# Parity-Progression Fertility Tables for the Nationalities of the USSR 

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# Working Paper 

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## FOREWORD

The USSR is a whole world in itself, with an unexampled richness of geography, culture, language and people. This shows itself in the demography, especially in respect of fertility. The range there is wide, though there are other instances with equal range-in Canada in the 1930s from bare replacement in English-speaking Ontario to an average of 8 children ever born in French-speaking Quebec.

Such ranges are of course transitional; what they mean is that a process inevitable for all has come earlier to one group than to another. The process has gone to its natural culmination in Canada; in the USSR it is still proceeding.

This working paper recognizes the 17 largest nationalities, that divide in a seemingly bimodal fashion into two groups, one with a mean number of births ranging from 1.8 to 2.6, the other mostly around 6.

The method used is in principle the best, being based on a partial life history of individual women, with full details of their childbearing experience. The data was gathered in a 1985 survey, in which women were asked to recollect back to 1970-75. It does not entirely escape from the difficulty with any retrospective survey relying on the respondent's memory in that the quality of reporting differs systematically between the more sophisticated populations, that have lower birth rates and the less sophisticated, whose birth rates are in the high loop of the bimodal distribution. When errors are uncorrelated with the subject of survey they do little harm, but that is unlikely to be true on birth recollections.

Nonetheless these are positively the best data to be had for now, and they should be greeted warmly by students of the Soviet society. For through their bearing on demographic variables they also bear on the evolution of the USSR in its present dramatic transformation.

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#### Abstract

Using data from a socio-demographic survey conducted in 1985 in the USSR, fertility parity-progression tables were constructed for the 17 most populated Soviet nationalities. These tables give the probability of a woman who gave birth to a child between 1970 and 1974 to have her next child by the time of the survey. Using World Fertility Survey data, the model of natural fertility by parity was built and two subgroups of women were identified: those who control family size and those who do not. Nationalities differ considerably by the proportion of women who control childbearing (from $17 \%$ for the Tajiks to $99 \%$ for the Jews), and by TFR for those who control family size (from 4.2 for the Tajiks to 1.5 for the Jews).


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# PARITY-PROGRESSION FERTILITY TABLES FOR THE NATIONALITIES OF THE USSR 

Leonid Darsky ${ }^{1}$ and Sergei Scherbov ${ }^{2}$

## INTRODUCTION

When a married female recognizes her right and responsibility to define the number of children in her family and the time of their births, and at the same time tries to fulfil these intentions in practice, the number of children already born becomes the dominant factor when analyzing fertility processes. Many demographic factors are taken into account when a woman decides to bear another child. The age of the marital partners may become a limiting factor. Both husband and wife may think that it is too late to have another child, because at the time of their retirement that child could still be dependent on them. This argument is now very important in the USSR, because it is common to provide support (also financial) until the child finishes his education and even later, especially in the families of white-collar workers and intellectuals.

Another factor taken into account is the age of the youngest child. This is important both from an educational point of view, and from the possibility of women not working outside of the home. In the USSR, one receives benefits from the government for two children. When planning the family, a woman considers the optimal age interval of her children. And certainly simply having a small child in the family gives unmeasurable psychological satisfaction to its parents.

But in the end, the major influencing factor on a woman deciding to have another child is the number of children already born. ${ }^{3}$ This priority is also mentioned by W. Lutz in the introduction to his study based on World Fertility Survey (WFS) data, where he analyzed fertility by parity for 41 developing and 14 developed countries (Lutz 1989). Unfortunately he did not have data for the Soviet Union so this large and very heterogeneous country was absent from the study. But we hope that by analyzing the data available, we can partly fill the gap and perform a separate interest.

In the Soviet Union the analysis of fertility by parity is very important. The majority of the subgroups in the population have already made the transition towards a modern type of reproduction behavior (controlled fertility); the other groups are gradually moving towards this goal. Especially distinct differences could be found between the different nationalities

[^0]located at various stages of demographic transition. Nationality has now become the most important indication of differential fertility.

## METHOD AND DATA

In the socio-demographic survey of 1985 which covered $5 \%$ of the total population, among others were the questions about reproduction biography. Women were asked about the year of their marriage, total number of children, and birthdate of each child (month and year). From this survey we could determine the distribution of married women by parity and the intervals between births. Our study was based on the information about one cohort of married women that gave birth to children between 1970-1974. For each married woman who bore a child of a given parity in 1970-1974 and remained married by the time of the survey (1 January 1985), we obtained information about the date of the next births. Data for the whole of the USSR are given in Table 1. The same data were available for most of the nationalities with populations exceeding 1 million (Appendix A).

Table 1 Fertility in the cohort of married women, who bore the previous child in 1970-74. All nationalities.

| Parity | Number of <br> women of <br> parity <br> $\mathrm{N}(\mathrm{n})$ | Parity <br> progression <br> ratio *1000 <br> $\mathrm{a}(\mathrm{n})$ | Mean <br> interval <br> between birth <br> $\mathrm{t}(\mathrm{n})$ | Standard <br> deviation |
| ---: | ---: | ---: | ---: | :---: |
| 0 | 366843 | 952 | 1.39 | 1.468 |
| 1 | 302166 | 741 | 4.49 | 2.872 |
| 2 | 238974 | 349 | 3.81 | 2.786 |
| 3 | 92404 | 476 | 3.14 | 2.143 |
| 4 | 50643 | 639 | 3.00 | 1.856 |
| 5 | 36518 | 630 | 2.87 | 1.717 |
| 6 | 24759 | 673 | 2.75 | 1.568 |
| 7 | 16976 | 667 | 2.68 | 1.457 |
| 8 | 10580 | 637 | 2.61 | 1.452 |
| 9 | 5939 | 599 | 2.60 | 1.507 |

In most cases the number of observations for parities higher than 6 were insufficient for comprehensive study, and thus the indicators for these parities were not estimated. But the data for the first 6 parities were certainly reliable for all selected nationalities with high
fertility (Uzbeks, Kazakhs, Azerbaijanis, Kirghiz, Tajiks, Armenians, Turkmen). For the nationalities with low fertility, the indicators for parities 5 and 6 were unstable and the number of observations insufficient. Thus a summary group of nationalities with low fertility was created, where the stability of indicators for parities 5 and 6 was definite and the information on parity progression ratios of parities 5 and 6 from this group was used for building fertility tables for each nationality with low fertility (Russians, Ukrainians, Byelorussians, Georgians, Lithuanians, Moldavians, Latvians, Estonians, Tatars and Jews). Using data from the combined group of parities 5 and 6 did not influence the final results for the individual nationality, because the number of births of these parities was very small (relatively) for women of reported nationalities and fertility indicators for these parities were similar. At the next stage the parity-progression ratios for parities 5 and 6 for each table were smoothed.

For parities 7 and higher we rejected the idea of estimating the parity-progression ratios for each nationality or combined group. We assumed the hypothesis that a female who has seven and more births does not at all restrict the number of children and does not use any means of contraception. We assumed that the probability of births of parities 7 and higher does not depend on parity-specific fertility regulation, which means that the intention of women to have another child is independent of her previous childbearing history. We had no evidence to consider differences in natural fertility of different nationalities. After the increase of fertility in the 1950s and 1960s the nationalities of Middle Asia achieved a very high level of reproduction. This was partly due to an improved health status of females. In the 1970s and 1980s there was a relatively high mortality level in the USSR, and there existed a differentiation of mortality level by nationality. But this phenomena least affected the female population in the reproductive ages. Thus we assumed that the fertility level of those groups of the USSR population who do not control family size corresponds or is at least very close to some standard that is inherent in populations with a very high fertility level.

Taking this into consideration we created the standard of natural fertility in the following way. From the large number of cohorts who finished their reproduction behavior and were studied in the framework of the WFS, we took only those whose Total Fertility Rate (TFR) exceeded 7.5. We averaged the data and built one single distribution of married females according to the number of children ever born. The cumulate of this distribution was approximated by the Gomperz-Makeham curve. This curve was taken as a standard of uncontrolled fertility. This standard does not pretend to reflect the maximum fertility level and some populations could easily have higher fertility. But in the framework of our study, the chosen level of natural fertility is quite suitable.

Using this curve we built a basic fertility table (Table 2). The relations between the indicators in the table are very simple:

$$
a_{n}=\frac{1_{n+1}}{I_{n}} ; \quad W_{n}=1_{n}-1_{n+1} ; \quad F_{n}=\frac{\sum_{k=n+1}^{\infty} 1_{k}}{I_{n}}-n
$$

Since L. Henry (1953) suggested this method for measuring fertility, the technic of building fertility tables by parity was well elaborated (Lutz 1989).

