



Model Fertility Schedules: Variations in The Age Structure of Childbearing in Human Populations

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CURRENT ITEMS

MODEL FERTILITY SCHEDULES: VARIATIONS IN THE AGE STRUCTURE OF CHILDBEARING IN HUMAN POPULATIONS

A research project* recently undertaken at the Office of Population Research was an examination of the roots of a

basic integral equation in the theory of stable populations:

$$\int_a^{\beta} e^{-ra} p(a)m(a)da = 1.0$$

The aim was to examine the nature of the roots for a set of net fertility functions expressing the full variety of fertility experience to be found in large human populations. One segment of the project was an attempt to create a family of model fertility schedules encompassing the full range of human experience, an attempt that culminated in the tables presented here.

Several sets of model tables have been developed representing in different ways and in different detail of coverage typical age patterns of mortality found in human populations at every recorded level of mortality (United Nations 1955; Coale and Demeny 1966; Ledermann 1969; Brass 1971). A single model schedule of first marriage frequencies (with a corresponding model schedule of the proportion ever married by age, and also a schedule of person years lived in the ever married state) has been found to fit a wide range of age patterns of nuptiality, given the proper choice of parameters specifying the origin and the appropriate horizontal and vertical scales for the standard nuptiality function (Coale 1971).

In Appendix B are printed a set of model age-specific fertility schedules analogous to the earlier model tables of mortality and nuptiality. These schedules represent age *patterns* of fertility rather than the level of fertility. Since the sum of the tabulated fertility rates, taken over all reproductive ages, is 1.0, age-specific fertility rates can be calculated by multiplying each model rate by an actual population's total fertility rate. In these new tables the fertility in each single year of age is calculated as the product of a number representing the proportion cohabiting at that age and a number representing the age-specific fertility of those who cohabit. By such combinations we have been able to construct schedules that we believe express essentially the full range of age structures of fertility likely to be found in large human populations. The source of this belief is, first of all, the regularity, both in the age pattern of nuptiality, and in the variation of marital fertility with age, noted in an earlier article (Coale 1971). The further and sounder basis for the belief in the validity of the model fertility schedules is their extraordinarily close fit to various accurately recorded fertility schedules of rad-

*This project was conducted as part of a graduate course in mathematical demography at Princeton taught by Donald McNeil, Ansley Coale, and Jane Menken, during the fall semester of 1973-1974. It was a joint research project involving students and faculty, undertaken in lieu of individual research papers.

ically different form in terms of mean age, standard deviation, and symmetry or asymmetry. The fit is described and graphically illustrated at a later point.

The text that precedes the tables includes: 1) a description in general terms of the basis of the model schedules of fertility; 2) the presentation of relevant details of the two constituent functions that are multiplied together to form the schedules; 3) a discussion of the fit of the schedules, including their suitability given the existence of such empirical factors as extramarital fertility, dissolution of marriage, and rapid changes in nuptiality; 4) a brief discussion of the advantages of model schedules based on the combination of two functions; and 5) an indication of some of the applications of the schedules, including instructions for locating, by interpolation, the most appropriate set of age-specific rates.

The Basis for the Model Schedules of Fertility

The basic assumption upon which the model schedules are calculated is that fertility conforms to the structure by age created by multiplying together two model subschedules: a sequence of model proportions ever married at each age and a model schedule of marital fertility. Thus, if the proportion ever married at age a in the model schedule of nuptiality is $G(a)$, and the proportion of married women at age a experiencing a live birth in the model schedule of marital fertility is $r(a)$, age-specific fertility is $f(a) = G(a) \cdot r(a)$. This construction applies exactly to a hypothetical population in which there is no fertility outside marriage, and no dissolution of marriage before the end of the childbearing span of ages. But it also duplicates quite adequately the age structure of fertility in actual populations through the selection of a $G(a)$ that differs slightly from the proportion ever married in the actual population, and of an $r(a)$ that differs slightly from the actual marital fertility schedules.

The representation $f(a) = G(a) \cdot r(a)$ makes possible the calculation of model fertility schedules from three specified parameters—two parameters required to specify a model schedule of proportions ever married, and one parameter required to specify a model schedule of marital fertility.

Age Structure of the Proportion Ever Married, $G(a)$, Specified by Two Parameters

First-marriage frequencies, defined as the number of first marriages in a short age interval divided by the number of persons in that interval, have been shown to conform to a curve of the same shape in different populations (or more precisely in different cohorts). What differs from population to population is the age at which first marriage begins, the duration of the age span within which the majority of the marriages occur, and the proportion of the survivors in the cohort who, at advanced ages, have been married at some time. The similarity in structure of the age distribution of first marriages in different cohorts is analogous to the common shape characterizing different normal (Gaussian) distributions, which are alike only when the mean (location), standard deviation (horizontal scale), and vertical scale (number of cases, or size of population) are specified.

If the effect of differential mortality by marital status on the proportion ever married is neglected, the existence of a standard distribution of first marriage frequencies implies a standard curve describing the proportion ever married in different cohorts. The *form* of the curve is standard, but there are differences, of course, in the starting age of a tangible proportion ever married, in the pace at

which the curve rises and in the ultimate proportion experiencing marriage—the proportion ever married by the age at which first marriage rates have fallen essentially to zero. If the standard proportion ever married x years after first marriages begin is $G_s(x)$, in any cohort $G(a) = C \cdot G_s((a - a_0)/k)$, where C is a factor determined by the ultimate proportion ever married, a_0 is the age at which first marriages begin, and k is the scale factor expressing the number of years of nuptiality in the given population equivalent to one year in the standard population. If k is 1.0, first marriages occur at the same pace as in the nineteenth-century Swedish population that served as the basis of the standard; if k is 0.5, or one-half, first marriages occur at twice the pace of the standard. Specifically, according to the standard schedule half of the population that will ever marry has experienced first marriage ten years after the earliest age at which a consequential number of first marriages occur; if k is equal to 0.5, one-half the cohort has experienced first marriage five years after a_0 .

The standard proportions ever married were published in an earlier article (Coale 1971), but for computational convenience, we have calculated $G(a)$ from a closed-form analytical expression for first marriage frequencies developed by Donald R. McNeil (Coale and McNeil 1972). This expression is:

$$(1) \quad g(a) = (0.19465/k) \exp \{(-0.174/k)(a - a_0 - 6.06k) - \exp [(-0.2881/k)(a - a_0 - 6.06k)]\}$$

No analytical expression for $G(a)$ has been found, but $G(a)$ can be calculated by numerical integration of $g(a)$, since $G(a) = \int_{a_0}^a g(x) dx$. This representation of $G(a)$, with appropriate estimates of a_0 and k , provides an approximation of the proportion ever married in a cohort, if multiplied by a scale factor to allow for the particular proportion ultimately experiencing marriage. However, since the standard schedules of fertility that we have constructed represent only the age pattern of fertility and not the level, the proportion ultimately marrying is omitted here. Only the age of initiation and the pace of first marriages affect the structure of fertility; the proportion remaining celibate influences the level but not the age pattern of fertility.

The Age Structure of Marital Fertility, $r(a)$, Specified By a Single Parameter.

Louis Henry found that there is a characteristic pattern of marital fertility in populations in which there is little or no voluntary control of births. He defined voluntary control as behavior affecting fertility that is modified as parity increases, and the absence of control—natural fertility—as behavior, whether affecting fertility or not, that is the same no matter how many children have been born (Henry 1961). The regularity in marital fertility that makes possible a single-parameter set of schedules is this: marital fertility either follows natural fertility (if deliberate birth control is not practiced), or departs from natural fertility in a way that increases with age according to a typical pattern. In a population in which fertility is voluntarily controlled, the ratio of marital fertility at each age, $r(a)$, to a schedule of natural fertility, $n(a)$, is given by:

$$(2) \quad r(a)/n(a) = M \exp (m \cdot v(a))$$

The factor M is a scale factor expressing the ratio $r(a)/n(a)$ at some arbitrarily chosen age. Since we are concerned only with the age pattern of fertility (not its level), the value of M (like the value of the factor C in the model schedule of proportion ever married) is of no significance for the construction of our fertility schedules. The function $v(a)$ expresses the tendency for older women in populations practicing contraception or abortion to effect particularly large reductions of fertility below the natural level.

Model schedules of $r(a)$ are required at single years of age over the full range at which there is found both 1) a non-zero proportion cohabiting, and 2) non-zero marital fertility. The two functions $n(a)$ and $v(a)$, assumed to be invariant, must therefore be estimated by single years of age; the requisite family of model schedules is then obtained by assigning values to m , from zero, in which case $r(a)$ equals $n(a)$, to a maximum expressing the greatest likely departure of fertility from the age pattern of natural fertility resulting from a very high degree of voluntary control of births.

The functions $n(a)$ and $v(a)$ were derived from empirical data. There were two steps in the derivation: first, the estimation of approximate values of $n(a)$ and $v(a)$ by five-year age intervals above age 20, and second, determination of single-year values by freehand interpolation above age 20 plus extension to ages below 20 on somewhat arbitrary common sense principles.

Seven values of $n(a)$ at ages 20-24 through 45-49 were derived by calculating the arithmetical average of schedules designated by Henry as natural (Henry 1961). Henry's schedules begin at 20 because premarital conceptions have a large and irregular effect on teenage marital fertility. Ten schedules of natural fertility were averaged after discarding schedules known to be based on surveys in which age misreporting was especially prevalent and might have distorted the pattern of fertility. The effect of this selection (compared to the acceptance of all schedules listed by Henry) is minor, since the age pattern of all of those listed is broadly similar.

Seven values of $v(a)$, at ages 20-24 through 45-49, were obtained by calculations employing the marital fertility schedules listed in the United Nations Demographic Yearbook for 1965 (United Nations 1966). Again, schedules known or suspected to be distorted by age misreporting or other forms of faulty data were discarded. Each of the forty-three schedules not eliminated on this basis were provisionally accepted as embodying, each in its own degree, the typical pattern of departure from natural fertility.

For the i^{th} schedule an individual $v_i(a)$ can be calculated by setting $m = 1.0$ in equation (2). For the i^{th} schedule we find

$$(3) \quad v_i(a) = \log [r_i(a)/(M \cdot n(a))]$$

M is chosen so that $v_i(a)$ is zero for the age interval 20-24. The arithmetical average of the forty-three values of $v_i(a)$ in each of the seven age intervals was then defined as $v(a)$ for each interval. The values of $n(a)$ and $v(a)$ are as follows:

	20-24	25-29	30-34	35-39	40-44	45-49
$n(a)$	0.460	0.431	0.396	0.321	0.167	0.024
$v(a)$	0.000	-0.316	-0.814	-1.048	-1.424	-1.667

The function $v(a)$ calculated in this way can be validated by substituting the tabulated values in equation (2) and seeing how well the result fits each marital fertility schedule. A value of M is chosen that equates $M \cdot n(a)$ with $r(a)$ at ages 20-24. One way of getting a visual impression of how well $v(a)$ fits a given marital fertility schedule is to calculate a separate value of m for each age interval. If equation (1) were fully valid, and $v(a)$ appropriately estimated, the separately determined values of m for age intervals 25-29 through 45-49 would all be the same. The sequence of m 's calculated for the forty-three empirical marital fertility schedules is not in every instance highly uniform. However, the set of m 's for most marital fertility schedules falls on a reasonably level plateau, and the difference in level of m between different populations is quite evident (see Figure 1).

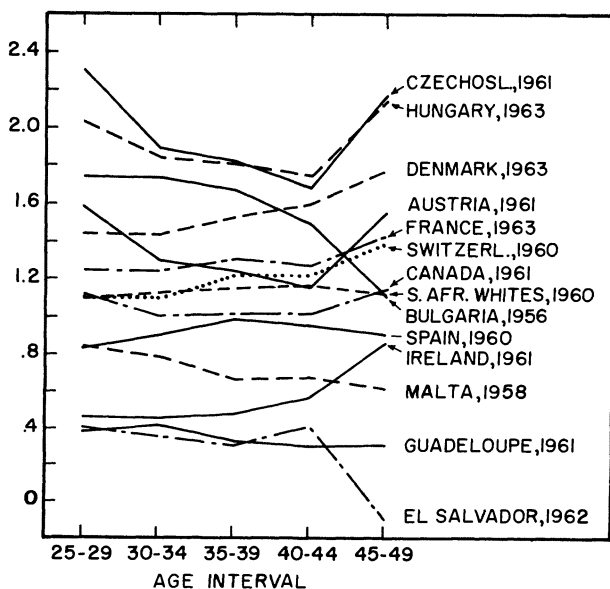


Fig. 1. Values of m , where $m = \log[r(a)/(M \cdot n(a))] / v(a)$, for selected marital fertility schedules

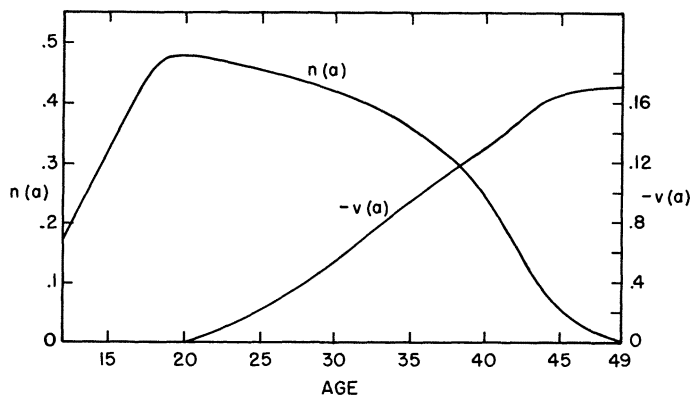


Fig. 2. Values of $n(a)$ (natural fertility), and $v(a)$ (logarithmic departure from $n(a)$)

Single-year values of $n(a)$ and $\nu(a)$ are shown in Figure 2, and tabulated as part of the FORTRAN program in Appendix A. The hand-fitted values of $n(a)$ above age 20 approximately match, in average value for each five-year interval, the values at five-year intervals listed earlier. The extension of $n(a)$ back to age 12 is based on general biomedical information that full reproductive capacity is reached a few years after menarche, and that the mean age at menarche varies from about 12 to 16 years in different populations. The particular choice of rates to represent $n(a)$ below age 20 is not of major importance because of the dominant role of $G(a)$ in determining the rise of age-specific fertility with age.

Values of $\nu(a)$ at single ages were chosen so that their sum over five-year age intervals matched (above age 25) the values at five-year intervals given earlier. To avoid a sharp change in the neighborhood of age 25, non-zero values were assumed to begin at age 20.

With single-year values of our three functions, we have the means of calculating a full range of fertility schedules for hypothetical populations in which there is no illegitimacy and no marital dissolution, and in which marriage begins at various initial ages and occurs over various age spans, and in which marital fertility ranges from the gradual decline with age characteristic of natural fertility to the much steeper decline characteristic of populations in which there is extensive control of fertility within marriage. The age pattern is given by equation (4):

$$(4) \quad f(a) = G(a)n(a)e^{m \cdot \nu(a)}$$

where $f(a)$ is age-specific fertility, $G(a)$ is the proportion ever married (in a population where first marriage occurs according to a schedule characterized by selected values of the parameters a_0 and k), $n(a)$ is natural fertility, $\nu(a)$ is the characteristic pattern of departure from natural fertility, and m is the extent of that departure.

Model Schedules of Age-Specific Fertility, and Their Similarity to the Age Pattern of Fertility in Actual Populations

In actual populations, of course, births occur outside of marriage as well as within, and the proportion of the population currently married differs from the proportion ever married because of the presence of the widowed and divorced. However, the structure of fertility in an actual population may closely resemble that in a hypothetical population with no marital dissolution or extramarital fertility if the latter population has slightly different parameters of nuptiality and marital fertility from those found in the actual population. The effect of illegitimate births and of premarital conceptions on the age structure of fertility is equivalent to a schedule of first marriages that is slightly different from the observed one at early ages; the effect of illegitimate births at the older ages is equivalent to a slight increase in marital fertility at those ages. The proportion of the ever married population that is widowed and divorced rises monotonically with age, thus reducing fertility toward the end of childbearing in a way that is topographically similar to the effect of $\nu(a)$ on marital fertility. In other words, it is probable that the standard schedule of first-marriage frequencies, with a suitable choice of initial age and pace of occurrence of first marriages, can serve as a usable surrogate for the age of entry into sexual union (including unions that do not in

fact involve marriage), and that modification of natural fertility by the proper choice of m by which to multiply $\nu(a)$ can serve to approximate the effect both of marital dissolution in reducing the fraction married at higher ages and of control of fertility on marital fertility. On the provisional assumption that such is the case, we have calculated a large array of model fertility schedules by single years of age; each schedule is composed of the product of an estimated proportion ever married and of marital fertility in each single-year age interval. The starting age of nuptiality was allowed to range from 12.5 to 18 years; the pace of marriage from 56 percent of the pace ($k = 1.7$) to five times the pace ($k = 0.2$) in the Swedish standard nuptiality schedule. The value of m was permitted to range from zero (natural fertility) to 3.9, on a scale in which 1.0 is the average value for forty-three schedules in the 1965 Demographic Yearbook. A total of 795 model schedules was tabulated. Each schedule has been normalized so that the sum of the fertility rates at all ages is 1.0; the schedules embody only an *age pattern* of fertility and carry no implication with respect to total fertility.

The tabulated schedules have been selected to produce mean ages at integral values from 24 to 34 years and values of standard deviation (achievable within the stipulated limits of the three underlying parameters) at intervals of half a year. The range of standard deviation is from 4.0 to 7.5, but some combinations (e.g. standard deviations of 7.0 or 7.5 with a mean age of 25) could not be attained within the limits of the three controlling parameters.

When a_0 was 15.0 or more, the single-year rates under age 20 were modified to conform to an observed feature of reliably recorded single-year schedules; non-zero fertility rates typically begin at about age 15 even when marriage begins relatively late. Positive fertility rates at ages 15 and 16 in such populations are probably the result primarily of extramarital conceptions that occur to a small number of adolescents. The requisite modification was achieved as follows: the value of fertility at exact age 20 and the cumulated value of fertility up to age 20 were accepted as initially calculated from equation (3). Values of n and R were found such that $f(a)$ equals $R(a - 15)^n$ matches the calculated value at age 20, and such that $R \int_{15}^{20} (a - 15)^n da$ matches cumulated fertility (as calculated) up to age 20.

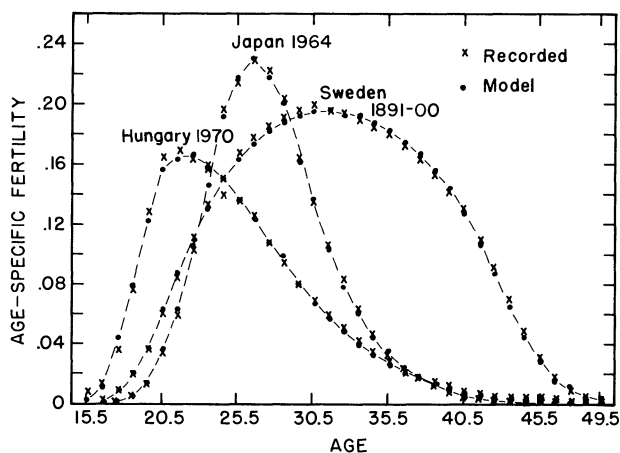


Fig. 3. Age-specific fertility rates of three populations fitted by model fertility schedules

A crucial question is whether this family of model fertility schedules provides a close fit to the fertility of actual populations. We have tried to determine how well the model schedules operate by finding a schedule (through interpolation among the printed values) that matches each of a number of recorded schedules in terms of the mean age and the standard deviation and the ratio of the average value of fertility in the interval from ages 15 to 20 to the average value from ages 20 to 25. Figure 3 shows the goodness of fit for three selected fertility schedules recorded by single years of age.

The schedules were chosen because they had the lowest and highest mean ages (Hungary, 1970, and Sweden, 1891-1900), and the lowest standard deviation (Japan, 1964) among the single-year fertility schedules that we examined; in spite of the fact that the schedules fitted are extreme, the fit in every case is quite close. In fact the absolute value of the area between the model schedule and the recorded rates is in each instance less than 2.5 percent of the total area under either curve. We have fitted a number of other recorded fertility schedules with equal success.

Figure 4 shows the structure of fertility that results when entry into cohabitation is early and rapid or late and gradual, combined with natural fertility, and with fertility that is highly controlled. In interpreting Figure 4 the reader must keep in mind the normalization of each schedule so as to produce an arbitrary total fertility of 1.0. The figure illustrates the distribution of fertility by age, not differences in level of fertility associated with age patterns. Actually, a schedule incorporating natural fertility would be expected to have at least as high fertility at every age as a schedule with the same a_0 and k and positive values of m . In Figure 5 two schedules with the same nuptiality but different values of m are shown, when the final proportion married is set at 1.0, and natural fertility is given a maximum value of 0.477.

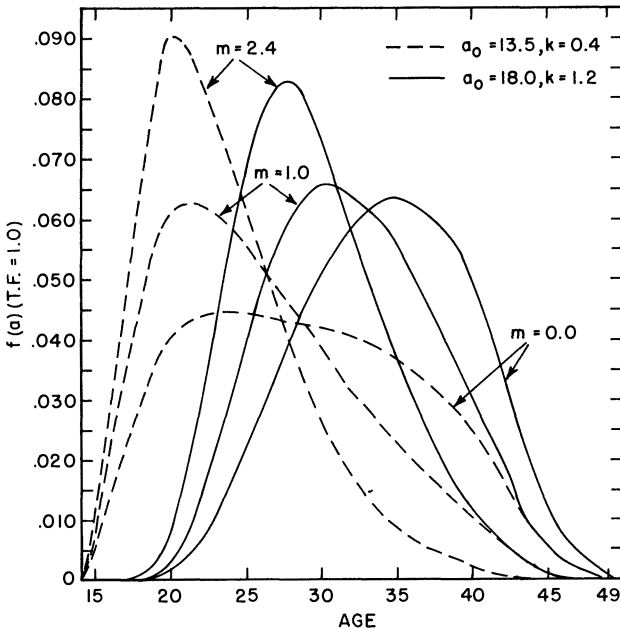


Fig. 4. Model fertility schedules, total fertility = 1.0. Combinations of early marriage with various degrees of fertility control and late marriage with various degrees of control

Suitability of the Model Fertility Schedules when Nuptiality is Changing

One of the two basic components of the model fertility schedules—the standard schedule of first-marriage frequencies—logically fits the experience of a cohort as it moves through life; it cannot match the proportion ever married by age in a cross section during a period of rapid changes in nuptiality. In fact, during such a

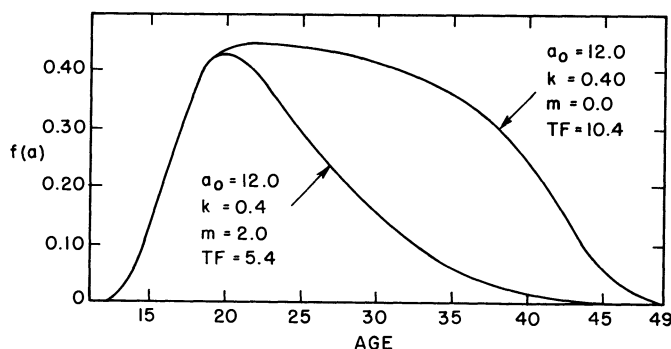


Fig. 5. Age-specific fertility schedules, proportion ultimately ever married 1.0, marital fertility given by $n(a) \cdot \exp(m \cdot v(a))$

period, there may be such peculiarities as a proportion ever married at age 30 higher than at 40. But an examination of long sequences of Swedish and Danish period and cohort marital fertility schedules reveals that the second basic component—a set of model schedules of marital fertility—fits cross-sectional experience better than it fits cohort experience. Thus one of the components is appropriate to the construction of model schedules for periods, and the other component is not. In particular, we can expect difficulties in fitting the model schedules to actual experience when nuptiality is changing rapidly.

The good performance of a model schedule in matching fertility for Japan, 1964 (Figure 3), shows that this logical defect does not necessarily impair the capacity of the model schedules to duplicate real age patterns. However, the fit is achieved with a fertility schedule embodying an implied mean age of first marriages (32.4 years) that bears no relation to the actual mean age at marriage in Japan (about 24 years). In contrast, the model schedule fitted to Hungary, 1970, implies a mean age at first marriage within 0.4 years of the recorded mean. Thus the model schedules fit quite well even when the assumptions they incorporate are violated; however, the parameters (a_0 , k , and m) that in periods of constant nuptiality approximately specify the age pattern of entry into cohabitation and the departure of marital fertility from the “natural” pattern cannot be so interpreted in a period of rapid change.

