# SCALED FACTORS FOR HYPOTHETICAL EARNINGS EXAMPLES UNDER THE 2011 TRUSTEES REPORT ASSUMPTIONS

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#### 1. Introduction

Hypothetical earnings histories have traditionally been used by the Office of the Chief Actuary to illustrate a range of benefit levels, replacement rates, money's worth measures, and internal rates of return under the Social Security program. These illustrations have long been used to evaluate the program under present law. In addition, in recent years, these hypothetical earnings histories have formed the basis for illustrating possible program changes on benefit levels.<sup>1</sup>

Prior to the development of scaled factors, hypothetical steady workers were generally used. Such steady workers are assumed to earn a constant percentage of SSA's national average wage index  $(AWI)^2$  throughout their careers. These hypothetical steady earnings patterns tend to over-represent the proportion of actual lifetime earnings received at younger ages and under-represent the proportion received at prime working ages for most workers. Over-representing early earnings tends to bias downward estimates of the internal rate of return of the present-law program. To avoid this bias, the Office of the Chief Actuary developed scaled worker hypothetical earnings patterns in 2001. These patterns express earnings at levels relative to the AWI by age. These earnings levels reflect the average patterns of work and earnings of actual insured workers over their careers.

This note presents the three sets of scaled worker factors recently updated for the hypothetical low, medium, and high lifetime earnings examples used in table VI.F10 of the 2011 Trustees Report. In addition, this note presents a set of scaled worker factors for a hypothetical worker with "very low" lifetime earnings. Final scaled factors are presented in table 6.

In developing these four sets of factors, one set of raw scaled factors is initially developed using earnings from the Continuous Work History Sample (CWHS). A preliminary adjustment is made to these raw factors for ages 62 and over to account for the select nature of these workers who continue working at such ages. Then, these preliminary adjusted scaled factors are further adjusted so that the resulting *career-average earnings levels*<sup>3</sup> are 25 percent, 45 percent, 100 percent, and 160 percent of the AWI for the very low, low, medium, and high hypothetical workers, respectively. These career-average earnings levels have been selected in order to provide both a useful range of examples and continuity with previous estimates for hypothetical workers. A final hypothetical "maximum" earner with earnings equal to the OASDI maximum taxable earnings level for each year is also included in order to provide a fuller range of career taxable earnings levels under the Social Security program.

It is useful to see how overall earnings for these hypothetical workers compare to those of actual retiring workers. The Average Indexed Monthly Earnings<sup>4</sup> (AIME), which is calculated based on a worker's earnings, is a convenient measure of this. Table 1 shows the distribution of actual workers retiring in 2010 relative to the AIMEs of hypothetical scaled workers, based on a 1-percent sample of records from SSA's administrative records.

<sup>&</sup>lt;sup>1</sup>Refer to the February 2, 2011 letter from Stephen C. Goss for an example of this illustrative benefits analysis. This letter is located at: http://www.socialsecurity.gov/OACT/solvency/BowlesSimpsonRivlinDomenici\_

<sup>20110202.</sup>pdf <sup>2</sup> For more information on the national average wage index, including histori-

cal values, see:

http://www.socialsecurity.gov/OACT/COLA/AWI.html.

<sup>&</sup>lt;sup>3</sup> Career-average earnings levels are defined as specified percentages of the AWI for the hypothetical workers described in this note. *Career-average* earnings are defined as the average of the highest 35 years of earnings, indexed for growth in average wages to the year prior to benefit entillement. See further discussion under the subsection 3.b. This revision was introduced with the 2003 Trustees Report.

<sup>&</sup>lt;sup>4</sup> The AIME is used in the computation of Social Security benefits. See http://www.socialsecurity.gov/OACT/COLA/Benefits.html#aime for more details on how the AIME is calculated.

		Percent with AIME less than AIME for hypothetical case			Percent with AIME closest to AIME for hypothetical case <sup>3</sup>		
		Total,				Total,	
Hypothetical worker <sup>1</sup>		All	All	all	All	All	all
(Career-average earnings) <sup>2</sup>		males	females	workers	males	females	workers
Very Low	(\$10,175)	6.7	17.2	11.7	10.8	26.9	18.4
Low	(\$18,316)	14.7	36.1	24.8	14.6	31.2	22.4
Medium	(\$40,702)	38.5	74.8	55.6	28.8	29.2	29.0
High	(\$65,124)	69.7	94.4	81.3	30.6	11.3	21.5
Maximum	(\$94,006)	100	100	100	15.2	1.5	8.7

Table 1.—Distribution of AIMEs of Actual Workers Retiring in 2010, Relative to AIMEs for Hypothetical Workers Retiring in 2010

<sup>1</sup> See text for definition of hypothetical workers.

