

# Parameter Uncertainty in the Estimation of the Markov Model of Labor Force Activity: Known Error Rates Satisfying Daubert

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## Abstract

The Bureau of Labor Statistics (BLS) introduced the increment-decrement (Markov) model of labor force activity in *Bulletin* 2135 in 1982. A subsequent BLS publication, *Bulletin* 2254, in 1986 also used the increment-decrement methodology. That work has been continued in the 1990's by James Ciecka, *et al.*, and most recently in 2000. Gary Skoog and Ciecka (2001a, 2001b, 2002) have extended this approach by framing the model in terms of random variables rather than demographic constructs. The result has been that not just the mean of the years of additional labor force activity (worklife expectancy), but all statistical characteristics of this distribution have been computed and published. The relatively large probability intervals reported in this work reflect variation which is intrinsic to the model and life itself – one may become active or inactive in the labor force or die tomorrow, or in 50 years – and do not reflect sampling error. However, the primitive statistical objects in the increment-decrement model are transition and mortality probabilities, and each is subject to a small amount of sampling error. This paper provides estimates of the way this sampling error affects estimates of worklife expectancy and more generally its distribution (or equivalently its previously tabulated probability mass function).

This paper provides estimates of the statistical sampling theory standard errors of the parameters of the probability distributions reported in Skoog and Ciecka, and shows them to be remarkably small. The tables in this paper, the first “known error rates” associated with Markov models estimated along the lines of the BLS’s nonparametric approach, would satisfy one of the Daubert criteria<sup>1</sup> (number (3), below, arguably one of the most difficult to establish) to be considered in allowing scientific (as well as technical or other specialized knowledge-based) testimony.

## The Statistical Nature of the Problem and the Bootstrap

We refer the reader to Skoog and Ciecka (2001a) and (2002) for elaboration of labor force activity,

<sup>1</sup> In the important case *Daubert v. Merrell Dow Pharmaceuticals, Inc.*, 509 U.S. 579 (1993) the U.S. Supreme Court listed four factors that a court should consider in determining whether scientific reasoning or methodology would pass muster under Federal Rule 702: whether it (1) can be (and has been) tested; (2) has been subjected to peer review and publication; (3) whether and what the “known or potential rate of error” is; and, (4) its general acceptance in a relevant scientific community. A fifth factor was added on remand: (5) whether the method grows “naturally and directly out of research” conducted independently of the litigation. Whether economic testimony was included, as opposed to excepted and based on “technical or specialized knowledge” was answered in the affirmative in *Kumho Tire v. Carmichael*, 526 U.S. 137 (1999) which reiterated the usefulness of the Daubert criteria but acknowledged that some of them may be inapplicable to certain fields of expert testimony.

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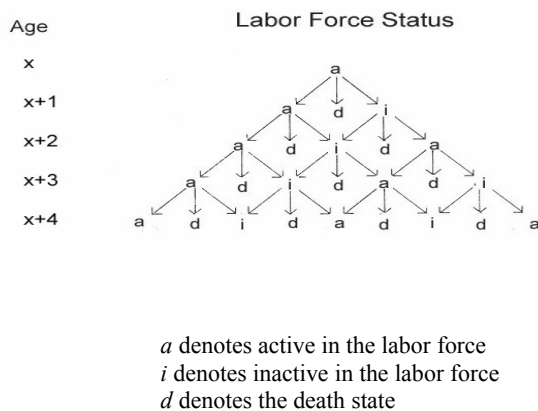
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modeled as a random variable. To provide a brief background, we repeat an illustration (see Figure 1), similar to one in *Bulletin* 2135, used in Skoog and Ciecka (2001a) that depicts alternative paths of mortality and labor force attachment for those who are initially active in the labor force. It begins with individuals who are active at exact age  $x$ , and proceeds to trace all possible paths to age  $(x+4)$ . Figure 1 illustrates the Markov model and offers a road map for calculating the probability of an initially active person spending various numbers of years in active and inactive states. The primitive statistical objects are the transition probabilities and mortality probabilities, each subject to a small amount of sampling error. Transition probabilities move us along the arrows in Figure 1 as people pass from one age to the next in the figure. Skoog (2002) and Skoog and Ciecka (2001a and 2002) have found the probability mass functions that completely capture all of the information contained in the literally thousands of trillions of paths that could occur if Figure 1 were to commence at age  $x = 16$ . Figure 2 shows some examples of probability mass functions for initially active men at various ages. Complete tables describing probability mass functions have been published recently by Skoog and Ciecka (2001b); these tables contain the mean (worklife expectancy) of years of activity, median, mode, standard deviation, skewness, kurtosis, and various percentile points, including 50% probability intervals which correspond to the idea of an event being more probably true than not true.

**Figure 1. Triangle of Paths**



Mortality probabilities (which lead to the  $d$  (death) state in Figure 1) do contain a miniscule amount of sampling error, so little that this source could be (but was not) ignored, as the following reasoning shows. The Decennial Census of 1990 Tables (1997), for example, records all deaths for individuals over the 3-year interval of 1989-1991 for the U.S. population. Consider males age 40, who have a probability of dying of 0.0027 with a reported standard error of 0.000024. The effective sample size per standard Bernoulli distribution calculations is 4.6 million.<sup>2</sup> We have experimented with

<sup>2</sup> Let  $Y$  denote a Bernoulli random variable; its probability mass function is  $f(Y) = \pi^Y (1-\pi)^{Y-1}$  where  $Y$  takes on the values 1 and 0 with probability  $\pi$  and  $1-\pi$ , respectively. The expected value and variance of  $Y$  are  $E(Y) = 1(\pi) + 0(1-\pi) = \pi$  and  $V(Y) = (1-\pi)^2 \pi + (0-\pi)^2 (1-\pi) = \pi(1-\pi)$ .

acting as if the number in these sample sizes were only 10,000 in our statistical work in this paper, and the differences between this upper bound to estimation uncertainty and assuming that the probability is known with certainty (having infinitely many observations) represents a range which surely includes the actual samples entering into the decennial and annual U.S. Life Tables (2002). The results are indistinguishable: mortality sampling error is negligible.

The only potentially interesting sampling variability therefore comes from the Current Population Survey (CPS) based transition probabilities. Researchers match individuals who have a particular age, sex and educational background across two samples when subjects report being age  $x$  and the next year when they report being age  $x+1$ . Of those individuals who are active ( $a$ ) at age  $x$ , the fraction who remain active and the fraction who become inactive ( $i$ ) are recorded, thus yielding transition probabilities between  $a$  and  $a$  and between  $a$  and  $i$ . In a similar manner we compute the  $i$  to  $a$  and  $i$  to  $i$  transition probabilities by starting with a sample of inactive individuals at age  $x$  and observing the fraction switching to active and the fraction remaining inactive. However, the sampling distribution of complex functions of these parameters, like worklife expectancy, is analytically intractable because of statistical dependence among the estimated transition probabilities involved in the construction of worklife expectancy. Furthermore, the number of terms involved in a direct (as opposed to a recursive) calculation of worklife expectancy, while finite, exceeds computing capacity for young ages  $x$ . In situations such as these, bootstrap methods of sample re-use, originally proposed by Efron (1979, 1982, and 1993), are successful in revealing the statistical properties of estimators. The basic idea is to choose a number of bootstrap samples; and, from each bootstrap sample, one generates a value or replication for any desired estimator reflecting the size of real world (e.g., CPS) samples. The mean and standard error of a large number of replications are then computed. We certainly expect the mean of the bootstrap replications generally to be very close to the published point estimate of any parameter, and we would increase the number of replications - or check our programming - if this were not found to be the case.<sup>3</sup> We

The standard deviation of the sample mean (from a sample of size  $n$ ) calculated from a Bernoulli distribution is  $SD(\bar{Y}) = \sqrt{\pi(1-\pi)/n}$ . Letting  $\pi = 0.0027$  and noting the reported standard error of 0.000024, we have  $0.000024 = \sqrt{0.0027(1-0.0027)/n}$ , which implies  $n = 4.6$  million.

<sup>3</sup> In most cases the bootstrap means of parameters are exactly as previously published (or within a few hundredths of a year) although previously published values were calculated from the point estimate of the probability mass function at each age. There are exceptions at ages and years of activity when parameters are equal, or close, to their limiting values and when probability masses are approximately equal at very different years of activity. For example, we have previously reported a mode of 16 at age 43 and a mode of zero at age 44 for inactive men, regardless of education (Skoog and Ciecka, 2001b, Table 7). Probability mass at age 43 is only slightly bigger at 16 years of activity than the mass at zero years; and, conversely, the mass is a bit larger at zero than at 15 years of activity at age 44. Bootstrap perturbed transition probabilities may easily alter probability mass values enough to flip the mode to zero at age 43 and the mode to 15 at age 44. We, therefore, would expect the bootstrap mode to be less than 16 at age 43 and be greater than zero at age 44. This is exactly what we observe: the bootstrap estimate of the average mode is 10.90 for age 43 and 4.53 for age 44. This same circumstance also causes the bootstrap standard deviation to be large.

thus can estimate the variance, its square root (the standard error), and other measures of the sampling distribution of any characteristic of probability mass functions we have published.<sup>4</sup> We report here bootstrap standard errors, both an end in itself (per Daubert) and perhaps as an invitation to use the normal distribution. These same replications, however, may be employed to compute bootstrap confidence intervals, by a variety of methods, freeing one of the normality approximation. By whatever confidence interval method is selected, the sizes of these intervals are quite small.

The tables in this paper represent the first results for the BLS's Markov model, which is nonparametric in age. By this, we mean that transition probabilities for various ages  $x$  do not depend on a small number of econometric parameters, and do not follow a parsimonious functional form, as would be the case if these probabilities followed a logistic distribution function fixed by a set of coefficients. This latter approach has been employed in Millimet, *et al.* (2002); but they did not report their regressors, their point estimates, or their standard errors, nor did they specify how they did their bootstrap estimation. They did, however, report estimated standard errors for their worklife expectancy estimates for both initial actives and inactives for their parametric model.

Had replications been calculated from (non-bootstrap) samples generated by the *true* transition probabilities, this paper would be a standard Monte Carlo study of an estimator. Since we do not have these true parameters, we need to "pull ourselves up by the bootstraps" and use the estimated transition probabilities instead. As long as our estimation is nonparametric, the variation introduced into the bootstrap replications because the estimated transition probabilities deviate from the true probabilities may be ignored. Conditions under which this dependence is appropriately weak may be found in the voluminous bootstrap literature produced over the past 24 years, much of which is cited in the Effron books listed here.

Standard statistical treatments of the bootstrap, or statistical theory generally, treats the data recorded by its gatherers and publishers at face value. With survey data, incomplete observations may be imputed or allocated – assigned reasonable values. The bootstrap can handle this procedure, if it is important, by generating data in the bootstrap sample by the implementation procedure actually used (Shao and Sitter, 1996). With large datasets like the CPS, this would be extremely time consuming. The "hot deck" method of allocating missing income values is important, since on the order of 17,000 out of 130,000 observations did not report income (David *et al.*, 1986). However, in the 2003 March supplement (now the Annual Social and Economics Supplement) only about 0.25% of the

observations are allocated regarding labor force status; so imputation for transition probabilities is not a problem.<sup>5</sup>

Here is an example of how the bootstrap works. Suppose we take a random sample of size  $n = 10$  of the ages of current NAFE members. Assume that this hypothetical sample consists of the ages (32, 45, 52, 28, 65, 53, 59, 41, 56, 49), which has a mean  $\bar{x} = 48.0$  and a standard deviation of  $s = 11.69$ . From statistical sampling theory, we know that the estimated standard deviation<sup>6</sup> of the sample mean is  $s/\sqrt{n} = 11.69/\sqrt{10} = 3.70$ . Although it is unnecessary to apply the bootstrap to this problem because sampling theory tells us how to compute the standard deviation of the sample mean, it is instructive to see how the bootstrap would approximate this answer. Bootstrap random samples, with replacement, of size 10 are drawn from our sample of ten ages. Since replacement is required when drawing a bootstrap sample, any particular age might appear more than once<sup>7</sup>, or not at all, in a bootstrap sample. Compute the mean, called a replicate, of the bootstrap sample. Repeat the process, always drawing samples of size 10, with replacement, from the original sample delineated above. Finally, compute the standard deviation of the bootstrap replicates in the usual manner. The entire process can quickly be done with a small computer for a large number of bootstrap replications. For example, we generated 2,500 replicates, which compute instantly from a user's point of view, with the following results: the bootstrap estimate of the mean is 47.94, and the bootstrap estimate of the standard deviation of the sample mean is 3.64 – both of which are very close to the true values of 48.0 and 3.70, respectively. Figure 3 is the histogram of the bootstrap sample means.

The bootstrapping process used in this paper is more complicated in its details but is essentially the same as in the NAFE age example. We start with our estimates of transition and mortality probabilities and the sample sizes from which they were generated (using a sample size of 10,000 for mortality).<sup>8</sup> We generate a bootstrap sample of transition probabilities for each age of the same size as our CPS samples and a bootstrap sample of mortality probabilities (for each age). We compute replicates of transition and mortality probabilities for each age and use these replicates to compute the probability mass functions for actives and inactives. We then compute ten measures: the mean, median, mode, standard deviation, coefficient of skewness, coefficient of kurtosis, and the 10<sup>th</sup>, 25<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentile points. This constitutes one complete bootstrap replication. We repeat the foregoing procedure numerous times; 2,500 replications were used in this paper although sizes of only 100 or 200 are commonly reported in the statistical literature. Finally, we compute the sample or estimated mean and

<sup>4</sup> Here we refer to all univariate statistics: mean, median, mode, standard deviation, skewness, kurtosis, and the 10<sup>th</sup>, 25<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentile points. Users of our tables may make a 50 percent probability interval out of two of these, the 25<sup>th</sup> and 75<sup>th</sup> percentiles, respectively. We looked at the correlation between two distinct univariate parameters, such as the lower and upper endpoints for the inter-quartile range. The shortest 50 percent probability interval, since it involves two characteristics of the probability mass function simultaneously, suggests that such bivariate distributions be studied; but we have not undertaken that study here.

<sup>5</sup> We thank NAFE researchers Boyd Fjeldsted and Frank Hachman (personal communication) for determining the 0.25% figure for allocated labor force status.