Table 2 Parity-progression table, taken as a standard of natural fertility.

| Parity <br> n | Parity progression ratio *1000 $\mathrm{a}(\mathrm{n})$ | Number of women reaching parity <br> 1(n) | Women remaining at parity (n) $W(n)$ | TFR for parity (n) and above $F(n)$ |
| :---: | :---: | :---: | :---: | :---: |
| $0{ }^{*}$ | 971 | $1000^{\circ}$ | 29 | 7.5 |
| 1 | 973 | 971 | 27 | 6.7 |
| 2 | 962 | 945 | 36 | 5.9 |
| 3 | 947 | 909 | 48 | 5.1 |
| 4 | 936 | 861 | 55 | 4.4 |
| 5 | 910 | 805 | 72 | 3.7 |
| 6 | 867 | 733 | 98 | 3.1 |
| 7 | 837 | 635 | 104 | 2.6 |
| 8 | 781 | 531 | 117 | 2.1 |
| 9 | 714 | 415 | 119 | 1.7 |
| 10 | 661 | 296 | 100 | 1.4 |
| 11 | 604 | 196 | 77 | 1.0 |
| 12 | 502 | 118 | 59 | 0.7 |
| 13 | 454 | 59 | 32 | 0.5 |
| 14 | 398 | 27 | 27 | 0.0 |

Women entering first marriage.

Taking into account our hypothesis that births of parities 7 and higher correspond to natural fertility, we accepted for all nationalities indicators from the standard starting from parity 7. We built a parity-progression table for the total population, 17 selected nationalities and two groups of nationalities - with high and low fertility (see Appendix Table B). Strictly speaking, tables that were constructed in the way described above are not cohort tables, because their indicators are not related to a particular marital cohort. These tables were generated using data related to different cohorts who bore children of different parities but at the same time (1970-74). But again, strictly speaking, that was not a synthetic cohort because in respect to each parity, only specific cohorts were observed in time. We believe that this approach is the most fruitful, because the analyzed process is not as distant in time from the beginning of observation, as in pure cohort analysis. At the same time some fictitiousness of a synthetic cohort is reduced to a minimum.

Using such an approach, it was possible to subdivide the table population into two subpopulations: those who control family size and those who follow the pattern of natural fertility. If we consider that all those who bore the 7th child come from a subpopulation that does not restrict family size, and all those who control the family size already realized their procreative intentions, then the share of population that controls fertility could be estimated by dividing the number of those who gave birth to 7 or more children $l_{7}$ by the related value in the standard population: $1_{7}^{\text {and }}=635$.

For example, if in a parity-progression table 353 Kazakh women out of 1000 gave birth to 7 and more children, then we can assume that 556 women out of 1000 never controlled their fertility and all indicators for this group correspond to the standard; but 444 did control family size and their indicators are absolutely different; the total indicators for Kazakhs are weighted characteristics of the two subgroups.

Such calculations were performed for all nationalities and similar fertility tables were produced (see Appendix B). Figure 1 gives a graphic representation of an $l_{a}$ column for several of the selected nationalities.


Figure 1

Of course it is not necessary to interpret all births from those who control family size as planned and desired. The culture of birth regulation in most of the groups is low, but moral availability and social acceptability of abortions in most of the groups approaches the situation where undesirable children are not born.

## RESULTS

Figure 2 gives the estimates of the proportion of women who control family size for all selected nationalities. The nationalities are ordered by the total fertility rate $F_{0}$ in descending order. As expected, the smallest share of women who control family size was obtained for the Tajiks ( $16.7 \%$ ), slightly higher for the Kirghiz ( $25.7 \%$ ) and the Turkmen ( $27.3 \%$ ). The Kazakhs and Azerbaijanis are in the middle $-44.4 \%$ and $71.9 \%$ respectively. All other nationalities almost completely switched to a controlled type of reproduction, and the proportion of those who do not control family size is negligible from $3.6 \%$ for Moldavians to $0.2 \%$ for the Jews.


Figure 2

All of those who do not restrict the number of births have the same fertility level (according to our standard) with the mean number of children born by them at 7.5. But among those who control family size, the average number of children differs. In Table 3 we tried to present two indicators: the proportion of women who restricted the number of births and their TFR. Comparison of these indicators for different population groups demonstrates that they play a different role in the development of the fertility level.

The low fertility group consists of nationalities whose reproduction in most cases falls below replacement level. Among these, usually not more than $1 \%$ of the females follow the pattern of natural fertility, and they do not play an important role in the generation of total fertility level for these nationalities. Therefore the average number of children born in the whole group does not differ much from those who control family size. (This is not true only for Moldavians). In the group of nationalities with high fertility, that is true only for Armenians, who traditionally were included into this group of high fertility. Together with the Moldavians in the 1970s-1980s, they occupied the intermediate position according to fertility level. But according to our estimate of the proportion of females who control family size, they have already moved to another group. Others nationalities are in a transition towards low fertility level.

It is also possible to distinguish between children born by those who control and those who do not control family size. An example of this distinction is given in Figure 3 for the groups with the most typical fertility behavior.

The results presented allow us to conclude that acceptance of the two-child family model delays from the practice of family size control. The distribution of females who restrict the number of births in this group of nationalities does not have a distinct mathematical mode. The number of children with which they stop the childbearing process is distributed more or less uniformly between three and five. At the same time for nationalities with low fertility, the mode for two children is explicit. Among Russians, Ukrainians, Byelorussians and Estonians, more than half of the females stop childbearing after having two children. Among these nationalities and also among Latvians, Lithuanians and Jews more than $70 \%$ of the marital couples stopped childbearing after having one or two children. The one-child family is in second place after the two-child family among these nationalities. For Georgians, Armenians, Moldavians and Tatars the mathematical mode is for two children. But in second position are the families with three children. Only among the Jews is the one-child family as popular as the family with two children.

The popularity of families with two children among nationalities with low fertility may also be confirmed by the data on the average number of children that a woman who gave birth to two children will bear in the future $F_{2}$. For low fertility nationalities this number is less than 0.5 (only for Moldavians about 0.8 ). Among the nationalities with high fertility but for subgroups who control family size, this indicator is higher than 1.5 except Armenians for whom it is only 0.8 .

Table 3 Share of women who limit family size and average number of children born to women of different nationalities.

| Nationality | Share of women controlling birth per 1000 | Mean number of births |  |
| :---: | :---: | :---: | :---: |
|  |  | All women | Birth controlling women |
| All nationalities | 946 | 2.3 | 2.0 |
| Low fertility group | 995 | 1.8 | 1.8 |
| Russians | 996 | 1.8 | 1.8 |
| Ukrainians | 994 | 1.9 | 1.9 |
| Byelorussians | 993 | 2.0 | 1.9 |
| Georgians | 988 | 2.2 | 2.2 |
| Lithuanians | 991 | 1.9 | 1.9 |
| Moldavians | 964 | 2.6 | 2.4 |
| Latvians | 992 | 1.8 | 1.7 |
| Estonians | 993 | 1.9 | 1.9 |
| Tatars | 982 | 2.2 | 2.1 |
| Jews | 998 | 1.6 | 1.5 |
| High fertility group | 439 | 5.8 | 3.6 |
| Uzbeks | 317 | 6.4 | 3.9 |
| Kazakhs | 444 | 5.6 | 3.3 |
| Azerbaijanis | 719 | 4.4 | 3.3 |
| Kirghiz | 257 | 6.5 | 3.6 |
| Tajiks | 169 | 6.9 | 4.2 |
| Armenians | 987 | 2.6 | 2.5 |
| Turkmen | 273 | 6.5 | 3.7 |
| Standard | 0 | 7.5 | - |

Tajiks


Azerbaijanis


Kazakhs


Russians


Figure 3 Share of children of each order born by different groups of women

The diversity of the demographic situation in the USSR from a fertility point of view is amazing. If we compare the fertility level of the cohorts under consideration with the corresponding data from the WFS study, one can see that according to TFR, Tajiks are at the same level as Bangladesh, Columbia, Costa-Rica (6.9). Higher TFR was obtained only for Syria, Jordan, Mexico and Morocco. At the same time the level of TFR for Russians (1.8) was below almost all given cohort data except for the Netherlands.