<sup>2</sup> Career-average earnings of hypothetical scaled workers retiring at age 62 in 2010. Earnings are wage indexed to 2009 in this calculation.

<sup>3</sup> Rounded values do not necessarily sum to 100 percent. The percentage of workers with AIME values closest to that of the hypothetical maximum worker is expected to decline in future years. This is due to a significant increase in the OASDI maximum taxable earnings, relative to the AWI, in 1981 and a smaller increase in 1990.

Note: Worker distributions include individuals who are dually entitled, or may become dually entitled to a higher benefit in the future, based on another worker's account. See text for further discussion.

Table 1 shows that 36.1 percent of female workers retiring in 2010 have AIMEs below that of a hypothetical low wage scaled worker and that about 41 percent of all workers retiring in 2010 have AIMEs closest to that of hypothetical low or very low wage scaled workers. The level of earnings corresponding to the very low scaled factors was first included in 2004 and was initially chosen so that approximately half the retirees who were previously best represented by the hypothetical low scaled worker would now be best represented by the hypothetical very low scaled worker.

Dually entitled workers, though still insured for worker benefits, receive a larger benefit as a dependent on another worker's account (generally as a spouse or widow(er)) than they would as a worker beneficiary only. A significant proportion of entitled female workers, especially those with lower earnings, will receive higher benefits as aged spouse or aged widow beneficiaries. If such dually entitled workers were excluded from this analysis, the distributions would be concentrated more toward the higher-level hypothetical workers.

# 2. Developing Raw Scaled Factors from Earnings in the CWHS

Development of the raw scaled factors occurs in three steps:

- a. Select workers in the CWHS for computing the factors;
- b. Tabulate the earnings for these workers; and
- c. Develop the raw scaled factors from the tabulated earnings.

# a. Select Workers in the CWHS for Computing the Factors

The CWHS is a 1-percent sample of workers with some OASDI taxable earnings during their lifetime. It is updated annually by the Office of Systems based on specifications from the Office of Research, Evaluation, and Statistics. The factors in this actuarial note are developed using the CWHS containing earnings data through 2008. It is important to limit analysis only to workers who are likely either to be eligible for retirement or disability benefits, or to have dependents eligible for survivors benefits. To include only those workers, we used the status of *fully insured*. A worker is considered fully insured if he or she has a total number of quarters of coverage  $(QCs)^5$  at least equal to the number of years after attainment of age 21 through the last year considered in the analysis (in this case 2007). A further requirement is that the worker has a minimum of 6 QCs. Since *permanent insured status* is achieved with 40 QCs, any worker with 40 QCs is fully insured no matter how many years have elapsed since age 21. Any worker who is classified as fully insured is likely to become eligible for a Social Security retirement benefit if he or she survives to eligibility age.

<sup>&</sup>lt;sup>5</sup> The QC is the basic unit for determining whether a worker is insured for Social Security benefits. In 2011, for example, a worker needed to have \$1,120 in covered earnings to obtain a QC. Workers can earn up to 4 QCs per calendar year. Since 1978 the amount of covered earnings required to obtain a QC has been automatically indexed each year with the growth in SSA's national average wage index. See

http://www.socialsecurity.gov/OACT/COLA/QC.html for more information, including a list of historical QC amounts.

# b. Tabulate Earnings for These Workers

The updated CWHS file contains taxable earnings for years 1951 through 2008. Due to posting delays, the earnings for 2008 in this file are less complete than for earlier years and were not used in our analysis. For each of the workers classified as fully insured as of 2007 (based on all earnings after 1950), our analysis includes earnings for the most recent 17-year period (1991 through 2007) for ages 21 and over. Each year of earnings is classified by age of worker, and is expressed as the ratio of the earnings to the AWI for the year.

Scaled factors were developed taking into account both the variations in earnings by age and the probabilities that workers may have years with zero earnings. Years with zero earnings are included among the earnings records selected. However, years in which the worker was deceased<sup>6</sup> or receiving a retired worker or disabled worker Social Security benefit are not included.