<sup>6</sup> This is sometimes called the estimated standard error, and sometimes just the standard error, implying that it is estimated.

<sup>7</sup> In fact, the chance of no repeated value in this example in one replication is  $10!/(10^{10})$  or 0.0363%.

<sup>8</sup> A more realistic sample size for mortality would be much larger than 10,000. Had we selected a larger sample size, the reported standard errors would be practically the same as we report in this paper but would be imperceptibly smaller.

sample standard deviation of each of the ten aforementioned statistical measures. These are the means and standard deviations reported in Tables 1, 4, 7, and 10 for initially active and inactive men and for initially active and inactive women, respectively. As an example, Figure 4 shows two histograms generated from the 2,500 replications of worklife expectancy for initially active men ages 20 and 65, respectively. These histograms represent the underlying data that enter into the calculations of the mean and standard deviation in Table 1 for ages 20 and 65. One might also notice the symmetric looking appearance of these histograms even though the corresponding probability mass functions in Figure 2 are not as symmetric, especially at age 65. In fact, Table 3 suggests that the distribution of worklife expectancy is not only symmetric but also approximately normal (*i.e.*, approximately zero skewness and kurtosis of approximately 3.0). Additional tables (2, 5, 8, and 11) contain correlation coefficients between various parameters; and Tables 3, 6, 9, and 12 show the mean, standard deviation, skewness, and kurtosis of the sampling distribution of worklife expectancy. As mentioned, these tables suggest that the sampling distributions of worklife expectancy are approximately normal for active and inactive men and women and have quite small standard deviations.

## Conclusions and Results: Bootstrap Standard Errors for the Markov Model

This paper offers the first discussion of sampling properties for probability mass functions which contain, as one parameter among many, worklife expectancy. The tables below provide estimates of the standard errors corresponding to ten of the twelve statistics characterizing the probability mass function for additional years of labor force activity reported in Tables 1, 7, 13, and 19 (tables for initially active and inactive men and women regardless of education) of Skoog and Cieccka (2001b). Standard errors for all of the parameters (previously published (Skoog and Cieccka, 2001b)) of our probability mass functions, with the exception of the shortest 50% confidence interval, have been provided here, using bootstrap estimation techniques. The standard errors caused by the finite sample size of the Current Population Survey are very minor: as an example, Table 1 for initially active men shows standard errors of approximately 0.2 years for the mean, median, and the 25<sup>th</sup> and 75<sup>th</sup> percentile points; about 0.1 year or less for the standard deviation, skewness, and kurtosis; and about 0.3 years for the 10<sup>th</sup> and 90<sup>th</sup> percentile points. The more significant variation in years of additional labor force activity is due to intrinsic variability in the nature of the outcomes themselves. For example, the standard deviation intrinsic to labor force activity itself, assuming that transition and mortality probabilities are known with certainty, for a 30-year-old active male is 8.19 years (Skoog and Cieccka, 2001b), whereas the sampling standard error for the mean is only 0.20 years (see Table 1). Thus, variation intrinsic to labor force activity itself is a more important issue, by at least an order of magnitude, than sample variation.

Table 2 contains bootstrap correlation coefficients between some of the properties of the probability mass function for initially active men. The correlation between the

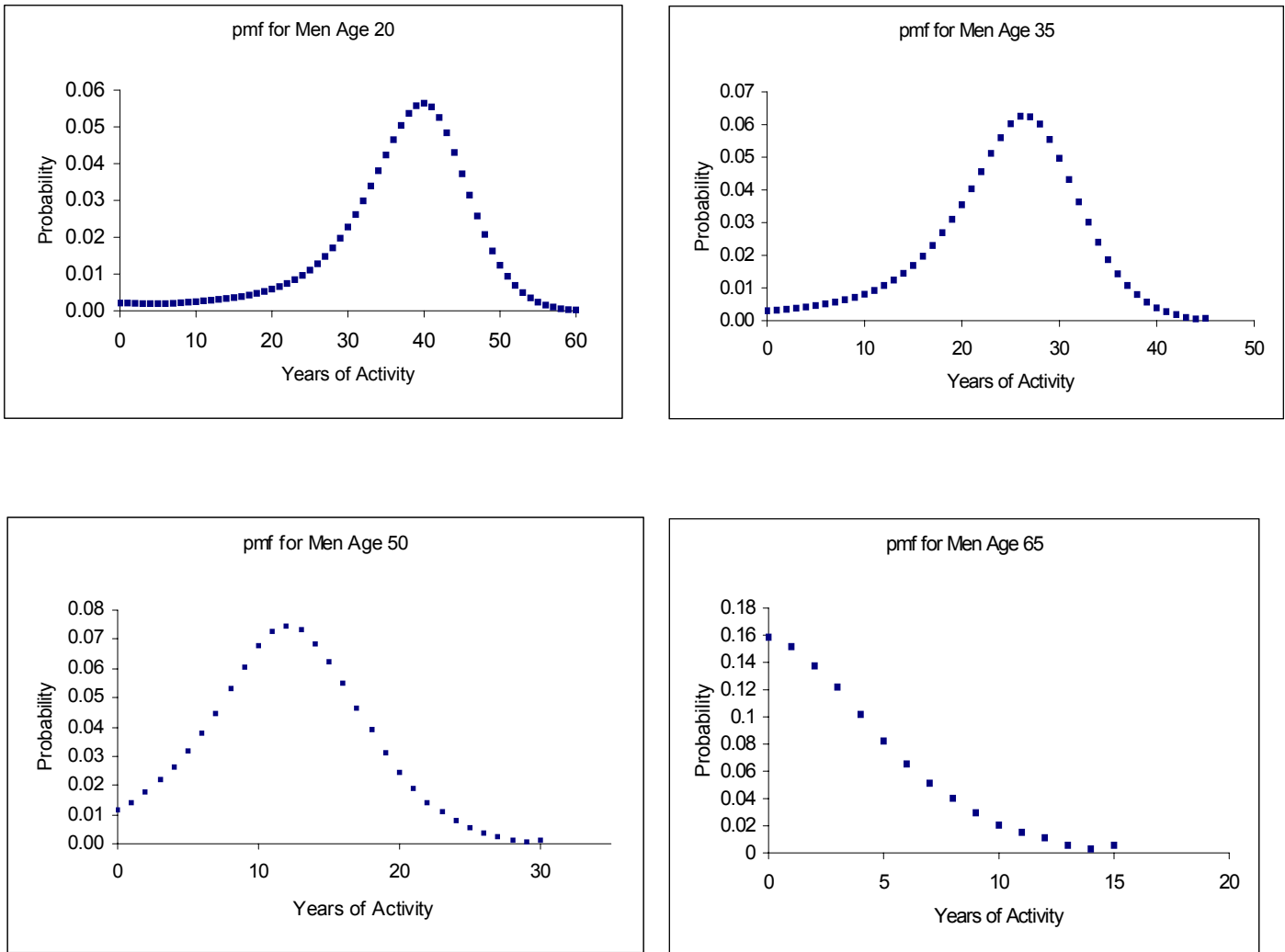
mean and the median is approximately 0.9 or larger, the correlation coefficient usually is between 0.5 and 0.7 for the 25<sup>th</sup> and 75<sup>th</sup> percentile points, and there is small (in absolute value) negative correlation between the mean and standard deviation at young ages and progressively larger positive correlation at later ages especially for initial inactives. In Table 3 we repeat the bootstrap means and standard deviations of worklife expectancy contained in Table 1 and additionally show the bootstrap skewness and kurtosis of the mean. How might one use these results? In particular, what is the confidence interval that might be constructed for worklife expectancy? The last two columns in Table 3, the bootstrap estimates of skewness and kurtosis of worklife expectancy, help us answer these questions. Skewness usually is positive but close to zero; and kurtosis is approximately 3.0, indicating approximate normality of the bootstrap replications of worklife expectancy. As an example, consider a 30-year-old active male. Tables 1 and 3 show a bootstrap worklife expectancy of 29.35 years and a standard deviation of 0.20 years.<sup>9</sup> Since the bootstrap replications of worklife expectancy are approximately normal, we can say that the probability is 95% that the true worklife expectancy falls within the interval  $29.35 \pm 2(.20)$ , or 28.95 years on the low side and 29.75 years on the high side.

The foregoing description and interpretation of the tables referred to active men – Tables 1, 2, and 3 in this paper. Similar comments could be made about initially inactive men (Tables 3-6), active women (Tables 7-9), and initially inactive women (Tables 10-12). Most importantly, standard deviations are small for most parameters and the sampling distribution is approximately normal for worklife expectancy for all groups.

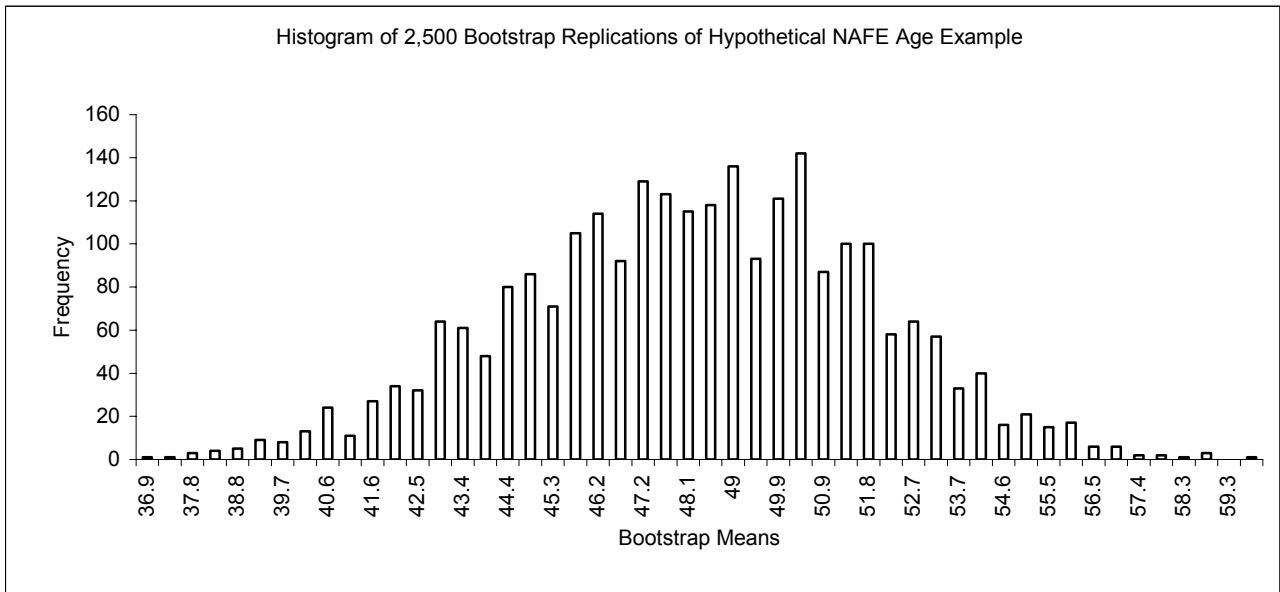
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<sup>9</sup> Skoog and Cieccka (2001b) report exactly the same worklife expectancy for 30-year-old active males when sampling error is ignored, but there may be small differences between bootstrap generated means and parameter values previously reported as noted in footnote 3.