Advantages of the Model Schedules

A virtue of this set of model schedules as compared to fitted schedules that are based on conventional frequency distributions such as the log normal, or one of the Pearson curves (Tekse 1967; Talwar 1970; Mitra and Romaniuk 1972; Romaniuk 1973; Talwar 1974), is that the model schedules incorporate combinations of intuitively understandable demographic factors. The validity of this basis for

constructing model tables is confirmed by the goodness of fit to a variety of accurately recorded schedules. The model tables have the further advantage of describing in detail age patterns of fertility that are widely experienced but seldom recorded. Early marriage has been combined with natural fertility in many populations, but this combination has usually occurred in the absence of accurate registration of birth by age of mother; consequently few instances of this age pattern of fertility have been observed in detail. The model tables provide a useful tool of estimation for such populations.

Some Possible Uses of Model Fertility Schedules

It is hoped that these model fertility schedules will prove useful in a number of practical, analytical, and heuristic ways, only some of which can be foreseen at this early stage. One practical purpose is to provide estimated single-year fertility rates for populations in which age-specific fertility is tabulated only by five-year age intervals. The tables have been arranged to make it possible to locate a model fertility schedule on the basis of a known mean and standard deviation plus the ratio of fertility at ages 15-19 to fertility at ages 20-24 (labeled R_1 in the model tables). (In calculating the standard deviation from data given by five-year age intervals it is necessary to allow for Shepherd's correction or to subtract 2.083 from the calculated variance.)

Fitting a Model Schedule to an Observed Schedule: England and Wales, 1965

It is usually possible to calculate a model fertility schedule matching observed values of mean age, standard deviation, and R_1 by employing the weighted average of no more than three tabulated schedules. Suppose the given values of mean age and standard deviation lie between $\hat{\bar{x}}$ and $\hat{\bar{x}} + 1.0$, and $\hat{\sigma}$ and $\hat{\sigma} + 0.5$, respectively, as shown in Figure 6. Since model tables are tabulated for integral values of the mean age, and for standard deviations at intervals of 0.5 years, tabulated fertility schedules generally exist at combinations of \bar{x} and σ^2 found at all four corners of the rectangle in Figure 6. These schedules are examined to see if they include

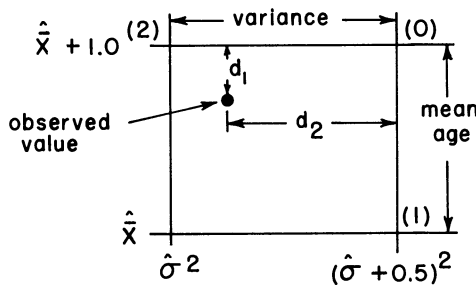


Fig. 6. Guide to interpolation to determine weights for calculating model fertility schedule as weighted average of tabulated schedules

schedules with values of R_1 close to the observed R_1 . Usually at least three of the sets of tabulated schedules at the four corners provide such values of R_1 . Let us designate the three positions at which correct R_1 's occur as positions 0, 1, and 2, employing 0 for the position sharing the standard deviation of position 1 and the mean age of position 2. Let d_1 be the distance from the observed mean to the mean at position 0, and d_2 the distance of the observed variance from the variance at

position 0, as a fraction of the distance 0 to 2. (Cf. Figure 6.) Then if weights $W_1 = d_1$, $W_2 = d_2$, and $W_0 = 1.0 - d_1 - d_2$ are applied to schedules at positions 1, 2, and 0, the resultant weighted average of fertility rates constitutes a schedule that has the observed mean and variance.¹

To match the observed value of R_1 to a very close approximation, it is usually sufficient to choose judiciously from the schedules available at positions 0, 1, and 2, choosing two schedules with R_1 's on one side of the observed R_1 , and one schedule with an R_1 on the other side, paying due attention to the weights W_0 , W_1 , and W_2 . The aim, of course, is to select the schedules so that the weighted average of the R_1 's matches the observed R_1 .² As an example, consider the fertility schedule for England and Wales 1965, with $\bar{x} = 27.269$, $\sigma = 5.672$, and $R_1 = 0.248$. Position 0 is $\bar{x} = 27.0$, $\sigma = 6.0$, position 1 is $\bar{x} = 28.0$, $\sigma = 6.0$, and position 2 is $\bar{x} = 27.0$, $\sigma = 5.5$. The value of d_1 is $0.269/1.0$; the value of d_2 is $[(6.0)^2 - (5.672)^2]/[(6.0)^2 - (5.5)^2] = 0.6658$. The adjustment³ to d_2 is $(2.69)(.731)/5.75 = 0.342$. Thus $W_1 = 0.269$, $W_2 = 0.700$, and $W_0 = 0.031$. At position 0 ($\bar{x} = 27.0$, $\sigma = 6.0$) we choose $R_1 = 0.2424$ (too small); at position 1 ($\bar{x} = 28.0$, $\sigma = 6.0$), $R_1 = 0.2494$ (too large); at position 2 ($\bar{x} = 27.0$, $\sigma = 5.5$), $R_1 = 0.2478$ (too small). The weighted average is $(0.031)(0.2424) + (0.269)(0.2494) + (0.700)(0.2478) = 0.2480$. The cover chart shows the resultant fit to the recorded schedule.

Fitting a Model Schedule to Observed Average Parities in a Developing Country: Peru, 1960

Another practical use is to locate a model fertility schedule for a population of a less developed country for which the only information is a sequence of reported average parities by five-year age intervals. Suppose it may be assumed that fertility has been approximately constant in recent years, and that fertility is either natural fertility or subject to only a slight degree of control. It is common knowledge that reported parity falls off with age beyond a certain point and is generally understated for older women. A plausible conjecture about reporting of parity in populations in which the responses are deficient is that younger women give a fairly full and accurate report of the number of children ever born to them, and that older women fail to report all of the births that have occurred to them mainly because of a failure to understand that they should include children who have grown up and left home. In other words the parity reported by women up to about age 30 can be considered relatively accurate.

With the help of Figure 7, it is possible to determine the values of a_0 and k that would yield specified combinations of the ratios $PAR\ 1$ (average parity 15-19)/(average parity 20-24) and $PAR\ 2$ (average parity 20-24)/(average parity 25-29), with $m = 0.0$ (natural fertility), $m = 0.2$ (very moderate control of fertility) and $m = 0.4$ (quite moderate control of fertility). The FORTRAN program in Appendix A can then be used to calculate a model fertility schedule with an age structure that 1) matches the observed sequence of average parities up to age 30, and 2) incorporates either no departure or only a slight departure from natural fertility at the higher ages. The schedule is printed out at single years of age; average parity at ages 15-19, 20-24, and 25-29 is also provided. The model schedule yields a total fertility of 1.0; hence the ratio of average parity at ages 25-29 (or at either of the other tabulated age intervals) recorded for the popula-

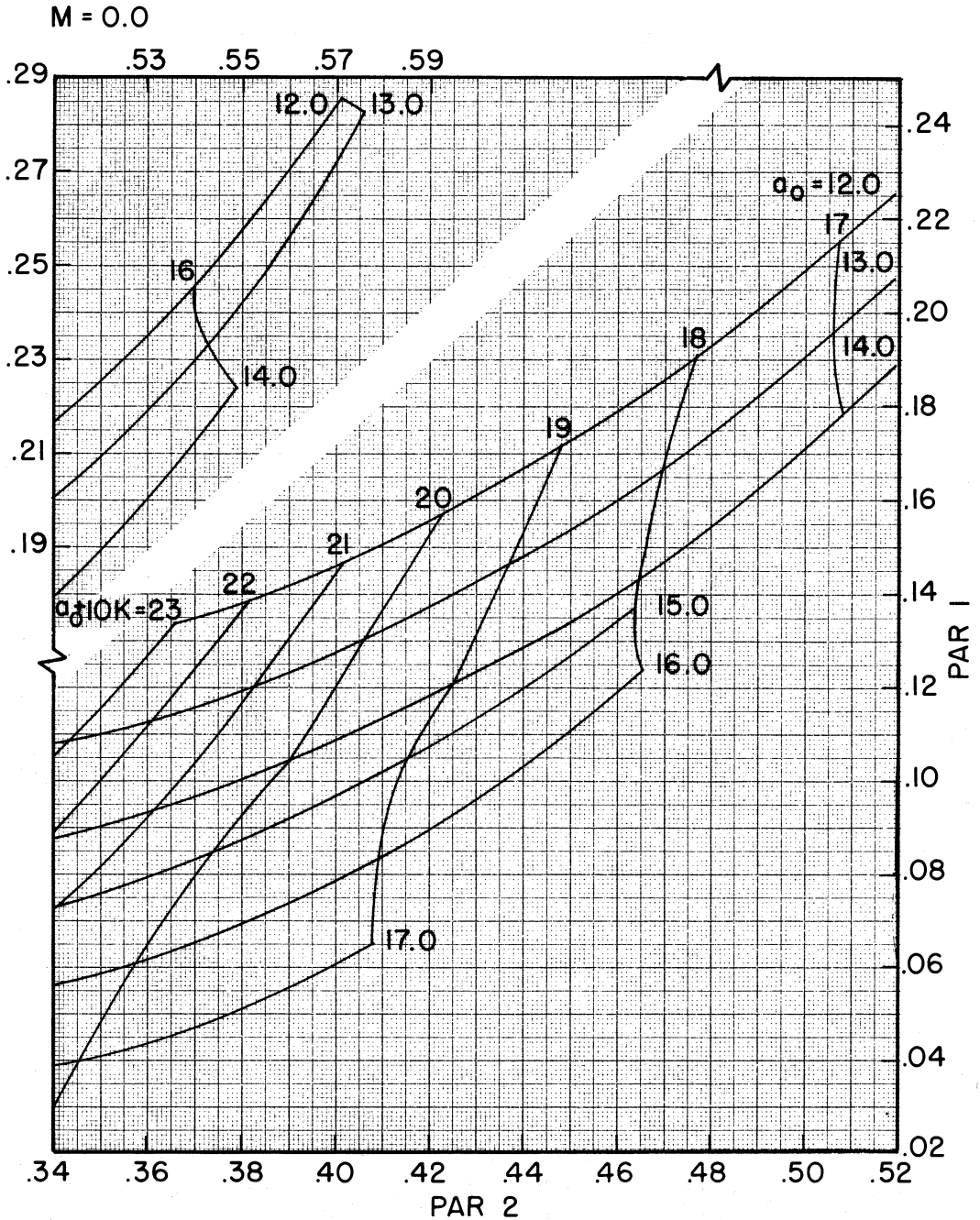


Fig. 7. Locus of combinations of PAR 1 (average parity 15-19/average parity 20-24) and PAR 2 (average parity 20-24/average parity 25-29) giving specified values of a_0 and $a_0 + 10K$, for $m = 0.0, 0.2, \text{ and } 0.4$.

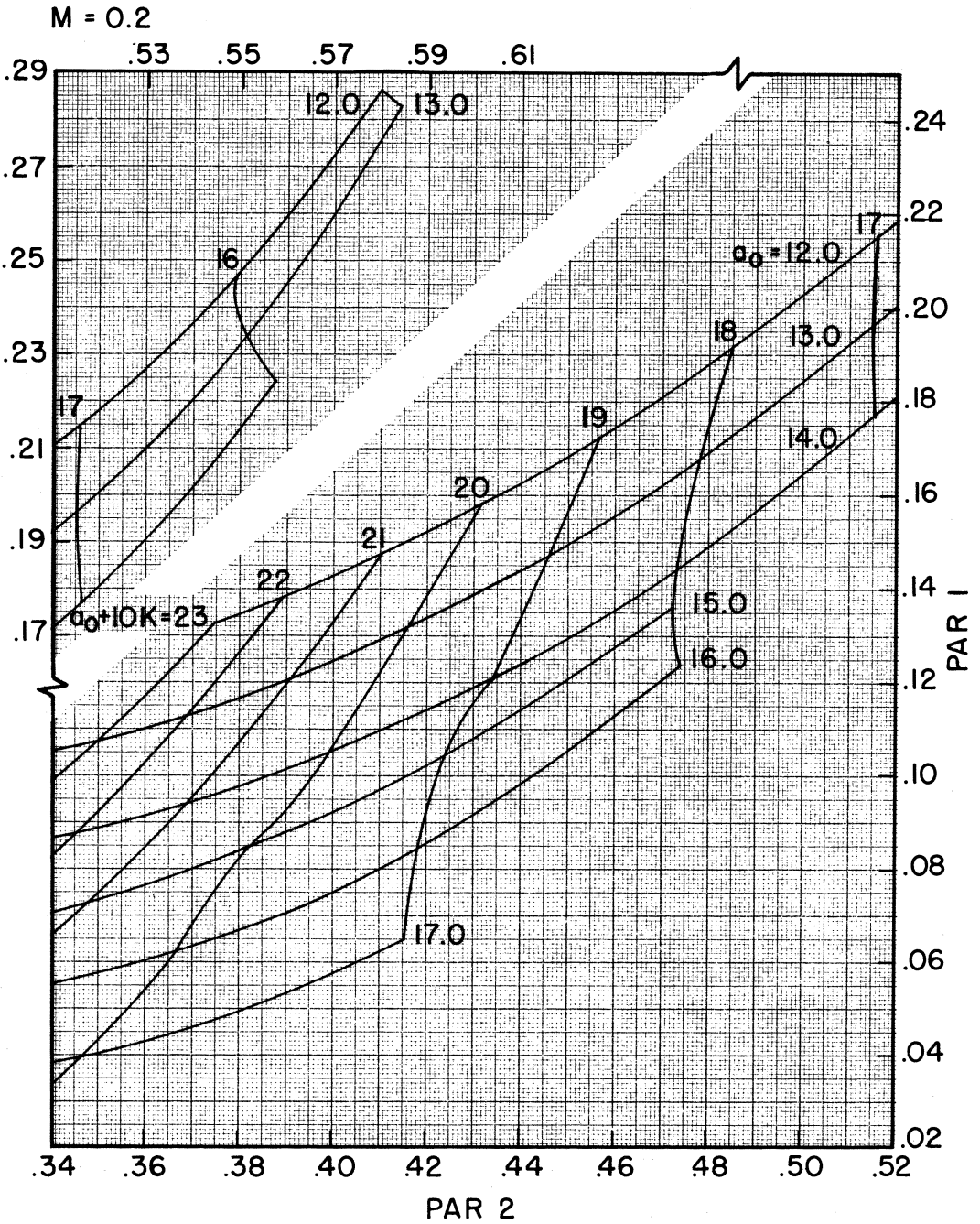


Fig. 7 (cont.)

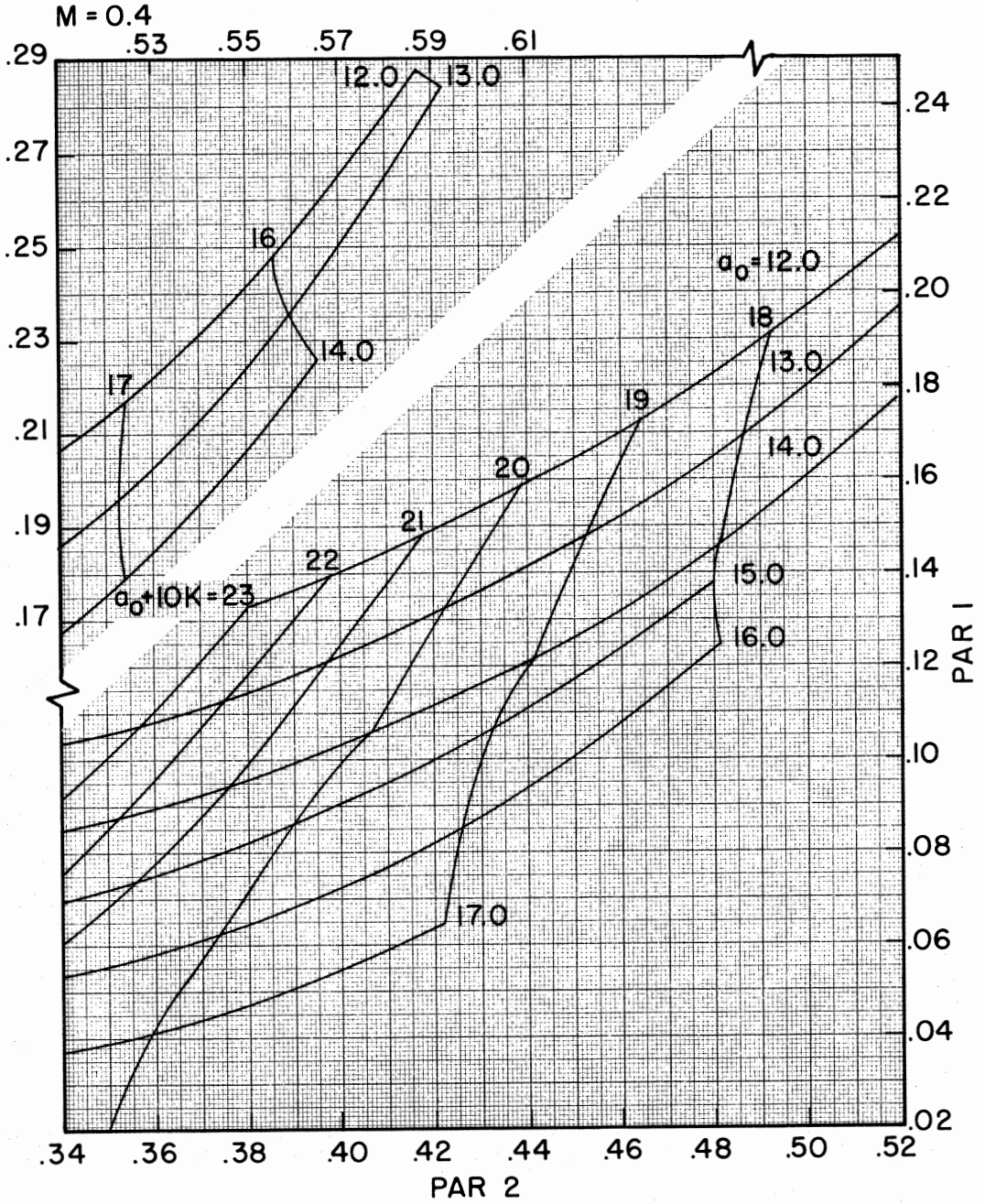


Fig. 7 (cont.)

tion to average parity at that age in the model schedule provides an estimate of total fertility of the population. This ratio is also the multiplier required to convert the model age-specific fertility rates to the level prevailing in the population.

In Figure 7 it is possible to estimate, by visual interpolation, values of a_0 and $a_0 + 10k$ corresponding to specified combinations of *PAR* 1 and *PAR* 2, for $m = 0.0$, $m = 0.2$, and $m = 0.4$. The figure displays $a_0 + 10k$ rather than simply k as the second variable because the loci of constant $a_0 + 10k$ are more nearly orthogonal to the loci of a_0 than are the loci of k itself; this is not surprising, since $a_0 + 10k$ is the median age of first marriage in a first marriage distribution specified by the parameters a_0 , k . To find the values of a_0 and k consistent with given values of *PAR* 1 and *PAR* 2, locate the given *PAR* 1 and *PAR* 2 in one of the panels of Figure 7, and estimate the fractional distance of this position between two values of a_0 , and two values of $a_0 + k$. For example, *PAR* 1 and *PAR* 2 are 0.1424 and 0.4514 for Peru, 1960. When $m = 0.2$, this point lies at about $a_0 = 13.4$, $a_0 + 10k = 18.7$. When $a_0 = 13.4$ and $a_0 + 10k = 18.7$, $k = 0.53$. Hence one combination of parameters that produces a schedule with Peru's *PAR* 1 and *PAR* 2 is a schedule with $a_0 = 13.4$, $k = 0.53$, and $m = 0.2$. Other values of a_0 and k (13.2 and 0.58) would serve if $m = 0.4$ or (13.66) and 0.48) if $m = 0.0$.

These three model schedules, adjusted to yield the average parity at ages 25-29 recorded for Peru, are shown in Figure 8a. The estimates of total fertility implied by the three are 5.94, 6.30, and 6.72. Supplementary information for Peru makes it possible to select one of these schedules as optimal: the mean age of the schedule calculated from Peru's incomplete register of births by age of mother is 29.50 years, closely matching the mean age of the model schedule with $m = 0.20$. Total fertility for this model schedule, adjusted to match recorded parity at 25-29, is 6.30; total fertility according to registered births is 5.09, indicating a completeness of registration of 80.8 percent. The age structure of the model schedule, chosen primarily on the basis of average parities recorded in the census, agrees well with the structure of fertility indicated by registered births (Figure 8b).

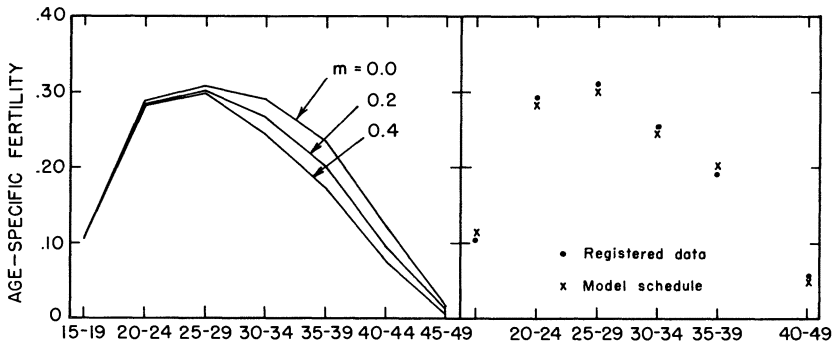


Fig. 8a. Model fertility schedules, by five-year age intervals, matching average parity in Peru, 1960, at ages 15-19, 20-24, and 25-29.

Fig. 8b. Model fertility schedule, $M = 0.20$, compared with registered rates for Peru (adjusted for underregistration)

A similar calculation for Mexico, 1960, produces a similarly close agreement; however, the best fit to the mean age based on registered births is provided by the model schedule with $m = 0.4$; this model schedule adjusted to the recorded average parity at 25-29 yields a total fertility of 6.12, 1 percent less than total fertility calculated from registered births. By this test, the registration of births in Mexico is seen to be complete.

In the absence of extensive registration the mean age of the fertility schedule is not available, and it is necessary to guess the appropriate value of m , on the basis of general knowledge. For example, on the basis of the above calculations, a value of 0.2 to 0.4 seems a sensible choice for a Latin American population in which no major decline of fertility has occurred.

Another category of uses of these model tables is analytical. It was really for analytical reasons that we embarked on their construction. The application of these schedules in an exploration of the nature of the complex roots

$$\int_{\alpha}^{\beta} e^{-ra} p(a) \cdot m(a) da = 1$$

will be reported elsewhere in a paper on that topic. In addition, the model fertility schedules by single years of age provide a firmer basis for calculation of adjustment factors to be used in the Brass-Sullivan approach to the estimation of infant and child mortality from data on the proportion dead among children ever born to women of different ages. In Brass's original version of these procedures, adjustment factors for converting proportions dead to ${}_nq_0$'s were derived by assuming a fertility function consisting of a polynomial of fixed structure that varied in its starting point. Sullivan determined the value of adjustment factors by constructing the adjustment required for each of a number of empirical fertility schedules by single years of age, and used regression analysis to determine the relationship between the needed adjustment factor and the parity ratios (*PAR 1* and *PAR 2*) discussed above. Sullivan was hampered by the scarcity of fertility schedules incorporating an early start of fertility, and attempted to remedy this deficiency by using fictitious fertility schedules incorporating a start one year earlier than that recorded in empirical schedules of fertility. The new model tables, which seem to fit empirical experience quite satisfactorily, provide a set of tables for the full range of likely human experience. It must be conceded that their use now in the calculation of Brass-type estimates of infant and child mortality would probably modify such estimates only slightly. However, the tables provide a more satisfactory basis for such calculations than the expedients employed earlier and it is hoped that in the future they will prove convenient for a variety of uses in analytical demography.

Description of Tables

The model fertility tables give age-specific fertility rates (per 1,000,000 women at each age), normalized so that the total fertility in each schedule is 1.0. The tables are arranged in ascending order of mean age, with ascending order of standard deviation with each mean age. For each value \bar{x} and σ , the tables are presented in ascending order of k . The ratio of average fertility at ages 15-19 to average fertility at ages 20-24, R_1 , generally is strictly monotonic increasing, but is

sometimes strictly monotonic decreasing, with increasing k . Also shown for each table are ratios of average parity at 15-19 to average parity at 20-24 (*PAR 1*) and average parity at 20-24 to average parity at 25-29 (*PAR 2*).

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NOTES

¹ The mean age of the weighted average of two schedules is the weighted average of the two means. The variance of the weighted average of two schedules *with the same mean* is the weighted average of the two variances. It is for this reason that the variance rather than the standard deviation is used for interpolation. However, the variance of the weighted average of two schedules with means that differ by 1.0, and the same variance, exceeds the common variance by $(W_1)(1 - W_1)$, where W_1 and $(1 - W_1)$ are the weights employed in interpolating for the mean age. (These statements can be verified by calculating the mean and variance of $Wf_1(x) + (1 - W)f_2(x)$.) Therefore, the variance of the interpolated schedule is slightly too large, and the weight W_2 should be modified by an increment $(W_1)(1 - W_1)/(\hat{\sigma} + 0.25)$ since the difference between $\hat{\sigma}^2$ and $(\hat{\sigma} + 0.25)^2$ is $\hat{\sigma} + 0.25$. W_2 should be increased in this amount if position 2 is associated with the smaller variance; otherwise W_2 should be decreased by this increment. W_0 should also be readjusted so that the weights still add to 1.0.