# c. Develop Raw Scaled Factors from the Tabulated Earnings

To normalize earnings from different years, annual earnings amounts for each year are divided by the AWI for that year. For each fully insured worker, normalized earnings are tabulated by age for each age 21 and over for years 1991-2007, as described in the preceding paragraph. The normalized earnings are summed by age and a corresponding worker count is kept. The raw scaled factors are determined by dividing the tabulated sum for each age, including years at zero earnings, by the corresponding numbers of workers. The results are shown in table 2.

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Table 2.—Raw Scaled Worker Factors for the 2011 Trustees Report

Age	Factor 0.274
21	0.274
21	
22	0.328
23	0.406
24	0.477
25	0.535
26	0.585
27	0.630
28	0.670
29	0.704
30	0.733
31	0.758
32	0.779
33	0.797
34	0.814
35	0.828
36	0.841
37	0.854
38	0.864
39	0.874
40	0.884
41	0.892
42	0.901
43	0.909
44	0.917
45	0.924
46	0.929
47	0.932
48	0.934
49	0.933
50	0.931
51	0.926
52	0.917
53	0.906
54	0.892
55	0.874
56	0.845
57	0.816
58	0.786
59	0.754
60	0.712
61	0.662
62	0.841
63	0.863
64	0.843

<sup>&</sup>lt;sup>6</sup> Data concerning worker deaths appears in the CWHS. However, death data in the CWHS does not include all state-reported death data. Therefore, we also used Social Security's NUMIDENT file to identify deaths of individuals in the CWHS. The NUMIDENT file contains, among other things, death data including state-reported deaths.

# 3. Adjust Raw Scaled Factors to Match Selected Career-Average Earnings Levels

Adjustment of the raw scaled factors occurs in three steps:

- a. Calculate preliminary adjusted scaled factors from the raw scaled factors by overriding the scaled factors at ages 62-64;
- b. Construct the earnings pattern and calculate the career-average earnings for a hypothetical scaled worker using the preliminary adjusted scaled factors; and
- c. Calculate very low, low, medium, and high *final* scaled factors from the preliminary adjusted scaled factors such that the career-average earnings for these hypothetical workers match the selected percentages of the AWI in the year prior to entitlement (25, 45, 100 and 160 percent).

# a. Calculate Preliminary Adjusted Scaled Factors from Raw Scaled Factors

The following values, based on table 2, show that there is an accelerating decline in raw factors at ages 60 and 61, followed by increases at ages 62 and 63:

Age	Raw Scaled Factor	Difference	
55	0.874		
56	0.845	-0.029	
57	0.816	-0.029	
58	0.786	-0.030	
59	0.754	-0.032	
60	0.712	-0.042	
61	0.662	-0.050	
62	0.841	+0.179	
63	0.863	+0.022	
64	0.843	-0.020	

We do not have definitive information on the reasons for these changes after age 59. However, it seems reasonable to assume that some of the decline in the raw factors at ages 60 and 61 is due to the retirement (total or partial) of some workers before they became entitled to their OASDI retirement benefits at age 62. The increases in the raw factors at ages 62 and 63 may reasonably be attributed to the fact that healthier, higherwage workers, and workers who have maintained consistent employment at older ages, are more likely to delay entitlement to OASDI benefits until after age 62. The earnings of many non-workers, low-wage workers, or less-healthy workers have been removed from the tabulated group starting at age 62 because they have started to receive retirement benefits under Social Security.

Due to the differences between the groups of workers represented in data for ages just-before versus just-after reaching age 62, a smoother set of "adjusted" raw factors is developed for ages 62-64. The factors are developed assuming that earnings for workers over age 61 will stay constant in nominal dollars, thus decreasing in dollars that are indexed by changes in the AWI.

The preliminary adjusted scaled factors are set equal to the raw scaled factors for ages up to 61. Factors for ages 62 and over are calculated so that earnings in nominal dollars stay constant at the level for age 61. For example, the preliminary adjusted factor for age 62 is calculated by dividing the factor for age 61 by the *ultimate* assumed annual increase in average wages under the intermediate assumptions of the 2011 Trustees Report. The calculation of the preliminary adjusted scaled factors for ages 62-64 is shown in table 3.