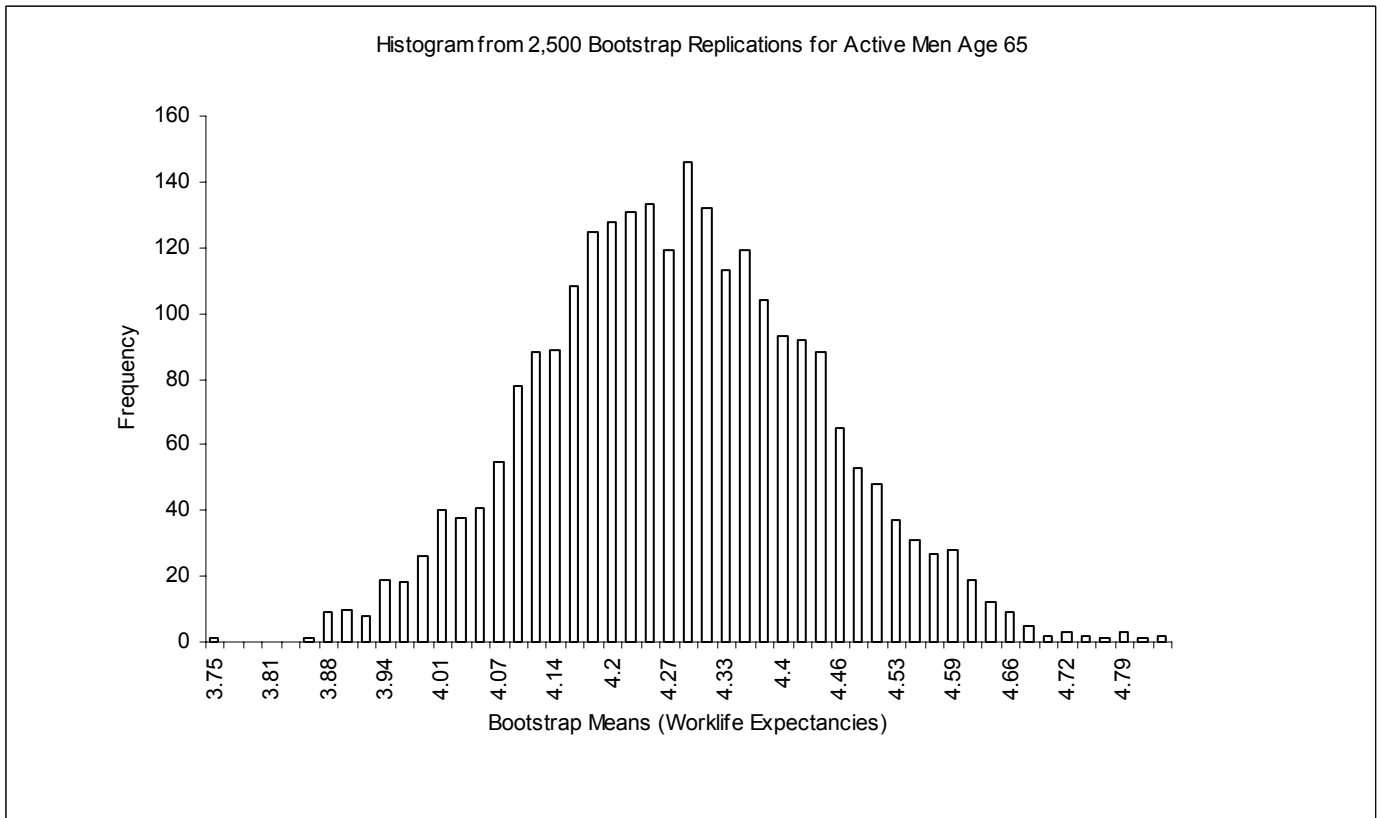
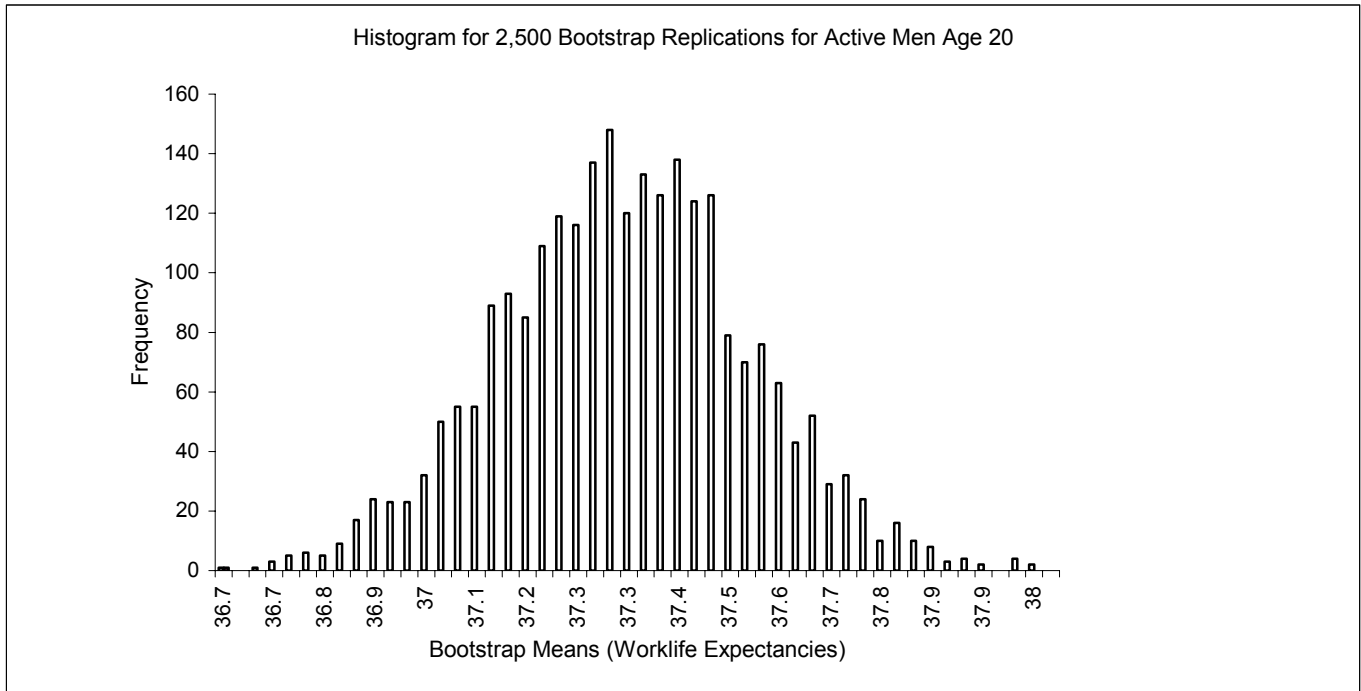
**Figure 2. Probability Mass Functions for Initially Active Men at Various Ages**



**Figure 3. Bootstrap Histogram of Hypothetical NAFE Age Example**



**Figure 4. Bootstrap Histograms for Initially Active Men Ages 20 and 65**



**Table 1. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Active Men, Regardless of Education**

Age	Bootstrap Mean of WLE	Bootstrap SD of WLE	Bootstrap Mean of Median	Bootstrap SD of Median	Bootstrap Mean of Mode	Bootstrap SD of Mode
16	39.47	0.22	40.58	0.23	42.70	0.42
17	39.01	0.22	40.10	0.23	42.30	0.45
18	38.50	0.22	39.57	0.22	41.77	0.52
19	37.95	0.22	38.99	0.22	41.18	0.55
20	37.28	0.21	38.29	0.22	40.45	0.58
21	36.63	0.21	37.60	0.22	39.74	0.61
22	35.94	0.21	36.87	0.21	38.97	0.66
23	35.20	0.21	36.10	0.21	38.15	0.70
24	34.42	0.21	35.28	0.21	37.29	0.73
25	33.62	0.21	34.44	0.21	36.42	0.76
26	32.79	0.20	33.57	0.21	35.52	0.78
27	31.95	0.20	32.69	0.21	34.59	0.80
28	31.09	0.20	31.79	0.20	33.67	0.82
29	30.22	0.20	30.88	0.20	32.72	0.84
30	29.35	0.20	29.97	0.20	31.77	0.84
31	28.48	0.20	29.05	0.20	30.82	0.85
32	27.61	0.19	28.14	0.20	29.88	0.86
33	26.75	0.19	27.23	0.20	28.92	0.87
34	25.89	0.19	26.32	0.20	27.97	0.87
35	25.03	0.19	25.41	0.20	27.03	0.88
36	24.17	0.19	24.50	0.20	26.07	0.88
37	23.32	0.19	23.59	0.19	25.11	0.88
38	22.47	0.19	22.68	0.19	24.15	0.89
39	21.62	0.19	21.78	0.19	23.18	0.89
40	20.77	0.19	20.87	0.19	22.22	0.90
41	19.94	0.18	19.98	0.19	21.26	0.90
42	19.11	0.18	19.09	0.19	20.30	0.90
43	18.29	0.18	18.20	0.19	19.34	0.90
44	17.46	0.18	17.31	0.19	18.37	0.90
45	16.64	0.18	16.43	0.19	17.41	0.90
46	15.82	0.18	15.54	0.19	16.45	0.90
47	15.01	0.18	14.67	0.19	15.50	0.90
48	14.21	0.17	13.80	0.19	14.54	0.91
49	13.41	0.17	12.94	0.18	13.59	0.91
50	12.63	0.17	12.09	0.18	12.64	0.92
51	11.86	0.17	11.25	0.18	11.70	0.92
52	11.10	0.17	10.43	0.18	10.75	0.92
53	10.37	0.16	9.63	0.18	9.81	0.92
54	9.66	0.16	8.85	0.18	8.88	0.93
55	8.97	0.16	8.09	0.18	7.97	0.93
56	8.30	0.16	7.36	0.17	7.06	0.94
57	7.65	0.15	6.65	0.17	6.17	0.94
58	7.04	0.15	5.99	0.17	5.31	0.94
59	6.48	0.15	5.38	0.17	4.48	0.94
60	5.97	0.15	4.82	0.18	3.68	0.95
61	5.51	0.15	4.34	0.17	2.95	0.96
62	5.12	0.15	3.92	0.18	2.29	0.97
63	4.77	0.15	3.55	0.18	1.73	0.95
64	4.47	0.16	3.26	0.18	1.38	0.84
65	4.20	0.16	2.99	0.18	1.14	0.74
66	3.96	0.16	2.74	0.20	1.01	0.68
67	3.74	0.16	2.53	0.19	0.90	0.57
68	3.53	0.17	2.35	0.20	0.74	0.46
69	3.36	0.17	2.23	0.20	0.72	0.46
70	3.19	0.17	2.10	0.21	0.76	0.49
71	3.01	0.17	1.94	0.21	0.75	0.50
72	2.81	0.18	1.76	0.23	0.78	0.50
73	2.62	0.19	1.60	0.24	0.70	0.43
74	2.44	0.18	1.52	0.23	0.65	0.40
75	2.26	0.17	1.39	0.21	0.81	0.54

**Table 1. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Active Men, Regardless of Education (Continued)**

Age	Bootstrap Mean of SD	Bootstrap SD of SD	Bootstrap Mean of Skewness	Bootstrap SD of Skewness	Bootstrap Mean of Kurtosis	Bootstrap SD of Kurtosis
16	9.87	0.12	-1.21	0.04	5.22	0.14
17	9.77	0.12	-1.20	0.04	5.18	0.14
18	9.64	0.12	-1.18	0.04	5.13	0.14
19	9.51	0.12	-1.16	0.04	5.07	0.14
20	9.39	0.12	-1.14	0.04	4.99	0.14
21	9.25	0.12	-1.11	0.04	4.91	0.14
22	9.12	0.11	-1.08	0.04	4.82	0.13
23	8.99	0.11	-1.05	0.04	4.72	0.13
24	8.86	0.11	-1.02	0.04	4.61	0.13
25	8.74	0.11	-0.98	0.04	4.51	0.12
26	8.63	0.11	-0.95	0.04	4.40	0.12
27	8.52	0.11	-0.92	0.04	4.30	0.12
28	8.41	0.11	-0.88	0.04	4.21	0.11
29	8.30	0.11	-0.85	0.04	4.11	0.11
30	8.19	0.10	-0.81	0.04	4.02	0.10
31	8.08	0.10	-0.78	0.04	3.92	0.10
32	7.96	0.10	-0.74	0.04	3.83	0.10
33	7.84	0.10	-0.70	0.04	3.74	0.09
34	7.72	0.10	-0.66	0.04	3.65	0.09
35	7.59	0.10	-0.62	0.04	3.57	0.08
36	7.46	0.10	-0.58	0.04	3.49	0.08
37	7.33	0.10	-0.54	0.04	3.41	0.08
38	7.20	0.10	-0.49	0.04	3.34	0.07
39	7.07	0.10	-0.45	0.04	3.27	0.07
40	6.94	0.10	-0.40	0.04	3.20	0.07
41	6.80	0.09	-0.36	0.04	3.14	0.06
42	6.66	0.09	-0.31	0.04	3.08	0.06
43	6.52	0.09	-0.26	0.04	3.03	0.06
44	6.38	0.09	-0.20	0.04	2.98	0.06
45	6.24	0.09	-0.15	0.04	2.94	0.06
46	6.10	0.09	-0.10	0.04	2.90	0.05
47	5.96	0.09	-0.04	0.04	2.87	0.05
48	5.81	0.09	0.01	0.04	2.85	0.06
49	5.67	0.09	0.07	0.04	2.83	0.06
50	5.52	0.09	0.13	0.04	2.83	0.06
51	5.38	0.09	0.19	0.04	2.83	0.06
52	5.23	0.09	0.26	0.04	2.84	0.07
53	5.07	0.09	0.32	0.04	2.87	0.07
54	4.91	0.09	0.39	0.04	2.91	0.08
55	4.75	0.09	0.46	0.04	2.96	0.09
56	4.59	0.09	0.53	0.04	3.02	0.09
57	4.44	0.09	0.60	0.04	3.09	0.10
58	4.28	0.09	0.67	0.05	3.17	0.11
59	4.12	0.09	0.74	0.05	3.26	0.13
60	3.97	0.09	0.80	0.05	3.35	0.14
61	3.81	0.10	0.86	0.05	3.45	0.16
62	3.66	0.10	0.91	0.06	3.54	0.18
63	3.51	0.10	0.96	0.06	3.62	0.19
64	3.36	0.10	0.99	0.07	3.69	0.22
65	3.22	0.10	1.02	0.07	3.75	0.24
66	3.08	0.10	1.04	0.08	3.78	0.27
67	2.94	0.11	1.06	0.09	3.80	0.30
68	2.81	0.11	1.06	0.09	3.79	0.33
69	2.67	0.11	1.06	0.10	3.78	0.36
70	2.52	0.11	1.05	0.11	3.79	0.41
71	2.37	0.11	1.06	0.13	3.81	0.46
72	2.21	0.12	1.07	0.15	3.84	0.51
73	2.06	0.12	1.07	0.16	3.90	0.57
74	1.90	0.12	1.08	0.18	4.01	0.62
75	1.73	0.14	1.14	0.20	4.26	0.68

