Sample Design Summary: TSVS 2024

1.1 Target Population

Number of persons aged 18 and over residing in the country: 63.166.343
Source and reference date: TurkStat 2023

1.2 Population Coverage

The sampling frame covers all persons aged 18 and over residing in the country. People living in institutions and social organizations were excluded from the sampling frame.

1.3 Summary of the Multistage Cluster Sample Design

262 geographical clusters (Primary Sampling Unit [PSU]) are selected from 26 NUTS-2 geographical sub-regions of Turkey. Each cluster consists of 100 blocks. 19 addresses are selected from each cluster. The gross number of addresses received from TurkStat is 262*19=4978. The sample is divided into two parts: the main sample and the reserve sample. For the main sample, 14 main addresses are randomly selected from each PSU with 19 addresses in total (262*14=3668). In the last stage, one person aged 18 years and over is selected from each address according to the most recent birthday criterion. The remaining 5 addresses in each PSU constitute the reserve sample. The details of the reserve sample design are explained in section *1.5 Reserve Sample*.

1.4 Details of the Multistage Cluster Master Sample Design

<table>
<tr><td colspan="2"><u>**First Sampling Stage**</u></td></tr>
<tr><td>**unit:**</td><td>26 geographical sub-regions (NUTS-2 units) of Turkey</td></tr>
<tr><td>**frame**:</td><td>Household address list identified by TSI</td></tr>
<tr><td>**size**:</td><td>262</td></tr>
<tr><td>**strata**:</td><td>Explicit stratification. 26 Strata.</td></tr>
<tr><td>**allocation**:</td><td>Proportionate to the adult 18 years+ population of the 26 geographical strata (see Appendix 1).</td></tr>
<tr><td>**algorithm**:</td><td>Units selected proportionate to the number of addresses by way of a randomly selected starting point and fixed interval, after ordering within each stratum by the number of addresses.</td></tr>
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Second Sampling Stage

unit: Addresses within each selected PSU/cluster

frame: Household address list identified by TSI

size: 14

strata: Not applicable

allocation: Equal-probability selection of 14 addresses from each PSU

algorithm: Second-stage units are selected by way of simple random sampling

Remarks: The same number of addresses were selected in each sampled PSU.

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Third Sampling Stage

unit: Persons aged 18+ within each selected address

frame: Not applicable

size: 1

strata: Not applicable

allocation: Equal-probability selection of 1 person from each dwelling

algorithm: Last Birthday Technique, administered by the interviewer in the field.

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Remarks: Quota sampling is prohibited in any part of the sampling procedure. Substitution of nonresponding, non-contactable, or non-accessible sampling units (such as houses, individuals, or apartment buildings) is also not permitted. For instance, if a selected respondent in a dwelling refuses to participate and another family member volunteers to do the interview instead, this is considered a 'substitution'. This will not be permitted.

Note: Each address is visited at least twice. If the respondent receives an appointment during the second visit for the survey to be conducted later, the third visit is carried out.

1.5 Reserve Sample

The reserve sample consists of 5 addresses randomly selected from each PSU. These addresses are defined as 5 batches, each containing one address within each of the 262 PSUs that comprise the reserve sample. These batches are ordered as batch 1, batch 2, ..., batch 5. The reserve sample size is 262*5= 1310. If the participation rate in the main sample falls below 30%, the batches in the reserve sample are activated respectively.

Note: In the research conducted, there was no need to activate the reserve sample.

