



The WORLD VALUES SURVEY ASSOCIATION

[www.worldvaluessurvey.org](http://www.worldvaluessurvey.org)

### **World Values Survey Wave 7 in Kazakhstan: Sample Design.**

To calculate the representative sample, the Institute uses the data provided by the Statistics Committee of the Ministry of National Economy of the Republic of Kazakhstan.

The main general population will consist of all non-institutionalized adults aged 18 and over who reside in the country (whose usual place of residence is in Kazakhstan) at the time of data collection. People who do not possess citizenship will be excluded from the sample.

The general population will not include adults from institutional collective housing units (or groups of premises), such as prisons, hospitals and nursing homes, as well as adults residing in military barracks and bases. However, the military, who remain in military barracks and military bases only during daylight hours, are included in the general population. Adults from other non-institutional collective housing units (or groups of premises), such as working-class blocks or social rehabilitation centers, are also included in the general population.

Adults who are unable to participate in the study due to hearing problem, blindness / visual impairment or disability are considered within the framework of the sample. However, they will be removed from the calculation of the response percentage, since according to the disposition codes they will be removed from the general sample.

The sample design will be calculated by a multistage sample. Kazakhstan consists of 14 oblasts and two cities of republican status – Astana city (capital) and Almaty city. The oblasts are incorporated in 5 regions (North Kazakhstan, Central Kazakhstan, West Kazakhstan, South Kazakhstan, East Kazakhstan) of the country + Astana and Almaty. Each oblast consists of districts. Totally, there are 177 districts in Kazakhstan. At last, each district incorporates a number of cities, small town and villages.

The population of Kazakhstan was estimated to be more than **16 009 597** people, among them the urban part was 8 662 432 (54%) and the rural one was 7 347 165 (46%).

Districts incorporate villages, city councils incorporate cities (one for each city council) and villages (not for all city councils). Villages, at last, are incorporated into rural districts (“selskiy okrug”).

Within each region, the sample is further stratified by five urbanization levels. As a result of cross-classification of the regions and urbanization levels, 51 strata are created. The sample was distributed across the 51 strata proportionally to the all population. Data from the 2009 population census is used as a measure of size of each stratum for purposes of allocation ([www.stat.gov.kz](http://www.stat.gov.kz))

Table A shows the population distribution by the 51 strata.

Region, Urbanization level, All Population, Population %, Proportional sample distribution, Actual sample distribution, Number of PSUs, Number of SSUs