**Table 1. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Active Men, Regardless of Education (Continued)**

Age	Bootstrap Mean of 25 <sup>th</sup> %	Bootstrap SD of 25 <sup>th</sup> Percentile	Bootstrap Mean of 75 <sup>th</sup> %	Bootstrap SD of 75 <sup>th</sup> Percentile	Bootstrap Mean of 10 <sup>th</sup> %	Bootstrap SD of 10 <sup>th</sup> % Percentile	Bootstrap Mean of 90 <sup>th</sup> %	Bootstrap SD of 90 <sup>th</sup> Percentile
16	34.67	0.27	45.37	0.22	26.80	0.36	49.41	0.25
17	34.22	0.28	44.84	0.22	26.43	0.37	48.85	0.25
18	33.74	0.27	44.26	0.21	26.03	0.37	48.23	0.24
19	33.22	0.28	43.63	0.22	25.60	0.36	47.57	0.25
20	32.56	0.27	42.89	0.21	25.03	0.36	46.80	0.25
21	31.93	0.27	42.16	0.21	24.50	0.36	46.05	0.25
22	31.25	0.27	41.38	0.21	23.91	0.35	45.25	0.24
23	30.52	0.27	40.57	0.21	23.28	0.35	44.42	0.24
24	29.75	0.26	39.72	0.21	22.61	0.34	43.55	0.25
25	28.95	0.26	38.85	0.21	21.90	0.34	42.67	0.25
26	28.13	0.26	37.96	0.21	21.17	0.34	41.77	0.25
27	27.29	0.26	37.06	0.21	20.42	0.34	40.85	0.25
28	26.43	0.26	36.13	0.21	19.65	0.33	39.92	0.25
29	25.56	0.25	35.20	0.21	18.88	0.33	38.98	0.25
30	24.69	0.25	34.27	0.21	18.11	0.32	38.04	0.25
31	23.82	0.25	33.33	0.21	17.35	0.32	37.09	0.24
32	22.95	0.25	32.40	0.21	16.60	0.31	36.15	0.24
33	22.10	0.25	31.46	0.21	15.85	0.31	35.20	0.24
34	21.25	0.25	30.52	0.21	15.13	0.30	34.25	0.24
35	20.40	0.24	29.59	0.21	14.41	0.30	33.31	0.24
36	19.55	0.24	28.65	0.21	13.69	0.29	32.36	0.24
37	18.71	0.24	27.72	0.21	12.99	0.29	31.41	0.25
38	17.87	0.23	26.79	0.21	12.29	0.29	30.46	0.25
39	17.03	0.24	25.85	0.21	11.60	0.28	29.52	0.25
40	16.21	0.24	24.92	0.21	10.93	0.27	28.57	0.25
41	15.40	0.23	24.00	0.21	10.27	0.27	27.63	0.26
42	14.59	0.22	23.07	0.21	9.63	0.26	26.70	0.26
43	13.80	0.22	22.15	0.21	9.00	0.25	25.76	0.26
44	13.00	0.22	21.23	0.21	8.37	0.25	24.83	0.26
45	12.20	0.22	20.31	0.21	7.74	0.23	23.89	0.26
46	11.41	0.21	19.39	0.21	7.11	0.23	22.96	0.26
47	10.63	0.20	18.48	0.21	6.51	0.22	22.03	0.26
48	9.86	0.20	17.57	0.21	5.91	0.21	21.11	0.25
49	9.10	0.20	16.68	0.22	5.35	0.21	20.19	0.25
50	8.36	0.19	15.79	0.22	4.79	0.19	19.28	0.25
51	7.63	0.18	14.91	0.22	4.26	0.19	18.37	0.26
52	6.93	0.18	14.04	0.21	3.76	0.17	17.48	0.26
53	6.25	0.18	13.18	0.21	3.29	0.18	16.59	0.27
54	5.60	0.17	12.34	0.21	2.85	0.15	15.73	0.27
55	4.96	0.16	11.52	0.22	2.45	0.15	14.88	0.27
56	4.37	0.16	10.73	0.22	2.04	0.14	14.05	0.27
57	3.79	0.15	9.96	0.22	1.67	0.12	13.24	0.26
58	3.26	0.15	9.22	0.21	1.34	0.12	12.46	0.27
59	2.78	0.14	8.52	0.22	1.04	0.11	11.73	0.28
60	2.37	0.13	7.89	0.22	0.79	0.09	11.03	0.28
61	2.01	0.13	7.30	0.21	0.60	0.08	10.39	0.28
62	1.72	0.13	6.78	0.23	0.51	0.03	9.81	0.29
63	1.49	0.13	6.31	0.23	0.50	0.01	9.28	0.29
64	1.30	0.13	5.91	0.25	0.50	0.00	8.79	0.30
65	1.15	0.13	5.55	0.25	0.50	0.00	8.33	0.30
66	1.02	0.13	5.22	0.25	0.50	0.00	7.90	0.32
67	0.90	0.13	4.93	0.26	0.50	0.00	7.49	0.33
68	0.78	0.13	4.64	0.27	0.50	0.00	7.12	0.35
69	0.72	0.14	4.39	0.27	0.50	0.00	6.77	0.35
70	0.67	0.13	4.13	0.28	0.50	0.00	6.39	0.33
71	0.62	0.11	3.87	0.31	0.50	0.00	5.97	0.32
72	0.58	0.10	3.63	0.30	0.50	0.00	5.50	0.31
73	0.54	0.08	3.36	0.29	0.50	0.00	5.06	0.33
74	0.52	0.06	3.06	0.26	0.50	0.00	4.63	0.34
75	0.52	0.05	2.71	0.27	0.50	0.00	4.23	0.35

**Table 2. Bootstrap Estimates of Correlation Coefficients of Years of Activity Measures for Initially Active Men, Regardless of Education**

Age	Correlation Coefficient Mean and Median	Correlation Coefficient Mean and Mode	Correlation Coefficient Median and Mode	Correlation Coefficient Mean and SD	Correlation Coefficient 25 <sup>th</sup> and 75 <sup>th</sup> Percentiles	Correlation Coefficient 10 <sup>th</sup> and 90 <sup>th</sup> Percentiles
16	0.96	0.42	0.51	-0.10	0.72	0.32
17	0.96	0.37	0.46	-0.10	0.72	0.33
18	0.95	0.31	0.39	-0.10	0.71	0.32
19	0.95	0.29	0.35	-0.09	0.70	0.31
20	0.95	0.25	0.32	-0.09	0.69	0.30
21	0.95	0.21	0.28	-0.09	0.69	0.30
22	0.95	0.17	0.24	-0.08	0.68	0.30
23	0.95	0.17	0.22	-0.07	0.67	0.29
24	0.95	0.17	0.23	-0.07	0.66	0.29
25	0.94	0.18	0.24	-0.06	0.66	0.29
26	0.94	0.16	0.23	-0.05	0.65	0.29
27	0.94	0.17	0.23	-0.05	0.65	0.28
28	0.94	0.17	0.23	-0.03	0.65	0.28
29	0.94	0.17	0.24	-0.02	0.64	0.28
30	0.94	0.18	0.25	-0.01	0.64	0.28
31	0.94	0.17	0.24	0.00	0.63	0.28
32	0.94	0.16	0.24	0.01	0.63	0.27
33	0.94	0.16	0.24	0.03	0.63	0.27
34	0.93	0.17	0.25	0.04	0.62	0.27
35	0.93	0.16	0.25	0.05	0.62	0.27
36	0.93	0.16	0.25	0.06	0.63	0.28
37	0.93	0.16	0.25	0.07	0.63	0.28
38	0.93	0.15	0.25	0.08	0.63	0.28
39	0.93	0.15	0.26	0.09	0.63	0.29
40	0.93	0.15	0.26	0.11	0.63	0.29
41	0.93	0.14	0.25	0.13	0.63	0.29
42	0.93	0.15	0.27	0.15	0.63	0.29
43	0.93	0.14	0.27	0.17	0.63	0.30
44	0.93	0.14	0.27	0.19	0.63	0.31
45	0.93	0.15	0.29	0.21	0.63	0.31
46	0.93	0.14	0.28	0.24	0.63	0.31
47	0.93	0.13	0.28	0.26	0.62	0.31
48	0.93	0.14	0.29	0.29	0.62	0.30
49	0.93	0.15	0.31	0.33	0.62	0.31
50	0.93	0.16	0.32	0.36	0.62	0.32
51	0.93	0.16	0.33	0.39	0.62	0.32
52	0.92	0.15	0.32	0.42	0.62	0.33
53	0.92	0.15	0.31	0.43	0.62	0.32
54	0.93	0.15	0.30	0.46	0.61	0.32
55	0.93	0.17	0.31	0.48	0.61	0.32
56	0.92	0.15	0.28	0.51	0.59	0.32
57	0.91	0.14	0.25	0.54	0.59	0.30
58	0.92	0.16	0.25	0.57	0.57	0.29
59	0.91	0.15	0.21	0.58	0.56	0.28
60	0.91	0.16	0.19	0.61	0.54	0.24
61	0.90	0.19	0.19	0.64	0.54	0.24
62	0.91	0.21	0.18	0.64	0.53	0.15
63	0.90	0.23	0.18	0.64	0.53	0.07
64	0.90	0.25	0.20	0.65	0.54	0.01
65	0.91	0.22	0.17	0.65	0.54	0.01
66	0.90	0.24	0.18	0.66	0.55	0.07
67	0.89	0.15	0.10	0.67	0.53	
68	0.90	0.17	0.12	0.67	0.53	
69	0.90	0.15	0.11	0.66	0.50	
70	0.89	0.22	0.17	0.65	0.50	
71	0.89	0.19	0.14	0.67	0.46	
72	0.90	0.22	0.16	0.63	0.43	
73	0.91	0.25	0.21	0.62	0.40	
74	0.90	0.25	0.23	0.61	0.36	
75	0.88	0.31	0.33	0.63	0.37	

**Table 3. Bootstrap Estimates of the Mean, Standard Deviation, Skewness, and Kurtosis of the Mean of Years of Activity for Initially Active Men, Regardless of Education**

Age	Bootstrap Mean of WLE	Bootstrap SD of WLE	Bootstrap Skewness of WLE	Bootstrap Kurtosis of WLE
16	39.47	0.22	-0.04	2.99
17	39.01	0.22	-0.03	2.97
18	38.50	0.22	0.00	2.96
19	37.95	0.22	0.00	2.94
20	37.28	0.21	0.01	2.93
21	36.63	0.21	0.01	2.92
22	35.94	0.21	0.02	2.93
23	35.20	0.21	0.00	2.94
24	34.42	0.21	0.00	2.94
25	33.62	0.21	0.00	2.95
26	32.79	0.20	0.01	2.97
27	31.95	0.20	0.01	2.98
28	31.09	0.20	0.03	3.00
29	30.22	0.20	0.03	2.97
30	29.35	0.20	0.03	2.98
31	28.48	0.20	0.02	2.93
32	27.61	0.19	0.00	2.93
33	26.75	0.19	0.00	2.94
34	25.89	0.19	0.00	2.96
35	25.03	0.19	0.00	2.94
36	24.17	0.19	-0.01	2.95
37	23.32	0.19	-0.02	2.98
38	22.47	0.19	-0.02	2.98
39	21.62	0.19	-0.01	2.98
40	20.77	0.19	0.00	2.96
41	19.94	0.18	0.00	2.95
42	19.11	0.18	0.00	2.96
43	18.29	0.18	0.01	2.93
44	17.46	0.18	0.02	2.94
45	16.64	0.18	0.03	2.98
46	15.82	0.18	0.04	3.02
47	15.01	0.18	0.03	3.03
48	14.21	0.17	0.05	3.00
49	13.41	0.17	0.05	3.00
50	12.63	0.17	0.07	2.99
51	11.86	0.17	0.08	2.98
52	11.10	0.17	0.07	2.96
53	10.37	0.16	0.07	2.99
54	9.66	0.16	0.04	2.98
55	8.97	0.16	0.05	3.02
56	8.30	0.16	0.06	3.03
57	7.65	0.15	0.06	3.03
58	7.04	0.15	0.06	2.99
59	6.48	0.15	0.05	3.00
60	5.97	0.15	0.02	3.01
61	5.51	0.15	0.03	2.97
62	5.12	0.15	0.01	2.91
63	4.77	0.15	0.01	2.93
64	4.47	0.16	0.12	3.03
65	4.20	0.16	0.11	3.17
66	3.96	0.16	0.14	3.30
67	3.74	0.16	0.14	3.03
68	3.53	0.17	0.09	3.01
69	3.36	0.17	0.13	3.16
70	3.19	0.17	0.12	3.02
71	3.01	0.17	0.18	3.14
72	2.81	0.18	0.19	3.11
73	2.62	0.19	0.19	3.16
74	2.44	0.18	0.18	3.07
75	2.26	0.17	0.28	3.25

**Table 4. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Inactive Men, Regardless of Education**

Age	Bootstrap Mean of WLE	Bootstrap SD of WLE	Bootstrap Mean of Median	Bootstrap SD of Median	Bootstrap Mean of Mode	Bootstrap SD of Mode
16	38.27	0.22	39.87	0.22	41.55	0.50
17	37.86	0.22	39.45	0.22	41.06	0.29
18	37.32	0.22	38.87	0.22	40.53	0.50
19	36.63	0.22	38.15	0.23	39.83	0.41
20	36.01	0.22	37.51	0.23	39.12	0.41
21	35.34	0.23	36.80	0.23	38.42	0.52
22	34.62	0.23	36.04	0.24	37.65	0.52
23	33.86	0.24	35.24	0.24	36.84	0.52
24	33.09	0.24	34.43	0.24	35.99	0.53
25	32.27	0.25	33.57	0.26	35.11	0.57
26	31.38	0.26	32.64	0.26	34.15	0.59
27	30.46	0.27	31.69	0.27	33.19	0.60
28	29.51	0.28	30.71	0.28	32.20	0.62
29	28.54	0.30	29.70	0.30	31.19	0.62
30	27.54	0.32	28.66	0.32	30.16	0.62
31	26.52	0.31	27.61	0.32	29.11	0.61
32	25.48	0.32	26.52	0.32	28.05	0.62
33	24.41	0.33	25.43	0.33	26.95	0.60
34	23.36	0.34	24.34	0.34	25.89	0.60
35	22.33	0.35	23.26	0.35	24.84	0.60
36	21.27	0.35	22.16	0.35	23.75	0.63
37	20.19	0.36	21.04	0.36	22.65	0.61
38	19.14	0.37	19.95	0.37	21.56	0.61
39	18.11	0.39	18.86	0.39	20.49	0.64
40	17.09	0.39	17.78	0.40	19.39	0.74
41	16.09	0.40	16.71	0.41	18.21	1.64
42	15.09	0.41	15.65	0.43	16.16	4.29
43	14.11	0.41	14.59	0.44	10.90	7.68
44	13.18	0.41	13.57	0.45	4.53	7.02
45	12.28	0.41	12.58	0.46	1.04	3.76
46	11.41	0.40	11.61	0.45	0.07	0.97
47	10.54	0.39	10.64	0.45	0.00	0.00
48	9.71	0.38	9.68	0.45	0.00	0.00
49	8.90	0.37	8.74	0.45	0.00	0.00
50	8.13	0.35	7.83	0.44	0.00	0.00
51	7.38	0.34	6.94	0.44	0.00	0.00
52	6.67	0.32	6.07	0.42	0.00	0.00
53	5.97	0.30	5.21	0.40	0.00	0.00
54	5.30	0.28	4.38	0.38	0.00	0.00
55	4.69	0.26	3.62	0.36	0.00	0.00
56	4.15	0.23	2.94	0.33	0.00	0.00
57	3.66	0.21	2.34	0.30	0.00	0.00
58	3.22	0.19	1.80	0.27	0.00	0.00
59	2.83	0.17	1.31	0.24	0.00	0.00
60	2.49	0.15	0.88	0.27	0.00	0.00
61	2.19	0.13	0.36	0.35	0.00	0.00
62	1.94	0.12	0.04	0.14	0.00	0.00
63	1.71	0.11	0.00	0.01	0.00	0.00
64	1.51	0.10	0.00	0.00	0.00	0.00
65	1.31	0.09	0.00	0.00	0.00	0.00
66	1.14	0.09	0.00	0.00	0.00	0.00
67	0.99	0.08	0.00	0.00	0.00	0.00
68	0.84	0.07	0.00	0.00	0.00	0.00
69	0.71	0.07	0.00	0.00	0.00	0.00
70	0.60	0.06	0.00	0.00	0.00	0.00
71	0.49	0.06	0.00	0.00	0.00	0.00
72	0.41	0.06	0.00	0.00	0.00	0.00
73	0.34	0.05	0.00	0.00	0.00	0.00
74	0.28	0.05	0.00	0.00	0.00	0.00
75	0.23	0.05	0.00	0.00	0.00	0.00