Appendix 1. The ratio of 26 Subregions to Total Population

Level 1 (12 regions)	Level 2 (26 subregions)	Level 3 (81 provinces)	Province population	Total population	Proportion of regions by total population (%)	According to 262 PSUs
İstanbul	İstanbul subregion	İstanbul	11.861.621	11.861.621	18,78	49
West Marmara	Tekirdağ subregion	Tekirdağ	879.907	1.534.436	2,43	6
		Edirne	346.317			
		Kırklareli	308.212			
	Balıkesir subregion	Balıkesir	1.026.579	1.491.948	2,36	6
		Çanakkale	465.369			
Aegean	İzmir subregion	İzmir	3.531.845	3.531.845	5,59	15
	Aydın subregion	Aydın	907.379	2.572.318	4,07	11
		Denizli	816.616			
		Muğla	848.323			
	Manisa subregion	Manisa	1.128.408	2.449.235	3,88	10
		Afyonkarahisar	564.536			
		Kütahya	460.259			
		Uşak	296.032			
East Marmara	Bursa subregion	Bursa	2.419.715	3.323.259	5,26	14
		Eskişehir	725.656			
		Bilecik	177.888			
	Kocaeli subregion	Kocaeli	1.546.993	3.183.626	5,04	13
		Sakarya	830.375			
		Düzce	312.142			
		Bolu	259.325			
		Yalova	234.791			
West Anatolia	Ankara subregion	Ankara	4.447.327	4.447.327	7,04	18
	Konya subregion	Konya	1.689.614	1.887.880	2,99	8
		Karaman	198.266			
Mediterranian	Antalya subregion	Antayla	2.042.872	2.619.780	4,15	11
		Isparta	353.707			
		Burdur	223.201			
	Adana subregion	Adana	1.629.682	3.055.196	4,84	13
		Mersin	1.425.514			
	Hatay subregion	Hatay	1.064.200	2.224.051	3,52	9
		Kahramanmaraş	769.732			

Region	Subregion	Province	Population	Subregion Total	Value	Rank
		Osmaniye	390.119			
Central Anatolia	Kırıkkale subregion	Kırıkkale	224.506	1.248.602	1,98	5
		Aksaray	314.619			
		Niğde	276.839			
		Nevşehir	241.018			
		Kırşehir	191.620			
	Kayseri subregion	Kayseri	1.053.958	1.877.425	2,97	8
		Sivas	499.228			
		Yozgat	324.239			
West Black Sea	Zonguldak subregion	Zonguldak	475.474	852023	1,35	4
		Karabük	207.857			
		Bartın	168.692			
	Kastamonu subregion	Kastamonu	317.372	668.009	1,06	3
		Çankırı	164.070			
		Sinop	186.567			
	Samsun subregion	Samsun	1.062.650	2.216.806	3,51	9
		Tokat	473.061			
		Çorum	413.416			
		Amasya	267.679			
East Black Sea	Trabzon subregion	Trabzon	638.643	2.157.710	3,42	9
		Ordu	607.873			
		Giresun	374.617			
		Rize	277.115			
		Artvin	140.424			
		Gümüşhane	119.038			
Northeast Anatolia	Erzurum subregion	Erzurum	534.900	792.085	1,25	3
		Erzincan	190.361			
		Bayburt	66.824			
	Ağrı subregion	Ağrı	315.854	726.583	1,15	3
		Kars	196.615			
		Iğdır	143.016			
		Ardahan	71.098			
Central East Anatolia	Malatya subregion	Malatya	553.689	1.279.042	2,02	5
		Elazığ	450.758			
		Bingöl	199.992			
		Tunceli	74.603			
	Van subregion	Van	708.743	1.379.605	2,18	6
		Muş	247.284			
		Bitlis	228.476			

		Hakkâri	195.102			
South East Anatolia	Gaziantep subregion	Gaziantep	1.384.165	1.895.209	3,00	**8**
		Adıyaman	405.940			
		Kilis	105.104			
	Şanlıurfa subregion	Şanlıurfa	1.231.406	2.378.123	3,76	**10**
		Diyarbakır	1.146.717			
	Mardin subregion	Mardin	551.012	1.512.599	2,39	**6**
		Batman	403.288			
		Şırnak	339.770			
		Siirt	218.529			
		TOTAL	63.166.343	63.166.343	100,00	**262**