**Table A (1200 respondents)**

| Region                     | Urbanization level       | All Population | Population % | Proportional Sample Distribution | Actual Sample Distribution | Number of PSUs | Number of SSUs |
|----------------------------|--------------------------|----------------|--------------|----------------------------------|----------------------------|----------------|----------------|
| 1. Almaty city             | 1,000,000+ (Sub Capital) | 1 365 632      | 8,53         | 102                              | 102                        | 1              | 5              |
| 2. Astana city             | 50,000-99,999 (Capital)  | 613 006        | 3,83         | 46                               | 46                         | 1              | 2              |
| 3. Kostanai oblast         | 100,000-499,999          | 324 620        | 2,03         | 24                               | 24                         | 1              |                |
| 4. Kostanai oblast         | 10,000-49,999            | 155 415        | 0,97         | 12                               | 12                         | 1              |                |
| 5. Kostanai oblast         | Less than 10,000         | 405 535        | 2,53         | 30                               | 30                         | 2              |                |
| 6. North-Kazakhstan oblast | 100,000-499,999          | 201 446        | 1,26         | 15                               | 15                         | 1              |                |
| 7. North-Kazakhstan oblast | 10,000-49,999            | 33 936         | 0,21         | 3                                | 3                          | 1              |                |
| 8. North-Kazakhstan oblast | Less than 10,000         | 361 153        | 2,26         | 27                               | 27                         | 1              |                |
| 9. Pavlodar oblast         | 100,000-499,999          | 442 301        | 2,76         | 33                               | 33                         | 1              | 2              |
| 10. Pavlodar oblast        | 10,000-49,999            | 41 677         | 0,26         | 3                                | 3                          | 1              |                |
| 11. Pavlodar oblast        | Less than 10,000         | 258 497        | 1,61         | 19                               | 19                         | 1              |                |
| 12. Akmola oblast          | 100,000-499,999          | 135 106        | 0,84         | 10                               | 10                         | 1              |                |
| 13. Akmola oblast          | 10,000-49,999            | 176 285        | 1,1          | 13                               | 13                         | 1              |                |
| 14. Akmola oblast          | Less than 10,000         | 426 104        | 2,66         | 32                               | 32                         | 2              |                |
| 15. Karaganda oblast       | 100,000-499,999          | 629 368        | 3,93         | 47                               | 47                         | 1              | 2              |
| 16. Karaganda oblast       | 50,000-99,999            | 215 165        | 1,34         | 16                               | 16                         | 1              |                |
| 17. Karaganda oblast       | 10,000-49,999            | 141 376        | 0,88         | 11                               | 11                         | 1              |                |
| 18. Karaganda oblast       | Less than 10,000         | 355 791        | 2,22         | 27                               | 27                         | 1              |                |
| 19. East-Kazakhstan oblast | 100,000-499,999          | 602 984        | 3,77         | 45                               | 45                         | 1              | 2              |
| 20. East-Kazakhstan oblast | 50,000-99,999            | 50 500         | 0,32         | 4                                | 4                          | 2              |                |
| 21. East-Kazakhstan oblast | 10,000-49,999            | 170 405        | 1,06         | 13                               | 13                         | 1              |                |
| 22. East-Kazakhstan oblast | Less than 10,000         | 572 704        | 3,58         | 43                               | 43                         | 2              |                |
| 23. Almaty oblast          | 100,000-499,999          | 123 038        | 0,77         | 9                                | 9                          | 1              |                |
| 24. Almaty oblast          | 50,000-99,999            | 58 418         | 0,36         | 4                                | 4                          | 1              |                |
| 25. Almaty oblast          | 10,000-49,999            | 598 107        | 3,74         | 45                               | 45                         | 2              |                |
| 26. Almaty oblast          | Less than 10,000         | 1 028 331      | 6,42         | 77                               | 77                         | 3              |                |
| 27. Zhambyl oblast         | 100,000-499,999          | 320 634        | 2            | 24                               | 24                         | 1              |                |
| 28. Zhambyl oblast         | 10,000-49,999            | 235 121        | 1,47         | 18                               | 18                         | 1              |                |



The WORLD VALUES SURVEY ASSOCIATION

[www.worldvaluessurvey.org](http://www.worldvaluessurvey.org)