**Table 4. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Inactive Men, Regardless of Education (Continued)**

Age	Bootstrap Mean of SD	Bootstrap SD of SD	Bootstrap Mean of Skewness	Bootstrap SD of Skewness	Bootstrap Mean of Kurtosis	Bootstrap SD of Kurtosis
16	9.87	0.12	-1.20	0.04	5.20	0.14
17	9.78	0.12	-1.19	0.04	5.15	0.14
18	9.66	0.12	-1.17	0.04	5.08	0.14
19	9.54	0.12	-1.14	0.04	5.01	0.13
20	9.41	0.11	-1.12	0.04	4.93	0.13
21	9.29	0.11	-1.09	0.04	4.84	0.13
22	9.16	0.11	-1.06	0.04	4.74	0.13
23	9.04	0.11	-1.03	0.04	4.63	0.13
24	8.92	0.11	-0.99	0.04	4.52	0.12
25	8.81	0.11	-0.95	0.04	4.41	0.12
26	8.72	0.11	-0.92	0.04	4.29	0.12
27	8.62	0.11	-0.88	0.04	4.18	0.11
28	8.54	0.11	-0.84	0.04	4.06	0.11
29	8.46	0.11	-0.80	0.04	3.95	0.10
30	8.38	0.11	-0.76	0.04	3.82	0.10
31	8.31	0.11	-0.72	0.04	3.70	0.09
32	8.25	0.12	-0.67	0.03	3.57	0.09
33	8.18	0.12	-0.62	0.03	3.45	0.09
34	8.11	0.12	-0.58	0.03	3.33	0.08
35	8.05	0.12	-0.53	0.03	3.22	0.08
36	7.99	0.12	-0.48	0.03	3.10	0.08
37	7.92	0.13	-0.43	0.03	3.00	0.08
38	7.84	0.13	-0.38	0.03	2.90	0.07
39	7.76	0.13	-0.33	0.03	2.80	0.07
40	7.66	0.13	-0.27	0.04	2.72	0.07
41	7.55	0.12	-0.22	0.04	2.64	0.07
42	7.43	0.12	-0.16	0.04	2.57	0.07
43	7.30	0.12	-0.09	0.04	2.51	0.06
44	7.15	0.11	-0.03	0.04	2.47	0.06
45	6.99	0.11	0.03	0.05	2.44	0.05
46	6.82	0.10	0.10	0.05	2.42	0.05
47	6.64	0.10	0.18	0.05	2.42	0.04
48	6.44	0.10	0.25	0.05	2.43	0.04
49	6.23	0.10	0.33	0.05	2.47	0.05
50	6.01	0.09	0.42	0.05	2.53	0.05
51	5.78	0.10	0.51	0.06	2.61	0.07
52	5.53	0.10	0.61	0.06	2.73	0.08
53	5.27	0.10	0.72	0.06	2.90	0.10
54	4.99	0.11	0.83	0.06	3.11	0.13
55	4.70	0.11	0.96	0.07	3.37	0.16
56	4.42	0.11	1.07	0.07	3.66	0.18
57	4.14	0.11	1.20	0.07	4.00	0.21
58	3.87	0.11	1.32	0.07	4.39	0.24
59	3.61	0.12	1.45	0.07	4.82	0.27
60	3.37	0.11	1.58	0.08	5.28	0.31
61	3.14	0.11	1.70	0.08	5.78	0.34
62	2.93	0.10	1.83	0.08	6.31	0.38
63	2.73	0.10	1.95	0.09	6.88	0.44
64	2.54	0.10	2.08	0.09	7.52	0.50
65	2.35	0.10	2.23	0.10	8.28	0.59
66	2.16	0.10	2.39	0.11	9.15	0.70
67	1.98	0.09	2.55	0.12	10.15	0.83
68	1.80	0.09	2.74	0.14	11.38	1.02
69	1.62	0.09	2.95	0.16	12.86	1.24
70	1.45	0.09	3.18	0.19	14.64	1.57
71	1.28	0.09	3.43	0.23	16.75	2.03
72	1.13	0.09	3.69	0.29	19.15	2.65
73	0.99	0.09	3.94	0.35	21.72	3.44
74	0.87	0.09	4.19	0.43	24.56	4.58
75	0.75	0.09	4.48	0.57	28.01	6.59

**Table 4. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Inactive Men, Regardless of Education (Continued)**

Age	Bootstrap Mean of 25 <sup>th</sup> %	Bootstrap SD of 25 <sup>th</sup> Percentile	Bootstrap Mean of 75 <sup>th</sup> %	Bootstrap SD of 75 <sup>th</sup> Percentile	Bootstrap Mean of 10 <sup>th</sup> %	Bootstrap SD of 10 <sup>th</sup> % Percentile	Bootstrap Mean of 90 <sup>th</sup> %	Bootstrap SD of 90 <sup>th</sup> Percentile
16	33.95	0.27	44.66	0.22	26.09	0.36	48.71	0.25
17	33.57	0.27	44.21	0.21	25.77	0.36	48.23	0.24
18	33.03	0.28	43.60	0.22	25.32	0.36	47.59	0.25
19	32.36	0.28	42.83	0.22	24.73	0.36	46.80	0.26
20	31.75	0.28	42.15	0.22	24.21	0.36	46.10	0.25
21	31.09	0.28	41.41	0.22	23.64	0.36	45.34	0.25
22	30.37	0.29	40.62	0.23	23.02	0.36	44.53	0.26
23	29.62	0.29	39.79	0.24	22.36	0.37	43.69	0.27
24	28.84	0.29	38.96	0.23	21.67	0.36	42.84	0.27
25	28.01	0.31	38.08	0.24	20.93	0.37	41.95	0.28
26	27.10	0.31	37.14	0.25	20.10	0.38	41.01	0.28
27	26.17	0.33	36.18	0.25	19.24	0.39	40.04	0.28
28	25.20	0.34	35.19	0.26	18.35	0.41	39.05	0.28
29	24.20	0.37	34.18	0.28	17.41	0.43	38.05	0.30
30	23.16	0.38	33.15	0.29	16.44	0.45	37.02	0.31
31	22.11	0.38	32.11	0.29	15.45	0.46	35.99	0.31
32	21.01	0.40	31.05	0.29	14.41	0.47	34.93	0.31
33	19.90	0.41	29.97	0.30	13.36	0.48	33.86	0.31
34	18.80	0.42	28.89	0.30	12.32	0.50	32.79	0.32
35	17.72	0.43	27.84	0.31	11.29	0.52	31.75	0.32
36	16.60	0.44	26.76	0.31	10.24	0.53	30.68	0.33
37	15.47	0.45	25.66	0.32	9.17	0.54	29.60	0.33
38	14.36	0.47	24.59	0.32	8.14	0.56	28.53	0.33
39	13.28	0.50	23.52	0.34	7.15	0.58	27.47	0.34
40	12.20	0.51	22.45	0.34	6.18	0.59	26.41	0.34
41	11.15	0.52	21.40	0.35	5.25	0.59	25.37	0.34
42	10.11	0.54	20.34	0.36	4.35	0.60	24.31	0.35
43	9.09	0.55	19.28	0.37	3.49	0.59	23.26	0.36
44	8.12	0.55	18.25	0.38	2.70	0.57	22.23	0.36
45	7.19	0.56	17.24	0.39	1.98	0.55	21.22	0.38
46	6.29	0.54	16.26	0.38	1.30	0.53	20.23	0.37
47	5.41	0.54	15.26	0.39	0.64	0.52	19.23	0.38
48	4.56	0.52	14.28	0.39	0.16	0.31	18.23	0.38
49	3.75	0.50	13.31	0.39	0.01	0.08	17.25	0.38
50	2.99	0.47	12.35	0.38	0.00	0.00	16.28	0.37
51	2.28	0.44	11.40	0.39	0.00	0.00	15.32	0.38
52	1.63	0.40	10.47	0.38	0.00	0.00	14.37	0.38
53	1.00	0.41	9.52	0.37	0.00	0.00	13.39	0.37
54	0.35	0.40	8.58	0.37	0.00	0.00	12.41	0.37
55	0.03	0.14	7.68	0.36	0.00	0.00	11.46	0.37
56	0.00	0.01	6.86	0.34	0.00	0.00	10.57	0.36
57	0.00	0.00	6.09	0.32	0.00	0.00	9.73	0.35
58	0.00	0.00	5.37	0.30	0.00	0.00	8.93	0.34
59	0.00	0.00	4.71	0.29	0.00	0.00	8.17	0.33
60	0.00	0.00	4.11	0.27	0.00	0.00	7.47	0.31
61	0.00	0.00	3.56	0.25	0.00	0.00	6.83	0.30
62	0.00	0.00	3.09	0.23	0.00	0.00	6.25	0.28
63	0.00	0.00	2.64	0.22	0.00	0.00	5.71	0.28
64	0.00	0.00	2.24	0.20	0.00	0.00	5.20	0.26
65	0.00	0.00	1.84	0.21	0.00	0.00	4.68	0.27
66	0.00	0.00	1.46	0.20	0.00	0.00	4.20	0.25
67	0.00	0.00	1.13	0.20	0.00	0.00	3.72	0.26
68	0.00	0.00	0.75	0.32	0.00	0.00	3.24	0.24
69	0.00	0.00	0.31	0.35	0.00	0.00	2.77	0.26
70	0.00	0.00	0.06	0.18	0.00	0.00	2.33	0.24
71	0.00	0.00	0.01	0.06	0.00	0.00	1.92	0.26
72	0.00	0.00	0.00	0.01	0.00	0.00	1.54	0.26
73	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.28
74	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.36
75	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.43

**Table 5. Bootstrap Estimates of Correlation Coefficients of Years of Activity Measures for Initially Inactive Men, Regardless of Education**

Age	Correlation Coefficient Mean and Median	Correlation Coefficient Mean and Mode	Correlation Coefficient Median and Mode	Correlation Coefficient Mean and SD	Correlation Coefficient 25 <sup>th</sup> and 75 <sup>th</sup> Percentiles	Correlation Coefficient 10 <sup>th</sup> and 90 <sup>th</sup> Percentiles
16	0.96	0.51	0.62	-0.09	0.72	0.34
17	0.96	0.37	0.44	-0.09	0.72	0.34
18	0.96	0.44	0.54	-0.09	0.72	0.34
19	0.96	0.40	0.48	-0.09	0.72	0.35
20	0.96	0.36	0.44	-0.09	0.72	0.36
21	0.96	0.35	0.43	-0.08	0.72	0.37
22	0.96	0.32	0.41	-0.09	0.73	0.38
23	0.96	0.31	0.39	-0.10	0.74	0.40
24	0.96	0.28	0.35	-0.11	0.74	0.40
25	0.97	0.31	0.37	-0.12	0.76	0.45
26	0.97	0.31	0.37	-0.13	0.77	0.46
27	0.97	0.32	0.38	-0.16	0.78	0.48
28	0.97	0.35	0.40	-0.21	0.80	0.51
29	0.98	0.35	0.40	-0.23	0.82	0.56
30	0.98	0.36	0.41	-0.26	0.83	0.59
31	0.98	0.33	0.38	-0.30	0.83	0.57
32	0.98	0.39	0.44	-0.33	0.84	0.59
33	0.98	0.39	0.44	-0.35	0.84	0.60
34	0.98	0.40	0.45	-0.36	0.84	0.60
35	0.98	0.39	0.44	-0.39	0.85	0.61
36	0.98	0.41	0.46	-0.39	0.84	0.61
37	0.99	0.42	0.46	-0.40	0.84	0.61
38	0.99	0.41	0.46	-0.41	0.84	0.61
39	0.99	0.47	0.51	-0.41	0.85	0.63
40	0.99	0.44	0.48	-0.40	0.85	0.63
41	0.99	0.40	0.42	-0.38	0.85	0.64
42	0.99	0.53	0.54	-0.34	0.86	0.66
43	0.99	0.70	0.68	-0.29	0.86	0.66
44	0.99	0.67	0.66	-0.23	0.86	0.67
45	0.99	0.46	0.45	-0.13	0.87	0.69
46	0.99	0.16	0.15	-0.07	0.87	0.68
47	0.99			0.06	0.87	0.64
48	0.99			0.18	0.87	0.50
49	0.99			0.30	0.88	0.21
50	0.99			0.41	0.88	
51	0.99			0.55	0.89	
52	0.99			0.63	0.88	
53	0.99			0.71	0.86	
54	0.99			0.77	0.77	
55	0.99			0.82	0.42	
56	0.98			0.85	0.05	
57	0.97			0.87		
58	0.96			0.88		
59	0.95			0.90		
60	0.89			0.90		
61	0.82			0.90		
62	0.47			0.90		
63	0.04			0.90		
64				0.90		
65				0.90		
66				0.90		
67				0.90		
68				0.90		
69				0.90		
70				0.90		
71				0.90		
72				0.90		
73				0.89		
74				0.89		
75				0.90		

**Table 6. Bootstrap Estimates of the Mean, Standard Deviation, Skewness, and Kurtosis of the Mean of Years of Activity for Initially Inactive Men, Regardless of Education**

