NBER WORKING PAPER SERIES

PENSION WEALTH, AGE-WEALTH PROFILES, AND THE DISTRIBUTION OF NET WORTH

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Working Paper No. 2439

NATIONAL BUREAU OF ECONOMIC RESEARCH 1050 Massachusetts Avenue Cambridge, MA 02138 November 1987

This paper was presented at the NBER Conference on the Measurement of Saving, Investment, and Wealth, March 27-28, 1987, in Baltimore, Maryland. We gratefully acknowledge the receipt of the respondent portion of the SCF from Robert Avery of the Federal Reserve Board and the pension-provider portion of the SCF from the Survey Research Center, University of Michigan. We have benefited from helpful discussions concerning these data with Robert Avery, Olivia Mitchell, Richard Ippolito, Cordelia Reimers, Alan Gustman and Thomas Steinmeier. The research reported here is part of the NBER's research program in Labor Studies. Any opinions expressed are those of the authors and not those of the National Bureau of Economic Research.

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ABSTRACT

This study estimates the magnitude of pension wealth and compares pension wealth to net worth for households in the 1983 Survey of Consumer Finance (SCF). The SCF is the first data set to provide detailed information on both household finances and pension characteristics. The pension information is provided by the employer, so that it is much more detailed and likely to be more accurate than the pension data used in previous studies.

Pension wealth was estimated under two sets of assumptions. Under the projected earnings approach, mean pension wealth is \$98,291, which represents 43 percent of mean net worth for households with pensions. Under the legal method of calculating pension wealth, mean pension wealth is \$47,541, which represents 26 percent of mean net worth for households with pensions. Both estimates are much larger than those obtained in earlier studies.

The study also examines how estimates of inequality in the wealth distribution change when pension wealth is added to household balance sheets. Using a variety of methods and assumptions, the distribution becomes more equal when the definition of wealth is expanded to include pension assets.

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I. Introduction

The primary objective of this study is to develop improved estimates of pension wealth. This will help determine how large pension wealth is relative to other components of wealth and how consideration of pension wealth affects measures of the distribution of income and wealth. Data limitations have prevented a comprehensive investigation of the pension wealth relative to other components of household wealth. The 1983 Survey of Consumer Finance (SCF) provides a unique opportunity to examine this issue because it contains detailed information on household finances and both nonpension wealth, obtained from household interviews, and pension wealth which can be calculated from pension plan parameters, obtained from employers.

We present two sets of estimates reflecting different models of the pension contract. Under the implicit contract model of Ippolito (1985), mean pension wealth is approximately \$100,000 which represents 42.7 percent of mean net worth of households with pension coverage. Under the explicit contract model of Bulow (1982), the estimates of pension wealth are much lower; however, mean pension wealth is still approximately \$50,000. When pension wealth is incorporated into estimates of the distribution of total wealth, measured inequality is reduced.

II. What Is Pension Wealth?

A worker covered by a defined benefit pension plan exchanges labor services for current earnings and the promise of future income in the form of pension benefits. The value of future pension benefits depends on the nature of the labor contract, survival probabilities, market interest rates, and government regulations. Two methods of calculating pension wealth have been proposed. These are the legal method developed by Bulow and the projected earnings method outlined in Ippolito. This section defines pension wealth and examines the life cycle pattern of pension wealth implied by pension coverage when wealth is calculated using these methods. The final part of this section describes pension wealth for workers covered by defined contribution plans, where there is less ambiguity about the nature of the pension contract.

Legal Method of Calculating Pension Wealth: Defined Benefit Plans

Under the legal method of determining pension wealth, the employment contract is assumed to be valid for a single period. Of course, the contract may be renewed but the worker acts as if he will be terminated at the end of each period. Therefore, he is willing to pay for only those pension benefits that the firm is legally required to pay if the worker leaves the firm at the end of the current period.

For any specific worker, pension wealth is calculated by finding the annual benefit that a worker would receive if he left the firm today. This benefit depends on the plan benefit formula, the extent to which the worker is vested in the plan, and for most plans, the worker's current years of service and earnings history. Despite leaving the firm, the worker must wait until he has reached the retirement age specified in the plan to actually receive any benefits. Once started, benefits usually continue for the remainder of the worker's life. Thus, the wealth value of these benefits is found by determining the expected discounted value of a life annuity beginning at the retirement age. Pension wealth is illiquid in the sense that it cannot be sold in total or in part, but individuals may be able to borrow against this asset.

Even in this strict legal interpretation of the pension contract, there is some uncertainty as to whether the worker will receive the full value of his pension wealth. The worker could die prior to reaching the retirement age and receive no pension benefits. If married, the worker's surviving spouse may be eligible for survivorship benefits based on the vested benefits of the worker. The firm could terminate the plan due to financial difficulties. The federally established insurance system, the Pension Benefit Guaranty Corporation, does not fully guarantee vested benefits. Finally, the real value of these future benefits depends on the rate of inflation and any post-retirement increases in benefits. Despite these risks associated with the determination of legal pension wealth, we believe that pension wealth calculated in this manner should be a useful, approximate lower bound estimate of true pension wealth.

Coverage by a pension plan produces a predictable pattern of pension wealth accumulation over the life of an individual. The magnitude of pension wealth depends on plan generosity and worker characteristics and therefore will vary across workers. Using the legal method, pension wealth is very low during the early working years because workers have lower earnings, little credited service, and must wait many years to receive benefits. However, pension wealth rises rapidly as long as the worker remains with the firm. The growth in pension wealth is due to increased years of service, higher earnings, and a reduction in the number of years until retirement. Each of these factors accelerates the growth rate of pension wealth over time and as a result the rate of growth of pension wealth will exceed the rate of growth of earnings as job tenure increases. This continues until the worker reaches the age of eligibility for retirement benefits.