² It is always possible to match the observed R_1 exactly by employing a weighted average of two schedules at one of the three positions, choosing the weights so that, for example, $W_0(R_1)_0 + W_1(R_1)_1 + W_2(R_1)_2 = R_1$, where $(R_1)_2$ is from a schedule at position 2 that is the weighted average of two schedules at that position. $(R_1)_2$ is chosen to equal $(R_1 - W_0(R_1)_0 - W_1(R_1)_1)/W_2$.

³ See Note 1.

APPENDIX A: Program for Computing a Model Fertility Schedule with Specified Values of a_0 , k , and m

This program in FORTRAN IV is self-contained, incorporating single-year values of $n(a)$ and $v(a)$, and including the calculations of $G(a)$ from a standard schedule of first marriage frequencies. The only data required are values of a_0 , k , and m (designated as AAA, AKK, and AMM in the only READ statement).

The values of $-v(a)$ and $n(a)$, natural fertility, begin at age 12.5 and extend to age 49.5 by simply listing 38 numbers.

No attempt was made to achieve elegance in programming. The program has the virtue that it has been debugged, and for all but expert programmers will save time.

```

DIMENSION EM2(38),ZS(42),ZSS(500),H(38),V(38)
DIMENSION F(38),T(7),RR(5),CQ(9)
C
C     V(A), CENTERED ON THE MIDPOINT OF EACH YEAR OF AGE
DATA V/0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,00, .03, .06, .10, .15, .20, .25, .31,
1   .37, .44, .52, .60, .68, .76, .83, .90, .97, 1.04, 1.11, 1.18, 1.25,
1   1.32, 1.39, 1.46, 1.53, 1.59, 1.64, 1.67, 1.69, 1.70/
C
C     NATURAL FERTILITY, CENTERED ON THE MIDPOINT OF EACH YEAR OF AGE
DATA H/.175, .225, .275, .325, .375, .421, .460, .475, .475, .470,
1   .465, .460, .455, .449, .442, .435, .428, .420, .410, .400, .389,
1   .375, .360, .343, .325, .305, .280, .247, .207, .167, .126, .087,
1   .055, .035, .021, .011, .003/
REAL*8 CQ/PT1, PT2, PT3, PAR1, PAR2, 12, 13,
1 14, 10-14/
REAL*8 C(48) / MEAN, STDEV, R1, A0, K, N,
115, 16, 17, 18, 19, 15-19, 20,
11, 22, 23, 24, 20-24, 25, 26, 27, 28
1, 29, 25-29, 30, 31, 32, 33, 34, 30-34,
1 35, 36, 37, 38, 39, 35-39, 40, 41,
1 42, 43, 44, 40-44, 45, 46, 47, 48,
1 49, 45-49/
97 FORMAT(1H1,A5,5X,F8.4)
99 FORMAT(1X,A5,5X,F8.4)
888 FORMAT(3F10.4)
98 FORMAT(35(1X,A5,5X,F10.8/))
95 FORMAT(1X,A5,5X,F10.8)
DO 1234 L=1,38
1234 V(L)=-V(L)
DO 637 I=1,80
637 ZSS(I)=0.0
999 CONTINUE
READ(5,888,END=3) AAA ,AKK ,AMM
C
C     THE SECTION THROUGH STATEMENT 5 ESTABLISHES THE CUMULATIVE OF
C     THE CUMULATIVE EVER MARRIED SCHEDULE BY 0.1 YEAR INTERVALS WITH
C     ZERO ORIGIN
DO 73 J=1,420
73 ZS(J)=0.0
X=0.0
ZL=G(X,AKK)
DO 5 I=1,420
AI=I
X=AI/10.0
ZU=G(X,AKK)
ZS(I)=0.1*((ZU+ZL)/2.0)
ZL=ZU
IF(I.GT.1) ZS(I)=ZS(I)+ZS(I-1)
5 CONTINUE
C
C     THE SECTION THROUGH STATEMENT 4 TRANSFERS THE ORIGIN TO A0
DO 9 I=81,500
9 ZSS(I)=0.0
J=10.0+AAA
LAST=500-J
DO 4 I=1, LAST
J=J+1
ZSS(J)=ZS(I)
4 CONTINUE
C
C     BY AVERAGING THE CUMULATIVE OF THE CUMULATIVE EVER MARRIED
C     SCHEDULE FOR THE 100 VALUES IN EACH SINGLE YEAR OF AGE, THE
C     AVERAGE EVER MARRIED FOR EACH YEAR OF AGE IS ESTABLISHED
DO 25 I2=1,38
I12=120+10*I2

```

```

W=0.0
DO 24 K=1,10
24 W=W+0.5*(ZSS(II2-K+1)+ZSS(II2-K))
25 EM2(I2)=W/10.0
58 DO 35 I2=1,38
35 F(I2)=EM2(I2)*H(I2)*EXP(AMM *V(I2))
C
C THE 15-19 SECTION OF THE AGE SPECIFIC FERTILITY SCHEDULE
C ESTABLISHED IN STATEMENT 35 IS NOW TRANSFORMED BY FITTING
C AN EXPONENTIAL HAVING CONTACT WITH THE AGE AXIS AT AGE 15 AND
C ORDINATE AT AGE 20 AND AREA UNDER THE CURVE FROM 15-19 EQUAL
C TO THAT OF THE ORIGINAL 15-19 SECTION. THIS TRANSFORMATION IS
C NOT PERFORMED UNLESS A0 IS GREATER THAN 15
DO 1 IL=1,7
BB=0.0
DO 2 JL=1,5
KL=JL+5*(IL-1)+3
2 BB=BB+F(KL)
1 T(IL)=BB/5.0
FIRST=(F(1)+F(2)+F(3))/5.0
IF(AAA .LT. 15.0) GO TO 289
TT=T(1)*5.0
FR=.476*ZSS(200)
SS=FR*5.0/TT-1.0
CONS=FR/(5.0**SS)
A=1.0
DO 44 ML=1,5
RR(ML)=A**((SS+1.0)/(SS+1.0))*CONS
44 A=A+1.
F(4)=RR(1)
DO 46 M=2,5
L=M+3
46 F(L)=RR(M)-RR(M-1)
289 CONTINUE
C
C THE SECTION THROUGH STATEMENT 37 ESTABLISHES THE MEAN, VARIANCE,
C THE 3 PARITIES, AND R1
SUMP=0.
DO 222 I2=1,38
222 SUMP=F(I2)+SUMP
DO 333 J=1,7
333 T(J)=T(J)/SUMP
FIRST=FIRST/SUMP
SUM=0.
SUMSQ=0.
A=12.5
DO 33 I2=1,38
F(I2)=F(I2)/SUMP
SUM=SUM+A*F(I2)
SUMSQ=SUMSQ+A*A*F(I2)
33 A=A+1.0
SIGMA=(SUMSQ-SUM*SUMP)-1.0/12.0
SIGMA=SQRT(SIGMA)
SMEAN=SUM
Q1=(4.5*F(4)+3.5*F(5)+2.5*F(6)+1.5*F(7)+.5*F(8))/5.0+.5*FIRST
Q2=(4.5 * F(9) + 3.5 * F(10) + 2.5 * F(11) + 1.5 * F(12) + .5 *
1 F(13)) / 5.0 + 5.0*(T(1) +FIRST)
Q3=(4.5 * F(14) + 3.5 * F(15) + 2.5 * F(16) + 1.5 * F(17) +
1.5 * F(18)) / 5.0 + 5.0*(T(1) + T(2) +FIRST)
PAR1=Q1/Q2
PAR2=Q2/Q3
37 R1=T(1)/T(2)
PRINT 97,C(1),SMEAN
PRINT 99,C(2),SIGMA
PRINT 99,C(3),R1
PRINT 99,C(4),AAA
PRINT 99,C(5),AKK
PRINT 99,C(6),AMM
PRINT 99,CQ(4),PAR1
PRINT 99,CQ(5),PAR2
PRINT 99,CQ(1),Q1
PRINT 99,CQ(2),Q2
PRINT 99,CQ(3),Q3
PRINT95,CQ(6),P(1)
PRINT95,CQ(7),P(2)
PRINT98,CQ(8),P(3)
PRINT98,CQ(9),FIRST
K=3
DO 102 IN=1,7
N=IN*5 +3
M=N-4
PRINT 99,((C(J+K),F(J)),J=M,N)
PRINT 99,C(N+K+1),T(IN)
102 K=K+1
GO TO 999
3 STOP
END
FUNCTION G(X,AKK)
CONS=0.19465/AKK
B=0.1740/AKK
W=0.2881/AKK
G =CONS*EXP(-B*(X-6.06*AKK))-EXP(-W*(X-6.06*AKK))
RETURN
END

```

APPENDIX B: Model Fertility Schedules

The model fertility schedules have been normalized so that total fertility equals 1.0. The rates given in each schedule are age-specific rates per million women in each age interval. These rates are cumulated and divided by 5 for each five-year age interval to provide an average fertility rate for each interval. The tables are arranged by groups of ascending means and subgroups of ascending standard deviation. Within each subgroup of a given mean and standard deviation, R_1 is strictly monotonic. The first ten entries for each schedule are defined as follows:

- 1) $MEAN = \sum_{12.5}^{49.5} a f(a)$
- 2) $STDEV = \sqrt{(\sum_{12.5}^{49.5} a^2 f(a)) - MEAN^2 - 1/12}$
- 3) $R1 = \sum_{15.5}^{19.5} f(a) / \sum_{20.5}^{24.5} f(a)$
- 4) $MED = \hat{a}$ such that $\sum_{12.5}^{\hat{a}} f(a) = 0.5$
- 5) $SKEW = \sum_{12.5}^{49.5} (a - MEAN)^3 f(a) / STDEV^3$
- 6) PAR 1 = average parity (15-19) / average parity (20-24)
- 7) PAR 2 = average parity (20-24) / average parity (25-29)
- 8) AO = first age of marriage in the nuptiality function
- 9) K = a scale factor, or the time interval after AO during which any given proportion of marriages takes place relative to the standard nuptiality schedule, where K = 1
- 10) M = degree of control of fertility relative to the standard fertility schedule (m in equation (4)).

HEAD	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
STDEV	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5
RT	0.2221	0.2299	0.2388	0.2464	0.2541	0.2599	0.2665	0.2768	0.2805	0.3553	0.3607	0.3662	0.3711	0.3891	0.3922
MED	23.17	23.22	23.26	23.29	23.32	23.35	23.37	23.38	23.40	23.09	23.12	23.16	23.19	23.20	23.22
SKEW	1.139	1.100	1.061	1.024	0.989	0.957	0.928	0.920	0.890	1.061	1.035	1.009	0.984	0.989	0.958
PAR1	0.0583	0.0635	0.0687	0.0734	0.0779	0.0816	0.0854	0.0853	0.0889	0.1024	0.1073	0.1120	0.1162	0.1147	0.1199
PAR2	0.5086	0.5051	0.5027	0.5004	0.4988	0.4969	0.4960	0.4968	0.4954	0.5442	0.5416	0.5393	0.5369	0.5390	0.5370
AO	17.23	16.85	16.48	16.14	15.81	15.52	15.24	14.94	14.71	16.46	16.03	15.62	15.23	14.78	14.46
K	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.200	0.250	0.300	0.350	0.400	0.450
M	3.461	3.516	3.576	3.639	3.706	3.773	3.842	3.888	3.960	2.907	2.942	2.981	3.024	3.039	3.091
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	1	19	0	0	0	11	91
10-14	0	0	0	0	0	0	0	0	4	0	0	0	0	2	18
15	95	166	265	380	515	649	804	653	1015	1263	1610	1980	2345	1321	2204
16	1976	2707	3529	4325	5128	5832	6571	5337	6255	9239	10492	11679	12738	9873	11589
17	10496	12370	14217	15798	17258	18414	19585	19174	20807	25750	27279	28617	29720	30373	31299
18	32600	34565	36379	37759	38968	39790	40669	43808	43792	51066	51578	51964	52198	58174	57222
19	76668	74977	73793	72714	71874	70978	70390	72869	71758	85356	83160	81259	79598	82753	80792
15-19	24367	24957	25637	26195	26749	27133	27604	28368	28581	34535	34824	35100	35320	36499	36603
20	120304	115163	110990	107530	104696	102220	100235	98540	96999	110386	107100	104146	101563	99050	97228
21	124073	121536	118989	116663	114571	112692	111049	109310	108066	108322	106991	105537	104118	102020	100933
22	116261	116021	115355	114586	113738	112933	112116	110901	110311	100684	100681	100452	100115	98746	98445
23	102189	103115	103620	103946	104074	104165	104099	103524	103543	89584	90208	90672	91024	90321	90578
24	85739	86968	87919	88737	89360	89939	90317	90228	90615	76957	77737	78454	79107	78866	79400
20-24	109713	108501	107374	106292	105288	104390	103563	102500	101907	97186	96544	95852	95185	93801	93317
25	71580	72738	73746	74691	75488	76265	76850	77064	77635	65939	66674	67418	68147	68178	68812
26	59499	60447	61331	62206	62985	63773	64399	64761	65377	56308	56921	57585	58267	58436	59058
27	47618	48283	48927	49591	50200	50839	51352	51718	52231	46572	47019	47526	48068	48277	48783
28	38087	38519	38947	39408	39840	40313	40692	41010	41399	38503	38807	39170	39571	39774	40154
29	29415	29645	29875	30136	30382	30672	30894	31121	31357	30909	31084	31307	31562	31728	31966
25-29	49240	49926	50565	51206	51779	52372	52838	53135	53600	47646	48101	48601	49123	49279	49755
30	21886	21964	22040	22139	22231	22362	22446	22577	22677	24038	24109	24214	24343	24461	24572
31	16198	16186	16169	16169	16165	16194	16191	16254	16265	18596	18627	18669	18669	18748	18771
32	11982	11920	11853	11797	11739	11708	11655	11673	11634	14378	14341	14319	14306	14354	14321
33	8834	8750	8661	8578	8494	8432	8355	8346	8281	11081	11022	10971	10926	10952	10886
34	6684	6595	6501	6411	6320	6248	6166	6144	6072	8715	8648	8585	8525	8538	8458
30-34	13117	13083	13045	13019	12990	12989	12962	12999	12986	15362	15344	15343	15354	15411	15402
35	5036	4950	4859	4771	4683	4609	4529	4501	4430	6826	6757	6690	6623	6627	6543
36	3766	3637	3604	3524	3443	3374	3300	3271	3205	5306	5239	5173	5107	5105	5022
37	2801	2732	2659	2588	2517	2456	2391	2363	2305	4102	4040	3979	3916	3910	3833
38	2063	2004	1943	1883	1823	1770	1715	1691	1641	3141	3086	3031	2974	2967	2898
39	1486	1439	1389	1340	1291	1248	1204	1183	1143	2352	2306	2258	2209	2202	2143
35-39	3031	2962	2891	2821	2751	2691	2628	2602	2545	4345	4286	4226	4166	4162	4088
40	1029	992	954	916	879	845	812	795	765	1693	1655	1617	1577	1570	1523
41	677	650	622	595	568	544	520	508	486	1158	1129	1100	1070	1064	1028
42	429	410	391	372	354	337	321	312	297	762	741	720	698	694	668
43	254	242	230	218	206	195	185	179	170	469	455	441	426	423	406
44	138	131	123	116	110	104	98	94	89	264	256	247	238	236	226
40-44	505	485	464	443	423	405	387	378	361	869	847	825	802	797	770
45	71	67	63	59	55	52	49	47	44	140	136	131	126	124	119
46	38	36	34	31	29	28	26	25	23	77	74	72	69	68	65
47	20	19	18	17	16	15	14	13	12	42	41	39	38	37	35
48	10	9	9	8	8	7	7	6	6	21	20	19	19	18	17
49	3	2	2	2	2	2	2	2	2	6	5	5	5	5	5
45-49	28	27	25	24	22	21	19	19	17	57	55	53	51	51	48

RR5A	24-0	24-0	24-0	24-0	24-0	24-0	24-0	24-0	24-0	25-0	25-0	25-0	25-0	25-0	25-0
STDSV	5.5	5.5	5.5	5.5	5.5	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0
RD	0.5183	0.7126	0.7007	0.6892	0.6774	0.6667	0.6567	0.6463	0.6359	0.6256	0.6152	0.6048	0.5944	0.5840	0.5736
SKW	23.22	22.90	22.93	22.95	22.92	22.86	22.82	22.79	22.74	22.64	22.53	22.42	22.32	22.22	22.12
PAR1	0.8521	0.2067	0.2112	0.2159	0.2199	0.2238	0.2276	0.2314	0.2351	0.2387	0.2424	0.2461	0.2497	0.2534	0.2570
PAR2	0.5630	0.6111	0.6084	0.6057	0.6029	0.6003	0.5976	0.5949	0.5922	0.5895	0.5867	0.5840	0.5813	0.5785	0.5758
AO	12.43	14.40	13.92	13.47	13.03	12.62	12.24	11.89	11.55	11.23	10.94	10.67	10.42	10.18	9.95
K	0.600	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850
H	2.697	2.023	2.043	2.066	2.093	2.120	2.147	2.174	2.201	2.228	2.254	2.281	2.308	2.335	2.362
12	36	0	0	0	0	18	0	0	0	0	0	0	0	0	0
13	737	0	1	92	400	926	511	1691	0	0	0	0	0	0	0
14	3859	344	1458	3078	4681	6102	9606	11979	0	0	0	0	0	0	0
10-14	926	69	292	634	1016	1409	2024	2736	0	0	0	0	0	0	0
15	11586	10104	13312	15565	17016	18031	29763	29356	0	1	3	8	17	29	45
16	24757	36019	35798	35223	35114	34724	48285	46232	33	98	214	362	558	767	990
17	42039	60154	57512	55450	53718	52284	67901	59663	730	1399	2229	3033	3913	4708	5452
18	60850	76142	73682	71502	69579	67910	70789	69575	8834	8834	11193	13207	14798	16193	17376
19	76304	83292	81921	80487	79109	77810	74566	74128	33071	35878	38082	38294	40475	41176	41679
15-19	43105	53142	52445	51705	50907	50150	56988	55791	8036	9242	10344	11145	11952	12575	13108
20	86831	84932	84537	83947	83296	82602	75005	75071	87379	84298	82033	79814	78237	76731	75411
21	88704	91021	91217	91239	91176	91019	91711	92036	116479	111931	108262	105069	102489	100224	98251
22	86748	75751	76231	76605	76923	77148	67526	67956	123431	120782	118314	116130	114147	112404	110833
23	80968	69236	69795	70315	70820	71256	62451	62891	115724	114373	113653	112798	111245	110445	109331
24	72565	61946	61946	62870	62999	63547	64054	66757	57153	50835	44922	39430	34075	29129	24520
20-24	83171	74577	74850	75021	75152	75216	66690	67021	108770	106737	104962	103365	101977	100739	99622
25	64399	55395	55849	56332	56855	57362	51568	51908	86203	87362	88238	89132	89733	90327	90834
26	56622	49412	49786	50199	50663	51128	46774	47023	72852	74075	75107	76193	77029	77863	78619
27	48096	43084	43367	43687	44058	44440	41549	41767	59172	60181	61078	62052	62839	63636	64390
28	40692	37556	37761	37997	38280	38580	36924	37086	47943	48697	49389	50169	50818	51488	52127
29	33411	32073	32204	32358	32551	32760	32251	32361	37542	38019	38462	38990	39430	39894	40346
25-29	48644	43504	43793	44115	44481	44854	41807	42029	60742	61667	62455	63307	63970	64642	65261
30	26579	26771	26838	26919	27028	27152	27622	27684	28358	28598	28816	29104	29337	29593	29848
31	21003	22229	22249	22276	22323	22381	23534	23559	21304	21385	21451	21573	21660	21767	21881
32	16568	18446	18433	18422	18423	18434	20039	20036	15992	15976	15948	15962	15955	15965	15986
33	13017	15259	15233	15186	15156	15133	17008	16986	11895	11895	11813	11764	11702	11655	11618
34	10408	12767	12720	12668	12621	12577	14556	14522	9171	9076	8973	8895	8809	8736	8674
30-34	17515	19094	19092	19094	19110	19135	14556	20557	17358	17358	17400	17460	17492	17543	17601
35	8284	10638	10584	10523	10465	10410	12405	12363	6999	6896	6786	6695	6600	6516	6442
36	6542	8798	8740	8676	8612	8550	10492	10447	5302	5200	5093	5001	4906	4821	4745
37	5136	7235	7178	7114	7049	6984	8826	8778	3993	3899	3801	3714	3626	3546	3473
38	3933	5894	5839	5777	5714	5651	7306	7306	2979	2896	2810	2732	2654	2582	2517
39	3036	4696	4646	4589	4531	4472	5932	5948	2174	2104	2032	1965	1900	1839	1784
35-39	5398	7452	7397	7336	7274	7213	9014	8968	4290	4199	4104	4021	3937	3861	3792
40	2218	3596	3552	3503	3452	3401	4693	4653	1525	1469	1412	1359	1307	1259	1215
41	1540	2616	2580	2540	2499	2457	3491	3458	1016	974	932	892	854	818	786
42	1029	1824	1804	1774	1741	1709	2501	2474	652	622	592	564	537	512	489
43	643	1199	1180	1158	1135	1111	1675	1656	391	371	352	334	316	300	285
44	367	719	706	692	677	662	1014	1014	215	203	191	180	170	160	152
40-44	1159	1992	1964	1933	1901	1868	2677	2651	760	728	696	666	637	610	585
45	198	402	395	386	377	368	586	578	111	105	99	93	87	82	77
46	110	231	227	222	216	211	343	338	60	57	53	49	46	43	41
47	61	131	128	125	122	119	195	192	33	31	29	27	25	23	22
48	30	66	64	63	61	60	99	97	16	16	15	14	13	12	11
49	8	18	17	17	16	16	27	26	4	4	4	3	3	3	3
45-49	81	170	166	163	159	155	250	246	45	42	40	37	35	33	31