Age	Bootstrap Mean of WLE	Bootstrap SD of WLE	Bootstrap Skewness of WLE	Bootstrap Kurtosis of WLE
16	38.27	0.22	-0.08	3.08
17	37.86	0.22	-0.06	3.11
18	37.32	0.22	-0.07	3.11
19	36.63	0.22	-0.05	3.08
20	36.01	0.22	-0.04	3.10
21	35.34	0.23	-0.02	2.97
22	34.62	0.23	-0.04	2.96
23	33.86	0.24	-0.09	2.94
24	33.09	0.24	-0.09	2.97
25	32.27	0.25	-0.05	3.01
26	31.38	0.26	-0.03	2.96
27	30.46	0.27	-0.09	2.98
28	29.51	0.28	-0.14	3.11
29	28.54	0.30	-0.14	2.97
30	27.54	0.32	-0.16	2.97
31	26.52	0.31	-0.11	3.04
32	25.48	0.32	-0.15	3.11
33	24.41	0.33	-0.12	2.96
34	23.36	0.34	-0.16	3.01
35	22.33	0.35	-0.22	2.96
36	21.27	0.35	-0.12	2.98
37	20.19	0.36	-0.14	2.98
38	19.14	0.37	-0.13	2.82
39	18.11	0.39	-0.10	2.93
40	17.09	0.39	-0.13	3.25
41	16.09	0.40	-0.13	3.22
42	15.09	0.41	-0.13	3.21
43	14.11	0.41	-0.16	3.09
44	13.18	0.41	-0.13	2.97
45	12.28	0.41	-0.08	2.94
46	11.41	0.40	-0.06	2.91
47	10.54	0.39	-0.11	3.11
48	9.71	0.38	-0.10	3.13
49	8.90	0.37	-0.08	2.83
50	8.13	0.35	-0.03	2.88
51	7.38	0.34	-0.05	3.05
52	6.67	0.32	-0.04	3.02
53	5.97	0.30	-0.04	3.16
54	5.30	0.28	0.04	3.11
55	4.69	0.26	0.07	3.05
56	4.15	0.23	0.07	3.07
57	3.66	0.21	0.06	2.89
58	3.22	0.19	0.05	2.95
59	2.83	0.17	0.04	3.04
60	2.49	0.15	0.16	2.96
61	2.19	0.13	0.09	2.88
62	1.94	0.12	0.15	2.93
63	1.71	0.11	0.07	2.94
64	1.51	0.10	0.08	3.05
65	1.31	0.09	0.15	3.05
66	1.14	0.09	0.13	3.02
67	0.99	0.08	0.20	3.00
68	0.84	0.07	0.21	3.13
69	0.71	0.07	0.21	3.22
70	0.60	0.06	0.26	3.27
71	0.49	0.06	0.18	3.09
72	0.41	0.06	0.16	3.02
73	0.34	0.05	0.20	3.07
74	0.28	0.05	0.24	2.94
75	0.23	0.05	0.31	2.99

**Table 7. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Active Women, Regardless of Education**

Age	Bootstrap Mean of WLE	Bootstrap SD of WLE	Bootstrap Mean of Median	Bootstrap SD of Median	Bootstrap Mean of Mode	Bootstrap SD of Mode
16	34.40	0.25	34.52	0.26	36.24	0.45
17	33.85	0.24	33.96	0.25	35.60	0.36
18	33.27	0.24	33.38	0.25	35.07	0.50
19	32.66	0.24	32.76	0.25	34.45	0.38
20	32.03	0.24	32.12	0.25	33.78	0.48
21	31.40	0.24	31.48	0.25	33.18	0.51
22	30.75	0.24	30.83	0.25	32.49	0.51
23	30.08	0.24	30.15	0.25	31.77	0.56
24	29.41	0.23	29.47	0.24	31.08	0.61
25	28.73	0.23	28.78	0.24	30.37	0.68
26	28.03	0.23	28.07	0.24	29.65	0.72
27	27.33	0.23	27.35	0.24	28.95	0.76
28	26.61	0.22	26.63	0.23	28.21	0.81
29	25.90	0.22	25.90	0.23	27.48	0.86
30	25.17	0.22	25.16	0.23	26.78	0.91
31	24.45	0.22	24.42	0.23	26.07	0.96
32	23.71	0.21	23.67	0.23	25.34	0.97
33	22.98	0.21	22.91	0.23	24.59	1.00
34	22.24	0.21	22.15	0.23	23.83	1.02
35	21.50	0.21	21.39	0.22	23.07	1.03
36	20.76	0.21	20.63	0.22	22.30	1.04
37	20.01	0.20	19.86	0.22	21.53	1.06
38	19.27	0.20	19.09	0.22	20.76	1.08
39	18.53	0.20	18.32	0.22	19.95	1.11
40	17.78	0.20	17.55	0.22	19.13	1.12
41	17.04	0.19	16.77	0.22	18.30	1.14
42	16.30	0.19	16.00	0.21	17.50	1.15
43	15.56	0.19	15.22	0.21	16.68	1.16
44	14.83	0.19	14.45	0.21	15.86	1.15
45	14.10	0.19	13.68	0.21	15.00	1.16
46	13.37	0.18	12.91	0.21	14.13	1.15
47	12.65	0.18	12.14	0.21	13.26	1.15
48	11.96	0.18	11.40	0.20	12.39	1.14
49	11.27	0.17	10.66	0.20	11.53	1.12
50	10.60	0.17	9.94	0.20	10.67	1.09
51	9.94	0.17	9.22	0.19	9.80	1.08
52	9.30	0.17	8.52	0.19	8.93	1.06
53	8.68	0.16	7.84	0.19	8.08	1.05
54	8.08	0.16	7.19	0.18	7.21	1.03
55	7.53	0.16	6.58	0.18	6.38	1.02
56	6.99	0.16	5.99	0.18	5.54	1.02
57	6.47	0.16	5.41	0.18	4.72	1.01
58	5.97	0.16	4.86	0.18	3.93	1.02
59	5.50	0.16	4.36	0.18	3.16	1.03
60	5.07	0.16	3.90	0.19	2.45	1.03
61	4.69	0.16	3.49	0.19	1.82	0.99
62	4.37	0.16	3.16	0.19	1.43	0.84
63	4.08	0.17	2.87	0.20	1.12	0.73
64	3.82	0.17	2.60	0.20	0.96	0.67
65	3.60	0.17	2.38	0.20	0.92	0.62
66	3.39	0.17	2.17	0.20	0.81	0.53
67	3.21	0.18	2.01	0.22	0.72	0.45
68	3.07	0.18	1.91	0.23	0.68	0.41
69	2.94	0.19	1.84	0.24	0.67	0.41
70	2.79	0.19	1.75	0.24	0.71	0.46
71	2.61	0.18	1.61	0.23	0.74	0.47
72	2.41	0.18	1.44	0.22	0.73	0.47
73	2.21	0.19	1.28	0.23	0.69	0.42
74	2.02	0.19	1.16	0.26	0.66	0.42
75	1.83	0.19	1.01	0.24	0.78	0.48

**Table 7. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Active Women, Regardless of Education (Continued)**

Age	Bootstrap Mean of SD	Bootstrap SD of SD	Bootstrap Mean of Skewness	Bootstrap SD of Skewness	Bootstrap Mean of Kurtosis	Bootstrap SD of Kurtosis
16	8.78	0.09	-0.47	0.03	3.51	0.08
17	8.72	0.09	-0.46	0.03	3.46	0.08
18	8.66	0.09	-0.44	0.03	3.42	0.07
19	8.60	0.09	-0.43	0.03	3.37	0.07
20	8.54	0.09	-0.42	0.03	3.33	0.07
21	8.47	0.09	-0.41	0.03	3.30	0.06
22	8.40	0.09	-0.40	0.03	3.26	0.06
23	8.33	0.09	-0.39	0.03	3.22	0.06
24	8.26	0.09	-0.37	0.03	3.19	0.06
25	8.19	0.09	-0.36	0.03	3.16	0.05
26	8.11	0.09	-0.35	0.03	3.13	0.05
27	8.03	0.09	-0.34	0.03	3.10	0.05
28	7.94	0.09	-0.33	0.03	3.07	0.05
29	7.85	0.09	-0.31	0.03	3.05	0.05
30	7.76	0.09	-0.30	0.03	3.02	0.05
31	7.67	0.09	-0.29	0.03	2.99	0.05
32	7.57	0.09	-0.27	0.03	2.96	0.04
33	7.48	0.09	-0.25	0.03	2.93	0.04
34	7.38	0.09	-0.23	0.03	2.91	0.04
35	7.28	0.09	-0.21	0.03	2.88	0.04
36	7.17	0.09	-0.19	0.03	2.85	0.04
37	7.07	0.09	-0.17	0.03	2.83	0.04
38	6.96	0.09	-0.15	0.03	2.80	0.04
39	6.84	0.09	-0.12	0.03	2.78	0.04
40	6.73	0.09	-0.10	0.03	2.76	0.04
41	6.61	0.09	-0.07	0.03	2.74	0.04
42	6.48	0.09	-0.04	0.03	2.72	0.05
43	6.35	0.09	0.00	0.03	2.71	0.05
44	6.22	0.09	0.03	0.03	2.70	0.05
45	6.09	0.09	0.07	0.03	2.69	0.05
46	5.95	0.09	0.11	0.04	2.69	0.05
47	5.80	0.09	0.15	0.04	2.70	0.06
48	5.65	0.09	0.20	0.04	2.71	0.06
49	5.49	0.09	0.24	0.04	2.73	0.06
50	5.33	0.09	0.30	0.04	2.76	0.07
51	5.16	0.09	0.35	0.04	2.79	0.07
52	4.99	0.09	0.40	0.04	2.84	0.08
53	4.82	0.09	0.46	0.04	2.90	0.09
54	4.65	0.10	0.52	0.04	2.98	0.10
55	4.47	0.10	0.59	0.05	3.07	0.11
56	4.29	0.10	0.66	0.05	3.17	0.12
57	4.11	0.10	0.73	0.05	3.28	0.14
58	3.94	0.10	0.80	0.05	3.41	0.15
59	3.77	0.10	0.87	0.06	3.53	0.17
60	3.61	0.11	0.93	0.06	3.66	0.20
61	3.46	0.11	0.99	0.07	3.78	0.22
62	3.31	0.11	1.04	0.07	3.88	0.25
63	3.16	0.11	1.09	0.08	3.97	0.27
64	3.02	0.11	1.12	0.09	4.03	0.30
65	2.89	0.11	1.14	0.10	4.06	0.33
66	2.76	0.12	1.15	0.10	4.05	0.36
67	2.64	0.12	1.14	0.11	4.00	0.38
68	2.51	0.12	1.12	0.12	3.92	0.41
69	2.37	0.12	1.09	0.13	3.88	0.45
70	2.22	0.12	1.08	0.14	3.89	0.51
71	2.06	0.12	1.09	0.16	3.96	0.59
72	1.90	0.12	1.12	0.18	4.09	0.69
73	1.74	0.13	1.15	0.21	4.27	0.81
74	1.58	0.13	1.20	0.24	4.57	0.96
75	1.42	0.14	1.32	0.27	5.12	1.19

**Table 7. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Active Women, Regardless of Education (Continued)**

Age	Bootstrap Mean of 25 <sup>th</sup> %	Bootstrap SD of 25 <sup>th</sup> Percentile	Bootstrap Mean of 75 <sup>th</sup> %	Bootstrap SD of 75 <sup>th</sup> Percentile	Bootstrap Mean of 10 <sup>th</sup> %	Bootstrap SD of 10 <sup>th</sup> % Percentile	Bootstrap Mean of 90 <sup>th</sup> %	Bootstrap SD of 90 <sup>th</sup> Percentile
16	28.51	0.28	39.99	0.24	22.56	0.30	44.52	0.26
17	27.98	0.28	39.40	0.24	22.06	0.30	43.91	0.26
18	27.42	0.28	38.79	0.24	21.53	0.30	43.27	0.25
19	26.84	0.27	38.15	0.24	20.97	0.30	42.60	0.26
20	26.22	0.28	37.48	0.24	20.40	0.30	41.90	0.26
21	25.62	0.27	36.81	0.24	19.83	0.29	41.20	0.25
22	24.99	0.27	36.12	0.24	19.24	0.29	40.48	0.25
23	24.36	0.27	35.41	0.24	18.65	0.29	39.74	0.26
24	23.72	0.26	34.69	0.24	18.05	0.29	38.99	0.25
25	23.06	0.26	33.96	0.23	17.45	0.28	38.23	0.25
26	22.41	0.26	33.22	0.23	16.83	0.28	37.44	0.25
27	21.73	0.26	32.45	0.23	16.22	0.28	36.64	0.26
28	21.06	0.26	31.68	0.23	15.60	0.27	35.84	0.26
29	20.38	0.26	30.90	0.23	14.98	0.27	35.03	0.25
30	19.69	0.25	30.12	0.22	14.36	0.27	34.20	0.25
31	19.01	0.25	29.32	0.22	13.74	0.26	33.38	0.25
32	18.32	0.25	28.52	0.22	13.12	0.27	32.54	0.25
33	17.63	0.24	27.72	0.22	12.50	0.26	31.70	0.26
34	16.93	0.24	26.91	0.22	11.88	0.26	30.86	0.26
35	16.23	0.24	26.10	0.22	11.27	0.26	30.02	0.25
36	15.53	0.24	25.27	0.22	10.65	0.25	29.17	0.25
37	14.83	0.23	24.45	0.22	10.03	0.25	28.32	0.25
38	14.13	0.23	23.63	0.22	9.43	0.24	27.46	0.25
39	13.44	0.23	22.80	0.22	8.83	0.23	26.60	0.26
40	12.74	0.23	21.97	0.22	8.23	0.24	25.74	0.26
41	12.04	0.23	21.14	0.21	7.65	0.23	24.88	0.26
42	11.35	0.22	20.30	0.21	7.07	0.23	24.02	0.26
43	10.66	0.22	19.46	0.22	6.52	0.22	23.15	0.26
44	9.98	0.22	18.62	0.22	5.96	0.22	22.28	0.26
45	9.30	0.22	17.79	0.22	5.44	0.21	21.41	0.26
46	8.63	0.21	16.95	0.22	4.91	0.20	20.54	0.26
47	7.97	0.21	16.12	0.21	4.42	0.19	19.68	0.27
48	7.34	0.20	15.30	0.21	3.96	0.18	18.82	0.27
49	6.74	0.20	14.48	0.22	3.54	0.17	17.98	0.27
50	6.15	0.20	13.67	0.22	3.11	0.17	17.13	0.26
51	5.58	0.19	12.88	0.22	2.71	0.16	16.29	0.26
52	5.03	0.19	12.10	0.22	2.33	0.16	15.46	0.27
53	4.52	0.18	11.33	0.22	1.98	0.14	14.65	0.28
54	4.04	0.17	10.58	0.23	1.68	0.13	13.86	0.28
55	3.61	0.17	9.88	0.23	1.45	0.13	13.10	0.28
56	3.19	0.16	9.19	0.22	1.22	0.13	12.35	0.28
57	2.79	0.15	8.51	0.23	1.00	0.11	11.62	0.29
58	2.41	0.15	7.87	0.23	0.79	0.10	10.92	0.30
59	2.05	0.14	7.26	0.23	0.62	0.09	10.26	0.30
60	1.73	0.13	6.69	0.24	0.52	0.04	9.63	0.32
61	1.46	0.13	6.18	0.24	0.50	0.01	9.07	0.33
62	1.26	0.14	5.72	0.26	0.50	0.00	8.56	0.34
63	1.08	0.14	5.32	0.25	0.50	0.00	8.10	0.34
64	0.94	0.14	4.96	0.27	0.50	0.00	7.68	0.35
65	0.83	0.14	4.66	0.29	0.50	0.00	7.30	0.34
66	0.71	0.14	4.39	0.29	0.50	0.00	6.92	0.35
67	0.63	0.12	4.18	0.30	0.50	0.00	6.56	0.35
68	0.58	0.11	4.00	0.31	0.50	0.00	6.23	0.36
69	0.57	0.10	3.80	0.31	0.50	0.00	5.90	0.39
70	0.56	0.10	3.56	0.30	0.50	0.00	5.55	0.37
71	0.54	0.08	3.29	0.30	0.50	0.00	5.13	0.35
72	0.52	0.06	3.02	0.33	0.50	0.00	4.66	0.35
73	0.51	0.04	2.74	0.32	0.50	0.00	4.20	0.34
74	0.51	0.03	2.42	0.29	0.50	0.00	3.74	0.36
75	0.51	0.04	2.10	0.29	0.50	0.00	3.32	0.37