This approach, while providing an imperfect approximation for all types of workers, was adopted in order to avoid having different scales for workers who become entitled to OASDI benefits at different ages.

Table 3.—Scaled Factor Adjustments
Made for Ages After 61

Age	61	62	63	64
Raw scaled factor	0.662	0.841	0.863	0.843
Ultimate AWI increase since age 61, based on 2011 Trustees Report, Intermediate Assumptions	1.000	1.040	$(1.040)^2$	$(1.040)^3$
Preliminary adjusted scaled factor (age 61 raw scaled factor) / (Ultimate AWI increase)	0.662	0.637	0.612	0.589

# b. Construct the Earnings Pattern and Calculate the Career-Average Earnings for a Selected Hypothetical Scaled Worker Using the Preliminary Adjusted Scaled Factors

The hypothetical scaled worker that is selected (referred to as the *1960-born preliminary scaled worker*) is assumed to have been born on January 2, 1960, to have earnings from age 21 through 64, and to retire at age 65. Earnings for each year are calculated by multiplying the preliminary adjusted scaled factor for that age by the AWI value for the corresponding year. This worker turns age 22 in 1982. So the age 22 preliminary adjusted factor of 0.328 is multiplied by the 1982 AWI of \$14,531.34 to obtain annual earnings of \$4,766.28.

Table 4 shows the preliminary adjusted scaled factors, AWI amounts, and corresponding hypothetical earnings for the 1960-born preliminary scaled worker.

The last line of table 4 shows career-average earnings of \$61,219 (wage indexed to 2024) for the 1960-born preliminary scaled worker. This is a slightly different calculation than the AIME because (1) earnings are indexed to the year prior to entitlement rather than to two years prior to eligibility, and (2) earnings are averaged on an annual basis instead of a monthly one. For the 1960-born preliminary scaled worker, who retires at age 65 in 2025, the indexing year in computing career-average earnings is 2024.

				Estimated earnings	Earnings wag
		Preliminary adjusted	AWI for	for current year	indexed
		scaled factors	current year	$(1)^{*}(2)$	202
Ag	ge	(1)	(2)	(3)	(•
2		0.274	\$13,773.10	\$3,773.83	\$20,017.8
22	2	0.328	14,531.34	4,766.28	23,962.9
23		0.406	15,239.24	6,187.13	29,661.
24		0.477	16,135.07	7,696.43	34,848.
25		0.535	16,822.51	9,000.04	39,085.
20		0.585	17,321.82	10,133.26	42,738.
27		0.630	18,426.51	11,608.70	46,026.
28		0.670	19,334.04	12,953.81	48,948.
29		0.704	20,099.55	14,150.08	51,432.
30		0.733	21,027.98	15,413.51	53,551.
3		0.758	21,811.60	16,533.19	55,377.
32		0.779	22,935.42	17,866.69	56,912.
33		0.797	23,132.67	18,436.74	58,227.
34		0.814	23,753.53	19,335.37	59,469.
35		0.828	24,705.66	20,456.29	60,491.
30		0.841	25,913.90	21,793.59	61,441.
31		0.854	27,426.00	23,421.80	62,391.
38		0.864	28,861.44	24,936.28	63,121.
39		0.874	30,469.84	26,630.64	63,852.
40		0.884	32,154.82	28,424.86	64,583.
4		0.892	32,921.92	29,366.35	65,167.
42		0.901	33,252.09	29,960.13	65,825.
43		0.909	34,064.95	30,965.04	66,409.
44		0.917	35,648.55	32,689.72	66,993.
4		0.924	36,952.94	34,144.52	67,505.
40		0.929	38,651.41	35,907.16	67,870.
47		0.932	40,405.48	37,657.91	68,089.
48		0.934	41,334.97	38,606.86	68,235.
49		0.933	40,711.61	37,983.93	68,162.
50		0.931	41,843.71	38,956.49	68,016.
5		0.926	43,517.83	40,297.51	67,651.
52		0.917	45,435.49	41,664.34	66,993.
53		0.906	47,489.90	43,025.85	66,190.
54		0.892	49,462.43	44,120.49	65,167.
55		0.874	51,398.64	44,922.41	63,852.
50		0.845	53,430.36	45,148.65	61,733.
57		0.816	55,551.37	45,329.92	59,615.
58		0.786	57,969.43	45,563.97	57,423.
59		0.754	60,406.32	45,546.37	55,085.
60		0.712	62,760.16	44,685.23	52,017.
6		0.662	65,184.43	43,152.09	48,364.
62		0.637	67,715.48	43,103.51	46,504.
63		0.612	70,334.99	43,048.97	44,715.
64		0.589	73,057.77	42,995.64	42,995.

