, as the capital city, is listed separately due to its unique administrative status ⁶. The data presented in Table 1 has been directly sourced from the KSH's official statistics ⁴, ensuring accuracy and alignment with the user's request for official data.

Table 1: Annual Resident Population by County and Budapest (2010-2022)

Name	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Bács-Kiskun	528,418	524,841	521,852	519,514	516,084	512,470	509,935	506,266	503,788	501,836	497,956	495,675	494,563
Baranya	393,758	391,455	380,904	377,565	374,805	372,465	370,021	367,848	366,033	361,766	359,529	357,066	355,315
Békés	366,556	361,802	362,662	358,267	353,448	348,577	343,771	338,809	333,967	329,742	325,590	321,661	314,380
Borsod-Abaúj-Zemplén	692,771	684,793	688,922	682,753	675,767	668,706	662,223	656,394	650,520	639,793	635,644	629,621	624,219
Csongrád-Csanád	423,240	421,827	411,764	409,422	407,148	405,857	404,050	401,062	399,746	397,756	395,106	392,621	391,207
Fejér	427	426	421	421	419,	417,	418	416	416	418	418	418	419,

ér	,41 6	,12 0	,92 7	,07 3	416	571	,36 5	,06 2	,56 7	,41 8	,63 4	,54 2	565
Gy őr- Mo son -So pro n	448 ,43 5	449 ,96 7	444 ,93 5	446 ,69 2	447 ,111	447 ,74 3	448 ,63 3	449 ,751	452 ,77 0	462 ,25 4	467 ,41 9	468 ,46 5	471, 30 9
Haj dú- Bih ar	541 ,29 8	539 ,67 4	543 ,45 2	54 0,8 81	538 ,60 7	535 ,92 9	533 ,32 4	53 0,5 31	528 ,39 7	524 ,151	523 ,64 8	521 ,80 2	52 0,6 56
Hev es	311, 454	307 ,98 5	30 9,17 5	30 6,0 31	302 ,96 3	30 0,4 85	298 ,213	295 ,82 9	294 ,47 7	291 ,82 7	29 0,3 96	288 ,43 0	287, 533
Jás z-N agy kun -Sz oln ok	39 0,7 75	386 ,75 2	39 0,0 26	386 ,35 9	382 ,89 8	378 ,98 4	375 ,24 2	372 ,45 4	369 ,99 6	365 ,25 2	362 ,08 4	358 ,88 3	356 ,38 8
Ko má ro m- Esz ter go m	312, 431	311, 411	303 ,86 4	302 ,83 9	301 ,45 0	30 0,3 31	299 ,59 1	299 ,20 4	301 ,371	303 ,34 1	302 ,138	30 0,8 69	301 ,49 2
Nó grá d	20 4,9 17	201 ,91 9	202 ,73 4	20 0,3 10	197, 533	194 ,62 7	192 ,23 2	190 ,66 9	188 ,85 1	185 ,63 5	185 ,153	183 ,31 8	182 ,03 8
Pes t	1,22 9,8 80	1,23 7,5 61	1,21 3,3 23	1,21 6,5 62	1,21 7,6 28	1,22 1,6 37	1,22 8,7 55	1,2 40, 780	1,2 54, 436	1,2 87,7 34	1,3 00, 389	1,31 5,9 64	1,32 8,7 90
So	320	317,	318	317,	314	310	307	30	301	297,	298	296	295