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## APPENDIX A

Number of births in each birth interval per 1000 births of a given parity.

| Number of births in each birth interval per 1000 births |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity 0 |  |  | Birth intervals |  |  |  |  |  |  |  |  |  |  |  |  |
| Nationality | number of women of a given parity | Parity progression ratio $a(n)$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10-14 | 15+ | mean <br> interval |
| All nationalities | 366843 | 952 | 144 | 546 | 155 | 49 | 23 | 11 | 8 | 5 | 3 | 2 | 4 | 0 | 1.39 |
| Russians | 198434 | 949 | 152 | 545 | 150 | 47 | 23 | 11 | 8 | 5 | 3 | 3 | 4 | 0 | 1.38 |
| Ukrainians | 59248 | 950 | 145 | 559 | 151 | 46 | 21 | 10 | 7 | 5 | 4 | 3 | 4 | 0 | 1.37 |
| Byelorussians | 13737 | 949 | 140 | 565 | 161 | 49 | 21 | 9 | 6 | 4 | 2 | 2 | 3 | 0 | 1.34 |
| Uzbeks | 16559 | 968 | 103 | 532 | 184 | 63 | 27 | 13 | 9 | 5 | 3 | 2 | 2 | 0 | 1.50 |
| Kazakhs | 7976 | 979 | 161 | 527 | 148 | 48 | 23 | 11 | 7 | 4 | 2 | 1 | 4 | 0 | 1.33 |
| Georgians | 4915 | 953 | 82 | 593 | 190 | 52 | 23 | 12 | 9 | 7 | 5 | 4 | 6 | 0 | 1.54 |
| Azerbaijanis | 6146 | 950 | 77 | 535 | 204 | 61 | 27 | 15 | 9 | 5 | 2 | 1 | 4 | 0 | 1.58 |
| Lithuanians | 3699 | 931 | 155 | 472 | 167 | 62 | 39 | 23 | 13 | 3 | 0 | 0 | 5 | 0 | 1.53 |
| Moldavians | 5010 | 952 | 103 | 589 | 171 | 58 | 22 | 8 | 6 | 5 | 4 | 3 | 5 | 0 | 1.45 |
| Latvians | 1713 | 898 | 211 | 409 | 148 | 59 | 31 | 18 | 13 | 8 | 5 | 4 | 5 | 0 | 1.49 |
| Kirghiz | 2244 | 975 | 122 | 531 | 183 | 62 | 27 | 13 | 8 | 4 | 2 | 0 | 3 | 0 | 1.45 |
| Tajiks | 3428 | 973 | 74 | 568 | 191 | 73 | 32 | 15 | 9 | 5 | 2 | 1 | 4 | 0 | 1.58 |
| Armenians | 5762 | 960 | 91 | 591 | 197 | 53 | 19 | 8 | 6 | 4 | 3 | 3 | 4 | 0 | 1.45 |
| Turkmen | 2629 | 972 | 172 | 387 | 202 | 73 | 37 | 23 | 14 | 7 | 2 | 0 | 3 | 0 | 1.60 |
| Estonians | 1139 | 942 | 224 | 410 | 128 | 52 | 36 | 22 | 13 | 7 | 2 | 0 | 5 | 0 | 1.44 |
| Tatars | 8292 | 952 | 147 | 576 | 140 | 42 | 18 | 7 | 6 | 5 | 4 | 4 | 4 | 0 | 1.32 |
| Jews | 1895 | 936 | 104. | 517 | 191 | 69 | 42 | 25 | 15 | 7 | 0 | 0 | 7 | 0 | 1.67 |
| Low ferility group | 322099 | 950 | 149 | 548 | 151 | 47 | 23 | 11 | 8 | 5 | 3 | 2 | 4 | 0 | 1.38 |
| High fertility group | 44744 | 967 | 111 | 533 | 184 | 60 | 26 | 13 | 9 | 5 | 2 | 2 | 3 | 0 | 1.48 |


| Number of births in each birth interval per 1000 births |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity 1 |  |  | Birth intervals |  |  |  |  |  |  |  |  |  |  |  |  |
| Nationality | number of women of a given parity | Parity progression ratio $\mathbf{a}(\mathrm{n})$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10-14 | $15+$ | mean <br> interval |
| All nationalities | 302166 | 741 | 15 | 167 | 165 | 147 | 131 | 109 | 82 | 64 | 44 | 33 | 44 | 0 | 4.49 |
| Russians | 165753 | 691 | 14 | 116 | 139 | 150 | 143 | 123 | 94 | 76 | 52 | 39 | 54 | 0 | 4.93 |
| Ukrainians | 57073 | 744 | 14 | 144 | 149 | 154 | 143 | 119 | 87 | 67 | 44 | 35 | 44 | 0 | 4.64 |
| Byelorussians | 12808 | 785 | 16 | 164 | 165 | 155 | 143 | 118 | 79 | 64 | 38 | 25 | 33 | 0 | 4.37 |
| Uzbeks | 14845 | 974 | 19 | 437 | 349 | 107 | 44 | 19 | 10 | 6 | 4 | 2 | 3 | 0 | 2.36 |
| Kazakhs | 7649 | 950 | 19 | 430 | 292 | 116 | 61 | 33 | 18 | 13 | 6 | 6 | 6 | 0 | 2.58 |
| Georgians | 4773 | 848 | 32 | 411 | 264 | 118 | 69 | 40 | 23 | 15 | 10 | 6 | 12 | 0 | 2.70 |
| Azerbaijanis | 5461 | 943 | 30 | 472 | 284 | 110 | 42 | 22 | 16 | 8 | 6 | 5 | 5 | 0 | 2.36 |
| Lithuanians | 3660 | 746 | 21 | 219 | 168 | 160 | 111 | 97 | 75 | 49 | 44 | 25 | 31 | 0 | 4.10 |
| Moldavians | 4654 | 848 | 16 | 196 | 188 | 169 | 144 | 90 | 74 | 44 | 36 | 18 | 25 | 0 | 4.01 |
| Latvians | 1667 | 683 | 30 | 228 | 182 | 170 | 111 | 79 | 62 | 44 | 37 | 18 | 39 | 0 | 3.94 |
| Kirghiz | 2263 | 968 | 14 | 443 | 318 | 110 | 48 | 22 | 12 | 11 | 10 | 6 | 6 | 0 | 2.50 |
| Tajiks | 3075 | 978 | 22 | 434 | 347 | 110 | 42 | 18 | 11 | 6 | 4 | 4 | 2 | 0 | 2.36 |
| Armenians | 5399 | 898 | 27 | 421 | 262 | 129 | 59 | 34 | 24 | 15 | 10 | 8 | 8 | 0 | 2.67 |
| Turkmen | 2361 | 967 | 20 | 423 | 342 | 115 | 49 | 22 | 10 | 6 | 4 | 3 | 6 | 0 | 2.43 |
| Estonians | 1139 | 752 | 20 | 281 | 213 | 161 | 116 | 69 | 43 | 26 | 22 | 17 | 32 | 0 | 3.55 |
| Tatars | 7655 | 816 | 13 | 174 | 200 | 172 | 138 | 100 | 66 | 50 | 30 | 25 | 32 | 0 | 4.14 |
| Jews | 1931 | 569 | 6 | 79 | 127 | 96 | 144 | 125 | 125 | 103 | 70 | 47 | 78 | 0 | 5.56 |
| Low fertility group | 266512 | 711 | 14 | 130 | 144 | 152 | 142 | 120 | 91 | 72 | 49 | 37 | 49 | 0 | 4.79 |
| High fertility group | 35654 | 964 | 20 | 440 | 325 | 110 | 48 | 23 | 13 | 8 | 5 | 4 | 4 | 0 | 2.24 |