**Table 8. Bootstrap Estimates of Correlation Coefficients of Years of Activity Measures for Initially Active Women, Regardless of Education**

Age	Correlation Coefficient Median and Median	Correlation Coefficient Mean and Mode	Correlation Coefficient Median and Mode	Correlation Coefficient Mean and SD	Correlation Coefficient 25 <sup>th</sup> and 75 <sup>th</sup> Percentiles	Correlation Coefficient 10 <sup>th</sup> and 90 <sup>th</sup> Percentiles
16	0.99	0.63	0.68	-0.11	0.85	0.58
17	0.99	0.58	0.62	-0.10	0.85	0.58
18	0.99	0.63	0.68	-0.10	0.84	0.57
19	0.99	0.52	0.57	-0.10	0.84	0.57
20	0.99	0.54	0.58	-0.09	0.84	0.56
21	0.99	0.49	0.54	-0.08	0.83	0.55
22	0.99	0.46	0.50	-0.08	0.83	0.55
23	0.98	0.43	0.47	-0.07	0.83	0.54
24	0.98	0.39	0.43	-0.07	0.82	0.53
25	0.98	0.38	0.42	-0.06	0.81	0.52
26	0.98	0.33	0.39	-0.05	0.81	0.51
27	0.98	0.31	0.37	-0.04	0.80	0.50
28	0.98	0.30	0.35	-0.02	0.79	0.49
29	0.98	0.31	0.37	-0.02	0.79	0.48
30	0.98	0.29	0.35	-0.02	0.78	0.47
31	0.98	0.28	0.35	-0.01	0.77	0.46
32	0.97	0.28	0.33	0.01	0.76	0.44
33	0.97	0.29	0.35	0.02	0.75	0.43
34	0.97	0.26	0.33	0.04	0.74	0.43
35	0.97	0.25	0.33	0.05	0.73	0.42
36	0.97	0.24	0.32	0.07	0.73	0.41
37	0.96	0.22	0.30	0.08	0.71	0.40
38	0.96	0.20	0.28	0.10	0.70	0.39
39	0.96	0.22	0.30	0.12	0.69	0.38
40	0.96	0.21	0.30	0.14	0.69	0.37
41	0.95	0.22	0.31	0.15	0.68	0.36
42	0.95	0.22	0.31	0.18	0.66	0.35
43	0.95	0.23	0.33	0.19	0.66	0.35
44	0.95	0.21	0.32	0.21	0.65	0.34
45	0.94	0.22	0.33	0.24	0.64	0.33
46	0.94	0.21	0.33	0.27	0.63	0.31
47	0.94	0.18	0.31	0.30	0.62	0.30
48	0.93	0.18	0.33	0.33	0.61	0.30
49	0.93	0.19	0.35	0.37	0.60	0.30
50	0.93	0.19	0.36	0.39	0.59	0.29
51	0.92	0.17	0.35	0.42	0.58	0.28
52	0.91	0.16	0.34	0.44	0.58	0.27
53	0.91	0.15	0.33	0.47	0.55	0.26
54	0.91	0.15	0.32	0.50	0.55	0.25
55	0.90	0.16	0.33	0.52	0.54	0.23
56	0.90	0.14	0.27	0.55	0.52	0.23
57	0.90	0.12	0.22	0.58	0.51	0.23
58	0.90	0.13	0.19	0.60	0.49	0.23
59	0.89	0.14	0.16	0.62	0.49	0.20
60	0.89	0.19	0.16	0.65	0.48	0.15
61	0.88	0.17	0.10	0.67	0.50	0.07
62	0.90	0.20	0.13	0.66	0.52	0.02
63	0.89	0.18	0.11	0.66	0.51	0.04
64	0.88	0.20	0.13	0.66	0.52	
65	0.88	0.23	0.14	0.66	0.52	
66	0.89	0.21	0.15	0.64	0.48	
67	0.89	0.22	0.18	0.66	0.46	
68	0.90	0.22	0.16	0.67	0.43	
69	0.90	0.24	0.18	0.65	0.45	
70	0.89	0.26	0.21	0.63	0.43	
71	0.87	0.21	0.16	0.62	0.38	
72	0.87	0.25	0.25	0.61	0.30	
73	0.89	0.21	0.21	0.62	0.24	
74	0.91	0.27	0.29	0.62	0.21	
75	0.91	0.42	0.50	0.60	0.26	

**Table 9. Bootstrap Estimates of the Mean, Standard Deviation, Skewness, and Kurtosis of the Mean of Years of Activity for Initially Active Women, Regardless of Education**

Age	Bootstrap Mean of WLE	Bootstrap SD of WLE	Bootstrap Skewness of WLE	Bootstrap Kurtosis of WLE
16	34.40	0.25	0.03	3.03
17	33.85	0.24	0.03	3.00
18	33.27	0.24	0.03	3.02
19	32.66	0.24	0.04	3.01
20	32.03	0.24	0.04	3.00
21	31.40	0.24	0.05	2.96
22	30.75	0.24	0.06	3.04
23	30.08	0.24	0.05	3.04
24	29.41	0.23	0.06	3.09
25	28.73	0.23	0.04	3.11
26	28.03	0.23	0.01	3.09
27	27.33	0.23	0.02	3.13
28	26.61	0.22	0.04	3.16
29	25.90	0.22	0.02	3.16
30	25.17	0.22	0.03	3.16
31	24.45	0.22	0.02	3.17
32	23.71	0.21	0.03	3.17
33	22.98	0.21	0.00	3.10
34	22.24	0.21	0.00	3.14
35	21.50	0.21	0.03	3.18
36	20.76	0.21	0.03	3.17
37	20.01	0.20	0.00	3.18
38	19.27	0.20	0.01	3.15
39	18.53	0.20	0.00	3.18
40	17.78	0.20	0.01	3.19
41	17.04	0.19	0.01	3.25
42	16.30	0.19	0.01	3.20
43	15.56	0.19	0.00	3.22
44	14.83	0.19	0.01	3.25
45	14.10	0.19	0.00	3.26
46	13.37	0.18	0.01	3.21
47	12.65	0.18	0.00	3.21
48	11.96	0.18	-0.01	3.16
49	11.27	0.17	-0.03	3.05
50	10.60	0.17	-0.01	3.11
51	9.94	0.17	0.02	3.08
52	9.30	0.17	0.01	3.13
53	8.68	0.16	0.00	3.09
54	8.08	0.16	0.04	3.11
55	7.53	0.16	0.02	3.01
56	6.99	0.16	0.02	2.95
57	6.47	0.16	0.04	2.95
58	5.97	0.16	0.04	2.91
59	5.50	0.16	0.05	2.90
60	5.07	0.16	0.11	2.98
61	4.69	0.16	0.16	3.07
62	4.37	0.16	0.14	3.11
63	4.08	0.17	0.13	2.99
64	3.82	0.17	0.12	2.97
65	3.60	0.17	0.08	3.05
66	3.39	0.17	0.14	3.04
67	3.21	0.18	0.13	3.02
68	3.07	0.18	0.14	3.00
69	2.94	0.19	0.21	3.08
70	2.79	0.19	0.23	2.99
71	2.61	0.18	0.20	2.96
72	2.41	0.18	0.16	2.91
73	2.21	0.19	0.17	3.12
74	2.02	0.19	0.23	3.14
75	1.83	0.19	0.18	3.20

**Table 10. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Inactive Women, Regardless of Education**

Age	Bootstrap Mean of WLE	Bootstrap SD of WLE	Bootstrap Mean of Median	Bootstrap SD of Median	Bootstrap Mean of Mode	Bootstrap SD of Mode
16	33.22	0.25	33.83	0.26	34.99	0.34
17	32.76	0.25	33.37	0.26	34.53	0.50
18	32.23	0.25	32.83	0.26	34.00	0.34
19	31.54	0.25	32.14	0.26	33.26	0.45
20	30.80	0.25	31.38	0.26	32.55	0.50
21	30.10	0.25	30.68	0.26	31.86	0.41
22	29.36	0.25	29.93	0.26	31.07	0.40
23	28.60	0.25	29.15	0.27	30.28	0.47
24	27.81	0.26	28.35	0.27	29.48	0.51
25	26.99	0.26	27.52	0.27	28.66	0.50
26	26.14	0.26	26.66	0.27	27.78	0.49
27	25.28	0.26	25.78	0.27	26.88	0.46
28	24.43	0.26	24.92	0.27	25.97	0.45
29	23.60	0.25	24.07	0.26	25.10	0.46
30	22.77	0.25	23.23	0.26	24.23	0.49
31	21.94	0.25	22.38	0.26	23.37	0.52
32	21.11	0.25	21.53	0.26	22.50	0.54
33	20.28	0.24	20.68	0.25	21.65	0.55
34	19.49	0.24	19.88	0.26	20.84	0.55
35	18.72	0.24	19.08	0.26	20.04	0.58
36	17.94	0.25	18.28	0.26	19.23	0.59
37	17.13	0.25	17.46	0.26	18.39	0.61
38	16.31	0.24	16.61	0.26	17.54	0.63
39	15.46	0.24	15.74	0.26	16.67	0.64
40	14.63	0.25	14.87	0.27	15.81	0.66
41	13.79	0.25	14.00	0.27	14.87	1.17
42	12.94	0.25	13.10	0.27	11.86	5.16
43	12.05	0.25	12.15	0.28	2.06	4.83
44	11.14	0.26	11.16	0.29	0.01	0.34
45	10.23	0.26	10.16	0.30	0.00	0.00
46	9.36	0.26	9.17	0.31	0.00	0.00
47	8.53	0.25	8.21	0.31	0.00	0.00
48	7.71	0.25	7.23	0.32	0.00	0.00
49	6.90	0.25	6.24	0.33	0.00	0.00
50	6.13	0.24	5.28	0.33	0.00	0.00
51	5.42	0.23	4.38	0.33	0.00	0.00
52	4.78	0.22	3.55	0.32	0.00	0.00
53	4.20	0.21	2.80	0.31	0.00	0.00
54	3.67	0.19	2.11	0.29	0.00	0.00
55	3.20	0.17	1.49	0.27	0.00	0.00
56	2.77	0.16	0.93	0.29	0.00	0.00
57	2.40	0.15	0.29	0.35	0.00	0.00
58	2.07	0.13	0.01	0.07	0.00	0.00
59	1.78	0.12	0.00	0.00	0.00	0.00
60	1.53	0.10	0.00	0.00	0.00	0.00
61	1.30	0.09	0.00	0.00	0.00	0.00
62	1.11	0.08	0.00	0.00	0.00	0.00
63	0.95	0.08	0.00	0.00	0.00	0.00
64	0.81	0.07	0.00	0.00	0.00	0.00
65	0.69	0.06	0.00	0.00	0.00	0.00
66	0.59	0.05	0.00	0.00	0.00	0.00
67	0.50	0.05	0.00	0.00	0.00	0.00
68	0.43	0.05	0.00	0.00	0.00	0.00
69	0.36	0.04	0.00	0.00	0.00	0.00
70	0.30	0.04	0.00	0.00	0.00	0.00
71	0.24	0.03	0.00	0.00	0.00	0.00
72	0.19	0.03	0.00	0.00	0.00	0.00
73	0.15	0.03	0.00	0.00	0.00	0.00
74	0.11	0.03	0.00	0.00	0.00	0.00
75	0.09	0.02	0.00	0.00	0.00	0.00