|                             |                  |                 |             |             |             |                   |   |
|-----------------------------|------------------|-----------------|-------------|-------------|-------------|-------------------|---|
| 29. Zhambyl oblast          | Less than 10,000 | 466 374         | 2,91        | 35          | 35          | 2                 |   |
| 30. Kzyl-Orda oblast        | 100,000-499,999  | 188 682         | 1,18        | 14          | 14          | 1                 |   |
| 31. Kzyl-Orda oblast        | 10,000-49,999    | 207 893         | 1,3         | 16          | 16          | 1                 |   |
| 32. Kzyl-Orda oblast        | Less than 10,000 | 282 219         | 1,76        | 21          | 21          | 1                 |   |
| 33. South-Kazakhstan oblast | 500,000-999,999  | 603 499         | 3,77        | 45          | 45          | 1                 | 2 |
| 34. South-Kazakhstan oblast | 100,000-499,999  | 142 899         | 0,89        | 11          | 11          | 1                 |   |
| 35. South-Kazakhstan oblast | 50,000-99,999    | 57 121          | 0,36        | 4           | 4           | 1                 |   |
| 36. South-Kazakhstan oblast | 10,000-49,999    | 489 172         | 3,06        | 37          | 37          | 1                 | 2 |
| 37. South-Kazakhstan oblast | Less than 10,000 | 1 176 666       | 7,35        | 88          | 88          | 4                 |   |
| 38. Aktubinsk oblast        | 100,000-499,999  | 345 687         | 2,16        | 26          | 26          | 1                 |   |
| 39. Aktubinsk oblast        | 10,000-49,999    | 138 041         | 0,86        | 10          | 10          | 1                 |   |
| 40. Aktubinsk oblast        | Less than 10,000 | 274 040         | 1,71        | 21          | 21          | 1                 |   |
| 41. Atyrau oblast           | 100,000-499,999  | 165 387         | 1,03        | 12          | 12          | 1                 |   |
| 42. Atyrau oblast           | 50,000-99,999    | 51 097          | 0,32        | 4           | 4           | 1                 |   |
| 43. Atyrau oblast           | 10,000-49,999    | 64 355          | 0,4         | 5           | 5           | 1                 |   |
| 44. Atyrau oblast           | Less than 10,000 | 229 538         | 1,43        | 17          | 17          | 1                 |   |
| 45. West-Kazakhstan oblast  | 100,000-499,999  | 202 161         | 1,26        | 15          | 15          | 1                 |   |
| 46. West-Kazakhstan oblast  | 50,000-99,999    | 59 938          | 0,37        | 4           | 4           | 1                 |   |
| 47. West-Kazakhstan oblast  | Less than 10,000 | 336 781         | 2,1         | 25          | 25          | 1                 |   |
| 48. Mangystau oblast        | 100,000-499,999  | 166 962         | 1,04        | 12          | 12          | 1                 |   |
| 49. Mangystau oblast        | 50,000-99,999    | 91 332          | 0,57        | 7           | 7           | 1                 |   |
| 50. Mangystau oblast        | 10,000-49,999    | 139 307         | 0,87        | 10          | 11          | 1                 |   |
| 51. Mangystau oblast        | Less than 10,000 | 87 791          | 0,55        | 7           | 8           | 1                 |   |
|                             |                  | <b>16009597</b> | <b>100%</b> | <b>1200</b> | <b>1200</b> | <b>72 PSU/SSU</b> |   |



## Selection of Primary Sampling Units (PSU)

Selection is done in two stages: in the first stage, cities/towns and villages serve as PSUs. Proportional selection of PSUs by regions and urbanization level strata. In the second stage, big cities divide on SSUs.

The list of primary sampling units (PSU) will consist of two types of PSUs:

- Villages – rural settlements which are subordinated to rural councils (“selskiyokrug”). Each of such settlement was used in sampling procedures as separate PSU;
- Urban settlements – each urban settlement was incorporated in sampling procedures as a separate PSU.

Choosing a PSU much attention is given to stratum, regardless, whether this is city or village.

We do not apply any restrictions related to preferences in selection of one or another PSU, i.e. all PSU available on our list participate in selection.

Population sizes of cities and districts from the 2009 Census will be used as a measure of size for PPS.

In sum, 94 PSUs will be selected across all strata. Nineteen out of 94 PSUs were big cities that have 100% chance of being selected and will serve as self-representing PSUs that will be treated as strata later for correct variance estimation.