| Number of births in each birth interval per 1000 births |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity 2 |  |  | Birth intervals |  |  |  |  |  |  |  |  |  |  |  |  |
| Nationality | number of women of a given parity | Parity progression ratio a(n) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10-14 | 15+ | mean interval |
| All nationalities | 238974 | 349 | 31 | 225 | 254 | 134 | 96 | 71 | 54 | 42 | 31 | 26 | 36 | 0 | 3.81 |
| Russians | 113021 | 193 | 50 | 133 | 142 | 123 | 115 | 100 | 83 | 73 | 57 | 51 | 73 | 0 | 4.89 |
| Ukrainians | 43157 | 240 | 44 | 151 | 167 | 133 | 124 | 107 | 79 | 62 | 45 | 38 | 50 | 0 | 4.50 |
| Byelorussians | 9631 | 252 | 40 | 163 | 172 | 150 | 118 | 97 | 76 | 65 | 45 | 30 | 44 | 0 | 4.35 |
| Uzbeks | 13512 | 945 | 13 | 328 | 422 | 125 | 52 | 24 | 13 | 10 | 5 | 4 | 4 | 0 | 2.58 |
| Kazakhs | 6737 | 869 | 17 | 305 | 360 | 129 | 71 | 43 | 25 | 19 | 10 | 9 | 12 | 0 | 2.93 |
| Georgians | 4264 | 410 | 33 | 235 | 221 | 141 | 109 | 77 | 55 | 45 | 30 | 21 | 33 | 0 | 3.78 |
| Azerbaijanis | 5045 | 860 | 19 | 362 | 295 | 146 | 73 | 42 | 23 | 12 | 10 | 8 | 10 | 0 | 2.82 |
| Lithuanians | 2948 | 285 | 46 | 167 | 148 | 141 | 118 | 96 | 60 | 67 | 43 | 49 | 65 | 0 | 4.58 |
| Moldavians | 3051 | 529 | 22 | 171 | 207 | 165 | 136 | 97 | 69 | 43 | 27 | 34 | 29 | 0 | 4.09 |
| Latvians | 1276 | 261 | 63 | 202 | 147 | 138 | 108 | 75 | 72 | 33 | 75 | 30 | 57 | 0 | 4.31 |
| Kirghiz | 2148 | 931 | 13 | 312 | 420 | 126 | 60 | 26 | 15 | 8 | 9 | 6 | 5 | 0 | 2.67 |
| Tajiks | 2821 | 957 | 20 | 368 | 408 | 109 | 45 | 19 | 15 | 7 | 4 | 2 | 3 | 0 | 2.45 |
| Armenians | 4736 | 587 | 21 | 222 | 237 | 172 | 120 | 83 | 54 | 36 | 21 | 14 | 20 | 0 | 3.65 |
| Turkmen | 2196 | 947 | 20 | 343 | 409 | 119 | 53 | 22 | 14 | 9 | 5 | 3 | 3 | 0 | 2.53 |
| Estonians | 979 | 276 | 30 | 170 | 178 | 137 | 126 | 93 | 59 | 74 | 74 | 15 | 44 | 0 | 4.44 |
| Tatars | 5712 | 390 | 20 | 141 | 189 | 159 | 124 | 93 | 87 | 55 | 44 | 35 | 53 | 0 | 4.56 |
| Jews | 1103 | 117 | 77 | 116 | 132 | 140 | 101 | 93 | 70 | 77 | 78 | 46 | 70 | 0 | 4.79 |
| Low fertility group | 174063 | 216 | 46 | 143 | 154 | 130 | 119 | 101 | 80 | 67 | 52 | 45 | 63 | 0 | 4.70 |
| High fertility group | 32459 | 916 | 16 | 332 | 389 | 127 | 59 | 30 | 17 | 12 | 7 | 5 | 6 | 0 | 2.67 |


| Number of births in each birth interval per 1000 births |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity 3 |  |  | Birth intervals |  |  |  |  |  |  |  |  |  |  |  |  |
| Nationality | number of women of a given parity | Parity progression ratio $\mathrm{a}(\mathrm{n})$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10-14 | $15+$ | mean interval |
| All nationalities | 92404 | 476 | 29 | 252 | 343 | 144 | 80 | 54 | 33 | 23 | 17 | 11 | 14 | 0 | 3.14 |
| Russians | 25484 | 219 | 58 | 192 | 197 | 146 | 112 | 93 | 57 | 46 | 40 | 27 | 32 | 0 | 3.94 |
| Ukrainians | 13065 | 250 | 50 | 194 | 221 | 155 | 109 | 83 | 60 | 42 | 35 | 23 | 28 | 0 | 3.83 |
| Byelorussians | 3594 | 253 | 56 | 185 | 210 | 176 | 128 | 73 | 56 | 37 | 28 | 17 | 34 | 0 | 3.76 |
| Uzbeks | 12315 | 890 | 16 | 282 | 438 | 140 | 56 | 29 | 16 | 10 | 6 | 3 | 4 | 0 | 2.67 |
| Kazakhs | 5690 | 831 | 15 | 275 | 398 | 136 | 70 | 36 | 24 | 15 | 14 | 8 | 9 | 0 | 2.91 |
| Georgians | 2030 | 253 | 60 | 228 | 213 | 148 | 94 | 105 | 47 | 51 | 27 | 6 | 18 | 0 | 3.53 |
| Azerbaijanis | 4479 | 732 | 19 | 306 | 339 | 152 | 70 | 51 | 24 | 14 | 13 | 6 | 6 | 0 | 2.88 |
| Lithuanians | 1025 | 306 | 48 | 261 | 166 | 131 | 118 | 92 | 41 | 51 | 25 | 22 | 45 | 0 | 3.82 |
| Moldavians | 1637 | 461 | 28 | 192 | 251 | 158 | 125 | 101 | 58 | 40 | 17 | 14 | 16 | 0 | 3.68 |
| Latvians | 340 | 312 | 38 | 283 | 208 | 76 | 47 | 75 | 85 | 66 | 47 | 47 | 28 | 0 | 4.02 |
| Kirghiz | 1901 | 890 | 14 | 285 | 445 | 117 | 57 | 31 | 18 | 15 | 9 | 2 | 7 | 0 | 2.74 |
| Tajiks | 2818 | 924 | 22 | 306 | 444 | 126 | 51 | 26 | 9 | 10 | 3 | 2 | 1 | 0 | 2.53 |
| Armenians | 2979 | 346 | 36 | 215 | 274 | 154 | 106 | 76 | 60 | 30 | 18 | 14 | 17 | 0 | 3.50 |
| Turkmen | 2147 | 875 | 16 | 294 | 454 | 121 | 49 | 30 | 11 | 13 | 4 | 4 | 4 | 0 | 2.62 |
| Estonians | 301 | 266 | 100 | 237 | 200 | 125 | 87 | 87 | 38 | 50 | 25 | 38 | 13 | 0 | 3.47 |
| Tatars | 2891 | 366 | 36 | 140 | 246 | 162 | 125 | 113 | 64 | 42 | 26 | 22 | 24 | 0 | 3.96 |
| Jews | 136 | 257 | 57 | 171 | 143 | 314 | 86 | 143 | 57 | 0 | 0 | 29 | 0 | 0 | 3.60 |
| Low fertility group | 45446 | 242 | 53 | 195 | 208 | 151 | 113 | 89 | 58 | 44 | 35 | 24 | 30 | 0 | 3.87 |
| High fertility group | 29350 | 857 | 17 | 287 | 420 | 136 | 60 | 33 | 18 | 12 | 8 | 4 | 5 | 0 | 2.73 |


| Number of births in each birth interval per 1000 births |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity 4 |  |  | Birth intervals |  |  |  |  |  |  |  |  |  |  |  |  |
| Nationality | number of women of a given parity | Parity progression ratio a(n) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10-14 | $15+$ | $\begin{gathered} \text { mean } \\ \text { interval } \end{gathered}$ |
| All nationalities | 50643 | 639 | 25 | 238 | 379 | 158 | 79 | 48 | 30 | 17 | 11 | 7 | 8 | 0 | 3.00 |
| Uzbeks | 10833 | 848 | 20 | 243 | 453 | 156 | 61 | 29 | 16 | 9 | 5 | 4 | 4 | 0 | 2.72 |
| Kazakhs | 4794 | 828 | 23 | 236 | 433 | 145 | 68 | 36 | 23 | 12 | 10 | 7 | 7 | 0 | 2.86 |
| Azerbaijanis | 3696 | 678 | 20 | 284 | 361 | 168 | 68 | 42 | 26 | 13 | 7 | 4 | 7 | 0 | 2.85 |
| Kirghiz | 1506 | 860 | 15 | 241 | 431 | 168 | 55 | 33 | 22 | 14 | 4 | 11 | 6 | 0 | 2.85 |
| Tajiks | 2658 | 889 | 17 | 288 | 436 | 135 | 63 | 25 | 16 | 9 | 2 | 3 | 6 | 0 | 2.65 |
| Armenians | 1505 | 325 | 51 | 188 | 235 | 184 | 121 | 74 | 61 | 39 | 21 | 10 | 10 | 0 | 3.50 |
| Turkmen | 1959 | 856 | 18 | 247 | 478 | 139 | 60 | 26 | 15 | 8 | 2 | 5 | 2 | 0 | 2.66 |
| Low ferility group | 23692 | 459 | 29 | 226 | 328 | 162 | 93 | 64 | 40 | 23 | 16 | 9 | 11 | 0 | 3.22 |
| High fertility group | 26951 | 797 | 22 | 249 | 424 | 155 | 66 | 34 | 21 | 12 | 6 | 5 | 5 | 0 | 2.80 |