Table 4.—Computation of the Earnings Record and the Career-Average Earnings for the 1960-Born Preliminary Scaled
Worker Based on the Preliminary Adjusted Scaled Factors and the AWI Series

c. Calculate Very Low, Low, Medium, and High Final Scaled Factors from the Preliminary Adjusted Scaled Factors such that Selected Hypothetical Scaled Workers with Earnings Based on These Factors Would Have Career-Average Earnings Equal to Selected Percentages of the AWI in the Year Prior to Entitlement.

The selected career-average earnings level for the medium scaled worker is the AWI in the year prior to entitlement. Similarly, the selected career-average earnings levels for the very low, low, and high scaled workers are 25 percent, 45 percent and 160 percent of the AWI in the year prior to entitlement, respectively. As noted earlier, the career-average earnings for the 1960-born preliminary scaled worker is shown in table 4 as \$61,219, wage indexed to 2024. By comparison, the average wage index for 2024 is \$73,057.77<sup>7</sup>. Corresponding career-average earnings levels for a very low, low, and high earner are \$18,264, \$32,876, and \$116,892, respectively. Table 5 summarizes this information, and also provides the ratio of the selected

career-average earnings levels to the career-average earnings for the 1960-born preliminary scaled worker.

Two primary reasons for choosing the year prior to entitlement as the indexing year in computing the career-average earnings are:

- To maintain consistency with prior hypothetical steady workers<sup>8</sup> while simplifying calculations; and
- To make the calculation of the hypothetical scaled worker factors independent of the prior hypothetical steady worker cases.

Furthermore, career-average earnings provide a reasonable denominator for replacement rate calculations that allow hypothetical scaled worker replacement rates to maintain consistency with the prior hypothetical steady worker replacement rates.

<sup>&</sup>lt;sup>7</sup> The projected AWI value for 2024 is taken from the 2011 Trustees Report. See http://www.socialsecurity.gov/OACT/TR/2011/lr6f6.html.

<sup>&</sup>lt;sup>8</sup> Prior to 2001, the hypothetical workers used were all "steady" workers. Today, only the "steady maximum" worker has been retained. "Steady" workers were assumed to work steadily beginning at age 22, until retirement, death, or disability, and to have a steady amount of earnings relative to the AWI each year. For example, the "steady average" worker was assumed to earn the AWI for every working year. Similarly, the "steady low" worker was assumed to earn 45 percent of the AWI for every working year, and the "steady high" worker was assumed to earn 160 percent of the AWI for every working year.

Case	Selected career-average earnings levels for hypothetical scaled workers (1)	Career-average earnings of the 1960-born preliminary selected scaled worker (2)	Ratio (1) / (2) (3)	
Very low earner	\$18,264	\$61,219	0.298	
Low earner	32,876	61,219	0.537	
Medium earner	73,058	61,219	1.193	
High earner	116,892	61,219	1.909	

Table 5.—Table of Key Ratios Used to Finalize Scaled Worker Calculations

The last step is to apply the ratios from table 5 to the preliminary adjusted scaled factors. This requires four separate calculations, one each for the very low, low, medium, and high scaled worker cases. For example, the scaled factors for the hypothetical medium scaled worker are determined by multiplying:

- The preliminary adjusted scaled factors for ages 21 through 64, by
- The ratio of 1.193 shown in tables 5 and 6.

Table 6 shows the calculation of the final scaled factors, combining the preliminary adjusted scaled factors with the adjustment factors.