**Table B (1200 respondents)**

| PSU/<br>SSU<br>code | Region                  | Settlement<br>category | size | (SU) Settlement/<br>District Name | Urban/Rural | Number of<br>interviews |
|---------------------|-------------------------|------------------------|------|-----------------------------------|-------------|-------------------------|
| 1.                  | Almaty                  | 1MM+                   |      | Almaty city-1                     | urban       | 17                      |
| 2.                  | Almaty                  | 1MM+                   |      | Almaty city-2                     | urban       | 17                      |
| 3.                  | Almaty                  | 1MM+                   |      | Almaty city-3                     | urban       | 17                      |
| 4.                  | Almaty                  | 1MM+                   |      | Almaty city-4                     | urban       | 17                      |
| 5.                  | Almaty                  | 1MM+                   |      | Almaty city-5                     | urban       | 17                      |
| 6.                  | Almaty                  | 1MM+                   |      | Almaty city-6                     | urban       | 17                      |
| 7.                  | Astana                  | 500K-999K              |      | Astana city-1                     | urban       | 23                      |
| 8.                  | Astana                  | 500K-999K              |      | Astana city-2                     | urban       | 23                      |
| 9.                  | Kostanai Oblast         | 100K-499K              |      | Kostanai-1                        | urban       | 24                      |
| 10.                 | Kostanai Oblast         | 10K-49K                |      |                                   | urban       | 12                      |
| 11.                 | Kostanai Oblast         | Under 10K              |      |                                   | rural       | 15                      |
| 12.                 | Kostanai Oblast         | Under 10K              |      |                                   | rural       | 15                      |
| 13.                 | North-Kazakhstan Oblast | 100K-499K              |      | Petropavlovsk-1                   | urban       | 15                      |
| 14.                 | North-Kazakhstan Oblast | 10K-49K                |      |                                   | rural       | 3                       |
| 15.                 | North-Kazakhstan Oblast | Under 10K              |      |                                   | rural       | 27                      |
| 16.                 | Pavlodar Oblast         | 100K-499K              |      | Pavlodar-1                        | urban       | 16                      |
| 17.                 | Pavlodar Oblast         | 100K-499K              |      | Pavlodar-2                        | urban       | 17                      |
| 18.                 | Pavlodar Oblast         | 10K-49K                |      |                                   | urban       | 3                       |
| 19.                 | Pavlodar Oblast         | Under 10K              |      |                                   | rural       | 19                      |
| 20.                 | Akmola Oblast           | 100K-499K              |      | Kokshetau                         | urban       | 10                      |
| 21.                 | Akmola Oblast           | 10K-49K                |      | Shchuchinsk                       | urban       | 13                      |
| 22.                 | Akmola Oblast           | Under 10K              |      |                                   | rural       | 15                      |