| Number of births in each birth interval per 1000 births |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity 5 |  |  | Birth intervals |  |  |  |  |  |  |  |  |  |  |  |  |
| Nationality | number of women of a given parity | Parity progression ratio $\mathbf{a ( n )}$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10-14 | $15+$ | mean interval |
| All nationalities | 36518 | 630 | 26 | 232 | 415 | 159 | 75 | 37 | 22 | 13 | 9 | 5 | 7 | 0 | 2.87 |
| Uzbeks | 9240 | 792 | 23 | 225 | 462 | 161 | 66 | 29 | 13 | 9 | 4 | 3 | 5 | 0 | 2.73 |
| Kazakhs | 4162 | 784 | 15 | 231 | 455 | 151 | 68 | 29 | 21 | 12 | 7 | 4 | 7 | 0 | 2.83 |
| Azerbaijanis | 2969 | 634 | 23 | 262 | 386 | 165 | 75 | 41 | 20 | 12 | 9 | 3 | 4 | 0 | 2.81 |
| Kirghiz | 1226 | 838 | 20 | 220 | 454 | 158 | 58 | 39 | 24 | 9 | 9 | 6 | 3 | 0 | 2.82 |
| Tajiks | 2395 | 841 | 22 | 235 | 480 | 147 | 60 | 29 | 14 | 5 | 3 | 3 | 2 | 0 | 2.63 |
| Armenians | 709 | 271 | 52 | 271 | 240 | 135 | 125 | 57 | 52 | 37 | 21 | 5 | 5 | 0 | 3.22 |
| Turkmen | 1682 | 831 | 16 | 238 | 462 | 170 | 52 | 31 | 12 | 7 | 4 | 4 | 4 | 0 | 2.70 |
| Low fertility group | 14135 | 418 | 33 | 228 | 367 | 161 | 87 | 45 | 29 | 17 | 14 | 7 | 11 | 0 | 3.03 |
| High fertility group | 22383 | 764 | 22 | 234 | 445 | 158 | 67 | 32 | 17 | 10 | 6 | 3 | 5 | 0 | 2.77 |


| Number of births in each birth interval per 1000 births |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Birth intervals |  |  |  |  |  |  |  |  |  |  |  |  |
| Nationality | Parity | number of women of a given parity | Parity progression ratio $\mathbf{a}(\mathrm{n})$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10-14 | $15+$ | mean <br> interval |
| All nationalities | 6 | 24759 | 673 | 26 | 240 | 436 | 156 | 66 | 33 | 18 | 10 | 6 | 4 | 5 | 0 | 2.75 |
| All nationalities | 7 | 16976 | 667 | 29 | 254 | 429 | 155 | 66 | 32 | 17 | 7 | 5 | 3 | 3 | 0 | 2.68 |
| All nationalities | 8 | 10580 | 637 | 33 | 273 | 424 | 151 | 60 | 28 | 13 | 8 | 4 | 2 | 4 | 0 | 2.61 |
| All nationalities | 9 | 5939 | 599 | 27 | 302 | 409 | 146 | 58 | 24 | 14 | 7 | 4 | 4 | 5 | 0 | 2.60 |

## APPENDIX B

Parity-progression tables for different nationalities of the USSR.
total - relates to the indicators in the parity-progression table for the whole nationality without subdivision of those who control and those who do not control family size.
limit - relates to the indicators in the parity-progression table for those women of given nationality who control family size.
no limit - relates to the indicators in the parity-progression table for those women of given nationality who do not control family size and follow the pattern of natural fertility.

| All Nationalitie: |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | a(n) | a(n) | 1(n) | 1(n) | I(n) | $W(n)$ | $W(n)$ | $\mathbf{W}(\mathrm{n})$ | Fn | Fn |
| Parity | cotal | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 952 | 951 | 1000 | 946 | 54 | 48 | 46 | 2 | 2.3 | 2.0 |
| 1 | 741 | 727 | 952 | 899 | 53 | 247 | 245 | 1 | 1.4 | 1.1 |
| 2 | 349 | 301 | 705 | 654 | 51 | 459 | 457 | 2 | 0.9 | 0.5 |
| 3 | 476 | 358 | 246 | 197 | 49 | 129 | 126 | 3 | 1.5 | 0.6 |
| 4 | 639 | 441 | 117 | 70 | 47 | 42 | 39 | 3 | 2.1 | 0.5 |
| 5 | 630 | 234 | 75 | 31 | 44 | 28 | 24 | 4 | 2.3 | 0.2 |
| 6 | 733 |  | 47 | 7 | 40 | 13 | 7 | 5 | 2.6 | 0.0 |
| 7 | 837 |  | 35 |  | 35 | 6 |  | 6 | 2.6 |  |
| 8 | 781 |  | 29 |  | 29 | 6 |  | 6 | 2.1 |  |
| 9 | 714 |  | 23 |  | 23 | 6 |  | 6 | 1.7 |  |
| 10 | 661 |  | 16 |  | 16 | 5 |  | 5 | 1.4 |  |
| 11 | 604 |  | 11 |  | 11 | 4 |  | 4 | 1.0 |  |
| 12 | 502 |  | 6 |  | 6 | 3 |  | 3 | 0.7 |  |
| 13 | 454 |  | 3 |  | 3 | 2 |  | 2 | 0.5 |  |
| 14 | 398 |  | 1 |  | 1 | 1 |  | 1 | 0.0 |  |
| Rusaians |  |  |  |  |  |  |  |  |  |  |
|  | a(n) | a(n) | 1(n) | 1(a) | 1(a) | $\mathbf{W}(\mathrm{n})$ | $\mathbf{W}(\mathrm{n})$ | W(a) | Fn | Fn |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 949 | 949 | 1000 | 996 | 4 | 51 | 51 | 0 | 1.8 | 1.8 |
| 1 | 691 | 690 | 949 | 945 | 4 | 293 | 293 | 0 | 0.9 | 0.9 |
| 2 | 193 | 189 | 656 | 652 | 3 | 529 | 529 | 0 | 0.3 | 0.2 |
| 3 | 219 | 199 | 127 | 123 | 3 | 99 | 99 | 0 | 0.4 | 0.3 |
| 4 | 319 | 240 | 28 | 25 | 3 | 19 | 19 | 0 | 0.8 | 0.3 |
| 5 | 418 | 173 | 9 | 6 | 3 | 5 | 5 | 0 | 1.4 | 0.2 |
| 6 | 627 |  | 4 | 1 | 3 | 1 | 1 | 0 | 2.3 | 0.0 |
| 7 | 837 |  | 2 |  | 2 | 0 |  | 0 | 2.6 |  |
| 8 | 781 |  | 2 |  | 2 | 0 |  | 0 | 2.1 |  |
| 9 | 714 |  | 2 |  | 2 | 0 |  | 0 | 1.7 |  |
| 10 | 661 |  | 1 |  | 1 | 0 |  | 0 | 1.4 |  |
| 11 | 604 |  | 1 |  | 1 | 0 |  | 0 | 1.0 |  |
| 12 | 502 |  | 0 |  | 0 | 0 |  | 0 | 0.7 |  |
| 13 | 454 |  | 0 |  | 0 | 0 |  | 0 | 0.5 |  |
| 14 | 398 |  | 0 |  | 0 | 0 |  | 0 | 0.0 |  |
| Ukrainians |  |  |  |  |  |  |  |  |  |  |
|  | a(n) | a(n) | 1(n) | $1(\mathrm{n})$ | l(n) | $\mathbf{W}(\mathrm{n})$ | $\mathbf{W}(\mathrm{n})$ | $\mathbf{W}(\mathrm{n})$ | Fn | Fn |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 950 | 950 | 1000 | 994 | 6 | 50 | 50 | 0 | 1.9 | 1.9 |
| 1 | 744 | 743 | 950 | 944 | 6 | 243 | 243 | 0 | 1.0 | 1.0 |
| 2 | 240 | 234 | 707 | 701 | 6 | 537 | 537 | 0 | 0.3 | 0.3 |
| 3 | 250 | 227 | 170 | 164 | 5 | 127 | 127 | 0 | 0.4 | 0.3 |
| 4 | 334 | 253 | 42 | 37 | 5 | 28 | 28 | 0 | 0.8 | 0.3 |
| 5 | 418 | 173 | 14 | 9 | 5 | 8 | 8 | 0 | 1.4 | 0.2 |
| 6 | 627 |  | 6 | 2 | 4 | 2 | 2 | 1 | 2.3 | 0.0 |
| 7 | 837 |  | 4 |  | 4 | 1 |  | 1 | 2.6 |  |
| 8 | 781 |  | 3 |  | 3 | 1 |  | 1 | 2.1 |  |
| 9 | 714 |  | 2 |  | 2 | 1 |  | 1 | 1.7 |  |
| 10 | 661 |  | 2 |  | 2 | 1 |  | 1 | 1.4 |  |
| 11 | 604 |  | 1 |  | 1 | 0 |  | 0 | 1.0 |  |
| 12 | 502 |  | 1 |  | 1 | 0 |  | 0 | 0.7 |  |
| 13 | 454 |  | 0 |  | 0 | 0 |  | 0 | 0.5 |  |
| 14 | 398 |  | 0 |  | 0 | 0 |  | 0 | 0.0 |  |