			Final Scaled Facto	Final Scaled Factors by Earnings level				
Adjustment factors	djustment factors		Low	Medium	High			
	Preliminary adjusted							
Age	scaled factors	0.298	0.537	1.193	1.909			
21	0.274	0.082	0.147	0.327	0.523			
22	0.328	0.098	0.176	0.391	0.626			
23	0.406	0.121	0.218	0.485	0.775			
24	0.477	0.142	0.256	0.569	0.911			
25	0.535	0.160	0.287	0.638	1.022			
26	0.585	0.175	0.314	0.698	1.117			
27	0.630	0.188	0.338	0.752	1.203			
28	0.670	0.200	0.360	0.800	1.279			
29	0.704	0.210	0.378	0.840	1.344			
30	0.733	0.219	0.394	0.875	1.400			
31	0.758	0.226	0.407	0.905	1.447			
32	0.779	0.232	0.418	0.930	1.487			
33	0.797	0.238	0.428	0.951	1.522			
34	0.814	0.243	0.437	0.971	1.554			
35	0.828	0.247	0.445	0.988	1.581			
36	0.841	0.251	0.452	1.004	1.606			
37	0.854	0.255	0.459	1.019	1.631			
38	0.864	0.258	0.464	1.031	1.650			
39	0.874	0.261	0.469	1.043	1.669			
40	0.884	0.264	0.475	1.055	1.688			
41	0.892	0.266	0.479	1.064	1.703			
42	0.901	0.269	0.484	1.075	1.720			
43	0.909	0.271	0.488	1.085	1.736			
44	0.917	0.274	0.492	1.094	1.751			
45	0.924	0.276	0.496	1.103	1.764			
46	0.929	0.277	0.499	1.109	1.774			
47	0.932	0.278	0.501	1.112	1.780			
48	0.934	0.279	0.502	1.115	1.783			

#### Table 6.—Calculation of Final Scaled Factors

			Final Scaled Facto	rs by Earnings level	
stment factors		Very low	Low	Medium	High
Age	Preliminary adjusted scaled factors	0.298	0.537	1.193	1.909
49	0.933	0.278	0.501	1.113	1.781
50	0.931	0.278	0.500	1.111	1.778
51	0.926	0.276	0.497	1.105	1.768
52	0.917	0.274	0.492	1.094	1.751
53	0.906	0.270	0.487	1.081	1.730
54	0.892	0.266	0.479	1.064	1.703
55	0.874	0.261	0.469	1.043	1.669
56	0.845	0.252	0.454	1.008	1.613
57	0.816	0.243	0.438	0.974	1.558
58	0.786	0.234	0.422	0.938	1.501
59	0.754	0.225	0.405	0.900	1.440
60	0.712	0.212	0.382	0.850	1.360
61	0.662	0.198	0.356	0.790	1.264
62	0.637	0.190	0.342	0.760	1.215
63	0.612	0.183	0.329	0.730	1.169
64	0.589	0.176	0.316	0.702	1.124

Table 6.—Calculation of Final Scaled Factors (Cont.)

# 4. Developing Hypothetical Worker Earnings from Factors

Given a year of birth, and an earnings level for scaled workers, classified as either very low, low, medium, or high, annual earnings can be obtained by taking the relevant set of scaled factors and multiplying them by the AWIs in the corresponding years. Consider as an example a low earnings worker born in 1970. To determine earnings for this worker at age 22, the scaled factor for the low worker at age 22 would be multiplied by the AWI in 1992, the year in which the worker turns 22. Because the hypothetical workers are born in January, a year of age corresponds to a calendar year. Therefore, a worker born on January 2, 1970 would be age 22 throughout 1992. Earnings for other ages are determined in the same manner. In this manner, a series of very low, low, medium, and high scaled earnings can be developed for any hypothetical year of birth. Table 7 carries out the calculation of hypothetical scaled worker earnings for high earnings workers for the selected years of birth 1930, 1949, and 1997.

