

## DESCRIPTION OF SAMPLE FRAME

The tobacco consumption sample survey covered 5,000 households in 13 urban areas of the country (or 0.9% of the total of urban households).

The selection of the households following the following principles:

- In the first phase of sampling, Yerevan, Gyumri and Vanadzor cities that account for 49.3%, 8.3% and 6.8% of urban population were selected. Five thousands households were distributed in four parts (Yerevan, Gyumri, Vanadzor and the rest of 45 cities) based on the number of population (proportionate sampling).
- the selection of k number of cities from among the 45 of the II type was made the following way: since one city had to be selected from each marz, and the number of cities per marz is between 3 and 6, one city was randomly selected in each marz, and the number of households selected in each city corresponded to the distribution ratios

$$n_{4i} = \frac{M_i \times n_4}{N_4}$$

where

$M_i$  is the number of selected households in each selected city in the given universe

$N_4$  is the number of the households of cities of II type in the given universe

$n_4$  is the total number of households in type II cities of the sample frame.

Thus, besides Yerevan, Gyumri and Vanadzor cities, the following 10 cities were selected from the 10 marzes of Armenia: Ashtarak, Artashat, Vagharshapat, Gavar, Stepanavan, Hrazdan, Artik, Kapan, Vayk, Ijevan.

The selection of households in each city was made the following way: the universe data base contained information on addresses and sizes of the households. First, each city was divided into Lij parts, i.e. sections, and each section was divided into Lijk streets. Then, within each region, a ti section was randomly selected, then a street, and finally in every selected street an equal number of households was selected by random sampling.

The distribution of the selected 5,000 households by regions and number of members is presented in Table 1.

**Table 1.** Distribution of sample frame households by number of members

	Total households	Distribution of households by size, total number, persons						
		1	2	3	4	5	6	7 and more
<b>YEREVAN</b>	<b>2400</b>	<b>188</b>	<b>132</b>	<b>336</b>	<b>389</b>	<b>363</b>	<b>342</b>	<b>650</b>
<b>% of universe</b>	<b>0.9</b>	<b>0.5</b>	<b>0.4</b>	<b>0.9</b>	<b>0.7</b>	<b>0.9</b>	<b>1.4</b>	<b>2.2</b>

<b><i>GYUMRI</i></b>	<b><i>460</i></b>	<b><i>44</i></b>	<b><i>35</i></b>	<b><i>73</i></b>	<b><i>87</i></b>	<b><i>82</i></b>	<b><i>55</i></b>	<b><i>84</i></b>
<b>% of universe</b>	<b><i>0.8</i></b>	<b><i>0.6</i></b>	<b><i>0.4</i></b>	<b><i>0.8</i></b>	<b><i>0.6</i></b>	<b><i>0.9</i></b>	<b><i>1.4</i></b>	<b><i>2.5</i></b>
<b><i>VANADAOR</i></b>	<b><i>270</i></b>	<b><i>24</i></b>	<b><i>22</i></b>	<b><i>47</i></b>	<b><i>61</i></b>	<b><i>48</i></b>	<b><i>40</i></b>	<b><i>28</i></b>
<b>% of universe</b>	<b><i>0.9</i></b>	<b><i>0.5</i></b>	<b><i>0.6</i></b>	<b><i>1.1</i></b>	<b><i>0.8</i></b>	<b><i>0.9</i></b>	<b><i>1.4</i></b>	<b><i>1.2</i></b>
<b><i>OTHER CITIES</i></b>	<b><i>1870</i></b>	<b><i>151</i></b>	<b><i>152</i></b>	<b><i>248</i></b>	<b><i>373</i></b>	<b><i>355</i></b>	<b><i>236</i></b>	<b><i>355</i></b>
<b>% of universe</b>	<b><i>1.0</i></b>	<b><i>0.6</i></b>	<b><i>0.7</i></b>	<b><i>1.1</i></b>	<b><i>0.9</i></b>	<b><i>0.9</i></b>	<b><i>1.2</i></b>	<b><i>1.8</i></b>
<b><i>TOTAL</i></b>	<b><i>5000</i></b>	<b><i>407</i></b>	<b><i>341</i></b>	<b><i>704</i></b>	<b><i>910</i></b>	<b><i>848</i></b>	<b><i>673</i></b>	<b><i>1117</i></b>
<b>% of universe</b>	<b><i>0.9</i></b>	<b><i>0.6</i></b>	<b><i>0.5</i></b>	<b><i>1.0</i></b>	<b><i>0.7</i></b>	<b><i>0.9</i></b>	<b><i>1.3</i></b>	<b><i>2.0</i></b>

The survey covered 4,649 households, or 93% of the sample frame. The households that did not participate may be distributed, according to the reasons, into the following groups:

- the address contained in the universe did not exist (6.6% or 0.5% of the total (23 households))
  - there was no house at the address - 12% or 0.8% of the sample frame (42 households)
  - empty house - 44.4% or 3.1% of the sample frame (156 households)
  - refused from participating in the survey - 15.9% or 1.1% of the sample frame (56 households)
- other reasons - 21.1% or 1.5% of the sample frame (74 households).