| Byelorusians |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | a(n) | a(n) | 1(n) | I(n) | 1(n) | W(n) | W(n) | W(n) | Fn | Fn |
| Parity | Loul | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 949 | 949 | 1000 | 993 | 7 | 51 | 51 | 0 | 2.0 | 1.9 |
| 1 | 785 | 784 | 949 | 943 | 6 | 204 | 204 | 0 | 1.1 | 1.0 |
| 2 | 252 | 246 | 745 | 739 | 6 | 557 | 557 | 0 | 0.4 | 0.3 |
| 3 | 253 | 230 | 188 | 182 | 6 | 140 | 140 | 0 | 0.5 | 0.3 |
| 4 | 336 | 254 | 47 | 42 | 6 | 32 | 31 | 0 | 0.8 | 0.3 |
| 5 | 418 | 173 | 16 | 11 | 5 | 9 | 9 | 0 | 1.4 | 0.2 |
| 6 | 627 |  | 7 | 2 | 5 | 2 | 2 | 1 | 2.3 | 0.0 |
| 7 | 837 |  | 4 |  | 4 | 1 |  | 1 | 2.6 |  |
| 8 | 781 |  | 3 |  | 3 | 1 |  | 1 | 2.1 |  |
| 9 | 714 |  | 3 |  | 3 | 1 |  | 1 | 1.7 |  |
| 10 | 661 |  | 2 |  | 2 | 1 |  | 1 | 1.4 |  |
| 11 | 604 |  | 1 |  | 1 | 1 |  | 1 | 1.0 |  |
| 12 | 502 |  | 1 |  | 1 | 0 |  | 0 | 0.7 |  |
| 13 | 454 |  | 0 |  | 0 | 0 |  | 0 | 0.5 |  |
| 14 | 398 |  | 0 |  | 0 | 0 |  | 0 | 0.0 |  |
| Uzbeks a(n) |  | a(n) | I(n) | 1(n) | I(n) | W(n) | $\mathbf{W}(\mathbf{n})$ | W(n) | Fn | Fn |
| Parity | total | limit | total | limit | no limit | tocal | limit | no limit | total | limit |
| 0 | 968 | 961 | 1000 | 317 | 683 | 32 | 12 | 20 | 6.4 | 3.9 |
| 1 | 974 | 977 | 968 | 305 | 663 | 25 | 7 | 18 | 5.6 | 3.0 |
| 2 | 945 | 908 | 943 | 298 | 645 | 52 | 28 | 24 | 4.7 | 2.1 |
| 3 | 890 | 760 | 891 | 270 | 620 | 98 | 65 | 33 | 4.0 | 1.3 |
| 4 | 848 | 598 | 793 | 205 | 587 | 121 | 83 | 38 | 3.5 | 0.8 |
| 5 | 792 | 262 | 672 | 123 | 550 | 140 | 91 | 49 | 3.1 | 0.3 |
| 6 | 814 |  | 533 | 32 | 500 | 99 | 32 | 67 | 2.9 | 0.0 |
| 7 | 837 |  | 434 |  | 434 | 71 |  | 71 | 2.6 |  |
| 8 | 781 |  | 363 |  | 363 | 80 |  | 80 | 2.1 |  |
| 9 | 714 |  | 283 |  | 283 | 81 |  | 81 | 1.7 |  |
| 10 | 661 |  | 202 |  | 202 | 69 |  | 69 | 1.4 |  |
| 11 | 604 |  | 134 |  | 134 | 53 |  | 53 | 1.0 |  |
| 12 | 502 |  | 81 |  | 81 | 40 |  | 40 | 0.7 |  |
| 13 | 454 |  | 41 |  | 41 | 22 |  | 22 | 0.5 |  |
| 14 | 398 |  | 18 |  | 18 | 18 |  | 18 | 0.0 |  |
| Kazakhs a(n) |  | a(n) | I(n) | 1(n) |  | W(n) | W( n ) | W(n) | Fn | Fn |
|  |  | l(n) |  |  |  |  |  |  |  |
| Parity | total |  | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 979 | 989 | 1000 | 444 | 556 | 21 | 5 | 16 | 5.6 | 3.3 |
| 1 | 950 | 922 | 979 | 439 | 540 | 49 | 34 | 15 | 4.8 | 2.4 |
| 2 | 869 | 748 | 930 | 405 | 525 | 122 | 102 | 20 | 4.0 | 1.6 |
| 3 | 831 | 638 | 808 | 303 | 505 | 137 | 110 | 27 | 3.6 | 1.1 |
| 4 | 828 | 561 | 672 | 193 | 479 | 116 | 85 | 31 | 3.4 | 0.7 |
| 5 | 784 | 261 | 556 | 108 | 448 | 120 | 80 | 40 | 3.1 | 0.3 |
| 6 | 810 |  | 436 | 28 | 408 | 83 | 28 | 54 | 2.9 | 0.0 |
| 7 | 837 |  | 353 |  | 353 | 58 |  | 58 | 2.6 |  |
| 8 | 781 |  | 296 |  | 296 | 65 |  | 65 | 2.1 |  |
| 9 | 714 |  | 231 |  | 231 | 66 |  | 66 | 1.7 |  |
| 10 | 661 |  | 165 |  | 165 | 56 |  | 56 | 1.4 |  |
| 11 | 604 |  | 109 |  | 109 | 43 |  | 43 | 1.0 |  |
| 12 | 502 |  | 66 |  | 66 | 33 |  | 33 | 0.7 |  |
| 13 | 454 |  | 33 |  | 33 | 18 |  | 18 | 0.5 |  |
| 14 | 398 |  | 15 |  | 15 | 15 |  | 15 | 0.0 |  |


|  | Georgiana (n) | a(n) | I(n) | 1(n) | 1(n) | W(n) | $\mathbf{W}(\mathbf{n})$ | W(n) | Fn | Fn |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity | total | limit | total | limit | no limit | cotal | limit | no limit | total | limit |
| 0 | 953 | 953 | 1000 | 988 | 12 | 47 | 47 | 0 | 2.2 | 2.2 |
| 1 | 848 | 847 | 953 | 942 | 11 | 145 | 145 | 0 | 1.4 | 1.3 |
| 2 | 410 | 402 | 808 | 797 | 11 | 477 | 476 | 0 | 0.6 | 0.5 |
| 3 | 253 | 230 | 331 | 321 | 11 | 248 | 247 | 1 | 0.5 | 0.3 |
| 4 | 336 | 254 | 84 | 74 | 10 | 56 | 55 | 1 | 0.8 | 0.3 |
| 5 | 418 | 173 | 28 | 19 | 9 | 16 | 16 | 1 | 1.4 | 0.2 |
| 6 | 627 |  | 12 | 3 | 9 | 4 | 3 | 1 | 2.3 | 0.0 |
| 7 | 837 |  | 7 |  | 7 | 1 |  | 1 | 2.6 |  |
| 8 | 781 |  | 6 |  | 6 | 1 |  | 1 | 2.1 |  |
| 9 | 714 |  | 5 |  | 5 | 1 |  | 1 | 1.7 |  |
| 10 | 661 |  | 3 |  | 3 | 1 |  | 1 | 1.4 |  |
| 11 | 604 |  | 2 |  | 2 | 1 |  | 1 | 1.0 |  |
| 12 | 502 |  | 1 |  | 1 | 1 |  | 1 | 0.7 |  |
| 13 | 454 |  | 1 |  | 1 | 0 |  | 0 | 0.5 |  |
| 14 | 398 |  | 0 |  | 0 | 0 |  | 0 | 0.0 |  |


|  | ijanis a(n) | a(n) | 1(n) | 1(n) | 1(n) | W(n) | $\mathbf{W}(\mathrm{n})$ | $\mathbf{W}(\mathbf{n})$ | Fn | Fn |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity | total | limit | total | limit | no limit | cotal | limit | no limit | total | limit |
| 0 | 950 | 942 | 1000 | 719 | 281 | 50 | 42 | 8 | 4.4 | 3.3 |
| 1 | 943 | 931 | 950 | 677 | 273 | 54 | 47 | 7 | 3.7 | 2.5 |
| 2 | 860 | 817 | 896 | 631 | 265 | 125 | 115 | 10 | 2.9 | 1.6 |
| 3 | 732 | 626 | 770 | 515 | 255 | 206 | 193 | 14 | 2.4 | 1.0 |
| 4 | 678 | 485 | 564 | 322 | 241 | 182 | 166 | 16 | 2.2 | 0.6 |
| 5 | 634 | 235 | 382 | 156 | 226 | 140 | 120 | 20 | 2.3 | 0.2 |
| 6 | 735 |  | 242 | 37 | 206 | 64 | 37 | 27 | 2.6 | 0.0 |
| 7 | 837 |  | 178 |  | 178 | 29 |  | 29 | 2.6 |  |
| 8 | 781 |  | 149 |  | 149 | 33 |  | 33 | 2.1 |  |
| 9 | 714 |  | 116 |  | 116 | 33 |  | 33 | 1.7 |  |
| 10 | 661 |  | 83 |  | 83 | 28 |  | 28 | 1.4 |  |
| 11 | 604 |  | 55 |  | 55 | 22 |  | 22 | 1.0 |  |
| 12 | 502 |  | 33 |  | 33 | 17 |  | 17 | 0.7 |  |
| 13 | 454 |  | 17 |  | 17 | 9 |  | 9 | 0.5 |  |
| 14 | 398 |  | 8 |  | 8 | 8 |  | 8 | 0.0 |  |