Year of birth		1930		1949		1997	
	Final scaled		Age-scaled		Age-scaled		Age-scaled
	factors for		earnings		earnings		earnings
	high earner	AWI	(1)*(2)	AWI	(1)*(4)	AWI	(1)*(6)
Age	(1)	(2)	(3)	(4)	(5)	(6)	(7)
21	0.523	\$2,799.16	\$1,464.46	\$6,186.24	\$3,236.51	\$57,969.43	\$30,328.42
22	0.626	2,973.32	1,862.15	6,497.08	4,069.04	60,406.32	37,831.75
23	0.775	3,139.44	2,433.76	7,133.80	5,530.28	62,760.16	48,653.07
24	0.911	3,155.64	2,874.13	7,580.16	6,903.94	65,184.43	59,369.37
25	1.022	3,301.44	3,372.54	8,030.76	8,203.72	67,715.48	69,173.84
26	1.117	3,532.36	3,945.67	8,630.92	9,640.80	70,334.99	78,564.70
27	1.203	3,641.72	4,380.74	9,226.48	11,098.82	73,057.77	87,883.46
28	1.279	3,673.80	4,699.92	9,779.44	12,510.91	75,917.46	97,121.78
29	1.344	3,855.80	5,183.07	10,556.03	14,189.71	78,934.90	106,106.47
30	1.400	4,007.12	5,608.37	11,479.46	16,066.66	82,069.24	114,864.16
31	1.447	4,086.76	5,914.91	12,513.46	18,111.18	85,333.24	123,505.87
32	1.487	4,291.40	6,383.17	13,773.10	20,486.57	88,739.86	131,994.66
33	1.522	4,396.64	6,690.82	14,531.34	22,113.84	92,292.47	140,450.97
34	1.554	4,576.32	7,112.81	15,239.24	23,685.79	96,003.74	149,215.08
35	1.581	4,658.72	7,365.41	16,135.07	25,509.47	99,869.91	157,893.83
36	1.606	4,938.36	7,930.10	16,822.51	27,013.88	103,904.63	166,851.86
37	1.631	5,213.44	8,501.24	17,321.82	28,245.65	108,100.56	176,273.07
38	1.650	5,571.76	9,191.92	18,426.51	30,398.84	112,470.97	185,547.17
39	1.669	5,893.76	9,835.67	19,334.04	32,265.19	117,020.97	195,287.88
40	1.688	6,186.24	10,441.89	20,099.55	33,926.48	121,752.71	205,509.10
41	1.703	6,497.08	11,065.81	21,027.98	35,814.80	126,680.58	215,762.05
42	1.720	7,133.80	12,272.86	21,811.60	37,524.29	131,789.21	226,727.82
43	1.736	7,580.16	13,156.56	22,935.42	39,808.04	137,096.03	237,951.76
44	1.751	8,030.76	14,061.32	23,132.67	40,503.75	142,609.98	249,700.50
45	1.764	8,630.92	15,227.52	23,753.53	41,908.32	148,323.80	261,687.50
46	1.774	9,226.48	16,366.35	24,705.66	43,824.03	154,253.68	273,622.25
47	1.780	9,779.44	17,403.24	25,913.90	46,115.71	160,399.39	285,442.60
48	1.783	10,556.03	18,825.55	27,426.00	48,911.33	166,774.21	297,423.95
49	1.781	11,479.46	20,450.47	28,861.44	51,416.18	173,388.87	308,889.41
50	1.778	12,513.46	22,244.74	30,469.84	54,165.16	180,265.38	320,451.40
51	1.768	13,773.10	24,352.46	32,154.82	56,853.50	187,415.64	331,372.89
52	1.751	14,531.34	25,443.40	32,921.92	57,644.07	194,848.01	341,165.79
53	1.730	15,239.24	26,362.81	33,252.09	57,523.77	202,573.04	350,437.04
54	1.703	16,135.07	27,481.21	34,064.95	58,019.34	210,599.70	358,692.89
55	1.669	16,822.51	28,073.88	35,648.55	59,491.30	218,937.93	365,369.76
56	1.613	17,321.82	27,947.98	36,952.94	59,621.91	227,596.57	367,216.84
57	1.558	18,426.51	28,710.01	38,651.41	60,222.07	236,580.85	368,612.37
58	1.501	19,334.04	29,016.52	40,405.48	60,640.53	245,901.05	369,048.20
59	1.440	20,099.55	28,937.29	41,334.97	59,509.89	255,574.74	367,950.53
60	1.360	21,027.98	28,587.60	40,711.61	55,347.55	265,638.02	361,135.67
61	1.264	21,811.60	27,570.57	41,843.71	52,891.80	276,117.71	349,021.69
62	1.215	22,935.42	27,876.07	43,517.83	52,892.25	287,020.89	348,849.67
63	1.169	23,132.67	27,034.43	45,435.49	53,099.04	298,355.68	348,678.99
64	1.124	23,753.53	26,692.32	47,489.90	53,365.35	310,129.69	348,498.95

Table 7.—Example: Developing Earnings for the Hypothetical High Earners Born in 1930, 1949, and 1997