MBAN	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
STDEV	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
R1	0.1383	0.1441	0.1490	0.1551	0.1677	0.1789	0.1898	0.2001	0.2084	0.2159	0.2225	0.2293	0.2369	0.2416	0.2453
HED	24.40	24.42	24.44	24.01	24.06	24.11	24.15	24.18	24.21	24.24	24.27	24.29	24.31	24.33	24.36
SKEW	0.904	0.877	0.853	1.112	1.079	1.046	1.014	0.984	0.956	0.929	0.904	0.881	0.869	0.847	0.826
PAB1	0.0458	0.0487	0.0512	0.0400	0.0462	0.0519	0.0575	0.0627	0.0673	0.0714	0.0751	0.0788	0.0796	0.0832	0.0863
PAB2	0.4005	0.4004	0.4001	0.4567	0.4543	0.4523	0.4510	0.4503	0.4492	0.4483	0.4475	0.4472	0.4476	0.4470	0.4462
AO	16.11	15.92	15.74	17.58	17.19	16.81	16.46	16.13	15.83	15.55	15.30	15.05	14.80	14.59	14.39
K	0.600	0.650	0.700	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750
H	3.781	3.856	3.931	2.678	2.721	2.768	2.818	2.870	2.923	2.978	3.034	3.089	3.136	3.194	3.250
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	8	36	84
10-14	0	0	0	0	0	0	0	0	0	0	0	0	2	7	17
15	65	88	112	12	33	68	122	193	274	365	461	570	674	953	1231
16	1235	1478	1706	517	931	1424	1992	2602	3178	3741	4274	4820	4321	4968	5524
17	6201	6871	7456	4310	5983	7570	9107	10547	11749	12822	13760	14674	14371	15099	15654
18	18505	19439	20193	18430	21268	23519	25457	27105	28315	29318	30130	30920	32619	32857	32949
19	42209	42566	42770	55394	55462	55324	55240	55159	54875	54594	54292	54113	55586	55055	54483
15-19	13643	14088	14447	15733	16735	17581	18383	19121	19678	20168	20583	21019	21514	21786	21968
20	74409	73477	72590	100636	95674	91718	88605	86093	83904	82057	80456	79150	78042	77000	76001
21	96615	95156	93835	111358	107946	104833	102095	99711	97612	95779	94157	92757	91447	90358	89333
22	109439	108191	107069	108836	107698	106355	104938	103549	102278	101105	100025	99028	97980	97210	96488
23	110584	109921	109327	99433	99740	99753	99514	99131	98751	98342	97928	97482	96883	96551	96242
24	102199	102103	102028	87013	87926	88636	89100	89380	89623	89782	89887	89894	89714	89751	89794
20-24	98649	97770	96970	101455	99797	98259	96850	95573	94434	93413	92491	91662	90813	90174	89572
25	91184	91512	91834	75635	76687	77654	78440	79072	79672	80178	80620	80941	81079	81384	81689
26	79219	79790	80348	65411	66385	67359	68223	68980	69626	70396	71009	71505	71846	72308	72774
27	64991	65580	66159	54877	55646	56458	57213	57906	58609	59258	59868	60378	60779	61254	61738
28	52664	53188	53707	46006	46574	47200	47802	48373	48971	49534	50075	50537	50933	51365	51814
29	40726	41100	41475	37532	37900	38324	38738	39141	39577	39994	40401	40750	41073	41400	41748
25-29	65757	66234	66704	55892	56638	57399	58083	58694	59311	59872	60395	60822	61142	61542	61953
30	30055	30263	30475	29729	29926	30165	30401	30635	30902	31160	31416	31633	31853	32054	32277
31	21964	22052	22146	23424	23502	23611	23716	23824	23961	24096	24235	24347	24482	24583	24708
32	15988	15996	16012	18445	18445	18465	18481	18501	18547	18593	18647	18683	18752	18782	18834
33	11572	11533	11501	14478	14429	14393	14352	14315	14299	14286	14280	14265	14287	14268	14270
34	8607	8547	8495	11571	11498	11432	11362	11295	11246	11200	11163	11120	11115	11072	11047
30-34	17637	17678	17726	19529	19560	19613	19662	19714	19791	19867	19948	20010	20098	20152	20227
35	6366	6298	6236	9209	9124	9042	8956	8873	8805	8740	8684	8625	8602	8543	8501
36	4669	4600	4537	7274	7185	7098	7006	6917	6840	6767	6701	6634	6600	6535	6485
37	3402	3338	3278	5714	5628	5541	5451	5362	5284	5208	5140	5071	5033	4967	4914
38	2454	2397	2344	4446	4365	4284	4200	4117	4042	3970	3904	3838	3799	3736	3685
39	1731	1683	1638	3384	3312	3240	3165	3092	3024	2959	2900	2841	2804	2748	2701
35-39	3725	3663	3607	6005	5923	5841	5756	5672	5599	5529	5465	5402	5367	5306	5257
40	1173	1135	1100	2474	2415	2355	2292	2231	2174	2120	2069	2020	1988	1941	1902
41	755	727	701	1719	1673	1626	1577	1530	1485	1442	1403	1365	1339	1303	1271
42	468	448	430	1150	1116	1081	1045	1009	976	945	915	887	868	841	818
43	271	258	247	719	696	672	647	623	600	579	559	539	526	508	492
44	144	136	129	412	397	382	367	352	338	324	312	300	292	281	271
40-44	562	541	521	1295	1259	1223	1186	1149	1115	1082	1052	1022	1002	975	951
45	72	68	65	222	213	205	196	187	179	172	164	158	153	146	141
46	38	36	34	123	118	113	108	103	99	94	90	86	83	79	76
47	20	19	18	68	65	63	60	57	54	52	49	47	45	43	42
48	10	9	9	34	32	31	30	28	27	25	24	23	22	21	20
49	3	2	2	9	9	8	8	7	7	7	6	6	6	6	5
45-49	29	27	26	91	88	84	80	77	73	70	67	64	62	59	57

MEAN	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
STDEV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
R1	0.2932	0.3014	0.3087	0.3173	0.3317	0.3362	0.3401	0.3443	0.3498	0.3521	0.3544	0.3557	0.3569	0.4387	
MED	23.97	24.01	24.05	24.08	24.10	24.13	24.16	24.19	24.21	24.24	24.26	24.28	24.30	24.32	23.89
SKEW	0.986	0.963	0.940	0.918	0.915	0.891	0.868	0.847	0.826	0.807	0.789	0.772	0.756	0.741	0.906
PAR1	0.0882	0.0938	0.0988	0.1041	0.1034	0.1086	0.1133	0.1179	0.1221	0.1257	0.1292	0.1326	0.1354	0.1381	0.1363
PAR2	0.5000	0.4979	0.4958	0.4947	0.4961	0.4944	0.4928	0.4917	0.4906	0.4893	0.4883	0.4876	0.4866	0.4858	0.5421
AO	16.34	15.92	15.54	15.18	14.77	14.46	14.18	13.89	13.63	13.39	13.16	12.95	12.74	12.55	15.89
K	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.200
H	2.268	2.301	2.336	2.373	2.396	2.439	2.483	2.527	2.572	2.617	2.662	2.707	2.750	2.795	1.867
12	0	0	0	0	0	0	0	0	0	0	0	0	5	17	0
13	0	0	0	0	0	0	0	1	18	54	113	194	285	385	0
14	0	0	0	0	10	69	190	380	608	853	1113	1379	1627	1869	0
10-14	0	0	0	0	2	14	38	76	125	181	245	315	384	454	0
15	662	904	1157	1455	974	1582	2218	2870	3475	4014	4521	4992	5386	5748	3494
16	5805	6871	7843	8875	7032	8306	9368	10318	11090	11703	12249	12737	13103	13431	15402
17	18054	19605	20883	22186	22326	23194	23820	24374	24761	25008	25231	25436	25526	25612	31827
18	38609	39508	40134	40839	44937	44500	44057	43732	43380	42995	42677	42417	42090	41817	51480
19	68331	66845	65511	64524	66956	65487	64200	63152	62201	61315	60555	59908	59249	58685	73779
15-19	26292	26747	27106	27576	28445	28614	28733	28889	28981	29007	29047	29098	29071	29059	35196
20	93270	90189	87528	85310	83400	81735	80264	79013	77895	76876	75979	75202	74443	73788	87996
21	96843	95003	93252	91613	89856	88608	87470	86450	85532	84693	83931	83254	82601	82031	86532
22	93898	93287	92584	91770	90547	89923	89322	88739	88208	87722	87258	86832	86426	86070	82161
23	86827	87020	87087	86955	86299	86228	86126	85972	85832	85705	85558	85409	85273	85153	75901
24	77561	78138	78628	78916	78599	78994	79238	79396	79543	79688	79787	79856	79936	80005	68569
20-24	89680	88727	87816	86913	85760	85098	84484	83914	83402	82937	82503	82111	81736	81409	80232
25	68879	69586	70259	70765	70837	71344	71800	72161	72503	72835	73111	73343	73587	73803	61846
26	60853	61550	62257	62838	63075	63672	64229	64698	65147	65586	65969	66304	66653	66966	55617
27	52355	52942	53566	54103	54395	54961	55501	55965	56415	56858	57252	57599	57966	58293	48958
28	45001	45464	45976	46430	46723	47217	47697	48116	48525	48934	49301	49628	49978	50289	43081
29	37789	38115	38490	38826	39075	39452	39826	40152	40473	40798	41091	41351	41636	41885	37196
25-29	52975	53532	54110	54592	54821	55329	55810	56218	56613	57002	57345	57645	57964	58247	49339
30	30935	31132	31371	31583	31768	32016	32266	32481	32695	32915	33113	33285	33482	33649	31438
31	25189	25283	25422	25536	25663	25806	25955	26078	26203	26335	26453	26551	26675	26772	26432
32	20498	20528	20584	20625	20703	20766	20837	20889	20945	21009	21064	21105	21169	21213	22211
33	16626	16609	16610	16599	16640	16645	16658	16663	16675	16684	16682	16673	16670	16670	18604
34	13675	13630	13599	13558	13574	13544	13523	13492	13467	13450	13431	13405	13400	13381	15737
30-34	21385	21437	21517	21580	21670	21755	21847	21920	21995	22077	22149	22206	22286	22344	22884
35	11201	11139	11086	11026	11025	10971	10926	10875	10829	10791	10753	10711	10688	10653	13257
36	9105	9034	8970	8899	8885	8818	8758	8695	8636	8585	8536	8484	8448	8404	11084
37	7361	7287	7217	7142	7121	7047	6980	6911	6846	6788	6733	6677	6634	6586	9216
38	5894	5821	5751	5677	5651	5577	5508	5439	5373	5314	5257	5200	5155	5106	6589
39	4616	4549	4484	4414	4388	4317	4252	4186	4124	4067	4013	3960	3916	3869	7114
35-39	7635	7566	7502	7432	7414	7346	7285	7221	7162	7109	7059	7006	6968	6924	9452
40	3474	3416	3358	3298	3273	3211	3153	3095	3041	2990	2943	2896	2857	2816	4733
41	2484	2437	2390	2341	2320	2269	2221	2174	2130	2088	2049	2011	1979	1945	3480
42	1710	1674	1637	1600	1582	1543	1507	1470	1436	1404	1374	1344	1319	1293	2464
43	1101	1075	1049	1022	1010	982	955	930	905	882	861	840	822	804	1631
44	648	632	615	598	589	571	555	538	522	507	494	480	469	457	988
40-44	1884	1847	1810	1772	1755	1715	1678	1641	1607	1574	1544	1514	1489	1463	2659
45	358	348	338	328	323	312	302	292	283	274	266	258	252	245	559
46	203	197	191	185	182	176	170	164	158	153	148	144	140	136	324
47	114	110	107	103	102	98	95	91	88	85	82	79	77	75	184
48	57	55	54	52	51	49	47	45	44	42	41	39	38	37	93
49	15	15	14	14	14	13	13	12	12	11	11	10	10	10	25
45-49	149	145	141	136	134	130	125	121	117	113	110	106	103	100	237

MEAN	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
STDEV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
R1	0.2257	0.2299	0.2338	0.2368	0.2402	0.2426	0.2455	0.2480	0.2496	0.2516	0.2539	0.2554	0.2571	0.2585	0.2596
RD	25.28	25.30	25.32	25.34	25.35	25.37	25.38	25.39	25.41	25.42	25.43	25.44	25.44	25.45	25.46
SKBW	0.759	0.744	0.729	0.715	0.702	0.690	0.679	0.668	0.658	0.648	0.640	0.631	0.623	0.616	0.609
PAR1	0.0836	0.0868	0.0898	0.0924	0.0951	0.0974	0.0998	0.1020	0.1038	0.1057	0.1076	0.1091	0.1107	0.1122	0.1134
PAR2	0.4136	0.4134	0.4134	0.4130	0.4131	0.4127	0.4128	0.4129	0.4125	0.4124	0.4127	0.4125	0.4125	0.4125	0.4123
AO	14.34	14.16	13.98	13.84	13.68	13.55	13.42	13.31	13.21	13.10	13.00	12.93	12.84	12.78	12.72
K	0.800	0.850	0.900	0.950	1.000	1.050	1.100	1.150	1.200	1.250	1.300	1.350	1.400	1.450	1.500
H	2.565	2.612	2.658	2.705	2.751	2.797	2.841	2.885	2.929	2.971	3.012	3.054	3.094	3.135	3.174
12	0	0	0	0	0	0	0	0	0	0	1	2	5	8	
13	0	0	0	3	12	25	45	69	93	123	158	190	225	258	288
14	86	149	227	310	403	491	587	681	764	852	944	1022	1102	1177	1244
10-14	17	30	45	63	83	103	126	150	172	195	220	242	266	288	308
15	1064	1299	1533	1744	1964	2155	2353	2538	2688	2845	3007	3135	3268	3388	3491
16	4513	4942	5339	5664	6000	6266	6544	6794	6979	7177	7386	7536	7697	7837	7951
17	12506	12957	13361	13652	13977	14200	14453	14674	14803	14965	15151	15258	15388	15496	15570
18	26217	26396	26558	26608	26737	26762	26851	26922	26891	26922	26997	26987	27016	27032	27010
19	43593	43325	43095	42793	42619	42367	42212	42064	41828	41678	41591	41431	41324	41219	41077
15-19	17579	17784	17977	18092	18259	18350	18482	18598	18638	18717	18827	18870	18939	18994	19020
20	61593	60961	60409	59835	59407	58941	58583	58255	57864	57570	57344	57071	56853	56653	56421
21	74557	73784	73096	72422	71872	71319	70855	70432	69976	69605	69289	68958	68670	68413	68129
22	83156	82488	81881	81305	80806	80326	79898	79508	79111	78770	78462	78164	77891	77653	77392
23	86172	85743	85344	84978	84635	84321	84019	83743	83478	83236	82999	82794	82589	82417	82228
24	84007	83841	83674	83537	83377	83251	83100	82962	82849	82728	82588	82490	82373	82282	82181
20-24	77897	77363	76881	76415	76020	75632	75291	74980	74656	74382	74136	73895	73675	73483	73270
25	79762	79837	79890	79971	79996	80055	80065	80075	80120	80132	80107	80130	80119	80126	80128
26	74074	74337	74567	74822	75003	75218	75368	75511	75694	75827	75913	76048	76144	76243	76346
27	65892	66239	66549	66884	67138	67425	67645	67852	68103	68297	68440	68630	68777	68924	69081
28	57931	58308	58650	59018	59305	59624	59878	60119	60404	60631	60809	61030	61209	61385	61575
29	49195	49530	49835	50165	50422	50710	50940	51158	51419	51626	51791	51991	52157	52315	52494
25-29	65371	65650	65898	66172	66373	66607	66779	66943	67148	67302	67412	67566	67681	67798	67925
30	40335	40585	40812	41061	41249	41465	41635	41794	41993	42144	42265	42412	42534	42645	42781
31	32723	32893	33046	33219	33343	33490	33603	33707	33847	33948	34025	34124	34204	34274	34369
32	26422	26523	26612	26719	26788	26877	26940	26997	27086	27143	27185	27241	27287	27321	27381
33	21197	21242	21279	21333	21357	21399	21422	21442	21488	21510	21522	21542	21562	21569	21600
34	17250	17261	17267	17288	17286	17300	17301	17299	17321	17324	17320	17325	17327	17320	17336
30-34	27585	27700	27803	27924	28004	28106	28180	28248	28347	28414	28463	28529	28583	28626	28693
35	13951	13935	13917	13913	13891	13883	13866	13847	13850	13837	13822	13812	13802	13785	13788
36	11180	11145	11110	11087	11051	11027	10998	10968	10955	10932	10907	10888	10869	10844	10837
37	8899	8851	8806	8770	8725	8691	8654	8617	8594	8564	8534	8507	8483	8453	8439
38	7008	6954	6903	6861	6812	6772	6731	6690	6662	6628	6595	6565	6538	6507	6489
39	5394	5340	5288	5243	5195	5154	5112	5072	5042	5008	4975	4945	4917	4887	4867
35-39	9286	9245	9205	9175	9135	9105	9072	9039	9021	8994	8967	8943	8922	8895	8884
40	3987	3937	3889	3847	3802	3764	3726	3689	3660	3629	3599	3571	3546	3518	3499
41	2798	2755	2715	2679	2642	2609	2577	2546	2521	2494	2470	2446	2425	2402	2385
42	1890	1856	1823	1795	1765	1739	1714	1689	1669	1648	1629	1610	1593	1575	1562
43	1193	1168	1145	1124	1102	1083	1065	1047	1033	1017	1004	990	978	965	955
44	689	673	657	644	630	617	605	594	584	574	565	556	549	540	534
40-44	2111	2078	2046	2017	1988	1962	1937	1913	1893	1873	1853	1835	1818	1800	1787
45	374	364	355	347	338	331	324	317	311	305	300	295	290	285	282
46	209	204	198	193	188	184	179	175	172	168	165	162	159	156	154
47	116	113	110	107	104	101	99	97	95	93	91	89	88	86	85
48	58	56	55	53	52	50	49	48	47	46	45	44	43	43	42
49	15	15	15	14	14	13	13	13	12	12	12	12	12	11	11
45-49	155	150	146	143	139	136	133	130	127	125	123	120	118	116	115

HEAM	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
STDEV	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
R1	0.4455	0.6203	0.6139	0.6064	0.5951	0.5887	0.7947	0.7517	0.7151	0.6826	0.6532	0.0282	0.0308	0.0326	0.0349	0.0369	0.0389	0.0448
RED	23.08	24.79	24.81	24.84	24.90	24.94	24.84	24.86	24.87	24.88	24.89	26.47	26.49	26.50	26.51	26.52	26.53	26.29
SREW	0.1680	0.1845	0.1904	0.1956	0.2016	0.2071	0.2117	0.2659	0.2687	0.2698	0.2708	0.805	0.805	0.805	0.805	0.805	0.805	0.869
PAR1	0.3068	0.5656	0.5650	0.5601	0.5577	0.5530	0.5988	0.5965	0.5965	0.5965	0.5965	0.0100	0.0111	0.0122	0.0133	0.0144	0.0155	0.150
AO	12.45	14.70	14.22	13.76	13.31	12.88	13.38	12.86	12.86	12.86	12.86	17.87	17.87	17.87	17.87	17.87	17.87	17.46
K	0.650	0.200	0.300	0.400	0.500	0.600	0.700	0.800	0.900	1.000	1.100	0.850	0.850	0.850	0.850	0.850	0.850	0.600
B	1.565	1.054	1.067	1.083	1.100	1.119	1.140	0.807	0.817	0.827	0.837	3.777	3.857	3.936	4.016	4.096	4.176	2.773
12	24	0	0	0	0	1	28	0	2	0	0	0	0	0	0	0	0	0
13	480	0	117	390	782	228	228	834	1865	0	0	0	0	0	0	0	0	0
14	2489	35	410	1238	3466	4430	6232	8341	1048	1292	1865	0	0	0	0	0	0	0
10-14	598	7	82	250	771	1048	1292	1865	1048	1292	1865	0	0	0	0	0	0	0
15	7579	4255	6958	9028	10662	11867	12676	21974	22000	22000	22000	0	0	0	0	0	0	0
16	16016	22947	23918	24311	24597	24728	24676	37266	35695	35695	35695	7	11	16	8	18	35	497
17	29017	44274	42441	40936	39808	38869	37996	48266	46645	46645	46645	157	210	263	197	332	497	3108
18	41337	58900	56662	54708	53089	51705	50464	55780	54698	54698	54698	1345	1605	1838	1827	2470	3480	12534
19	53550	65623	64146	62679	61316	60074	58935	58926	58428	58428	58428	6931	7562	8075	10021	11380	12534	3235
15-19	30340	39200	38825	38332	37895	37448	36949	44442	43493	43493	43493	1688	1877	2038	2410	2840	3235	3235
20	64500	67660	67008	66229	65388	64554	63759	59540	59459	59459	59459	22297	22982	23472	24062	24652	25242	33300
21	68969	66385	66294	66069	65717	65309	64896	58428	58440	58440	58440	45007	45007	45007	45007	45007	45007	57426
22	70645	63976	64196	64333	64343	64281	64197	56385	56653	56653	56653	70881	70346	69745	69257	68769	68281	79323
23	69709	60815	61174	61508	61743	61916	62068	54050	54357	54357	54357	91444	91444	90526	89658	88817	88076	93273
24	66665	57125	57519	57933	58281	58586	58882	51368	51671	51671	51671	102866	102866	102014	99819	98705	97683	97683
20-24	68098	63192	63238	63214	63094	62929	62760	55926	56116	56116	56116	66838	66529	66151	74004	73067	72201	72201
25	63030	53624	54007	54437	54830	55201	55577	48806	49088	49088	49088	107604	107044	106545	97167	96802	96442	96442
26	58963	50209	50557	50969	51363	51754	52161	46259	46513	46513	46513	104914	104868	104868	90807	91058	91268	91268
27	53837	46400	46697	47060	47418	47784	48176	43386	43603	43603	43603	94548	94822	94822	80404	80993	81527	81527
28	48921	42868	43113	43423	43734	44060	44418	40680	40862	40862	40862	82482	82954	83426	70001	70734	71417	71417
29	43602	39179	39369	39616	39867	40136	40438	37826	37970	37970	37970	67110	67545	68023	56677	57363	58051	58051
25-29	53670	46456	46749	47101	47442	47787	48154	43391	43607	43607	43607	91222	91307	91442	79411	79790	80133	80133
30	38059	35338	35473	35656	35840	36042	36276	38798	38903	38903	38903	51778	52099	52459	47411	47940	48444	48444
31	32983	31708	31795	31922	32047	32188	32358	31845	31917	31917	31917	39204	39407	39644	37909	38277	38630	38630
32	28525	28433	28482	28560	28635	28723	28837	29126	29168	29168	29168	29540	29592	29660	30183	30409	30628	30628
33	24564	25416	25442	25471	25504	25547	25612	26553	26571	26571	26571	21765	21765	21815	23895	24007	24116	24116
34	21281	22759	22752	22762	22765	22775	22804	24191	24191	24191	24191	16470	16454	16460	19221	19259	19299	19299
30-34	29083	28731	28787	28874	28958	29055	29177	29303	29350	29350	29350	31710	31837	31994	31724	31978	32224	32224
35	18348	20295	20269	20257	20235	20218	20217	21948	21932	21932	21932	12365	12321	12296	15378	15361	15349	15349
36	15692	17961	17922	17892	17851	17813	17788	19762	19735	19735	19735	9118	9118	9074	12200	12146	12097	12097
37	13342	15808	15759	15716	15660	15607	15563	17697	17660	17660	17660	6755	6688	6635	9619	9542	9471	9471
38	11232	13780	13725	13672	13607	13543	13487	15695	15652	15652	15652	4912	4846	4790	7509	7420	7338	7338
39	9248	11751	11693	11635	11566	11496	11432	13617	13570	13570	13570	3427	3375	3323	5732	5642	5558	5558
35-39	13573	15919	15874	15834	15784	15736	15697	17744	17710	17710	17710	7340	7280	7234	10087	10022	9963	9963
40	7316	9629	9572	9515	9447	9377	9312	11352	11305	11305	11305	2376	2325	2280	4204	4121	4044	4044
41	5497	7496	7445	7392	7330	7267	7206	8991	8948	8948	8948	1496	1461	1428	2928	2859	2794	2794
42	3976	5617	5574	5528	5475	5421	5368	6855	6815	6815	6815	926	900	874	1964	1909	1858	1858
43	2689	3937	3903	3867	3825	3782	3739	4888	4856	4856	4856	555	535	518	1231	1192	1155	1155
44	1664	2525	2501	2475	2445	2414	2384	3190	3168	3168	3168	295	283	273	707	700	657	657
40-44	4228	5841	5799	5755	5704	5652	5602	7055	7019	7019	7019	1143	1113	1087	2207	2153	2101	2101
45	958	1498	1483	1466	1447	1427	1407	1921	1907	1907	1907	149	142	137	381	366	352	352
46	564	905	895	884	872	859	846	1174	1165	1165	1165	79	75	72	213	203	195	195
47	323	526	520	513	506	498	491	688	682	682	682	40	40	38	118	113	108	108
48	164	270	267	263	259	255	251	354	351	351	351	20	19	19	59	56	53	53
49	44	71	71	71	70	69	68	96	95	95	95	5	5	5	16	15	14	14
45-49	411	654	647	640	631	622	613	847	840	840	840	59	56	54	157	151	144	144