mo gy	,57 8	947	,77 8	703	,69 1	,93 7	,59 0	4,8 92	,79 9	492	,50 5	,42 2	,31 6
Sza bol cs- Sza tmá r-B ere g	56 0,4 29	555 ,49 6	565 ,317	562 ,22 0	558 ,50 2	558 ,31 0	556 ,14 5	551 ,79 8	545 ,79 9	541 ,28 9	537, 757	531 ,85 5	527, 968
Tol na	233 ,65 0	231, 183	231, 533	229 ,63 2	227, 36 0	224 ,99 8	222 ,43 1	220 ,52 3	217, 968	213, 839	211, 692	20 9,5 69	208 ,04 4
Vas	259 ,36 4	257, 688	256 ,21 5	254 ,58 3	253 ,121	251, 762	249 ,811	249 ,59 0	249 ,42 9	249 ,57 2	248 ,92 0	248 ,90 9	249 ,81 2
Ves zpr ém	358 ,80 7	356 ,57 3	353 ,79 8	351, 115	348 ,93 4	346 ,619	344 ,35 0	341 ,43 7	341 ,36 7	341 ,22 3	341 ,20 7	339 ,49 8	338 ,34 2
Zal a	288 ,59 1	287, 04 3	283 ,24 9	281 ,37 9	278 ,91 4	276 ,24 9	273 ,75 0	271, 348	269 ,03 7	265 ,26 0	263 ,12 0	262 ,37 0	261, 80 3
Bu dap est	1,72 1,5 56	1,73 3,6 85	1,72 7,4 95	1,73 0,3 50	1,73 3,8 37	1,73 8,5 70	1,72 8,9 29	1,72 3,0 33	1,72 2,3 63	1,71 7,14 4	1,6 90, 50 3	1,67 2,4 43	1,67 1,0 04

The reliability of this data is further supported by the KSH's methodology for population estimation, which involves decennial full-scope censuses supplemented by annual data on natural population change (births and deaths) and international migration¹¹. The census conducted in 2022, with a reference date of October 1, 2022¹¹, serves as a crucial benchmark for the population figures, particularly for the year 2022 and the preceding period. This periodic comprehensive data collection ensures a high level of accuracy in the yearly estimates, especially around census years.

III. Analysis of Year-to-Year Population Changes

This section presents an analysis of the year-to-year population changes for each county and Budapest, calculated by subtracting the population of the previous year from the current year's population. These changes, presented in Table 2, provide insights into the dynamics of population growth and decline across Hungary's administrative units from 2011 to 2022. Positive values indicate an increase in population, while negative values signify a decrease.

Table 2: Year-to-Year Population Change by County and Budapest (2011-2022)

Name	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Bács-Kiskun	-3,577	-2,989	-2,338	-3,430	-3,614	-2,535	-3,669	-2,478	-1,952	-3,880	-2,281	-1,112
Báránya	-2,303	-10,551	-3,339	-2,760	-2,340	-2,444	-2,173	-1,815	-4,267	-2,237	-2,463	-1,751
Békés	-4,754	860	-4,395	-4,819	-4,871	-4,806	-4,962	-4,842	-4,225	-4,152	-3,929	-7,281
Borsod-Abaúj-Zemplén	-7,978	4,129	-6,169	-6,986	-7,061	-6,483	-5,829	-5,874	-10,727	-4,149	-6,023	-5,402
Csongrád-Csanád	-1,413	-10,063	-2,342	-2,274	-1,291	-1,807	-2,988	-1,316	-1,990	-2,650	-2,485	-1,414
Fejér	-1,296	-4,193	-854	-1,657	-1,845	794	-2,303	505	1,851	216	-92	1,023

Győr-Ménfőcsanak	1,532	-5,032	1,757	419	632	890	1,118	3,019	9,484	5,165	1,046	2,844
Hajdú-Bihar	-1,624	3,778	-2,571	-2,274	-2,678	-2,605	-2,793	-2,134	-4,246	-503	-1,846	-1,146
Heves	-3,469	1,190	-3,144	-3,068	-2,478	-2,272	-2,384	-1,352	-2,650	-1,431	-1,966	-897
Jász-Nagykun-Szolnok	-4,023	3,274	-3,667	-3,461	-3,914	-3,742	-2,788	-2,458	-4,744	-3,168	-3,201	-2,495
Komárom-Esztergom	-1,020	-7,547	-1,025	-1,389	-1,119	-740	-387	2,167	1,970	-1,203	-1,269	623
Nógrád	-2,998	815	-2,424	-2,777	-2,906	-2,395	-1,563	-1,818	-3,216	-482	-1,835	-1,280
Pest	7,681	-24,238	3,239	1,066	4,009	7,118	12,025	13,656	33,298	12,655	15,575	12,826
Somogy	-2,631	831	-1,075	-3,012	-3,754	-3,347	-2,698	-3,093	-4,307	1,013	-2,083	-1,106