|  | Lithuanians <br> a(n) | a(n) | 1(n) | I(n) | I(n) | W(n) | $\mathbf{W}(\mathrm{n})$ | W(n) | Fn | Fn |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 931 | 931 | 1000 | 991 | 9 | 69 | 69 | 0 | 1.9 | 1.9 |
| 1 | 746 | 744 | 931 | 922 | 9 | 236 | 236 | 0 | 1.1 | 1.0 |
| 2 | 285 | 277 | 695 | 686 | 9 | 497 | 496 | 0 | 0.4 | 0.4 |
| 3 | 306 | 278 | 198 | 190 | 8 | 137 | 137 | 0 | 0.6 | 0.4 |
| 4 | 362 | 277 | 61 | 53 | 8 | 39 | 38 | 1 | 0.9 | 0.3 |
| 5 | 418 | 173 | 22 | 15 | 7 | 13 | 12 | 1 | 1.4 | 0.2 |
| 6 | 627 |  | 9 | 3 | 7 | 3 | 3 | 1 | 2.3 | 0.0 |
| 7 | 837 |  | 6 |  | 6 | 1 |  | 1 | 2.6 |  |
| 8 | 781 |  | 5 |  | 5 | 1 |  | 1 | 2.1 |  |
| 9 | 714 |  | 4 |  | 4 | 1 |  | 1 | 1.7 |  |
| 10 | 661 |  | 3 |  | 3 | 1 |  | 1 | 1.4 |  |
| 11 | 604 |  | 2 |  | 2 | 1 |  | 1 | 1.0 |  |
| 12 | 502 |  | 1 |  | 1 | 1 |  | 1 | 0.7 |  |
| 13 | 454 |  | 1 |  | 1 | 0 |  | 0 | 0.5 |  |
| 14 | 398 |  | 0 |  | 0 | 0 |  | 0 | 0.0 |  |


|  | Moldaviana a(n) | a(n) | 1(n) | 1(n) | 1(n) | $\mathbf{W}(\mathrm{n})$ | $\mathbf{W}(\mathbf{n})$ | W(n) | Fn | Fn |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 952 | 951 | 1000 | 964 | 36 | 48 | 47 | 1 | 2.6 | 2.4 |
| 1 | 848 | 843 | 952 | 917 | 35 | 145 | 144 | 1 | 1.7 | 1.5 |
| 2 | 529 | 510 | 807 | 774 | 34 | 380 | 379 | 1 | 1.0 | 0.8 |
| 3 | 461 | 421 | 427 | 395 | 32 | 230 | 228 | 2 | 0.9 | 0.6 |
| 4 | 440 | 348 | 197 | 166 | 31 | 110 | 108 | 2 | 1.0 | 0.4 |
| 5 | 418 | 173 | 87 | 58 | 29 | 50 | 48 | 3 | 1.4 | 0.2 |
| 6 | 627 |  | 36 | 10 | 26 | 13 | 10 | 3 | 2.3 | 0.0 |
| 7 | 837 |  | 23 |  | 23 | 4 |  | 4 | 2.6 |  |
| 8 | 781 |  | 19 |  | 19 | 4 |  | 4 | 2.1 |  |
| 9 | 714 |  | 15 |  | 15 | 4 |  | 4 | 1.7 |  |
| 10 | 661 |  | 11 |  | 11 | 4 |  | 4 | 1.4 |  |
| 11 | 604 |  | 7 |  | 7 | 3 |  | 3 | 1.0 |  |
| 12 | 502 |  | 4 |  | 4 | 2 |  | 2 | 0.7 |  |
| 13 | 454 |  | 2 |  | 2 | 1 |  | 1 | 0.5 |  |
| 14 | 398 |  | 1 |  | 1 | 1 |  | 1 | 0.0 |  |
|  | Latvians |  |  |  |  |  |  |  |  |  |
|  | a(n) | a(n) | l(a) | 1(n) | 1(n) | $\mathbf{W}(\mathbf{n})$ | W(n) | W(n) | Fn | Fn |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 898 | 897 | 1000 | 992 | 8 | 102 | 102 | 0 | 1.8 | 1.7 |
| 1 | 683 | 681 | 898 | 891 | 7 | 285 | 284 | 0 | 1.0 | 0.9 |
| 2 | 261 | 253 | 613 | 606 | 7 | 453 | 453 | 0 | 0.4 | 0.3 |
| 3 | 312 | 284 | 160 | 153 | 7 | 110 | 110 | 0 | 0.6 | 0.4 |
| 4 | 365 | 280 | 50 | 43 | 6 | 32 | 31 | 0 | 0.9 | 0.3 |
| 5 | 418 | 173 | 18 | 12 | 6 | 11 | 10 | 1 | 1.4 | 0.2 |
| 6 | 627 |  | 8 | 2 | 6 | 3 | 2 | 1 | 2.3 | 0.0 |
| 7 | 837 |  | 5 |  | 5 | 1 |  | 1 | 2.6 |  |
| 8 | 781 |  | 4 |  | 4 | 1 |  | 1 | 2.1 |  |
| 9 | 714 |  | 3 |  | 3 | 1 |  | 1 | 1.7 |  |
| 10 | 661 |  | 2 |  | 2 | 1 |  | 1 | 1.4 |  |
| 11 | 604 |  | 1 |  | 1 | 1 |  | 1 | 1.0 |  |
| 12 | 502 |  | 1 |  | 1 | 0 |  | 0 | 0.7 |  |
| 13 | 454 |  | 0 |  | 0 | 0 |  | 0 | 0.5 |  |
| 14 | 398 |  | 0 |  | 0 | 0 |  | 0 | 0.0 |  |
|  | Kirghiz (n) | a(n) | l(n) | 1(n) | I(n) | W(n) | $\mathbf{W}(\mathbf{n})$ | W(a) | Fn | Fn |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 975 | 986 | 1000 | 257 | 743 | 25 | 4 | 21 | 6.5 | 3.6 |
| 1 | 968 | 955 | 975 | 254 | 721 | 31 | 11 | 20 | 5.7 | 2.7 |
| 2 | 931 | 840 | 944 | 242 | 702 | 65 | 39 | 26 | 4.9 | 1.8 |
| 3 | 890 | 702 | 879 | 204 | 675 | 97 | 61 | 36 | 4.2 | 1.2 |
| 4 | 860 | 521 | 782 | 143 | 639 | 109 | 68 | 41 | 3.7 | 0.7 |
| 5 | 838 | 256 | 673 | 74 | 598 | 109 | 55 | 54 | 3.4 | 0.3 |
| 6 | 837 |  | 564 | 19 | 545 | 92 | 19 | 73 | 3.0 | 0.0 |
| 7 | 837 |  | 472 |  | 472 | 77 |  | 77 | 2.6 |  |
| 8 | 781 |  | 395 |  | 395 | 87 |  | 87 | 2.1 |  |
| 9 | 714 |  | 308 |  | 308 | 88 |  | 88 | 1.7 |  |
| 10 | 661 |  | 220 |  | 220 | 75 |  | 75 | 1.4 |  |
| 11 | 604 |  | 145 |  | 145 | 58 |  | 58 | 1.0 |  |
| 12 | 502 |  | 88 |  | 88 | 44 |  | 44 | 0.7 |  |
| 13 | 454 |  | 44 |  | 44 | 24 |  | 24 | 0.5 |  |
| 14 | 398 |  | 20 |  | 20 | 20 |  | 20 | 0.0 |  |