MEAN	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
STDEV	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
B1	0.0507	0.0551	0.0609	0.0656	0.0701	0.0739	0.0775	0.0813	0.0844	0.0873	0.0909	0.0949	0.0991	0.0971	0.0991	0.0991	0.0991	0.0991	0.0991	0.0991
MEAN	26.31	26.33	26.36	26.38	26.39	26.39	26.39	26.39	26.44	26.44	26.47	26.48	26.48	26.50	26.51	26.52	26.52	26.52	26.52	26.52
STDEV	0.846	0.825	0.805	0.786	0.769	0.753	0.737	0.724	0.711	0.699	0.687	0.677	0.667	0.658	0.650	0.650	0.650	0.650	0.650	0.650
PAR1	0.0175	0.0198	0.0220	0.0241	0.0261	0.0280	0.0298	0.0315	0.0330	0.0344	0.0357	0.0369	0.0381	0.0392	0.0402	0.0402	0.0402	0.0402	0.0402	0.0402
PAR2	0.2770	0.2787	0.2800	0.2815	0.2830	0.2848	0.2863	0.2878	0.2891	0.2900	0.2907	0.2910	0.2913	0.2917	0.2920	0.2923	0.2923	0.2923	0.2923	0.2923
NO	17.27	17.10	16.94	16.88	16.87	16.56	16.37	16.28	16.28	16.28	16.28	16.28	16.16	16.16	16.05	16.05	16.05	16.05	16.05	16.05
K	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000	1.050	1.100	1.200	1.250	1.300	1.300	1.300	1.350	1.350	1.350	1.350	1.350
H	2.837	2.901	2.965	3.028	3.092	3.154	3.216	3.276	3.337	3.397	3.454	3.513	3.569	3.625	3.679	3.679	3.679	3.679	3.679	3.679
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	1	2	3	4	6	9	11	15	19	22	26	30	35	39	39	43	43	43	43	43
16	59	90	126	167	215	261	310	367	418	468	517	563	614	661	703	703	703	703	703	703
17	63	90	1106	1322	1543	1743	1938	2152	2333	2503	2658	2802	2957	3095	3215	3215	3215	3215	3215	3215
18	378	437	4914	5438	5942	6359	6752	7171	7505	7807	8071	8313	8573	8801	8991	8991	8991	8991	8991	8991
19	13612	14499	15210	15864	16474	16922	17336	17800	18130	18420	18655	18874	19129	19347	19516	19516	19516	19516	19516	19516
15-19	3626	3972	4272	4559	4836	5059	5270	5501	5681	5844	5986	6117	6261	6388	6493	6493	6493	6493	6493	6493
20	33836	34189	34385	34566	34802	34858	34930	35113	35167	35206	35202	35219	35303	35366	35387	35387	35387	35387	35387	35387
21	36879	36312	35725	35243	34868	34401	34014	33784	33474	33187	32877	32635	32474	32316	32136	32136	32136	32136	32136	32136
22	81936	76681	75791	74850	74065	73253	72558	72017	71457	70942	70421	69998	69650	69330	68998	68998	68998	68998	68998	68998
23	91936	90717	89602	88605	87744	86895	86152	85513	84901	84336	83767	83302	82883	82503	82120	82120	82120	82120	82120	82120
24	96736	95866	95070	94326	93660	93020	92445	91905	91413	90953	90486	90104	89729	89390	89053	89053	89053	89053	89053	89053
20-24	71488	70793	70114	69522	69028	68485	68020	67666	67282	66925	66608	66252	66008	65782	65539	65539	65539	65539	65539	65539
25	96045	95678	95350	95009	94686	94390	94114	93806	93556	93317	93063	92864	92636	92435	92235	92235	92235	92235	92235	92235
26	81377	81484	81604	81760	81870	81971	81821	81821	81821	81821	81821	81821	81821	81821	81821	81821	81821	81821	81821	81821
27	81936	82333	82731	83057	83328	83630	83894	84055	84268	84464	84646	84825	84934	85047	85164	85164	85164	85164	85164	85164
28	71919	72529	73078	73554	73965	74412	74811	75102	75399	75756	76068	76355	76571	76783	77003	77003	77003	77003	77003	77003
29	60556	61095	61634	62111	62523	62977	63381	63688	64035	64363	64696	64990	65224	65451	65689	65689	65689	65689	65689	65689
25-29	80379	80624	80879	81081	81242	81436	81604	81688	81823	81947	82061	82179	82239	82305	82377	82377	82377	82377	82377	82377
30	48666	49290	49716	50095	50417	50781	51101	51343	51617	51876	52151	52379	52564	52740	52932	52932	52932	52932	52932	52932
31	38922	39220	39524	39795	40017	40283	40510	40679	40872	41057	41262	41421	41551	41673	41813	41813	41813	41813	41813	41813
32	30803	30988	31181	31351	31484	31657	31799	31899	32018	32133	32272	32368	32446	32518	32608	32608	32608	32608	32608	32608
33	24195	24287	24387	24474	24532	24627	24698	24740	24797	24853	24935	24978	25013	25042	25090	25090	25090	25090	25090	25090
34	19319	19352	19394	19430	19444	19491	19520	19529	19551	19574	19623	19637	19649	19657	19682	19682	19682	19682	19682	19682
30-34	32421	32627	32840	33029	33179	33368	33526	33638	33771	33899	34049	34157	34245	34326	34425	34425	34425	34425	34425	34425
35	15323	15311	15309	15306	15285	15294	15290	15273	15267	15263	15284	15275	15268	15264	15264	15264	15264	15264	15264	15264
36	9296	91997	91964	91931	91887	91868	91840	91805	91779	91755	91729	91708	91685	91667	91677	91677	91677	91677	91677	91677
37	30803	30988	31181	31351	31484	31657	31799	31899	32018	32133	32272	32368	32446	32518	32608	32608	32608	32608	32608	32608
38	7254	7181	7117	7057	6991	6945	6893	6842	6796	6754	6728	6687	6653	6618	6593	6593	6593	6593	6593	6593
39	5474	5400	5334	5274	5206	5156	5103	5052	5005	4961	4932	4891	4856	4821	4794	4794	4794	4794	4794	4794
35-39	9897	9845	9801	9759	9707	9679	9643	9603	9570	9540	9500	9474	9447	9421	9396	9396	9396	9396	9396	9396
40	3967	3879	3837	3779	3720	3673	3624	3577	3534	3494	3466	3428	3396	3364	3339	3339	3339	3339	3339	3339
41	2730	2693	2620	2572	2522	2482	2441	2403	2367	2333	2308	2277	2251	2224	2203	2203	2203	2203	2203	2203
42	1808	1762	1684	1645	1645	1613	1581	1552	1524	1498	1478	1454	1433	1413	1396	1396	1396	1396	1396	1396
43	1119	1087	1052	1030	1003	980	957	936	916	898	883	866	852	837	825	825	825	825	825	825
44	634	613	594	576	559	544	530	516	504	492	482	472	462	453	446	446	446	446	446	446
40-44	2052	2007	1966	1928	1890	1859	1827	1797	1769	1743	1723	1699	1679	1658	1642	1642	1642	1642	1642	1642
45	338	326	315	304	294	286	277	269	262	255	250	243	238	233	228	228	228	228	228	228
46	187	180	173	167	161	156	150	146	142	138	134	131	128	125	122	122	122	122	122	122
47	103	99	91	88	85	82	80	77	75	73	71	69	68	66	66	66	66	66	66	66
48	51	49	47	45	43	42	40	39	38	37	36	35	34	33	32	32	32	32	32	32
49	14	13	12	11	11	11	11	11	10	10	9	9	9	9	9	9	9	9	9	9
45-49	139	133	128	124	120	116	112	109	106	103	100	98	96	93	93	93	93	93	93	93

STBY	27.0 4.5	27.0 10.25	27.0 4.5	27.0 10.5	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0	27.0 5.0
MEAN	4.5	10.25	4.5	10.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
STDY	10.12	4.5	10.81	10.62	0.109	0.059	0.067	0.073	0.077	0.086	0.098	0.103	0.117	0.134	0.158	0.186	0.222	0.262	0.306	0.355
BI	26.52	26.54	26.52	26.55	26.56	26.57	26.58	26.59	26.60	26.61	26.62	26.63	26.64	26.65	26.66	26.67	26.68	26.69	26.70	26.71
RD	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.052	0.053	0.054	0.055	0.056	0.057	0.058	0.059	0.060	0.061
SKW	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.052	0.053	0.054	0.055	0.056	0.057	0.058	0.059	0.060
PARI	0.092	0.093	0.094	0.095	0.096	0.097	0.098	0.099	0.100	0.101	0.102	0.103	0.104	0.105	0.106	0.107	0.108	0.109	0.110	0.111
PAR2	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54
AD	1.400	1.450	1.500	1.550	1.600	1.650	1.700	1.750	1.800	1.850	1.900	1.950	2.000	2.050	2.100	2.150	2.200	2.250	2.300	2.350
K	3.733	3.785	3.838	3.891	3.945	3.999	4.054	4.109	4.164	4.219	4.274	4.329	4.384	4.439	4.494	4.549	4.604	4.659	4.714	4.769
H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	47	51	54	58	61	64	67	70	73	76	79	82	85	88	91	94	97	100	103	106
16	748	779	813	848	876	897	914	928	939	947	952	955	957	959	960	961	961	961	961	961
17	3346	3427	3518	3613	3689	3744	3786	3816	3836	3847	3850	3852	3853	3854	3855	3855	3855	3855	3855	3855
18	9205	9322	9466	9614	9732	9815	9873	9911	9932	9948	9958	9964	9967	9969	9970	9970	9970	9970	9970	9970
19	19733	19813	19948	20092	20206	20281	20324	20348	20364	20373	20377	20379	20380	20380	20380	20380	20380	20380	20380	20380
15-19	6616	6678	6760	6845	6913	6960	6994	7020	7039	7054	7067	7077	7084	7089	7093	7095	7096	7096	7096	7096
20	35490	35939	35860	35534	35576	35589	35549	35457	35322	35152	34958	34743	34511	34267	34015	33758	33500	33253	33029	32829
21	52060	51732	51638	51554	51457	51357	51254	51148	51039	50928	50815	50700	50583	50464	50343	50220	50095	49968	49839	49709
22	68775	68935	68218	68002	67818	67640	67478	67331	67199	67082	66980	66892	66818	66758	66711	66675	66650	66635	66630	66635
23	81826	81457	81194	80916	80683	80470	80280	80112	79967	79844	79742	79660	79598	79555	79530	79514	79507	79509	79518	79533
24	88769	88456	88212	87939	87714	87516	87341	87189	87060	86953	86866	86798	86750	86720	86707	86702	86704	86712	86726	86745
20-24	65384	65125	64967	64806	64669	64534	64399	64266	64136	64009	63886	63767	63652	63542	63437	63337	63242	63152	63067	62987
25	92048	91872	91724	91534	91387	91268	91168	91084	91016	90963	90925	90892	90864	90841	90823	90815	90817	90828	90848	90877
26	91751	91755	91746	91687	91663	91664	91668	91676	91687	91700	91714	91728	91743	91758	91773	91788	91803	91818	91833	91848
27	85229	85363	85453	85498	85508	85488	85438	85368	85288	85208	85128	85048	84968	84888	84808	84728	84648	84568	84488	84408
28	77156	77392	77563	77698	77840	77997	78144	78296	78454	78617	78785	78958	79136	79319	79507	79699	79896	80098	80305	80518
29	65856	66112	66292	66452	66609	66775	66950	67134	67327	67528	67737	67954	68179	68412	68652	68907	69177	69462	69762	70077
25-29	82408	82499	82556	82574	82613	82670	82749	82839	82939	83049	83169	83299	83429	83559	83689	83819	83949	84079	84209	84339
30	53057	53268	53405	53537	53659	53784	53924	54079	54249	54434	54634	54849	55079	55324	55584	55859	56149	56454	56774	57109
31	41895	42055	42147	42247	42332	42418	42504	42591	42678	42765	42852	42939	43026	43113	43200	43287	43374	43461	43548	43635
32	32650	32762	32813	32881	32932	32983	33034	33085	33136	33187	33238	33289	33340	33391	33442	33493	33544	33595	33646	33697
33	25059	25168	25185	25225	25247	25268	25289	25310	25331	25352	25373	25394	25415	25436	25457	25478	25499	25520	25541	25562
34	19677	19722	19725	19760	19769	19789	19808	19827	19846	19865	19884	19903	19922	19941	19960	19979	19998	20017	20036	20055
30-34	34776	34595	34655	34728	34786	34844	34899	34954	35009	35064	35119	35174	35229	35284	35339	35394	35449	35504	35559	35614
35	15247	15271	15261	15273	15272	15269	15265	15261	15257	15253	15249	15245	15241	15237	15233	15229	15225	15221	15217	15213
36	11650	11658	11638	11639	11629	11618	11606	11594	11582	11570	11558	11546	11534	11522	11510	11498	11486	11474	11462	11450
37	8804	8800	8774	8767	8751	8733	8715	8696	8676	8656	8636	8616	8596	8576	8556	8536	8516	8496	8476	8456
38	6559	6547	6518	6506	6486	6466	6446	6426	6406	6386	6366	6346	6326	6306	6286	6266	6246	6226	6206	6186
39	4761	4745	4716	4702	4681	4660	4639	4618	4597	4576	4555	4534	4513	4492	4471	4450	4429	4408	4387	4366
35-39	9404	9404	9381	9378	9364	9349	9334	9319	9304	9289	9274	9259	9244	9229	9214	9199	9184	9169	9154	9139
40	3309	3292	3262	3252	3232	3213	3193	3173	3153	3133	3113	3093	3073	3053	3033	3013	2993	2973	2953	2933
41	2179	2163	2142	2129	2113	2097	2081	2065	2049	2033	2017	2001	1985	1969	1953	1937	1921	1905	1889	1873
42	1377	1365	1349	1338	1326	1313	1301	1289	1276	1263	1251	1239	1227	1215	1203	1191	1179	1167	1155	1143
43	813	803	792	784	776	767	758	749	740	731	722	713	704	695	686	677	668	659	650	641
44	438	432	425	420	414	409	403	397	391	385	379	373	367	361	355	349	343	337	331	325
40-44	1623	1611	1595	1585	1572	1560	1548	1536	1524	1512	1500	1488	1476	1464	1452	1440	1428	1416	1404	1392
45	224	220	216	213	210	207	204	201	198	195	192	189	186	183	180	177	174	171	168	165
46	119	117	115	113	112	110	108	106	104	102	100	98	96	94	92	90	88	86	84	82
47	65	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45
48	32	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
49	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
45-49	90	88	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69

BRAN	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
STDEV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
B1	0.1347	0.1396	0.1442	0.1479	0.1519	0.1556	0.1594	0.1633	0.1673	0.1713	0.1754	0.1794	0.1835	0.1876	0.1917	0.1959	0.2001	0.2043	0.2085	0.2127	0.217	0.2212	0.2254	0.2296	0.2338	0.238
MRD	26.29	26.31	26.33	26.36	26.38	26.39	26.40	26.41	26.42	26.43	26.44	26.45	26.46	26.47	26.48	26.49	26.50	26.51	26.52	26.53	26.54	26.55	26.56	26.57	26.58	26.59
SKRW	0.0490	0.0517	0.0541	0.0565	0.0586	0.0606	0.0629	0.0648	0.0667	0.0686	0.0702	0.0717	0.0732	0.0746	0.0758	0.0768	0.0777	0.0785	0.0792	0.0799	0.0805	0.0811	0.0817	0.0822	0.0827	0.0832
PAR1	0.3381	0.3389	0.3397	0.3405	0.3408	0.3416	0.3423	0.3425	0.3431	0.3436	0.3439	0.3441	0.3447	0.3451	0.3452	0.3453	0.3454	0.3454	0.3454	0.3454	0.3454	0.3454	0.3454	0.3454	0.3454	0.3454
PAR2	15.58	15.42	15.28	15.13	15.02	14.89	14.70	14.50	14.30	14.10	13.90	13.70	13.50	13.30	13.10	12.90	12.70	12.50	12.30	12.10	11.90	11.70	11.50	11.30	11.10	10.90
RO	0.800	0.850	0.900	0.950	1.000	1.050	1.100	1.150	1.200	1.250	1.300	1.350	1.400	1.450	1.500	1.550	1.600	1.650	1.700	1.750	1.800	1.850	1.900	1.950	2.000	2.050
K	2.426	2.476	2.525	2.573	2.622	2.670	2.718	2.765	2.812	2.858	2.904	2.947	2.992	3.035	3.077	3.120	3.161	3.203	3.244	3.285	3.326	3.367	3.408	3.448	3.488	3.528
H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	2	8	17	29	44	60	77	97	116	134	153	171	189	207	225	243	261	279	297	314	331
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	81	102	124	148	171	362	448	525	609	689	765	834	908	975	1035	1098	1164	1232	1302	1374	1448	1524	1602	1682	1764	1848
16	1154	1321	1489	1654	1799	1999	2197	2361	2534	2693	2837	2963	3099	3219	3322	3420	3513	3601	3684	3762	3835	3903	3966	4024	4077	4125
17	4832	5231	5611	5969	6262	6262	6557	6779	7021	7233	7420	7576	7754	7904	8027	8124	8207	8277	8334	8379	8414	8440	8458	8469	8474	8478
18	12701	13224	13706	14145	14476	14753	15036	15210	15431	15614	15769	15882	16002	16166	16256	16336	16407	16470	16526	16576	16621	16662	16700	16734	16764	16790
19	26294	26577	26836	27063	27179	27575	27689	27685	27766	27816	27868	27894	27903	27936	27956	27970	27979	27984	27987	27989	27990	27991	27991	27991	27991	27991
15-19	9013	9291	9553	9796	9977	10190	10385	10512	10672	10809	10928	11018	11181	11314	11414	11484	11528	11558	11578	11590	11594	11598	11601	11603	11605	11606
20	44710	44436	43809	43716	43716	43565	43430	43193	43078	42946	42816	42683	42586	42499	42381	42294	42229	42184	42149	42124	42104	42088	42074	42062	42051	42041
21	61070	60398	59607	59270	59124	59333	57865	57508	57205	56901	56616	56350	56105	55896	55664	55404	55125	54830	54521	54199	53867	53527	53182	52834	52484	52132
22	74468	73662	72941	72277	71663	71122	70652	70147	69761	69383	69034	68655	68240	67808	67354	66881	66389	65879	65354	64816	64268	63711	63147	62576	61999	61417
23	82578	81883	81246	80648	80089	79619	79178	78731	78369	78015	77691	77339	76968	76581	76182	75774	75350	74912	74462	74002	73533	73058	72579	72096	71610	71121
24	84872	84422	83994	83580	83185	82807	82348	81922	81531	81176	80856	80468	80060	79644	79220	78790	78355	77916	77474	77029	76582	76134	75684	75233	74780	74325
20-24	69540	68860	68438	67953	67480	67037	66751	66364	66077	65791	65525	65228	64931	64634	64337	64040	63743	63446	63149	62852	62555	62258	61961	61664	61367	61070
25	83964	83909	83471	83343	83188	83043	82923	82802	82681	82574	82489	82424	82379	82344	82319	82304	82299	82304	82319	82344	82379	82424	82489	82574	82681	82802
26	80560	80578	80767	80830	80934	80978	81019	81094	81135	81170	81213	81262	81306	81354	81402	81450	81508	81566	81624	81682	81740	81808	81876	81944	82012	82080
27	73577	73565	74216	74431	74683	74858	75024	75224	75224	75511	75652	75789	75887	75989	76098	76207	76316	76425	76534	76643	76752	76861	76970	77079	77188	77297
28	66529	65680	64216	63344	61942	60394	58809	57244	55694	54187	52724	51304	49924	48594	47304	46054	44844	43674	42544	41454	40404	39394	38424	37494	36604	35754
29	57486	57684	58237	58564	58914	59187	59440	59742	59968	60194	60414	60649	60812	60986	61173	61372	61584	61808	62044	62292	62552	62824	63108	63404	63712	64032
25-29	72398	72603	72778	72928	73113	73233	73344	73494	73694	73964	74304	74684	75104	75564	76064	76604	77184	77804	78464	79164	79904	80684	81504	82364	83264	84204
30	48088	48408	48698	48971	49262	49485	49690	49943	50123	50307	50484	50685	50810	50949	51104	51274	51458	51657	51871	52099	52342	52599	52871	53158	53460	53777
31	39721	39960	40179	40387	40609	40774	40925	41120	41249	41385	41516	41675	41861	41980	42125	42285	42460	42650	42854	43073	43307	43556	43820	44099	44394	44704
32	32605	32767	32916	33060	33213	33322	33420	33558	33638	33728	33813	33930	33978	34042	34125	34225	34340	34470	34614	34772	34944	35130	35331	35547	35779	36026
33	26560	26655	26740	26826	26919	27027	27114	27114	27114	27200	27245	27321	27336	27368	27418	27484	27566	27664	27778	27908	28054	28216	28394	28588	28798	29024
34	21898	21948	21993	22024	22096	22124	22145	22200	22245	22281	22312	22348	22384	22420	22456	22492	22528	22564	22600	22636	22672	22708	22744	22780	22816	22852
30-34	33774	33948	34105	34257	34420	34536	34641	34787	34875	34971	35063	35184	35309	35439	35574	35714	35868	36037	36220	36418	36632	36862	37108	37370	37638	37912
35	17930	17943	17953	17970	17991	17992	17998	18015	18007	18011	18012	18044	18027	18043	18061	18078	18094	18109	18124	18139	18154	18169	18184	18199	18214	18229
36	14599	14522	14506	14497	14492	14472	14450	14453	14428	14415	14400	14386	14373	14375	14377	14378	14379	14380	14381	14382	14383	14384	14385	14386	14387	14388
37	11705	11666	11631	11603	11578	11543	11507	11493	11457	11431	11405	11368	11346	11337	11327	11317	11307	11297	11287	11277	11267	11257	11247	11237	11227	11217
38	9320	9268	9220	9179	9142	9098	9053	9027	8984	8950	8917	8865	8837	8820	8804	8788	8772	8756	8740	8724	8708	8692	8676	8660	8644	8628
39	7251	7193	7139	7093	7048	7000	6952	6920	6874	6837	6800	6742	6711	6690	6674	6658	6642	6626	6610	6594	6578	6562	6546	6530	6514	6498
35-39	12149	12118	12090	12068	12050	12021	11990	11982	11950	11929	11907	11878	11853	11828	11803	11778	11753	11728	11703	11678	11653	11628	11603	11578	11553	11528
40	5416	5359	5306	5259	5214	5167	5121	5087	5043	5007	4971	4935	4898	4861	4825	4789	4753	4717	4681	4645	4609	4573	4537	4501	4465	4429
41	3841	3790	3742	3700	3660	3618	3578	3540	3509	3477	3446	3421	3393	3367	3347	3327	3307	3287	3267	3247	3227	3207	3187	3167	3147	3127
42	2621	2579	2539	2504	2470	2438	2407	2377	2347	2320	2295	2271	2252	2232	2213	2194	2175	2156	2137	2118	2100	2082	2064	2046	2028	2010
43	1672	1640	1610	15																						

MZBW	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
SDRW	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
RI	0.207	0.208	0.213	0.219	0.223	0.228	0.233	0.238	0.243	0.247	0.252	0.257	0.262	0.267	0.272	0.277	0.282	0.287
RSD	26.18	26.20	26.22	26.24	26.26	26.28	26.30	26.32	26.34	26.36	26.38	26.40	26.42	26.44	26.46	26.48	26.50	26.52
SKRW	0.771	0.772	0.773	0.774	0.775	0.776	0.777	0.778	0.779	0.780	0.781	0.782	0.783	0.784	0.785	0.786	0.787	0.788
PARI	0.0797	0.0798	0.0799	0.0800	0.0801	0.0802	0.0803	0.0804	0.0805	0.0806	0.0807	0.0808	0.0809	0.0810	0.0811	0.0812	0.0813	0.0814
PARZ	0.3927	0.3928	0.3929	0.3930	0.3931	0.3932	0.3933	0.3934	0.3935	0.3936	0.3937	0.3938	0.3939	0.3940	0.3941	0.3942	0.3943	0.3944
AO	14.95	14.96	14.97	14.98	14.99	15.00	15.01	15.02	15.03	15.04	15.05	15.06	15.07	15.08	15.09	15.10	15.11	15.12
K	0.850	0.851	0.852	0.853	0.854	0.855	0.856	0.857	0.858	0.859	0.860	0.861	0.862	0.863	0.864	0.865	0.866	0.867
H	1.804	1.805	1.806	1.807	1.808	1.809	1.810	1.811	1.812	1.813	1.814	1.815	1.816	1.817	1.818	1.819	1.820	1.821
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	10	38	84	144	218	300	387	476	565	653	747	830	916	989	1061	1134	1207
10-14	0	2	17	29	44	61	81	102	124	147	173	196	221	243	265	287	309	331
15	324	506	721	940	1151	1361	1567	1765	1954	2133	2299	2471	2613	2759	2874	2999	3114	3239
16	2460	3442	4942	6884	9264	12184	16244	21464	28944	38984	52604	71024	95444	127064	168084	220704	297324	404944
17	8813	9448	10090	10862	11765	12800	13967	15267	16700	18267	19970	21800	23750	25820	28000	30290	32690	35200
18	20959	21306	21721	22197	22735	23336	24001	24731	25526	26386	27311	28301	29356	30476	31661	32911	34226	35606
19	36831	36573	36311	36089	35899	35733	35566	35417	35284	35156	35033	34915	34801	34691	34585	34483	34385	34291
15-19	13877	14155	14491	14747	14934	15110	15270	15416	15546	15662	15761	15843	15909	15959	16003	16041	16073	16100
20	53069	52290	51734	51168	50614	50132	49693	49304	48947	48622	48322	48044	47835	47629	47361	47189	46999	46831
21	65282	64290	63500	62740	62032	61404	60828	60312	59817	59411	59090	58847	58630	58430	58244	58071	57911	57758
22	73498	72509	71854	71137	70483	69892	69341	68844	68408	68028	67698	67414	67172	66966	66792	66638	66504	66388
23	77164	76557	76002	75477	75005	74566	74156	73776	73418	73095	72787	72511	72249	72022	71826	71651	71496	71358
24	76733	76447	76146	75861	75616	75380	75143	74922	74707	74513	74323	74139	73979	73832	73697	73574	73461	73358
20-24	69149	68438	67847	67277	66750	66276	65832	65432	65058	64722	64403	64139	63862	63620	63358	63144	62954	62788
25	74370	74383	74331	74286	74269	74240	74195	74147	74094	74047	73997	73929	73892	73830	73794	73760	73728	73696
26	70608	70857	71013	71173	71351	71550	71763	71983	72183	72322	72472	72622	72752	72852	72922	72982	73022	73052
27	64814	65193	65668	66248	66933	67723	68628	69648	70783	72043	73423	74943	77623	81463	86563	93123	101463	111803
28	58907	59351	59857	60404	60996	61731	62601	63616	64776	66086	67546	69166	70946	72886	74996	77276	79726	82346
29	52194	52624	52957	53302	53653	53973	54272	54547	54789	55049	55283	55466	55682	55858	56072	56311	56555	56811
25-29	64179	64481	64692	64910	65142	65347	65529	65694	65845	65987	66121	66214	66311	66431	66555	66681	66811	66944
30	45061	45421	45986	46280	46820	46548	46800	47032	47251	47454	47651	47802	47983	48129	48312	48497	48681	48861
31	38566	38827	39034	39260	39488	39696	39893	40074	40245	40402	40556	40699	40832	40952	41068	41179	41285	41386
32	32857	33059	33199	33360	33524	33671	33813	33941	34065	34175	34285	34360	34460	34537	34646	34746	34846	34946
33	27855	27985	28065	28166	28269	28360	28450	28530	28608	28674	28743	28804	28854	28900	28946	28990	29035	29079
34	23795	23873	23910	23969	24031	24084	24139	24186	24234	24272	24311	24344	24371	24397	24427	24457	24487	24517
30-34	33623	33833	33981	34148	34318	34487	34619	34753	34881	34995	35110	35224	35329	35434	35529	35624	35719	35814
35	20216	20250	20272	20297	20316	20340	20358	20378	20391	20410	20410	20409	20425	20433	20462	20462	20462	20462
36	17029	17027	16997	16989	16983	16975	16972	16966	16963	16954	16954	16952	16952	16952	16952	16952	16952	16952
37	14255	14255	14173	14141	14112	14081	14058	14032	14011	13986	13967	13952	13932	13920	13899	13895	13895	13895
38	11812	11762	11695	11646	11600	11554	11515	11476	11426	11405	11374	11335	11307	11277	11262	11262	11262	11262
39	9571	9509	9434	9375	9319	9263	9216	9169	9126	9082	9044	9001	8965	8931	8908	8908	8908	8908
35-39	14577	14554	14510	14485	14462	14438	14420	14400	14384	14364	14349	14323	14310	14293	14292	14292	14292	14292
40	7549	7383	7247	7188	7130	7080	7031	6986	6940	6900	6856	6819	6783	6757	6739	6726	6717	6709
41	5507	5445	5376	5319	5264	5210	5163	5117	5075	5032	4995	4955	4920	4887	4861	4840	4826	4814
42	3918	3864	3806	3757	3709	3663	3622	3586	3546	3509	3477	3443	3413	3385	3361	3349	3336	3324
43	2607	2564	2519	2481	2443	2407	2375	2344	2315	2287	2261	2235	2211	2189	2171	2159	2146	2134
44	1587	1546	1526	1499	1472	1447	1424	1403	1382	1363	1345	1327	1310	1295	1282	1271	1260	1250
40-44	4214	4163	4107	4060	4015	3972	3933	3895	3861	3826	3795	3763	3735	3708	3686	3671	3656	3641
45	901	882	862	845	828	812	798	784	772	759	748	737	726	717	709	703	697	691
46	524	512	499	489	478	468	459	451	443	435	428	421	414	409	403	397	391	385
47	298	291	283	277	271	265	259	254	249	245	240	237	233	230	227	224	221	218
48	180	174	168	163	158	153	148	143	138	133	128	123	119	114	110	106	102	98
49	100	96	92	88	84	80	76	72	68	64	60	56	52	48	44	40	36	32
45-49	383	374	365	357	350	343	336	330	325	319	314	309	305	300	297	293	289	285