Szabolcs-Szatmár-Bereg	-4,933	9,821	-3,097	-3,718	-192	-2,165	-4,347	-5,999	-4,510	-3,532	-5,902	-3,887
Tolna	-2,467	350	-1,901	-2,272	-2,362	-2,567	-1,908	-2,555	-4,129	-2,147	-2,123	-1,525
Vas	-1,676	-1,473	-1,632	-1,462	-1,359	-1,951	-221	-161	143	-652	-11	903
Veszprém	-2,234	-2,775	-2,683	-2,181	-2,315	-2,269	-2,913	-70	-144	-16	-1,709	-1,156
Zala	-1,548	-3,794	-1,870	-2,465	-2,665	-2,499	-2,402	-2,311	-3,777	-2,140	-750	-567
Budapest	12,129	-6,190	2,855	3,487	4,733	-9,641	-5,896	-660	-5,219	-26,641	-18,060	-1,439

The data reveals that the majority of counties experienced a net decrease in population over the 2011-2022 period. Pest county stands out with consistently positive year-to-year changes, indicating a significant and sustained population growth. Győr-Moson-Sopron county also shows a generally positive trend, particularly in the later years of the observed period. In contrast, counties like Békés and Borsod-Abaúj-Zemplén experienced substantial and consistent population declines throughout most of the period. Budapest's population fluctuated, showing initial growth followed by a decline in later years, with a notable decrease in 2020 and 2021.

Examining the magnitude of change, Pest county recorded the largest absolute population increase in several years, particularly between 2018 and 2019. Conversely, Borsod-Abaúj-Zemplén and Békés counties frequently experienced the largest absolute population decreases. These variations suggest differing demographic dynamics at play across the regions of Hungary.

IV. Key Demographic Trends and Observations

Aggregating the population data for all counties and Budapest reveals an overall national trend of population decline in Hungary between 2010 and 2022. The sum of the populations in 2010 was 9,982,194, while in 2022 it stood at 9,674,792, representing a net decrease of over 300,000 people. This national context is crucial for understanding the county-level changes, as most regions experienced a downward trend in population.

However, significant regional variations exist. The consistent population growth in Pest county suggests a trend of migration towards the area surrounding the capital. Similarly, the growth in Győr-Moson-Sopron county, located in the western part of Hungary, indicates a potentially attractive region for residents. Conversely, the persistent decline in population in several counties, particularly in the eastern and southern parts of the country, points to potential challenges related to out-migration or lower rates of natural increase. While the available data does not directly classify regions, the observed trends suggest a possible divergence in demographic patterns between western and other parts of Hungary.

Several factors could have contributed to these population changes. Natural population decrease, where the number of deaths exceeds the number of births, is a likely contributor in many regions¹¹. Migration patterns, both internal (between counties) and international, also play a significant role¹¹. Economic factors, such as job opportunities and the overall economic health of a region, can influence migration decisions. Social factors, including lifestyle preferences and access to services, may also contribute to population shifts. Government policies related to family support, regional development, and migration could also have an impact on these trends. It is important to note that while this report highlights observed trends, identifying the precise causal factors requires further in-depth research.

Budapest, as the capital and the country's largest city, exhibits a unique demographic trajectory. While it experienced initial population growth in the early part of the period, the later years show a decline, particularly a significant drop in 2020 and 2021. This could be attributed to a combination of factors, including internal migration away from the capital to surrounding areas like Pest county, as well as broader national and international migration trends. The dynamics observed in Budapest likely reflect national economic conditions and migration patterns to a significant extent, given its central role in the country's economy and society.

V. Conclusion

The analysis of official population data from 2010 to 2022 reveals a general trend of population decline across Hungary at the county level, mirroring a national decrease over the same period. However, notable exceptions exist, with Pest and Győr-Moson-Sopron counties demonstrating population growth, suggesting regional disparities in demographic trends. Conversely, several counties, particularly in the eastern and southern regions, experienced consistent and significant population declines. Budapest, after an initial period of growth, also saw a decrease in its population in the later years of the study.

These demographic shifts have several potential implications for Hungary. Regions experiencing population decline may face challenges related to an aging workforce, reduced economic activity, and the sustainability of public services. Conversely, areas with population growth may encounter pressures on infrastructure, housing, and resources. The observed trends underscore the importance of understanding the underlying factors driving these changes, such as natural population decrease, internal and international migration, and socioeconomic conditions, to inform effective policymaking and regional development strategies. This report provides a foundational overview of these demographic trends, paving the way for more detailed investigations into their causes and consequences in the future.

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