|     |                         |           |                    |       |    |
|-----|-------------------------|-----------|--------------------|-------|----|
| 23. | Akmola Oblast           | Under 10K |                    | rural | 16 |
| 24. | Karaganda Oblast        | 100K-499K | Karaganda-1        | urban | 23 |
| 25. | Karaganda Oblast        | 100K-499K | Karaganda-1        | urban | 24 |
| 26. | Karaganda Oblast        | 50K-99K   |                    | urban | 16 |
| 27. | Karaganda Oblast        | 10K-49K   |                    | urban | 11 |
| 28. | Karaganda Oblast        | Under 10K |                    | rural | 27 |
| 29. | East-Kazakhstan Oblast  | 100K-499K | Ust'-Kamenogorsk-1 | urban | 23 |
| 30. | East-Kazakhstan Oblast  | 100K-499K | Ust'-Kamenogorsk-2 | urban | 22 |
| 31. | East-Kazakhstan Oblast  | 50K-99K   |                    | urban | 4  |
| 32. | East-Kazakhstan Oblast  | 10K-49K   |                    | rural | 13 |
| 33. | East-Kazakhstan Oblast  | Under 10K |                    | rural | 21 |
| 34. | East-Kazakhstan Oblast  | Under 10K |                    | rural | 22 |
| 35. | Almaty Oblast           | 100K-499K | Taldykurgan        | urban | 9  |
| 36. | Almaty Oblast           | 50K-99K   |                    | urban | 4  |
| 37. | Almaty Oblast           | 10K-49K   |                    | urban | 23 |
| 38. | Almaty Oblast           | 10K-49K   |                    | urban | 22 |
| 39. | Almaty Oblast           | Under 10K |                    | rural | 25 |
| 40. | Almaty Oblast           | Under 10K |                    | rural | 26 |
| 41. | Almaty Oblast           | Under 10K |                    | rural | 26 |
| 42. | Zhambyl Oblast          | 100K-499K | Taraz-1            | urban | 24 |
| 43. | Zhambyl Oblast          | 10K-49K   |                    | urban | 18 |
| 44. | Zhambyl Oblast          | Under 10K |                    | rural | 17 |
| 45. | Zhambyl Oblast          | Under 10K |                    | rural | 18 |
| 46. | Kzylorda Oblast         | 100K-499K | Kzylorda-1         | urban | 14 |
| 47. | Kzylorda Oblast         | 10K-49K   |                    | urban | 16 |
| 48. | Kzylorda Oblast         | Under 10K |                    | rural | 21 |
| 49. | South-Kazakhstan Oblast | 500K-999K | Shimkent-1         | urban | 23 |
| 50. | South-Kazakhstan Oblast | 500K-999K | Shimkent-2         | urban | 22 |
| 51. | South-Kazakhstan Oblast | 100K-499K |                    | urban | 11 |
| 52. | South-Kazakhstan Oblast | 50K-99K   |                    | urban | 4  |
| 53. | South-Kazakhstan Oblast | 10K-49K   |                    | urban | 17 |
| 54. | South-Kazakhstan Oblast | 10K-49K   |                    | urban | 18 |
| 55. | South-Kazakhstan Oblast | Under 10K |                    | rural | 22 |
| 56. | South-Kazakhstan Oblast | Under 10K |                    | rural | 22 |
| 57. | South-Kazakhstan Oblast | Under 10K |                    | rural | 22 |
| 58. | South-Kazakhstan Oblast | Under 10K |                    | rural | 22 |
| 59. | Aktubinsk Oblast        | 100K-499K | Aktubinsk-1        | urban | 26 |
| 60. | Aktubinsk Oblast        | 10K-49K   |                    | urban | 10 |
| 61. | Aktubinsk Oblast        | Under 10K |                    | rural | 21 |
| 62. | Atyrau Oblast           | 100K-499K | Atyrau-1           | urban | 12 |
| 63. | Atyrau Oblast           | 50K-99K   |                    | urban | 4  |
| 64. | Atyrau Oblast           | 10K-49K   |                    | rural | 5  |
| 65. | Atyrau Oblast           | Under 10K |                    | rural | 17 |
| 66. | West-Kazakhstan Oblast  | 100K-499K | Ural'sk-1          | urban | 15 |
| 67. | West-Kazakhstan Oblast  | 50K-99K   |                    | rural | 4  |
| 68. | West-Kazakhstan Oblast  | Under 10K |                    | rural | 25 |
| 69. | Mangystau Oblast        | 100K-499K | Aktau-1            | urban | 12 |
| 70. | Mangystau Oblast        | 50K-99K   |                    | urban | 7  |
| 71. | Mangystau Oblast        | 10K-49K   |                    | rural | 11 |
| 72. | Mangystau Oblast        | Under 10K |                    | rural | 8  |



### **Selection of Secondary Sampling Units (SSU)**

- Because there is no unified frame of smaller territorial units within the cities, the following are used as Secondary Sampling Units (SSUs)/Sampling Points:
- Parts of large urban settlements – each urban settlement (cities) will be divided into parts (units). Each of the parts will participate in sampling procedures as a separate SSU. SSUs divide on the map by the supervisor.
- Some number of PSUs will not be divided into SSU because of these locations are small enough. Each city and village, which will be selected to the survey, is presented as a separate PSU. There is no special division of SSUs on the map, but the Supervisor will divide research locations into SSUs based on the parts of the city.
- Thus, dividing cities into small parts (SSU) in total we have 17 SSUs will be selected for the survey.

It should be noted that in total, 72 units consisting of PSUs together with SSUs will be selected, based on random sampling.

The number of SSUs to be selected within each stratum are determined by dividing the number of interviews allocated for a given stratum by 1200, which will result in an average of 17 interviews per SSU.