|  | Tajik\& a(n) | a(n) | 1(n) | 1(n) | 1(n) | W(n) | $\mathbf{W}(\mathrm{n})$ | W(n) | Fn | Fn |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 973 | 982 | 1000 | 169 | 831 | 27 | 3 | 24 | 6.9 | 4.2 |
| 1 | 978 | 999 | 973 | 167 | 807 | 21 | 0 | 22 | 6.1 | 3.3 |
| 2 | 957 | 932 | 952 | 167 | 785 | 41 | 11 | 30 | 5.3 | 2.3 |
| 3 | 924 | 813 | 911 | 156 | 755 | 69 | 29 | 40 | 4.5 | 1.5 |
| 4 | 889 | 626 | 841 | 127 | 715 | 93 | 47 | 46 | 3.9 | 0.8 |
| 5 | 841 | 255 | 748 | 79 | 669 | 119 | 59 | 60 | 3.4 | 0.3 |
| 6 | 839 |  | 629 | 20 | 609 | 101 | 20 | 81 | 3.0 | 0.0 |
| 7 | 837 |  | 528 |  | 528 | 86 |  | 86 | 2.6 |  |
| 8 | 781 |  | 442 |  | 442 | 97 |  | 97 | 2.1 |  |
| 9 | 714 |  | 345 |  | 345 | 99 |  | 99 | 1.7 |  |
| 10 | 661 |  | 246 |  | 246 | 83 |  | 83 | 1.4 |  |
| 11 | 604 |  | 163 |  | 163 | 64 |  | 64 | 1.0 |  |
| 12 | 502 |  | 98 |  | 98 | 49 |  | 49 | 0.7 |  |
| 13 | 454 |  | 49 |  | 49 | 27 |  | 27 | 0.5 |  |
| 14 | 398 |  | 22 |  | 22 | 22 |  | 22 | 0.0 |  |
|  | Armenians |  |  |  |  |  |  |  |  |  |
|  | a(n) | a(n) | 1(n) | l(n) | l(n) | W(n) | $\mathbf{W}(\mathrm{n})$ | $\mathbf{W}(\mathrm{n})$ | Fn | Fn |
| Parity | total | limit | total | limit | no limit | total | limil | no limit | total | limit |
| 0 | 960 | 960 | 1000 | 987 | 13 | 40 | 40 | 0 | 2.6 | 2.5 |
| 1 | 898 | 897 | 960 | 947 | 13 | 98 | 98 | 0 | 1.7 | 1.6 |
| 2 | 587 | 581 | 862 | 849 | 13 | 356 | 356 | 0 | 0.9 | 0.8 |
| 3 | 346 | 331 | 506 | 494 | 12 | 331 | 330 | 1 | 0.5 | 0.4 |
| 4 | 325 | 282 | 175 | 164 | 12 | 118 | 117 | 1 | 0.6 | 0.3 |
| 5 | 271 | 121 | 57 | 46 | 11 | 41 | 41 | 1 | 0.8 | 0.1 |
| 6 | 554 |  | 15 | 6 | 10 | 7 | 6 | 1 | 2.0 | 0.0 |
| 7 | 837 |  | 9 |  | 9 | 1 |  | 1 | 2.6 |  |
| 8 | 781 |  | 7 |  | 7 | 2 |  | 2 | 2.1 |  |
| 9 | 714 |  | 6 |  | 6 | 2 |  | 2 | 1.7 |  |
| 10 | 661 |  | 4 |  | 4 | 1 |  | 1 | 1.4 |  |
| 11 | 604 |  | 3 |  | 3 | 1 |  | 1 | 1.0 |  |
| 12 | 502 |  | 2 |  | 2 | 1 |  | 1 | 0.7 |  |
| 13 | 454 |  | 1 |  | 1 | 0 |  | 0 | 0.5 |  |
| 14 | 398 |  | 0 |  | 0 | 0 |  | 0 | 0.0 |  |
|  | Turkmen a(n) | a(n) | 1(n) | 1(n) | 1(n) | W(n) | $\mathbf{W}(\mathbf{n})$ | W(n) | Fn | Fn |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 972 | 974 | 1000 | 273 | 727 | 28 | 7 | 21 | 6.5 | 3.7 |
| 1 | 967 | 952 | 972 | 266 | 706 | 32 | 13 | 19 | 5.6 | 2.8 |
| 2 | 947 | 906 | 940 | 253 | 687 | 50 | 24 | 26 | 4.8 | 1.9 |
| 3 | 875 | 668 | 890 | 229 | 661 | 111 | 76 | 35 | 4.1 | 1.1 |
| 4 | 856 | 531 | 779 | 153 | 626 | 112 | 72 | 40 | 3.7 | 0.7 |
| 5 | 831 | 258 | 667 | 81 | 585 | 113 | 60 | 52 | 3.3 | 0.3 |
| 6 | 834 |  | 554 | 21 | 533 | 92 | 21 | 71 | 3.0 | 0.0 |
| 7 | 837 |  | 462 |  | 462 | 75 |  | 75 | 2.6 |  |
| 8 | 781 |  | 386 |  | 386 | 85 |  | 85 | 2.1 |  |
| 9 | 714 |  | 302 |  | 302 | 86 |  | 86 | 1.7 |  |
| 10 | 661 |  | 215 |  | 215 | 73 |  | 73 | 1.4 |  |
| 11 | 604 |  | 142 |  | 142 | 56 |  | 56 | 1.0 |  |
| 12 | 502 |  | 86 |  | 86 | 43 |  | 43 | 0.7 |  |
| 13 | 454 |  | 43 |  | 43 | 24 |  | 24 | 0.5 |  |
| 14 | 398 |  | 20 |  | 20 | 20 |  | 20 | 0.0 |  |



| Low Fertility Group |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | a(n) | a(n) | l(n) | I(n) | 1(n) | $\mathbf{W}(\underline{n})$ | W(n) | W(n) | Fn | Fn |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 950 | 950 | 1000 | 995 | 5 | 50 | 50 | 0 | 1.8 | 1.8 |
| 1 | 711 | 710 | 950 | 945 | 5 | 275 | 274 | 0 | 0.9 | 0.9 |
| 2 | 216 | 211 | 675 | 671 | 5 | 529 | 529 | 0 | 0.3 | 0.3 |
| 3 | 242 | 220 | 146 | 142 | 4 | 111 | 110 | 0 | 0.4 | 0.3 |
| 4 | 330 | 250 | 35 | 31 | 4 | 24 | 23 | 0 | 0.8 | 0.3 |
| 5 | 418 | 173 | 12 | 8 | 4 | 7 | 6 | 0 | 1.4 | 0.2 |
| 6 | 627 |  | 5 | 1 | 4 | 2 | 1 | 0 | 2.3 | 0.0 |
| 7 | 837 |  | 3 |  | 3 | 0 |  | 0 | 2.6 |  |
| 8 | 781 |  | 3 |  | 3 | 1 |  | 1 | 2.1 |  |
| 9 | 714 |  | 2 |  | 2 | 1 |  | 1 | 1.7 |  |
| 10 | 661 |  | 1 |  | 1 | 0 |  | 0 | 1.4 |  |
| 11 | 604 |  | 1 |  | 1 | 0 |  | 0 | 1.0 |  |
| 12 | 502 |  | 1 |  | 1 | 0 |  | 0 | 0.7 |  |
| 13 | 454 |  | 0 |  | 0 | 0 |  | 0 | 0.5 |  |
| 14 | 398 |  | 0 |  | 0 | 0 |  | 0 | 0.0 |  |
| High Fertility Group |  |  |  |  |  |  |  |  |  |  |
|  | a(n) | a(n) | I(n) | I(n) | l(n) | $\mathbf{W}(\mathbf{n})$ | $\mathbf{W}(\mathrm{n})$ | $\mathbf{W}(\mathrm{n})$ | Fn | Fn |
| Parity | total | limit | total | limit | no limit | total | limit | no limit | total | limit |
| 0 | 967 | 963 | 1000 | 439 | 561 | 33 | 16 | 16 | 5.8 | 3.6 |
| 1 | 964 | 953 | 967 | 422 | 545 | 35 | 20 | 15 | 5.0 | 2.8 |
| 2 | 916 | 855 | 933 | 402 | 530 | 78 | 58 | 20 | 4.2 | 1.9 |
| 3 | 857 | 724 | 854 | 344 | 510 | 122 | 95 | 27 | 3.6 | 1.2 |
| 4 | 797 | 529 | 732 | 249 | 483 | 148 | 117 | 31 | 3.2 | 0.7 |
| 5 | 764 | 260 | 584 | 132 | 452 | 138 | 97 | 40 | 3.0 | 0.3 |
| 6 | 800 |  | 446 | 34 | 412 | 89 | 34 | 55 | 2.9 | 0.0 |
| 7 | 837 |  | 357 |  | 357 | 58 |  | 58 | 2.6 |  |
| 8 | 781 |  | 298 |  | 298 | 65 |  | 65 | 2.1 |  |
| 9 | 714 |  | 233 |  | 233 | 67 |  | 67 | 1.7 |  |
| 10 | 661 |  | 166 |  | 166 | 56 |  | 56 | 1.4 |  |
| 11 | 604 |  | 110 |  | 110 | 44 |  | 44 | 1.0 |  |
| 12 | 502 |  | 66 |  | 66 | 33 |  | 33 | 0.7 |  |
| 13 | 454 |  | 33 |  | 33 | 18 |  | 18 | 0.5 |  |
| 14 | 398 |  | 15 |  | 15 | 15 |  | 15 | 0.0 |  |


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    ${ }^{2}$ Population Program, International Institute for Applied Syatems Analysis, A-2361 Laxenburg, Austria.
    ${ }^{3}$ Often in demographic analysis in order to find a solution within the framework of a relatively simple scheme and under the peculiarities of available information, the notion "number of children that a woman has" is substituted by "the number of children ever born". Under relatively low levels of infant mortality, such a substitution would not lead to substantial inaccuracy in the conclusions.