MEAN	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0
STDEV	5-5	5-5	5-5	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0	6-0
RED	0.257	0.257	0.258	0.243	0.242	0.243	0.249	0.259	0.261	0.262	0.264	0.269	0.271	0.273	0.275	0.277	0.279	0.281	0.283	0.285
SKM	0.547	0.547	0.541	0.535	0.536	0.537	0.541	0.545	0.549	0.553	0.557	0.561	0.565	0.569	0.573	0.577	0.581	0.585	0.589	0.593
PAR1	0.1140	0.1155	0.1171	0.1187	0.1203	0.1219	0.1235	0.1251	0.1267	0.1283	0.1299	0.1315	0.1331	0.1347	0.1363	0.1379	0.1395	0.1411	0.1427	0.1443
PAR2	0.3952	0.3952	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954	0.3954
NO	12.64	12.55	12.48	16.99	16.54	16.11	15.71	15.32	14.91	14.51	14.11	13.71	13.31	12.91	12.51	12.11	11.71	11.31	10.91	10.51
K	1.400	1.450	1.500	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
H	2.383	2.419	2.453	1.178	1.196	1.218	1.241	1.266	1.291	1.316	1.341	1.366	1.391	1.416	1.441	1.466	1.491	1.516	1.541	1.566
12	11	16	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	253	286	322	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1065	1135	1208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	266	288	311	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	2994	3101	3212	159	275	419	607	808	1031	1288	1579	1904	2273	2686	3143	3654	4229	4868	5571	6338
16	6826	6947	7072	2205	3002	3799	4633	5467	6301	7135	7969	8803	9637	10471	11305	12139	12973	13807	14641	15475
17	13235	13413	13591	4105	10694	12066	13438	14810	16182	17554	18926	20298	21670	23042	24414	25786	27158	28530	29902	31274
18	22963	22966	22969	23703	25919	28136	27208	27208	27208	27208	27208	27208	27208	27208	27208	27208	27208	27208	27208	27208
19	34203	34098	34328	48716	47740	46835	46210	45585	44960	44335	43710	43085	42460	41835	41210	40585	39960	39335	38710	38085
15-19	16142	16185	16247	16777	17366	17859	18426	18859	19608	19930	20116	20387	20519	20658	20794	20929	21064	21199	21334	21469
20	47164	46966	46811	71358	68306	57133	63611	61782	60366	59046	57833	56820	55995	55278	54661	54044	53427	52810	52193	51576
21	57453	57986	58576	70665	74156	72298	70589	69031	67576	66321	65273	64336	63511	62786	62161	61536	60911	60286	59661	59036
22	68227	75174	69346	75367	74814	73908	72913	71939	70800	69885	69220	68811	68511	68254	68047	67890	67733	67576	67419	67262
23	71340	71137	71142	72481	72469	72289	71927	71520	70808	70403	70022	69617	69248	68977	68706	68435	68164	67893	67622	67351
24	73519	73367	73249	68054	68417	68672	68746	68761	68719	68660	68607	68554	68501	68448	68395	68342	68289	68236	68183	68130
20-24	63141	62932	62745	72705	71632	70576	69557	68607	67596	66835	66131	65499	64907	64378	63909	63492	63125	62808	62541	62274
25	73749	73708	73650	63641	64157	64636	64970	65263	65520	65797	66094	66411	66758	67131	67534	67967	68430	68923	69446	69999
26	72377	72396	72426	59279	59822	60392	60856	61305	61733	62145	62542	62925	63294	63649	63991	64321	64638	64942	65233	65510
27	67364	68086	68174	54400	54902	55454	55942	56439	56669	57102	57547	57887	58235	58582	58929	59276	59623	59970	60317	60664
28	62948	63116	63251	49995	50329	50829	51290	51780	52055	52503	52972	53345	53747	54103	54420	54707	55024	55371	55748	56155
29	56245	56418	56560	45211	45559	45975	46367	46798	47070	47478	47912	48263	48646	48989	49295	49566	49803	50006	50187	50346
25-29	66848	66745	66812	54485	54955	55457	55885	56317	56485	56555	56595	56633	56671	56709	56747	56785	56823	56861	56899	56937
30	48556	48600	48719	40378	40635	40952	41254	41599	41833	42165	42527	42818	43142	43401	43687	43999	44337	44701	45091	45507
31	41178	41290	41382	35872	36050	36278	36494	36753	36941	37193	37475	37700	37958	38185	38390	38576	38747	38903	39049	39186
32	34723	34802	34867	31850	31962	32114	32234	32343	32434	32515	32597	32678	32759	32839	32919	32999	33079	33159	33239	33319
33	29009	29058	29096	28189	28246	28335	28411	28521	28618	28725	28862	28959	29088	29291	29529	29803	30113	30459	30841	31259
34	24576	24506	24531	25024	25043	25084	25113	25173	25235	25291	25374	25426	25508	25573	25629	25686	25743	25800	25857	25914
30-34	35586	35651	35719	32263	32263	32263	32263	32263	32263	32263	32263	32263	32263	32263	32263	32263	32263	32263	32263	32263
35	20873	20887	20497	22122	22110	22114	22105	22122	22153	22166	22204	22215	22255	22281	22303	22325	22347	22369	22391	22413
36	16932	16931	16929	19409	19373	19348	19309	19292	19299	19276	19275	19258	19258	19252	19243	19233	19223	19213	19203	19193
37	13880	13867	13855	16935	16882	16835	16774	16733	16717	16667	16636	16588	16564	16531	16493	16458	16423	16388	16353	16318
38	11238	11216	11196	14635	14570	14508	14432	14370	14342	14271	14218	14151	14105	14052	14000	13948	13896	13844	13792	13740
39	8878	8852	8827	12372	12301	12231	12147	12074	12035	11952	11885	11806	11746	11681	11617	11552	11487	11422	11357	11292
35-39	14280	14271	14261	17095	17047	17007	16953	16918	16909	16866	16843	16803	16785	16759	16732	16706	16680	16654	16628	16602
40	6726	6697	6671	10050	9980	9907	9823	9748	9704	9619	9545	9463	9377	9297	9258	9208	9158	9108	9058	9008
41	4832	4805	4781	7756	7692	7625	7547	7476	7433	7353	7282	7205	7127	7049	7008	6958	6908	6858	6808	6758
42	3336	3313	3292	5762	5707	5649	5582	5520	5481	5411	5348	5281	5223	5163	5105	5047	4989	4931	4873	4815
43	2153	2133	2116	4003	3970	3914	3861	3811	3781	3724	3673	3619	3572	3524	3477	3429	3381	3333	3285	3237
44	1268	1255	1244	2546	2514	2481	2444	2408	2386	2346	2309	2270	2236	2201	2167	2133	2098	2063	2028	1993
40-44	3663	3641	3621	6024	5970	5915	5852	5793	5757	5691	5631	5568	5518	5457	5403	5348	5293	5238	5183	5128
45	700	692	685	1499	1480	1458	1434	1411	1396	1370	1346	1322	1299	1277	1255	1233	1211	1189	1167	1145
46	398	393	389	900	887	873	858	843	833	817	801	785	771	756	741	726	711	696	681	666
47	224	221	218	521	513	505	496	487	481	471	462	452	443	435	426	417	408	399	390	381
48	112	111	110	267	263	258	253	249	246	240	235	230	226	221	217	212	207	202	197	192
49	30	30	29	72	71	70	68	67	66	65	63	62	61	59	58	57	56	55	54	53
45-49	293	289	286	652	643	633	622	611	604	593	582	570	560	550	540	530	520	510	500	490

	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0	27-0
MEAN	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
STDEV	0.3299	0.3330	0.3351	0.4031	0.4830	0.4887	0.4911	0.4931	0.4950	0.4969	0.4988	0.5007	0.5026	0.5045	0.5064	0.5083	0.5102	0.5121	0.5140
RED	26.18	26.19	26.22	25.86	25.88	25.89	25.91	25.92	25.93	25.94	25.95	25.96	25.97	25.98	25.99	26.00	26.01	26.02	26.03
SREW	0.1362	0.1375	0.1388	0.1354	0.1356	0.1357	0.1358	0.1359	0.1360	0.1361	0.1362	0.1363	0.1364	0.1365	0.1366	0.1367	0.1368	0.1369	0.1370
PART	0.4434	0.4435	0.4436	0.4437	0.4438	0.4439	0.4440	0.4441	0.4442	0.4443	0.4444	0.4445	0.4446	0.4447	0.4448	0.4449	0.4450	0.4451	0.4452
AO	12.90	12.91	12.92	12.93	12.94	12.95	12.96	12.97	12.98	12.99	13.00	13.01	13.02	13.03	13.04	13.05	13.06	13.07	13.08
K	0.800	0.850	0.900	0.950	1.000	1.050	1.100	1.150	1.200	1.250	1.300	1.350	1.400	1.450	1.500	1.550	1.600	1.650	1.700
H	1.504	1.536	1.568	0.898	0.910	0.922	0.934	0.946	0.958	0.970	0.982	0.994	1.006	1.018	1.030	1.042	1.054	1.066	1.078
12	1	7	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	151	234	317	0	0	0	0	0	14	74	191	368	0	0	0	0	0	0	42
14	1027	1255	1453	0	0	3	76	301	675	1133	1617	2134	2703	3324	4005	4746	5545	6451	7473
10-14	236	299	358	0	0	1	15	60	138	241	362	503	654	814	984	1164	1353	1551	1759
15	3657	4041	4336	2397	2844	1060	2133	3276	4341	5268	6048	6786	7581	8433	9343	10311	11337	12421	13563
16	9235	9652	9927	10973	11936	9041	10841	12193	13946	14997	16497	18226	20184	22271	24496	26860	29363	32005	34786
17	18311	18652	23168	23796	25677	25677	26009	26177	26228	26199	26111	26124	26137	26150	26163	26176	26189	26202	26215
18	30379	30323	30131	30026	30050	43636	41311	40811	40411	39624	38921	38407	38008	37624	37254	36900	36561	36237	35928
19	42749	42393	41946	50928	53753	56088	58322	52839	51557	50439	49451	48655	47959	47363	46767	46171	45575	44979	44383
15-19	20866	20994	20959	25932	26112	27094	27134	27159	27147	27095	27005	26915	26825	26735	26645	26555	26465	26375	26285
20	53778	53254	52683	66366	64617	62768	61351	60068	58906	57863	56923	56119	55327	54535	53743	52951	52159	51367	50575
21	61307	60756	60192	67038	66180	64785	63394	62093	60882	61517	60808	60161	59514	58867	58220	57573	56926	56279	55632
22	66197	65743	65297	65572	65336	64418	64081	63687	63263	62836	62421	62006	61591	61176	60761	60346	59931	59516	59101
23	68248	67949	67652	62987	63102	62550	62581	62538	62440	62311	62167	61980	61793	61606	61419	61232	61045	60858	60671
24	67713	67574	67466	59733	60011	59706	59961	60451	60283	60376	60442	60441	60441	60441	60441	60441	60441	60441	60441
20-24	63448	63055	62662	64339	63849	62845	62382	61907	61435	60980	60552	60141	59730	59319	58908	58497	58086	57675	57264
25	66006	66019	66069	56553	56891	56738	57114	57445	57729	57977	58197	58338	49977	50288	50617	50946	51275	51604	51933
26	63341	63662	63983	53382	53725	54068	54411	54754	55097	55440	55783	56126	56469	56812	57155	57498	57841	58184	58527
27	59124	59335	59546	49803	50155	50508	50861	51214	51567	51920	52273	52626	52979	53332	53685	54038	54391	54744	55097
28	54740	54951	55162	46447	46719	46734	47118	47502	47886	48270	48654	49038	49422	49806	50190	50574	50958	51342	51726
29	49607	49856	50154	42917	43140	43167	43493	43819	44145	44471	44797	45123	45449	45775	46101	46427	46753	47079	47405
25-29	58563	58737	58954	49820	50118	50081	50467	50841	51197	51535	51857	52178	52499	52820	53141	53462	53783	54104	54425
30	43957	44167	44425	39196	39366	39398	39654	39923	40202	40486	40771	41055	41339	41623	41907	42191	42475	42759	43043
31	38602	38766	38976	35611	35733	35766	35954	36156	36370	36591	36816	37041	37266	37491	37716	37941	38166	38391	38616
32	33780	33897	34057	32334	32415	32477	32574	32687	32814	32946	33083	33224	33367	33513	33662	33813	33966	34121	34276
33	29397	29468	29580	29265	29312	29341	29416	29500	29597	29702	29813	29930	30052	30179	30311	30448	30590	30737	30889
34	25696	25735	25812	26493	26514	26541	26616	26697	26784	26876	26971	27069	27170	27273	27378	27484	27591	27699	27808
30-34	34286	34407	34570	32580	32668	32699	32835	32982	33141	33308	33480	33657	33839	34026	34218	34415	34617	34824	35035
35	22335	22344	22388	23884	23883	23907	23909	23914	23930	23954	23984	23995	25486	25479	25476	25473	25469	25464	25459
36	19245	19228	19244	19198	19182	19190	19184	19175	19169	19163	19157	19151	19145	19139	19133	19127	19121	19115	19109
37	16475	16438	16430	19015	18983	19002	18955	18907	18867	18832	18802	18759	18716	18673	18630	18587	18544	18501	18458
38	13959	13906	13879	16758	16716	16732	16669	16604	16545	16489	16439	16389	16339	16289	16239	16189	16139	16089	16039
39	11562	11500	11460	14447	14399	14413	14340	14264	14192	14123	14058	13984	13910	13836	13762	13688	13614	13540	13466
35-39	16715	16683	16680	19095	19066	19085	19044	19003	18968	18939	18916	18879	18842	18805	18768	18731	18694	18657	18620
40	9199	9133	9087	11968	11918	11930	11854	11775	11698	11623	11552	11473	11407	11336	11270	11203	11136	11070	11003
41	6950	6888	6841	9419	9372	9381	9309	9234	9160	9088	9017	8942	8871	8800	8729	8658	8587	8516	8445
42	5053	4999	4956	7136	7095	7101	7038	6971	6905	6840	6776	6708	6645	6581	6516	6452	6387	6323	6259
43	3352	3352	3352	5056	5023	5027	4976	4921	4868	4814	4761	4706	4652	4597	4543	4488	4434	4379	4325
44	2137	2105	2079	3478	3254	3257	3220	3180	3140	3101	3062	3022	2982	2942	2902	2862	2822	2782	2742
40-44	5355	5303	5264	7371	7332	7339	7279	7216	7154	7093	7033	6970	6908	6846	6784	6722	6660	6598	6536
45	1235	1215	1198	1964	1948	1950	1925	1899	1873	1847	1821	1795	1769	1743	1717	1691	1665	1639	1613
46	729	717	706	1195	1184	1185	1170	1152	1135	1118	1102	1084	1067	1049	1032	1014	996	978	960
47	409	411	404	698	692	692	682	662	642	621	601	581	561	541	521	501	481	461	441
48	213	209	205	359	356	356	351	345	340	334	329	323	317	311	305	299	293	287	281
49	57	56	55	97	96	96	95	92	90	89	87	85	83	81	79	77	75	73	71
45-49	531	521	514	863	855	856	845	832	820	808	796	784	772	760	748	736	724	712	700

MEAN	27.0	27.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
STDEV	7.0	7.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
R1	0.6119	0.6052	0.0243	0.0273	0.0302	0.0331	0.0355	0.0381	0.0402	0.0424	0.0445	0.0463	0.0481	0.0495	0.0509
MED	25.96	25.99	27.36	27.38	27.40	27.41	27.43	27.44	27.46	27.47	27.48	27.49	27.49	27.51	27.51
SKEW	0.512	0.501	0.764	0.747	0.732	0.717	0.703	0.691	0.679	0.668	0.658	0.649	0.640	0.632	0.625
PART	0.2125	0.2179	0.0088	0.0101	0.0113	0.0125	0.0136	0.0148	0.0157	0.0167	0.0176	0.0184	0.0192	0.0198	0.0204
PAR2	0.5493	0.5470	0.2072	0.2092	0.2112	0.2131	0.2144	0.2162	0.2172	0.2187	0.2199	0.2210	0.2224	0.2231	0.2240
AO	13.08	12.63	17.94	17.83	17.72	17.63	17.56	17.50	17.44	17.39	17.35	17.32	17.29	17.28	17.28
K	0.350	0.400	0.800	0.850	0.900	0.950	1.000	1.050	1.100	1.150	1.200	1.250	1.300	1.350	1.400
H	0.665	0.680	2.883	2.949	3.014	3.080	3.146	3.209	3.272	3.334	3.394	3.454	3.512	3.570	3.627
12	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0
13	236	606	0	0	0	0	0	0	0	0	0	0	0	0	0
14	2961	4037	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	639	931	0	0	0	0	0	0	0	0	0	0	0	0	0
15	11098	11995	0	0	0	0	0	1	1	1	1	2	2	2	2
16	23253	23166	6	10	15	21	27	34	41	50	58	66	75	82	89
17	35849	34938	129	174	225	280	332	391	442	498	551	600	652	688	727
18	46620	45413	1065	1279	1495	1710	1895	2094	2254	2428	2585	2724	2873	2970	3077
19	53121	52068	5343	5845	6317	6762	7112	7487	7765	8074	8342	8578	8834	8991	9174
15-19	33988	33516	1309	1461	1610	1755	1873	2001	2101	2210	2307	2394	2487	2547	2614
20	56321	55611	16949	17476	17962	18418	18726	19093	19319	19617	19865	20082	20343	20471	20656
21	57003	56638	34537	34624	34724	34847	34830	34924	34879	34959	35000	35033	35138	35103	35159
22	56405	56321	55651	55143	54721	54391	53973	53702	53330	53122	52897	52695	52585	52355	52240
23	54955	55110	74782	73877	73094	72439	71754	71208	70611	70179	69748	69363	69065	68688	68427
24	53007	53243	87519	86575	85733	85007	84290	83664	83031	82521	82019	81571	81182	80761	80429
20-24	55546	55384	53888	53539	53243	53021	52714	52518	52234	52079	51906	51749	51663	51476	51382
25	50940	51243	94640	93963	93340	92790	92271	91774	91300	90887	90478	90115	89773	89437	89154
26	48754	49087	96393	96133	95877	95645	95453	95219	95026	94830	94631	94461	94271	94119	93976
27	46192	46519	91216	91317	91384	91437	91532	91544	91607	91615	91616	91629	91591	91591	91607
28	43726	44031	83633	84005	84326	84606	84932	85153	85430	85620	85802	85982	86094	86279	86407
29	41091	41358	73228	73645	73994	74409	74420	74726	75091	75354	75614	75863	76041	76296	76478
25-29	46141	46448	87727	87729	87714	87697	87722	87683	87691	87661	87628	87610	87554	87549	87524
30	38249	38466	60256	60688	61070	61396	61767	62049	62386	62625	62867	63093	63257	63493	63656
31	35413	35580	48981	49330	49638	49894	50192	50420	50698	50887	51086	51268	51400	51597	51726
32	32765	32885	39385	39637	39858	40034	40248	40410	40617	40747	40892	41022	41114	41262	41350
33	30217	30295	31317	31477	31614	31713	31846	31943	32079	32152	32243	32320	32371	32469	32518
34	27806	27851	25251	25350	25432	25484	25567	25625	25716	25757	25817	25865	25895	25965	25959
30-34	32890	33015	41038	41296	41522	41704	41924	42089	42299	42434	42581	42714	42808	42957	43049
35	25482	25497	20178	20223	20258	20268	20306	20327	20379	20389	20419	20439	20448	20490	20500
36	23175	23166	15942	15945	15941	15919	15920	15913	15930	15916	15920	15917	15907	15925	15918
37	20961	20931	12489	12461	12430	12384	12359	12330	12322	12290	12274	12254	12231	12229	12209
38	18777	18731	9667	9619	9570	9511	9469	9426	9400	9357	9329	9297	9265	9250	9221
39	16455	16397	7307	7249	7191	7126	7075	7026	6991	6943	6908	6871	6835	6813	6781
35-39	20970	20944	13116	13099	13078	13041	13026	13004	13004	12979	12970	12956	12937	12942	12926
40	13856	13792	5299	5240	5182	5119	5068	5020	4982	4935	4899	4862	4827	4802	4776
41	11084	11022	3646	3593	3542	3488	3442	3399	3364	3324	3292	3259	3228	3204	3170
42	8536	8479	2413	2370	2328	2284	2247	2212	2183	2151	2124	2097	2073	2053	2030
43	6147	6100	1493	1460	1429	1397	1369	1344	1322	1299	1279	1259	1241	1226	1210
44	4052	4016	844	823	802	781	763	746	732	717	704	691	679	669	659
40-44	8735	8682	2739	2697	2657	2614	2578	2544	2517	2485	2460	2434	2410	2391	2369
45	2461	2438	450	437	425	412	401	391	383	374	366	359	352	346	340
46	1515	1499	248	240	233	226	219	213	208	203	198	194	190	186	182
47	891	881	137	132	128	124	120	117	114	111	108	106	103	101	99
48	461	455	68	65	63	61	59	58	56	54	53	52	51	50	49
49	125	123	18	17	17	16	16	15	15	14	14	14	13	13	13
45-49	1091	1079	184	178	173	168	163	159	155	151	148	145	142	139	137