**Table 10. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Inactive Women, Regardless of Education (Continued)**

Age	Bootstrap Mean of SD	Bootstrap SD of SD	Bootstrap Mean of Skewness	Bootstrap SD of Skewness	Bootstrap Mean of Kurtosis	Bootstrap SD of Kurtosis
16	8.78	0.09	-0.46	0.03	3.49	0.08
17	8.73	0.09	-0.45	0.03	3.45	0.07
18	8.68	0.09	-0.44	0.03	3.41	0.07
19	8.62	0.09	-0.42	0.03	3.36	0.07
20	8.56	0.09	-0.41	0.03	3.31	0.06
21	8.51	0.09	-0.40	0.03	3.27	0.06
22	8.46	0.09	-0.38	0.03	3.23	0.06
23	8.40	0.09	-0.37	0.03	3.19	0.05
24	8.35	0.09	-0.36	0.03	3.15	0.05
25	8.29	0.09	-0.34	0.03	3.12	0.05
26	8.24	0.09	-0.33	0.03	3.08	0.05
27	8.18	0.09	-0.31	0.03	3.04	0.04
28	8.11	0.09	-0.29	0.03	3.00	0.04
29	8.04	0.09	-0.28	0.03	2.97	0.04
30	7.97	0.09	-0.26	0.03	2.93	0.04
31	7.90	0.09	-0.24	0.03	2.90	0.04
32	7.82	0.09	-0.22	0.03	2.87	0.04
33	7.74	0.09	-0.20	0.03	2.83	0.04
34	7.66	0.09	-0.19	0.03	2.80	0.04
35	7.58	0.09	-0.17	0.03	2.77	0.04
36	7.50	0.09	-0.15	0.03	2.73	0.04
37	7.42	0.09	-0.12	0.03	2.70	0.04
38	7.33	0.10	-0.09	0.03	2.66	0.04
39	7.25	0.09	-0.06	0.03	2.62	0.04
40	7.16	0.09	-0.03	0.03	2.58	0.04
41	7.07	0.09	0.01	0.03	2.54	0.04
42	6.97	0.09	0.05	0.03	2.50	0.04
43	6.87	0.09	0.11	0.03	2.47	0.04
44	6.74	0.09	0.17	0.03	2.44	0.04
45	6.59	0.09	0.24	0.03	2.43	0.04
46	6.42	0.09	0.32	0.04	2.45	0.04
47	6.23	0.09	0.40	0.04	2.49	0.05
48	6.02	0.09	0.49	0.04	2.56	0.06
49	5.77	0.09	0.60	0.05	2.67	0.07
50	5.50	0.09	0.71	0.05	2.83	0.09
51	5.21	0.10	0.83	0.05	3.05	0.11
52	4.92	0.10	0.96	0.06	3.31	0.14
53	4.62	0.11	1.09	0.06	3.63	0.17
54	4.32	0.11	1.22	0.07	4.02	0.20
55	4.02	0.11	1.37	0.07	4.48	0.24
56	3.73	0.11	1.52	0.08	5.02	0.29
57	3.45	0.11	1.68	0.08	5.64	0.35
58	3.17	0.11	1.84	0.09	6.36	0.41
59	2.92	0.11	2.01	0.09	7.18	0.48
60	2.68	0.11	2.19	0.10	8.10	0.56
61	2.45	0.10	2.38	0.11	9.17	0.66
62	2.23	0.10	2.57	0.12	10.33	0.78
63	2.04	0.10	2.77	0.13	11.61	0.92
64	1.85	0.09	2.97	0.14	13.05	1.07
65	1.68	0.09	3.19	0.16	14.64	1.27
66	1.53	0.09	3.39	0.17	16.31	1.48
67	1.39	0.08	3.61	0.19	18.13	1.76
68	1.25	0.08	3.84	0.22	20.30	2.15
69	1.12	0.08	4.11	0.26	22.97	2.68
70	0.99	0.08	4.42	0.30	26.34	3.37
71	0.86	0.07	4.81	0.36	30.90	4.42
72	0.74	0.07	5.26	0.45	36.79	6.05
73	0.63	0.07	5.78	0.59	44.40	8.68
74	0.53	0.07	6.39	0.82	54.58	13.65
75	0.44	0.07	7.11	1.18	68.20	22.62

**Table 10. Bootstrap Estimates of the Mean and Standard Deviation of Years of Activity Measures for Initially Inactive Women, Regardless of Education (Continued)**

Age	Bootstrap Mean of 25 <sup>th</sup> %	Bootstrap SD of 25 <sup>th</sup> Percentile	Bootstrap Mean of 75 <sup>th</sup> %	Bootstrap SD of 75 <sup>th</sup> Percentile	Bootstrap Mean of 10 <sup>th</sup> %	Bootstrap SD of 10 <sup>th</sup> % Percentile	Bootstrap Mean of 90 <sup>th</sup> %	Bootstrap SD of 90 <sup>th</sup> % Percentile
16	27.83	0.28	39.31	0.25	21.87	0.30	43.85	0.26
17	27.39	0.28	38.82	0.25	21.46	0.30	43.34	0.26
18	26.87	0.28	38.26	0.25	20.97	0.30	42.76	0.26
19	26.20	0.28	37.54	0.25	20.33	0.30	42.03	0.26
20	25.47	0.28	36.77	0.25	19.63	0.30	41.22	0.26
21	24.79	0.28	36.04	0.25	18.98	0.30	40.47	0.26
22	24.06	0.28	35.27	0.25	18.29	0.30	39.68	0.27
23	23.31	0.29	34.47	0.26	17.58	0.30	38.87	0.27
24	22.54	0.29	33.65	0.26	16.83	0.30	38.03	0.27
25	21.73	0.29	32.79	0.26	16.06	0.30	37.16	0.27
26	20.90	0.29	31.91	0.26	15.27	0.31	36.26	0.27
27	20.05	0.29	31.01	0.26	14.47	0.31	35.34	0.27
28	19.22	0.29	30.12	0.26	13.68	0.30	34.43	0.27
29	18.41	0.28	29.24	0.25	12.91	0.30	33.53	0.27
30	17.61	0.28	28.37	0.25	12.16	0.30	32.64	0.27
31	16.80	0.28	27.49	0.26	11.41	0.30	31.74	0.27
32	15.99	0.28	26.60	0.26	10.66	0.30	30.83	0.27
33	15.19	0.28	25.72	0.25	9.91	0.29	29.92	0.27
34	14.43	0.28	24.88	0.25	9.21	0.30	29.05	0.27
35	13.68	0.28	24.05	0.25	8.52	0.30	28.19	0.27
36	12.92	0.28	23.21	0.25	7.81	0.30	27.33	0.27
37	12.13	0.29	22.36	0.25	7.07	0.31	26.46	0.27
38	11.32	0.29	21.48	0.25	6.31	0.31	25.56	0.27
39	10.48	0.29	20.58	0.25	5.53	0.31	24.64	0.27
40	9.64	0.30	19.69	0.26	4.74	0.32	23.74	0.28
41	8.79	0.30	18.80	0.25	3.96	0.33	22.84	0.27
42	7.92	0.31	17.90	0.26	3.15	0.33	21.92	0.28
43	6.98	0.32	16.94	0.26	2.31	0.33	20.96	0.28
44	6.02	0.33	15.95	0.27	1.48	0.33	19.97	0.29
45	5.07	0.34	14.94	0.28	0.63	0.41	18.96	0.29
46	4.14	0.35	13.94	0.29	0.03	0.14	17.96	0.30
47	3.26	0.34	12.97	0.29	0.00	0.00	16.98	0.29
48	2.40	0.33	11.97	0.29	0.00	0.00	15.99	0.30
49	1.58	0.32	10.94	0.30	0.00	0.00	14.95	0.30
50	0.80	0.38	9.92	0.31	0.00	0.00	13.92	0.31
51	0.10	0.24	8.93	0.31	0.00	0.00	12.90	0.32
52	0.00	0.02	7.99	0.32	0.00	0.00	11.93	0.32
53	0.00	0.00	7.10	0.31	0.00	0.00	10.99	0.32
54	0.00	0.00	6.24	0.30	0.00	0.00	10.07	0.32
55	0.00	0.00	5.42	0.30	0.00	0.00	9.18	0.32
56	0.00	0.00	4.66	0.29	0.00	0.00	8.33	0.32
57	0.00	0.00	3.96	0.28	0.00	0.00	7.52	0.32
58	0.00	0.00	3.31	0.26	0.00	0.00	6.76	0.31
59	0.00	0.00	2.72	0.25	0.00	0.00	6.06	0.30
60	0.00	0.00	2.19	0.23	0.00	0.00	5.39	0.28
61	0.00	0.00	1.69	0.23	0.00	0.00	4.76	0.28
62	0.00	0.00	1.25	0.21	0.00	0.00	4.19	0.26
63	0.00	0.00	0.85	0.27	0.00	0.00	3.66	0.27
64	0.00	0.00	0.33	0.35	0.00	0.00	3.17	0.24
65	0.00	0.00	0.04	0.15	0.00	0.00	2.70	0.25
66	0.00	0.00	0.00	0.02	0.00	0.00	2.30	0.22
67	0.00	0.00	0.00	0.00	0.00	0.00	1.93	0.23
68	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.23
69	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.23
70	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.32
71	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.40
72	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.29
73	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.14
74	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

**Table 11. Bootstrap Estimates of Correlation Coefficients of Years of Activity Measures for Initially Inactive Women, Regardless of Education**

Age	Correlation Coefficient Mean and Median	Correlation Coefficient Mean and Mode	Correlation Coefficient Median and Mode	Correlation Coefficient Mean and SD	Correlation Coefficient 25 <sup>th</sup> and 75 <sup>th</sup> Percentiles	Correlation Coefficient 10 <sup>th</sup> and 90 <sup>th</sup> Percentiles
16	0.99	0.58	0.61	-0.07	0.85	0.57
17	0.99	0.69	0.73	-0.07	0.84	0.57
18	0.99	0.58	0.62	-0.07	0.84	0.57
19	0.99	0.64	0.68	-0.06	0.84	0.57
20	0.99	0.65	0.70	-0.07	0.84	0.56
21	0.99	0.58	0.63	-0.07	0.84	0.57
22	0.99	0.54	0.59	-0.06	0.84	0.57
23	0.99	0.59	0.64	-0.06	0.84	0.58
24	0.99	0.61	0.65	-0.06	0.85	0.58
25	0.99	0.59	0.64	-0.06	0.84	0.58
26	0.99	0.56	0.60	-0.06	0.85	0.58
27	0.99	0.56	0.59	-0.05	0.84	0.58
28	0.99	0.53	0.57	-0.04	0.84	0.57
29	0.99	0.51	0.55	-0.03	0.83	0.56
30	0.99	0.49	0.53	-0.03	0.83	0.55
31	0.99	0.50	0.54	-0.03	0.83	0.55
32	0.99	0.49	0.54	-0.03	0.82	0.55
33	0.99	0.48	0.54	-0.02	0.81	0.52
34	0.99	0.49	0.55	-0.02	0.81	0.52
35	0.98	0.48	0.54	-0.02	0.80	0.51
36	0.98	0.48	0.54	-0.03	0.81	0.51
37	0.98	0.47	0.53	-0.03	0.80	0.51
38	0.98	0.43	0.50	-0.03	0.79	0.49
39	0.98	0.44	0.51	-0.03	0.79	0.49
40	0.98	0.42	0.49	-0.02	0.79	0.50
41	0.98	0.35	0.39	-0.02	0.79	0.50
42	0.98	0.54	0.54	0.02	0.79	0.50
43	0.99	0.49	0.48	0.06	0.79	0.51
44	0.99	0.06	0.05	0.11	0.80	0.52
45	0.99			0.19	0.81	0.50
46	0.99			0.29	0.81	0.25
47	0.99			0.36	0.81	
48	0.99			0.45	0.81	
49	0.99			0.56	0.82	
50	0.98			0.65	0.80	
51	0.98			0.72	0.56	
52	0.98			0.78	0.11	
53	0.97			0.82		
54	0.96			0.85		
55	0.95			0.87		
56	0.90			0.89		
57	0.78			0.90		
58	0.29			0.91		
59				0.91		
60				0.91		
61				0.92		
62				0.92		
63				0.92		
64				0.92		
65				0.92		
66				0.92		
67				0.91		
68				0.91		
69				0.91		
70				0.91		
71				0.91		
72				0.90		
73				0.90		
74				0.90		
75				0.91		

**Table 12. Bootstrap Estimates of the Mean, Standard Deviation, Skewness, and Kurtosis of the Mean of Years of Activity for Initially Inactive Women, Regardless of Education**

Age	Bootstrap Mean of WLE	Bootstrap SD of WLE	Bootstrap Skewness of WLE	Bootstrap Kurtosis of WLE
16	33.22	0.25	-0.05	2.91
17	32.76	0.25	-0.05	2.92
18	32.23	0.25	-0.05	2.91
19	31.54	0.25	-0.06	2.95
20	30.80	0.25	-0.05	2.93
21	30.10	0.25	-0.05	2.92
22	29.36	0.25	-0.06	2.91
23	28.60	0.25	-0.05	2.88
24	27.81	0.26	-0.04	2.84
25	26.99	0.26	-0.06	2.99
26	26.14	0.26	-0.11	3.06
27	25.28	0.26	-0.13	3.13
28	24.43	0.26	-0.15	3.23
29	23.60	0.25	-0.13	3.23
30	22.77	0.25	-0.11	3.21
31	21.94	0.25	-0.10	3.11
32	21.11	0.25	-0.09	3.02
33	20.28	0.24	-0.09	3.07
34	19.49	0.24	-0.09	3.15
35	18.72	0.24	-0.09	3.08
36	17.94	0.25	-0.07	3.06
37	17.13	0.25	-0.05	3.07
38	16.31	0.24	-0.02	3.00
39	15.46	0.24	-0.03	2.99
40	14.63	0.25	-0.06	2.96
41	13.79	0.25	-0.09	2.92
42	12.94	0.25	-0.03	2.89
43	12.05	0.25	-0.08	2.95
44	11.14	0.26	-0.07	3.02
45	10.23	0.26	-0.11	2.97
46	9.36	0.26	-0.06	3.00
47	8.53	0.25	-0.07	3.07
48	7.71	0.25	0.02	2.99
49	6.90	0.25	-0.02	2.87
50	6.13	0.24	-0.02	2.90
51	5.42	0.23	0.05	2.98
52	4.78	0.22	0.06	2.95
53	4.20	0.21	0.03	2.97
54	3.67	0.19	0.06	3.00
55	3.20	0.17	0.09	2.94
56	2.77	0.16	0.08	3.06
57	2.40	0.15	0.03	3.00
58	2.07	0.13	0.04	3.13
59	1.78	0.12	0.09	3.04
60	1.53	0.10	0.08	2.98
61	1.30	0.09	0.10	3.00
62	1.11	0.08	0.18	3.07
63	0.95	0.08	0.21	3.04
64	0.81	0.07	0.21	3.07
65	0.69	0.06	0.18	3.02
66	0.59	0.05	0.23	2.91
67	0.50	0.05	0.22	2.93
68	0.43	0.05	0.25	3.04
69	0.36	0.04	0.23	2.98
70	0.30	0.04	0.26	3.05
71	0.24	0.03	0.30	3.12
72	0.19	0.03	0.36	3.13
73	0.15	0.03	0.39	3.10
74	0.11	0.03	0.40	3.21
75	0.09	0.02	0.45	3.25

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