MEAN	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
STDEV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1	0.0903	0.0935	0.0964	0.0991	0.1019	0.1044	0.1062	0.1086	0.1102	0.1120	0.1138	0.1150	0.1162	0.1175	0.1189	0.1199	0.1189	0.1189
2	0.2739	0.2740	27.41	27.43	27.43	27.44	27.44	27.45	27.46	27.46	27.47	27.48	27.48	27.50	27.50	27.50	27.50	27.50
3	0.4639	0.4609	0.4600	0.4591	0.4584	0.4576	0.4576	0.4573	0.4569	0.4565	0.4562	0.4557	0.4557	0.4554	0.4538	0.4530	0.4530	0.4530
4	0.0368	0.0384	0.0399	0.0412	0.0426	0.0439	0.0448	0.0460	0.0477	0.0486	0.0486	0.0486	0.0482	0.0482	0.0482	0.0510	0.0510	0.0510
5	0.2795	0.2756	0.2766	0.2774	0.2785	0.2794	0.2798	0.2808	0.2812	0.2827	0.2833	0.2837	0.2839	0.2839	0.2845	0.2845	0.2845	0.2845
6	16.01	15.94	15.86	15.81	15.74	15.70	15.67	15.63	15.61	15.59	15.57	15.57	15.56	15.57	15.56	15.56	15.56	15.56
7	1.400	1.450	1.400	1.450	1.400	1.450	1.400	1.450	1.400	1.450	1.400	1.450	1.400	1.450	1.400	1.450	1.400	1.450
8	2.586	2.636	2.686	2.735	2.782	2.829	2.877	2.923	2.968	3.012	3.056	3.099	3.143	3.183	3.221	3.221	3.183	3.221
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	26	31	36	41	47	53	57	64	68	73	79	82	86	90	94	94	90	94
16	471	527	580	631	687	736	777	828	864	903	945	970	998	1027	1057	1027	1057	1057
17	2319	2484	2637	2778	2928	3063	3159	3288	3375	3467	3570	3627	3691	3758	3830	3758	3830	3830
18	6822	7095	7340	7559	7793	8000	8134	8330	8450	8581	8737	8808	8901	8996	9102	8996	9102	9102
19	15394	15651	15875	16068	16291	16482	16577	16769	16859	16971	17128	17172	17256	17345	17453	17345	17453	17453
20-24	5006	5158	5294	5415	5549	5667	5741	5856	5923	5999	6092	6132	6186	6243	6307	6243	6307	6307
21	28571	28639	28688	28722	28810	28876	28844	28945	28933	28956	29055	29022	29052	29091	29160	29091	29160	29160
22	43074	42883	42711	42541	42388	42333	42146	42107	41963	41863	41859	41721	41664	41615	41603	41615	41603	41603
23	57825	57442	57084	56491	56243	55942	55779	55523	55328	55238	55203	55015	54886	54759	54669	54759	54669	54669
24	70027	69599	69124	68725	68377	68055	67711	67472	67180	66918	66760	66506	66334	66156	66009	66156	66009	66009
25	77792	77358	76954	76582	76236	75916	75603	75348	75071	74807	74626	74383	74205	74010	73837	74010	73837	73837
26	55458	55177	54912	54665	54470	54285	54049	53930	53736	53574	53507	53329	53228	53126	53055	53126	53055	53055
27	82402	82109	81834	81582	81326	81092	80886	80688	80495	80295	80151	79979	79849	79692	79542	79692	79542	79542
28	83677	83776	83687	83609	83405	83354	83263	83201	83114	83052	82994	82928	82874	82789	82789	82789	82789	82789
29	80549	80616	80681	80747	80765	80791	80868	80871	80920	80932	80938	80978	81007	81002	80976	81002	80976	80976
30	75518	75721	75916	76105	76237	76371	76561	76654	76804	76912	76988	77120	77223	77292	77333	77292	77333	77333
31	67670	67927	68173	68410	68591	68771	69003	69133	69324	69475	69576	69748	69875	69978	70051	69978	70051	70051
32	78002	78030	78058	78090	78122	78134	78122	78149	78146	78146	78141	78164	78181	78167	78138	78167	78138	78138
33	58033	58270	58497	58714	58883	59048	59260	59376	59552	59695	59777	59938	60047	60143	60211	60143	60211	60211
34	48895	49092	49282	49461	49602	49740	49917	50009	50157	50281	50339	50478	50563	50646	50705	50646	50705	50705
35	40756	40904	41047	41181	41287	41389	41524	41588	41703	41800	41834	41945	42003	42068	42118	42068	42118	42118
36	33584	33681	33776	33863	33932	33997	34089	34123	34202	34271	34280	34361	34394	34439	34468	34439	34468	34468
37	27960	28026	28091	28150	28209	28242	28309	28329	28389	28444	28443	28508	28530	28568	28593	28568	28593	28593
38	41846	41995	42138	42274	42380	42463	42620	42685	42801	42898	42934	43046	43107	43173	43218	43173	43218	43218
39	23052	23086	23122	23154	23178	23202	23244	23248	23287	23325	23313	23361	23370	23397	23416	23397	23416	23416
40	18775	18792	18791	18798	18803	18807	18825	18815	18835	18856	18834	18862	18877	18888	18888	18888	18888	18888
41	15148	15134	15122	15109	15096	15084	15064	15062	15064	15071	15041	15056	15043	15048	15050	15048	15050	15050
42	12067	12036	12009	11981	11956	11932	11916	11886	11876	11870	11835	11837	11817	11814	11809	11814	11809	11809
43	9337	9330	9320	9319	9319	9319	9314	9319	9320	9316	9310	9309	9307	9307	9317	9307	9317	9317
44	15684	15675	15669	15661	15653	15645	15649	15630	15636	15646	15618	15636	15626	15633	15636	15633	15636	15636
45	6988	6944	6903	6863	6828	6794	6764	6729	6706	6688	6651	6639	6613	6599	6587	6613	6599	6587
46	4937	4895	4857	4819	4786	4754	4725	4693	4669	4648	4618	4580	4580	4566	4553	4580	4566	4553
47	3353	3317	3283	3251	3222	3195	3169	3142	3121	3104	3078	3064	3043	3031	3019	3043	3031	3019
48	2126	2099	2073	2048	2025	2004	1984	1963	1947	1933	1913	1902	1886	1876	1866	1876	1866	1866
49	1233	1214	1196	1178	1163	1148	1134	1120	1109	1098	1086	1078	1067	1060	1053	1067	1060	1053
50-54	3727	3694	3662	3632	3605	3579	3555	3529	3510	3495	3469	3457	3438	3426	3415	3438	3426	3415
55	671	659	648	637	628	619	610	602	595	589	581	575	569	564	560	569	564	560
56	377	370	363	356	350	345	340	334	330	326	322	318	315	312	309	315	312	309
57	210	206	202	198	195	192	189	186	183	181	178	176	174	173	171	174	173	171
58	105	103	101	99	97	95	94	92	91	90	89	88	87	86	85	87	86	85
59	28	27	27	26	26	25	25	25	24	24	24	24	24	23	23	23	23	23
60-64	278	273	268	263	259	255	251	248	245	242	239	236	234	232	230	234	232	230

MEAN	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
STDEV	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
R1	0.1631	0.1665	0.1701	0.1728	0.1758	0.1784	0.1808	0.1828	0.1855	0.1869	0.1890	0.1907	0.1921	0.1933	0.1946
R2	27.34	27.36	27.36	27.38	27.39	27.40	27.41	27.42	27.42	27.44	27.44	27.44	27.46	27.46	27.47
SKW	0.550	0.541	0.533	0.525	0.517	0.510	0.504	0.498	0.492	0.487	0.482	0.477	0.473	0.469	0.465
PART	0.0682	0.0705	0.0728	0.0747	0.0768	0.0786	0.0803	0.0817	0.0836	0.0847	0.0861	0.0874	0.0884	0.0893	0.0902
PAR2	0.3327	0.3332	0.3341	0.3344	0.3350	0.3356	0.3360	0.3362	0.3371	0.3371	0.3376	0.3381	0.3383	0.3384	0.3386
AO	14.51	14.39	14.29	14.20	14.11	14.03	13.96	13.90	13.82	13.78	13.74	13.70	13.66	13.65	13.63
K	1.100	1.150	1.200	1.250	1.300	1.350	1.400	1.450	1.500	1.550	1.600	1.650	1.700	1.750	1.800
H	2.019	2.059	2.099	2.140	2.178	2.216	2.256	2.293	2.329	2.368	2.402	2.438	2.474	2.510	2.544
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	1	4	6	9	12	15	17	20
14	35	54	80	105	135	166	197	226	261	285	315	342	366	385	405
10-14	7	11	16	21	27	33	39	45	53	58	65	71	76	81	85
15	544	630	722	802	886	965	1038	1104	1184	1236	1300	1358	1407	1449	1492
16	2221	2387	2561	2702	2848	2980	3100	3204	3334	3412	3511	3599	3672	3733	3797
17	6133	6350	6581	6752	6932	7092	7233	7349	7511	7589	7704	7805	7883	7946	8013
18	13365	13541	13749	13875	14023	14151	14258	14335	14486	14522	14614	14694	14745	14780	14825
19	23705	23732	23817	23816	23855	23882	23899	23885	23970	23926	23954	23977	23971	23953	23950
15-19	9193	9328	9486	9589	9709	9814	9906	9976	10097	10137	10217	10287	10336	10372	10415
20	36233	36063	35979	35820	35714	35614	35517	35395	35388	35257	35200	35154	35081	35006	34945
21	48146	47801	47549	47248	47002	46777	46570	46344	46231	46019	45872	45750	45605	45471	45348
22	58916	58490	58151	57787	57467	57179	56917	56663	56464	56220	56019	55856	55676	55515	55358
23	66975	66568	66224	65877	65555	65267	65009	64741	64538	64310	64096	63925	63744	63587	63426
24	71532	71215	70930	70659	70390	70152	69940	69721	69532	69352	69159	69009	68852	68723	68580
20-24	56360	56028	55767	55478	55230	54998	54791	54569	54331	54231	54069	53939	53792	53660	53531
25	73884	73709	73537	73389	73223	73080	72958	72830	72697	72602	72469	72375	72278	72207	72115
26	74137	74124	74090	74086	74047	74024	74015	74000	73949	73961	73914	73898	73883	73890	73870
27	71196	71307	71379	71484	71547	71616	71693	71766	71782	71873	71896	71940	71988	72053	72089
28	67196	67405	67563	67758	67906	68054	68204	68354	68431	68592	68680	68779	68886	69005	69096
29	61284	61530	61721	61948	62130	62309	62485	62665	62767	62950	63067	63186	63315	63449	63561
25-29	69539	69615	69658	69733	69771	69816	69871	69923	69925	69996	70005	70036	70070	70121	70146
30	54020	54249	54425	54634	54806	54970	55127	55293	55385	55550	55661	55765	55881	55997	56098
31	46938	47134	47280	47458	47607	47745	47875	48018	48092	48230	48327	48410	48508	48601	48686
32	40456	40611	40722	40861	40979	41086	41184	41297	41350	41457	41535	41595	41670	41738	41805
33	34544	34655	34728	34827	34911	34985	35049	35130	35161	35235	35292	35328	35380	35422	35469
34	29684	29765	29815	29887	29951	30004	30049	30111	30131	30186	30232	30257	30297	30327	30365
30-34	41228	41283	41394	41533	41651	41758	41857	41970	42024	42132	42210	42271	42347	42417	42485
35	25294	25346	25371	25417	25458	25490	25514	25557	25563	25599	25632	25644	25671	25688	25715
36	21317	21341	21344	21364	21384	21396	21401	21424	21418	21435	21454	21453	21466	21470	21486
37	17814	17814	17797	17796	17798	17792	17780	17785	17768	17775	17775	17763	17764	17756	17761
38	14708	14689	14657	14639	14625	14605	14580	14571	14545	14532	14528	14507	14498	14480	14476
39	11855	11823	11781	11750	11725	11695	11662	11642	11610	11587	11575	11547	11531	11507	11495
35-39	18198	18203	18190	18193	18198	18196	18187	18196	18181	18184	18193	18183	18186	18180	18186
40	9166	9127	9080	9043	9012	8977	8939	8914	8879	8852	8834	8804	8783	8756	8740
41	6723	6683	6638	6600	6568	6533	6496	6466	6436	6408	6388	6359	6338	6311	6294
42	4741	4704	4664	4630	4600	4568	4535	4510	4481	4455	4437	4411	4391	4367	4351
43	3124	3093	3061	3033	3008	2983	2956	2935	2912	2891	2876	2855	2839	2820	2806
44	1882	1860	1837	1816	1798	1780	1761	1746	1729	1714	1703	1688	1676	1663	1652
40-44	5127	5093	5056	5024	4997	4968	4938	4915	4888	4864	4847	4824	4805	4783	4769
45	1058	1044	1030	1016	1005	993	981	971	961	951	944	935	927	919	912
46	611	602	593	584	577	570	562	556	550	543	539	533	528	523	519
47	346	341	335	330	326	322	317	314	310	307	304	301	298	295	293
48	175	172	169	167	164	162	160	158	156	154	153	151	150	149	147
49	47	46	45	45	44	43	43	42	42	41	41	41	40	40	40
45-49	447	441	434	428	423	418	413	408	404	399	396	392	389	385	382

MEAN	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
STDEV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.5
R1	0.0604	0.0621	0.0635	0.0650	0.0662	0.0672	0.0681	0.0691	0.0697	0.0272	0.0349	0.0429	0.0501	0.0569	0.0635
MED	28.45	28.46	28.47	28.47	28.48	28.48	28.49	28.49	28.49	28.08	28.11	28.14	28.17	28.20	28.23
SKBW	0.528	0.522	0.517	0.511	0.507	0.503	0.499	0.495	0.492	0.665	0.647	0.630	0.613	0.598	0.583
PAR1	0.0254	0.0262	0.0269	0.0276	0.0281	0.0285	0.0289	0.0293	0.0296	0.0086	0.0115	0.0147	0.0178	0.0208	0.0238
PAR2	0.2210	0.2220	0.2229	0.2238	0.2246	0.2251	0.2258	0.2265	0.2271	0.2438	0.2474	0.2514	0.2543	0.2568	0.2595
AO	16.85	16.82	16.82	16.80	16.80	16.81	16.82	16.83	16.86	18.01	17.73	17.45	17.21	17.00	16.78
K	1.400	1.450	1.500	1.550	1.600	1.650	1.700	1.750	1.800	0.450	0.500	0.550	0.600	0.650	0.700
M	2.743	2.790	2.840	2.884	2.932	2.979	3.023	3.065	3.110	1.296	1.336	1.377	1.420	1.464	1.506
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	5	6	6	7	7	8	8	9	9	0	0	0	1	1	3
16	141	153	163	174	182	189	195	201	205	3	9	23	45	75	114
17	908	958	1000	1043	1077	1102	1128	1154	1170	90	188	333	504	694	907
18	3237	3345	3437	3531	3608	3663	3720	3779	3821	979	1504	2100	2665	3203	3737
19	8456	8608	8730	8875	8989	9073	9161	9258	9347	6081	7334	8512	9440	10213	10920
15-19	2549	2614	2669	2726	2773	2807	2842	2880	2909	1430	1807	2194	2531	2837	3136
20	17517	17645	17760	17880	17989	18069	18157	18263	18365	20825	21726	22530	23009	23340	23646
21	28926	28942	28963	28991	29024	29036	29058	29108	29172	39941	39508	39223	38804	38383	38047
22	42357	42234	42138	42047	41983	41909	41845	41815	41823	57368	55966	54850	53778	52813	51992
23	55625	55380	55182	54981	54828	54677	54531	54419	54365	69284	67704	66366	65136	64031	63055
24	66543	66231	65978	65709	65499	65302	65101	64926	64824	75141	73920	72816	71809	70889	70041
20-24	42193	42086	42004	41922	41865	41799	41738	41706	41710	52512	51765	51157	50507	49891	49356
25	75433	75143	74913	74652	74453	74273	74076	73894	73789	76969	76298	75630	75025	74461	73905
26	81632	81442	81305	81122	80997	80895	80762	80627	80568	75933	75790	75574	75397	75222	75009
27	82678	82601	82564	82475	82433	82410	82350	82276	82262	72144	72379	72508	72660	72794	72864
28	81231	81282	81357	81381	81435	81506	81537	81543	81591	67555	68031	68394	68777	69134	69417
29	75713	75841	75977	76071	76178	76298	76383	76439	76514	61847	62416	62880	63365	63825	64215
25-29	79337	79262	79223	79140	79099	79076	79022	78955	78945	70889	70983	70997	71045	71087	71082
30	67066	67211	67350	67463	67572	67689	67783	67848	67911	55403	55950	56408	56890	57350	57750
31	58077	58220	58345	58461	58560	58664	58756	58823	58869	49170	49646	50050	50480	50895	51261
32	49535	49660	49761	49866	49946	50028	50109	50169	50196	43493	43875	44201	44554	44898	45260
33	41600	41698	41769	41853	41908	41964	42027	42074	42081	38278	38559	38797	39062	39323	39566
34	35229	35313	35370	35446	35492	35538	35596	35643	35646	33789	33986	34152	34346	34540	34719
30-34	50301	50420	50519	50618	50695	50777	50854	50911	50941	44027	44403	44722	45067	45401	45699
35	29451	29515	29552	29614	29645	29676	29723	29763	29759	29676	29796	29893	30017	30144	30265
36	24254	24297	24313	24357	24372	24386	24419	24447	24434	25854	25904	25940	26000	26065	26130
37	19740	19761	19758	19784	19783	19782	19800	19816	19794	22391	22384	22367	22373	22385	22401
38	15826	15829	15811	15821	15806	15792	15797	15802	15773	19201	19150	19091	19053	19022	18998
39	12356	12344	12315	12312	12288	12264	12258	12254	12220	16105	16021	15933	15863	15800	15746
35-39	20325	20349	20350	20377	20379	20380	20399	20417	20396	22645	22651	22645	22661	22683	22708
40	9232	9212	9177	9165	9136	9107	9094	9084	9049	12978	12877	12774	12685	12604	12532
41	6532	6508	6473	6456	6427	6398	6382	6369	6337	9935	9831	9727	9634	9548	9470
42	4436	4412	4381	4364	4337	4311	4295	4281	4254	7321	7225	7129	7042	6960	6886
43	2810	2790	2765	2750	2729	2708	2694	2682	2661	5045	4965	4886	4813	4744	4681
44	1625	1611	1593	1582	1567	1552	1542	1533	1518	3181	3123	3064	3010	2958	2911
40-44	4927	4907	4878	4863	4839	4815	4801	4790	4764	7692	7604	7516	7437	7363	7296
45	883	874	863	856	846	837	830	825	816	1861	1822	1784	1748	1714	1683
46	496	490	483	479	473	467	463	460	454	1110	1085	1060	1036	1014	994
47	277	273	269	267	264	260	258	256	253	641	625	610	596	582	570
48	138	137	135	134	132	130	129	128	127	327	319	311	303	296	290
49	37	37	36	36	35	35	35	34	34	88	86	84	82	80	78
45-49	366	362	357	354	350	346	343	341	337	805	787	770	753	737	723

MBAN	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
STDEV	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
R1	0.1277	0.1300	0.1319	0.1335	0.1352	0.1370	0.1385	0.0542	0.0676	0.0811	0.0930	0.1041	0.1142	0.1241	0.1329
MED	28.45	28.45	28.46	28.47	28.48	28.48	28.48	27.98	28.02	28.05	28.09	28.12	28.16	28.18	28.21
SKEW	0.442	0.436	0.431	0.427	0.422	0.419	0.415	0.602	0.586	0.570	0.554	0.539	0.524	0.511	0.498
PART	0.0559	0.0582	0.0593	0.0602	0.0612	0.0622	0.0631	0.0153	0.0205	0.0261	0.0313	0.0364	0.0413	0.0461	0.0505
PAR2	0.2822	0.2831	0.2837	0.2842	0.2847	0.2855	0.2861	0.3097	0.3118	0.3147	0.3170	0.3191	0.3210	0.3233	0.3251
AO	15.02	14.97	14.95	14.93	14.90	14.88	14.87	17.87	17.50	17.15	16.81	16.50	16.22	15.93	15.68
K	1.500	1.550	1.600	1.650	1.700	1.750	1.800	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650
M	2.183	2.223	2.261	2.300	2.336	2.372	2.407	0.842	0.867	0.896	0.925	0.957	0.989	1.023	1.057
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	1	1	2	3	3	0	0	0	0	0	0	0	0
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	114	262	286	306	327	349	366	0	1	2	6	14	26	43	65
16	1120	1327	1385	1434	1484	1538	1582	14	49	118	221	356	516	703	900
17	3732	3749	3840	3915	3994	4081	4149	304	640	1102	1608	2140	2668	3210	3716
18	8367	8355	8456	8537	8623	8729	8807	2548	3800	5096	6232	7248	8134	8966	9675
19	15350	15423	15494	15545	15605	15700	15758	12894	14719	16273	17367	18214	18860	19446	19887
15-19	5737	5823	5892	5948	6007	6080	6132	3152	3842	4518	5087	5595	6041	6474	6849
20	24849	24890	24897	24890	24895	24952	24972	35258	34908	34715	34365	34024	33675	33429	33163
21	35161	35106	35021	34933	34855	34844	34790	53446	51445	49924	48562	47406	46388	45568	44825
22	45918	45784	45625	45472	45326	45254	45142	64163	62077	60335	58782	57434	56235	55222	54314
23	55607	55424	55222	55035	54846	54730	54579	68675	67248	65925	64702	63594	62577	61678	60863
24	63017	62822	62614	62425	62225	62087	61923	69130	68449	67708	66982	66284	65610	64980	64398
20-24	44911	44805	44676	44551	44429	44373	44280	58134	56826	55721	54679	53749	52897	52175	51513
25	68814	68658	68492	68346	68179	68060	67921	67705	67615	67390	67136	66854	66552	66235	65935
26	72686	72607	72522	72457	72361	72294	72214	65200	65503	65658	65775	65840	65862	65835	65803
27	73017	73010	73001	73008	72980	72962	72939	61622	62130	62509	62860	63155	63402	63583	63750
28	71749	71818	71889	71971	72018	72057	72098	57973	58568	59061	59544	59979	60372	60696	61001
29	67707	67815	67928	68049	68140	68207	68283	53940	54525	55035	55551	56032	56482	56866	57233
25-29	70795	70782	70766	70766	70736	70716	70691	61288	61668	61931	62173	62372	62534	62643	62744
30	61386	61492	61608	61728	61827	61890	61970	49569	50083	50542	51020	51475	51909	52284	52646
31	54641	54735	54844	54952	55049	55103	55180	45280	45704	46085	46496	46892	47278	47613	47940
32	48066	48142	48234	48324	48411	48452	48519	41321	41650	41946	42275	42597	42918	43196	43470
33	41749	41800	41871	41937	42008	42033	42085	37579	37871	38026	38271	38513	38761	38972	39183
34	36440	36481	36541	36598	36663	36683	36732	34160	34323	34462	34636	34811	34996	35152	35310
30-34	48456	48530	48620	48708	48792	48832	48897	41582	41915	42212	42540	42858	43172	43444	43710
35	31454	31480	31526	31567	31621	31633	31674	30920	31017	31092	31200	31310	31433	31533	31638
36	26785	26794	26823	26848	26889	26890	26920	27775	27816	27834	27883	27934	28000	28047	28101
37	22566	22560	22572	22581	22606	22597	22615	24813	24806	24777	24775	24776	24791	24792	24799
38	18747	18726	18724	18718	18729	18711	18716	21954	21909	21843	21800	21758	21732	21693	21661
39	15176	15145	15131	15113	15112	15086	15082	19001	18929	18836	18762	18689	18630	18561	18499
35-39	22946	22941	22955	22965	22992	22983	23001	24893	24896	24876	24884	24893	24917	24925	24940
40	11766	11729	11706	11681	11671	11641	11630	15803	15715	15607	15515	15423	15343	15255	15175
41	8642	8604	8577	8549	8534	8504	8489	12486	12394	12285	12188	12090	12003	11909	11824
42	6094	6059	6033	6006	5990	5962	5945	9497	9410	9309	9217	9123	9038	8949	8864
43	4011	3982	3959	3936	3921	3898	3883	6755	6682	6597	6518	6438	6364	6288	6215
44	2411	2390	2373	2355	2343	2327	2315	4398	4342	4278	4218	4158	4101	4043	3987
40-44	6585	6553	6530	6505	6492	6466	6452	9788	9708	9616	9531	9447	9370	9289	9212
45	1354	1340	1329	1318	1310	1299	1292	2643	2606	2563	2523	2482	2443	2404	2366
46	781	772	765	758	753	746	742	1613	1588	1560	1533	1506	1480	1454	1429
47	443	438	434	430	427	423	421	943	928	911	895	878	862	846	831
48	224	222	220	218	216	214	213	486	478	469	460	451	443	434	426
49	60	60	59	59	58	58	57	131	129	127	124	122	120	117	115
45-49	572	566	561	556	553	548	545	1163	1146	1126	1107	1088	1070	1051	1033

MEAN	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	30.0	30.0	30.0	30.0
STDEV	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	5.5	5.5	5.5	5.5
R1	0.3714	0.3778	0.3831	0.3882	0.3922	0.5679	0.5652	0.5611	0.5580	0.5548	0.5525	0.0243	0.0292	0.0342	0.0389
MD	28.28	28.30	28.33	28.35	28.37	28.40	28.42	28.43	28.45	28.47	29.25	29.27	29.29	29.31	29.31
SKEW	0.342	0.331	0.321	0.311	0.301	0.277	0.269	0.261	0.253	0.245	0.236	0.530	0.516	0.503	0.491
PAR1	0.1304	0.1375	0.1440	0.1502	0.1558	0.1768	0.1839	0.1904	0.1972	0.2037	0.2100	0.0087	0.0108	0.0130	0.0151
PAR2	0.4561	0.4554	0.4548	0.4545	0.4540	0.5230	0.5209	0.5184	0.5165	0.5146	0.5132	0.1988	0.2022	0.2057	0.2086
AO	14.07	13.68	13.32	12.97	12.65	14.78	14.27	13.79	13.32	12.87	12.42	17.85	17.65	17.47	17.29
K	0.450	0.500	0.550	0.600	0.650	0.200	0.250	0.300	0.350	0.400	0.450	0.650	0.700	0.750	0.800
H	0.322	0.340	0.360	0.380	0.400	0.022	0.030	0.039	0.050	0.063	0.076	1.261	1.305	1.351	1.396
12	0	0	0	0	6	0	0	0	0	1	23	0	0	0	0
13	0	7	42	113	215	0	0	5	74	263	564	0	0	0	0
14	172	389	662	972	1284	11	221	757	1517	2309	3063	0	0	0	0
10-14	34	79	141	217	301	2	44	152	318	515	730	0	0	0	0
15	1873	2547	3161	3729	4213	2370	4250	5760	6964	7856	8563	0	0	0	0
16	7307	8116	8746	9283	9694	14353	15345	15815	16140	16315	16449	4	9	16	26
17	16707	17022	17219	17390	17481	28850	27777	26867	26180	25598	25134	88	142	212	289
18	27900	27515	27148	26853	26554	38922	37389	36055	34956	34016	33230	744	996	1269	1532
19	37114	36487	35753	35141	34575	43587	42479	41392	40399	39500	38702	3805	4388	4951	5432
15-19	18220	18337	18405	18479	18503	25616	25448	25178	24928	24657	24416	928	1107	1289	1456
20	43968	43055	42239	41535	40890	45215	44632	43965	43278	42610	41977	12108	12712	13275	13695
21	48103	47327	46614	45978	45386	45606	45398	45089	44708	44300	43877	24658	24801	24973	25025
22	50366	49826	49313	48836	48383	45347	45367	45314	45179	45001	44781	39210	38750	38413	38017
23	51373	51077	50780	50485	50198	44928	45071	45177	45216	45212	45158	52617	51752	51058	50351
24	51465	51377	51272	51147	51016	44439	44638	44834	44983	45099	45167	62712	61762	60967	60178
20-24	49055	48533	48044	47596	47175	45107	45021	44876	44673	44444	44192	38261	37955	37737	37453
25	51061	51138	51192	51214	51223	43925	44145	44386	44601	44797	44951	69529	68757	68092	67428
26	50223	50422	50597	50737	50861	43304	43525	43785	44033	44277	44488	73166	72713	72312	71900
27	48915	49185	49436	49651	49852	42575	42783	43039	43294	43555	43794	73244	73111	72983	72838
28	47496	47805	48101	48363	48616	41846	42037	42278	42527	42788	43037	71516	71660	71776	71875
29	45872	46185	46491	46767	47038	41109	41276	41494	41723	41969	42208	67725	68043	68312	68570
25-29	48713	48947	49163	49346	49518	42552	42753	42996	43236	43477	43695	71036	70857	70695	70522
30	43988	44277	44565	44827	45087	40269	40409	40597	40795	41012	41226	62359	62744	63068	63393
31	41926	42178	42434	42667	42903	39240	39352	39508	39673	39856	40040	56586	56977	57305	57644
32	39913	40123	40338	40535	40738	38215	38301	38425	38555	38703	38852	50963	51320	51615	51931
33	37861	38024	38194	38350	38514	37098	37158	37251	37348	37458	37572	45518	45815	46053	46321
34	35706	35827	35957	36076	36205	35707	35745	35812	35879	35957	36039	40654	40898	41088	41315
30-34	39879	40086	40297	40491	40689	38106	38193	38319	38450	38597	38746	51216	51551	51826	52121
35	33528	33608	33698	33778	33870	34226	34243	34285	34323	34371	34421	36055	36236	36370	36545
36	31241	31282	31333	31375	31431	32559	32557	32576	32588	32606	32627	31667	31784	31860	31979
37	28948	28953	28967	28975	28996	30802	30784	30781	30770	30761	30754	27614	27671	27692	27758
38	26565	26538	26520	26496	26485	28862	28829	28807	28774	28742	28710	23820	23824	23797	23815
39	23846	23794	23748	23697	23660	26455	26410	26373	26323	26271	26219	20081	20042	19978	19956
35-39	28826	28835	28853	28864	28888	30581	30565	30564	30556	30550	30546	27848	27912	27939	28010
40	20569	20498	20433	20364	20306	23301	23248	23200	23139	23074	23007	16255	16187	16098	16048
41	16855	16776	16701	16623	16554	19497	19442	19390	19323	19253	19179	12494	12411	12313	12247
42	13295	13216	13141	13061	12991	15705	15652	15600	15535	15464	15392	9240	9156	9060	8991
43	9808	9738	9669	9598	9533	11831	11785	11737	11679	11617	11552	6389	6314	6231	6168
44	6622	6566	6511	6454	6401	8156	8120	8082	8036	7986	7934	4042	3984	3920	3871
40-44	13430	13359	13291	13220	13157	15698	15649	15602	15542	15479	15413	9684	9610	9525	9465
45	4106	4067	4028	3988	3951	5149	5124	5097	5065	5030	4993	2371	2331	2288	2254
46	2571	2544	2518	2490	2465	3273	3256	3237	3215	3191	3165	1417	1390	1362	1340
47	1528	1511	1495	1477	1461	1963	1952	1940	1926	1911	1895	819	803	786	772
48	795	786	777	768	759	1028	1022	1015	1008	1000	991	418	410	401	393
49	216	214	211	209	206	280	279	277	275	272	270	113	110	108	106
45-49	1843	1824	1806	1787	1769	2339	2326	2313	2298	2281	2263	1028	1009	989	973

MEAN	31.0	31.0	31.0	31.0	31.0	31.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
STDEV	6.5	6.5	6.5	6.5	7.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
R1	0.2117	0.2149	0.2172	0.2202	0.2895	0.2953	0.0204	0.0263	0.0320	0.0378	0.0433	0.0488	0.0542	0.0591	0.0639
RED	30.75	30.75	30.76	30.76	30.84	30.85	31.57	31.59	31.61	31.62	31.64	31.65	31.67	31.68	31.69
SKEW	0.122	0.118	0.113	0.109	0.085	0.078	0.252	0.280	0.229	0.219	0.209	0.200	0.191	0.183	0.175
PAR1	0.1014	0.1038	0.1058	0.1082	0.1230	0.1280	0.0074	0.0098	0.0123	0.0149	0.0175	0.0201	0.0228	0.0252	0.0276
PAR2	0.3245	0.3254	0.3258	0.3269	0.3854	0.3862	0.1807	0.1859	0.1899	0.1940	0.1975	0.2009	0.2042	0.2069	0.2095
AO	12.92	12.81	12.70	12.60	12.96	12.69	17.97	17.70	17.48	17.25	17.05	16.86	16.69	16.52	16.37
K	1.350	1.400	1.450	1.500	0.800	0.850	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
H	0.646	0.674	0.701	0.728	0.011	0.033	0.305	0.338	0.372	0.407	0.442	0.477	0.513	0.549	0.585
12	0	1	3	6	0	3	0	0	0	0	0	0	0	0	0
13	70	88	105	124	65	110	0	0	0	0	0	0	0	0	0
14	374	417	454	497	474	601	0	0	0	0	0	0	0	0	0
10-14	89	101	112	125	108	143	0	0	0	0	0	0	0	0	0
15	1149	1224	1284	1356	1730	1956	0	0	0	1	1	2	3	4	
16	2762	2864	2940	3036	4438	4705	2	4	9	17	28	42	60	80	103
17	5593	5700	5769	5871	8894	9092	39	78	127	190	261	342	430	517	607
18	9892	9971	10003	10085	14870	14904	383	579	782	1001	1214	1431	1647	1842	2030
19	15186	15208	15179	15215	21042	20889	2172	2680	3114	3530	3891	4231	4548	4809	5053
15-19	6916	6993	7035	7113	10195	10309	519	668	806	948	1079	1209	1338	1450	1559
20	21121	21076	20984	20965	26736	26448	3738	7997	8845	8852	9166	9458	9723	9915	10094
21	27169	27058	26906	26832	31778	31421	15676	15996	16150	16302	16381	16468	16552	16574	16604
22	33103	32951	32765	32652	35962	35606	25595	25434	25183	24989	24766	24595	24452	24272	24126
23	38609	38440	38245	38113	39421	39112	35306	34761	34199	33730	33270	32890	32560	32218	31927
24	43389	43225	43043	42910	42194	41957	43556	42843	42153	41557	40988	40504	40074	39648	39279
20-24	32678	32550	32389	32294	35218	34909	25502	25406	25226	24914	24783	24672	24525	24406	
25	47539	47408	47266	47156	44358	44211	49989	49315	48674	48106	47563	47093	46666	46250	45887
26	50890	50812	50729	50661	45897	45845	54521	54019	53548	53116	52701	52336	51998	51671	51385
27	53065	53038	53012	52986	46880	46908	57203	56914	56649	56392	56141	55918	55703	55497	55316
28	54523	54551	54587	54607	47490	47589	58632	58558	58502	58431	58358	58292	58219	58153	58098
29	54975	55042	55121	55172	47792	47938	58935	59027	59136	59214	59286	59348	59393	59442	59491
25-29	52198	52170	52143	52117	46483	46498	55856	55567	55302	55052	54810	54597	54396	54203	54035
30	54373	54456	54556	54619	47732	47900	58226	58424	58638	58813	58980	59125	59247	59373	59489
31	53040	53132	53243	53311	47243	47420	56753	57012	57289	57524	57752	57951	58123	58301	58462
32	51338	51428	51542	51609	46591	46764	54953	55235	55537	55797	56054	56278	56475	56679	56861
33	49229	49311	49418	49476	45694	45852	52808	53081	53376	53633	53890	54112	54309	54515	54698
34	46854	46933	47039	47096	44344	44488	50296	50550	50831	51077	51329	51546	51741	51949	52131
30-34	50967	50952	51159	51222	46321	46485	54607	54860	55134	55369	55601	55802	55979	56163	56328
35	44211	44281	44378	44428	42791	42913	47590	47808	48054	48270	48497	48691	48867	49058	49224
36	41248	41302	41385	41422	40934	41028	44614	44781	44977	45151	45338	45495	45638	45798	45935
37	38147	38182	38246	38267	38904	38966	41538	41648	41788	41910	42049	42161	42263	42384	42483
38	34845	34859	34902	34905	36594	36623	38268	38318	38399	38465	38552	38614	38671	38747	38804
39	31061	31055	31075	31060	33651	33647	34463	34456	34478	34490	34524	34536	34547	34578	34592
35-39	37902	37336	37997	38016	38575	38635	41295	41402	41539	41657	41792	41899	41997	42113	42208
40	26551	26526	26525	26495	29720	29687	29807	29751	29721	29686	29672	29640	29610	29599	29574
41	21524	21486	21468	21427	24927	24873	24482	24392	24324	24254	24204	24140	24079	24036	23982
42	16771	16725	16697	16652	20121	20054	19352	19244	19154	19064	18992	18909	18831	18768	18697
43	12204	12159	12127	12083	15184	15116	14302	14194	14100	14007	13928	13842	13760	13691	13617
44	8118	8080	8050	8012	10485	10425	9672	9579	9496	9414	9343	9267	9196	9133	9067
40-44	17034	16995	16973	16934	20088	20031	19523	19432	19359	19285	19227	19160	19095	19046	18988
45	4971	4943	4921	4894	6628	6583	6006	5938	5876	5815	5761	5705	5652	5605	5556
46	3082	3062	3046	3028	4218	4185	3765	3717	3673	3629	3591	3551	3513	3480	3445
47	1823	1811	1802	1791	2531	2510	2239	2208	2180	2153	2128	2103	2080	2058	2037
48	947	941	936	930	1326	1315	1166	1149	1134	1119	1106	1092	1080	1068	1057
49	258	256	255	253	362	359	317	312	308	304	300	297	293	290	287
45-49	2216	2203	2192	2179	3013	2990	2699	2665	2634	2604	2577	2550	2524	2500	2476

MEAN	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
STDEV	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
R1	0.0501	0.0547	0.0588	0.0627	0.0668	0.0703	0.0740	0.0770	0.0802	0.0831	0.0858	0.0882	0.0907	0.0929	0.0952
RED	32.88	32.89	32.90	32.91	32.92	32.93	32.94	32.94	32.94	32.95	32.95	32.96	32.96	32.97	32.97
SKEN	0.070	0.063	0.057	0.050	0.045	0.039	0.034	0.029	0.025	0.020	0.016	0.012	0.009	0.005	0.002
PAR1	0.0219	0.0242	0.0263	0.0283	0.0304	0.0323	0.0342	0.0358	0.0375	0.0390	0.0404	0.0417	0.0430	0.0442	0.0454
PAR2	0.1850	0.1881	0.1905	0.1928	0.1954	0.1973	0.1995	0.2011	0.2029	0.2045	0.2060	0.2072	0.2086	0.2098	0.2112
AO	16.72	16.58	16.44	16.33	16.21	16.11	16.01	15.92	15.84	15.77	15.72	15.66	15.62	15.58	15.54
K	1.000	1.050	1.100	1.150	1.200	1.250	1.300	1.350	1.400	1.450	1.500	1.550	1.600	1.650	1.700
M	0.261	0.295	0.330	0.364	0.399	0.433	0.466	0.500	0.534	0.567	0.600	0.633	0.666	0.698	0.730
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	1	2	3	4	5	7	8	10	12	14	16	18	20	22	24
16	43	56	71	86	104	121	140	157	176	195	212	229	247	263	280
17	301	361	419	476	539	595	655	705	760	810	857	899	945	984	1027
18	1142	1282	1404	1521	1645	1748	1857	1944	2037	2121	2197	2263	2335	2395	2462
19	3135	3339	3503	3654	3816	3940	4074	4172	4281	4376	4460	4531	4611	4676	4752
15-19	924	1008	1080	1148	1222	1282	1347	1398	1453	1503	1548	1588	1631	1668	1709
20	6729	6920	7057	7179	7324	7418	7532	7600	7688	7761	7825	7874	7940	7987	8054
21	11721	11827	11876	11918	11999	12025	12085	12093	12132	12159	12180	12187	12220	12231	12272
22	17841	17820	17749	17683	17672	17609	17592	17525	17500	17466	17434	17388	17377	17343	17348
23	24598	24448	24260	24089	23985	23934	23939	23598	23508	23413	23326	23228	23171	23091	23056
24	31423	31179	30907	30658	30480	30264	30105	29909	29766	29620	29489	29349	29252	29133	29062
20-24	18463	18439	18370	18305	18292	18230	18210	18145	18119	18084	18051	18005	17992	17957	17958
25	37933	37653	37353	37077	36868	36628	36442	36226	36059	35892	35742	35586	35470	35333	35244
26	43731	43476	43208	42958	42765	42547	42374	42178	42023	41869	41733	41590	41483	41354	41271
27	48486	48291	48085	47892	47740	47570	47431	47277	47153	47028	46921	46807	46721	46614	46545
28	52336	52229	52115	52007	51923	51826	51747	51659	51589	51517	51460	51395	51349	51284	51247
29	55164	55140	55113	55085	55064	55037	55014	54989	54970	54946	54936	54917	54907	54881	54872
25-29	47530	47358	47175	47004	46872	46722	46602	46466	46359	46250	46158	46059	45986	45893	45836
30	56892	56930	56968	57000	57025	57050	57067	57088	57103	57114	57134	57147	57159	57158	57164
31	57605	57693	57784	57867	57929	57999	58049	58110	58155	58197	58243	58284	58316	58340	58360
32	57683	57803	57932	58050	58138	58239	58313	58403	58470	58534	58599	58661	58706	58750	58780
33	57092	57226	57374	57510	57609	57726	57812	57919	57996	58072	58145	58219	58270	58326	58359
34	55777	55927	56095	56251	56365	56503	56606	56734	56830	56925	57016	57110	57176	57253	57301
30-34	57010	57116	57231	57336	57413	57503	57570	57651	57711	57769	57827	57884	57925	57965	57993
35	53967	54114	54284	54443	54558	54702	54809	54945	55045	55148	55244	55346	55419	55506	55560
36	51588	51718	51875	52023	52125	52261	52359	52488	52583	52681	52772	52872	52941	53029	53080
37	48861	48963	49094	49219	49299	49414	49494	49618	49685	49770	49846	49934	49991	50072	50113
38	45697	45762	45859	45952	46001	46089	46142	46230	46285	46349	46403	46472	46510	46576	46602
39	41704	41727	41784	41838	41853	41906	41929	41986	42013	42050	42078	42122	42137	42182	42189
35-39	48363	48457	48579	48695	48767	48875	48947	49051	49122	49199	49269	49349	49400	49473	49509
40	36496	36479	36494	36509	36490	36507	36499	36522	36520	36529	36529	36546	36538	36560	36547
41	30291	30240	30220	30201	30153	30139	30104	30098	30071	30055	30032	30024	29996	29996	29966
42	24168	24095	24049	24005	23939	23902	23849	23821	23776	23742	23702	23676	23634	23617	23575
43	18012	17931	17872	17817	17744	17696	17635	17595	17543	17499	17452	17416	17369	17342	17296
44	12273	12199	12141	12085	12019	11970	11914	11872	11823	11780	11735	11698	11654	11625	11584
40-44	24248	24189	24155	24123	24069	24043	24000	23982	23947	23921	23890	23872	23838	23828	23793
45	7670	7614	7568	7525	7475	7436	7394	7360	7322	7289	7255	7226	7193	7170	7139
46	4835	4794	4760	4729	4693	4665	4634	4610	4583	4559	4535	4514	4491	4474	4452
47	2887	2861	2840	2820	2798	2780	2762	2747	2730	2716	2701	2688	2675	2665	2652
48	1508	1494	1483	1472	1461	1452	1442	1434	1426	1419	1411	1405	1398	1393	1387
49	411	407	404	402	398	396	394	392	389	388	386	384	383	381	380
45-49	3462	3434	3411	3389	3365	3346	3325	3309	3290	3274	3257	3244	3228	3217	3202

MEAN	33.0	33.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
STDEV	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
R1	0.0972	0.0989	0.0618	0.0659	0.0697	0.0726	0.0760	0.0792	0.0817	0.0847	0.0871	0.0895	0.0917	0.0937	0.0957	
R2	32.97	32.98	34.13	34.13	34.14	34.14	34.15	34.15	34.16	34.16	34.17	34.17	34.17	34.18	34.18	
R3	-0.001	-0.003	-0.073	-0.078	-0.084	-0.087	-0.092	-0.096	-0.100	-0.103	-0.107	-0.110	-0.113	-0.116	-0.119	
SKED	0.0864	0.0873	0.0286	0.0307	0.0328	0.0343	0.0361	0.0378	0.0392	0.0408	0.0421	0.0434	0.0445	0.0456	0.0466	
PAR1	0.2123	0.2132	0.1820	0.1846	0.1870	0.1886	0.1906	0.1925	0.1938	0.1957	0.1969	0.1984	0.1996	0.2006	0.2018	
PAR2	0.2123	0.2132	0.1820	0.1846	0.1870	0.1886	0.1906	0.1925	0.1938	0.1957	0.1969	0.1984	0.1996	0.2006	0.2018	
AO	15.51	15.49	16.28	16.17	16.06	15.98	15.88	15.81	15.74	15.67	15.62	15.58	15.54	15.50	15.48	
K	1.750	1.800	1.200	1.250	1.300	1.350	1.400	1.450	1.500	1.550	1.600	1.650	1.700	1.750	1.800	
M	0.761	0.793	0.011	0.042	0.073	0.108	0.139	0.171	0.202	0.233	0.265	0.295	0.326	0.356	0.386	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	27	28	3	4	6	7	8	10	11	13	15	16	18	20	21	
16	295	309	69	82	97	109	124	139	152	167	180	194	206	217	229	
17	1063	1095	367	414	462	498	542	584	618	659	691	726	756	782	811	
18	2517	2564	1145	1238	1326	1391	1468	1539	1592	1661	1712	1766	1813	1852	1896	
19	4813	4863	2704	2826	2938	3013	3107	3191	3249	3330	3386	3447	3500	3541	3591	
15-19	1743	1772	858	913	966	1004	1050	1093	1124	1166	1197	1230	1259	1283	1310	
20	8101	8139	5265	5378	5479	5534	5618	5690	5730	5804	5846	5898	5941	5971	6015	
21	12290	12301	8863	8925	8988	9030	9084	9127	9170	9213	9256	9299	9342	9385	9428	
22	17329	17308	13193	13198	13199	13156	13159	13155	13112	13126	13104	13099	13090	13065	13070	
23	22998	22942	18287	18217	18151	18052	17946	17855	17827	17827	17765	17723	17681	17623	17600	
24	28969	28881	23799	23663	23537	23392	23292	23191	23058	22991	22892	22816	22742	22653	22603	
20-24	17938	17914	13868	13864	13858	13814	13782	13758	13758	13766	13741	13732	13721	13693	13694	
25	35134	35033	29455	29280	29118	28953	28824	28697	28543	28451	28333	28235	28144	28036	27971	
26	41166	41073	34933	34755	34589	34436	34306	34179	34029	33934	33818	33719	33629	33522	33457	
27	46456	46381	40007	39846	39697	39574	39459	39346	39216	39129	39028	38938	38858	38762	38704	
28	51193	51152	44618	44502	44394	44324	44246	44168	44079	44019	43951	43888	43835	43767	43730	
29	54849	54838	48692	48624	48561	48543	48502	48460	48414	48381	48346	48310	48283	48242	48226	
25-29	45760	45695	39541	39401	39272	39166	39067	38970	38856	38782	38695	38618	38550	38466	38418	
30	57161	57167	52078	52050	52024	52044	52032	52019	52005	51991	51981	51964	51954	51933	51928	
31	58375	58397	54625	54636	54646	54702	54719	54733	54753	54758	54773	54776	54785	54786	54793	
32	58810	58845	56594	56639	56680	56763	56804	56842	56890	56912	56948	56969	56993	57014	57031	
33	58398	58439	57884	57953	58016	58115	58172	58223	58293	58327	58377	58411	58446	58482	58505	
34	57359	57418	58225	58322	58413	58536	58616	58694	58791	58846	58921	58977	59034	59095	59137	
30-34	58021	58053	55881	55920	55956	56032	56069	56102	56146	56167	56200	56219	56243	56262	56279	
35	55629	55697	57935	58049	58156	58288	58380	58472	58586	58653	58743	58814	58885	58963	59017	
36	53151	53219	56896	57012	57122	57250	57343	57437	57557	57626	57720	57797	57872	57959	58015	
37	50178	50239	55308	55415	55516	55627	55711	55797	55911	55974	56063	56136	56206	56293	56345	
38	46654	46702	53042	53128	53211	53296	53360	53429	53527	53575	53650	53711	53769	53846	53887	
39	42224	42253	49597	49655	49711	49760	49842	49915	49942	49994	50036	50075	50136	50159	50159	
35-39	49568	49622	54556	54652	54743	54844	54919	54995	55099	55154	55234	55299	55361	55440	55485	
40	36561	36570	44439	44463	44486	44497	44505	44519	44562	44564	44589	44608	44623	44662	44665	
41	29961	29951	37738	37729	37721	37697	37675	37662	37652	37652	37659	37666	37638	37654	37636	
42	23556	23533	30789	30754	30721	30669	30625	30590	30576	30535	30512	30489	30462	30457	30423	
43	17269	17239	23452	23401	23352	23287	23231	23182	23151	23100	23064	23028	22990	22971	22929	
44	11556	11525	16324	16270	16218	16152	16096	16045	16008	15958	15918	15879	15839	15813	15772	
40-44	23781	23764	30548	30523	30500	30460	30426	30394	30362	30347	30330	30311	30311	30311	30285	
45	7117	7094	10391	10347	10305	10253	10208	10168	10136	10097	10064	10033	10002	9979	9947	
46	4437	4420	6652	6619	6588	6549	6517	6487	6463	6435	6411	6388	6365	6349	6326	
47	2643	2634	4012	3992	3973	3948	3928	3896	3879	3865	3851	3838	3828	3828	3815	
48	1383	1378	2111	2101	2091	2078	2068	2059	2052	2043	2036	2030	2024	2019	2013	
49	379	378	578	575	573	570	567	565	563	561	559	558	557	556	554	
45-49	3192	3181	4749	4727	4706	4680	4658	4638	4622	4603	4587	4572	4557	4546	4531	

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