If the worker remains on the job past the normal retirement age, his pension wealth in most plans will decline with continued work and the rate of decline will accelerate with advancing age (Clark and McDermed 1986; Kotlikoff and Wise 1985). This results from the fact that most firms do not provide an actuarial increase in benefits with postponed retirement. In addition, approximately half of all pension participants are in plans which cease to credit wage and service accruals after the normal retirement age. Thus, the annual benefit may be frozen at the normal retirement age and with continued employment, the worker will have fewer years to receive benefits producing the decline in pension wealth.

We have constructed a simulation model to illustrate this life cycle pattern of wealth accumulation for a worker covered by a pension plan. The worker is assumed to have been hired at age 25 with total compensation equaling \$20,000. Total compensation, which is divided into earnings and pension compensation, grows at a rate of 5.5 percent per year. This is based on an assumed real rate of growth of 1.5 percent per year and an inflation of 4 percent per year. Pension compensation, the growth in pension wealth associated with the employment contract, is the change in pension wealth with additional service and higher earnings. It does not include the change in pension wealth associated with aging which is independent of the employment contract.

The normal retirement age is 65 and the plan offers no early retirement benefits. There are no post-retirement adjustments in benefits and the plan has immediate and full vesting. The plan continues to fully credit increases

in earnings and service as long as the worker remains with the firm. The benefit is determined by multiplying .015 times years of service times average earnings in the last five years. The market interest rate is 6 percent and workers are assumed to face mortality probabilities as shown in the 1981 U.S. Life Table for white men.

The results of the simulations are shown in Table 1. Starting with zero pension wealth at age 25, the worker's wealth rises slowly at first and reaches \$13,945 at age 40. At this age, pension wealth represents about one third of annual earnings. Between the ages of 40 and 65, pension wealth grows by over 100 percent per 5 years of work. The rate of growth of pension wealth declines slightly with age during this time. At age 65, pension wealth totals \$613,518 or 3.7 times annual earnings. Deflating this value to age 25 dollars indicates a real pension wealth at age 65 of \$128,000. In this example, increases in earnings and service continue to raise pension wealth after age 65 but at a rate slower than prior to the worker reaching the age of eligibility for full pension benefits.

Several additional points need to be emphasized concerning the life cycle pattern of pension wealth. First, a vested worker leaving a firm does not lose any of his accumulated pension wealth. However, if earnings do not rise with the job change, the worker will accumulate less additional pension wealth with the new employer than if he had remained on his initial job. Even if the worker has the same earnings and both employers have the same pension plan, wealth accumulation will be slower for the job changer because years of service at the previous job will not be credited in the pension at the new job. Second, after the worker retires, pension wealth falls systematically with

advancing age due to declines in life expectancy. Unanticipated increases in the rate of inflation will also lower the pension wealth of retirees.

Projected Earnings Method of Determining Pension Wealth: Defined Benefit Plans

An alternative method of calculating pension wealth assumes that the worker and the firm enter into a long-term, implicit contract. The worker promises to remain with the firm until retirement and to perform at the agreed level of effort. The firm promises to continue to employ the worker as long as he fulfills the terms of the contract. To enforce the contract, a firm requires that workers pay for a pension value that is conditional on their remaining with the firm. The "stay pension" exceeds the pension to which workers are legally entitled which we will call the "leave pension." Firm reputation in the labor market is assumed to be sufficient to keep the firm from reneging on its obligations.

In this model of the labor contract, workers are paid total compensation equal to their value of marginal product in each period. Compensation consists of earnings and pension compensation. The difference between this model and the legal method is that pension compensation is based on pension wealth that is conditional on the worker remaining with the firm until retirement. In each period, pension wealth is based on the plan benefit formula, current years of service and projected earnings in the final working years just prior to retirement.

Since projected future earnings are typically greater than current earnings, the "stay pension" wealth based on projected earnings will exceed the "leave pension" wealth which is the value derived using the legal method. Under an implicit contract, workers pay for the stay pension but if they quit their job or are laid off they receive only the leave pension. This difference represents a capital loss in pension wealth associated with termination of employment. Thus, pension wealth based on the projected earnings method entails an additional form of risk for the worker, that is the risk of job termination. This estimate of pension wealth should be an upper bound estimate of the worker's true pension wealth.

Pension wealth based on the projected earnings method of calculation also follows a predictable life cycle pattern. As long as the worker remains with a single firm, wealth rises until the age of eligibility for benefits. Compared to pension wealth based on the legal method, wealth is higher early in the worklife because it is based on projected final earnings rather than actual earnings, but rises more slowly with job tenure, because projected final earnings do not change over time. Pension compensation drops sharply at the normal retirement age and may become negative if the worker remains with the firm. The decline after the normal retirement age is due to the ending of the implicit, long-term contract. The worker may remain with the firm after this date but is assumed to be covered by an explicit, year-by-year contract. This results in benefits and pension compensation based on the legal method and actual earnings received after the termination of the implicit contract.

If the worker leaves a job, his pension wealth drops sharply from the stay pension to the leave pension. The magnitude of this capital loss rises during the initial working years, peaks in the late 40s or early 50s, and then declines. Of course, at the normal retirement age there is no loss from leaving because the worker has completed the terms of the contract.

A simulation example can be used to illustrate the life cycle pattern of wealth accumulation using the projected earnings method. Using the same

pension and worker characteristics as described above, pension wealth at various ages is shown in Table 2. After completing one year of work, pension wealth is \$2,822. This value rises with additional years of work and the rate of increase rises slightly with job tenure. Pension wealth is more than one year of earnings by age 40 when wealth is \$51,752. Pension wealth grows by about 70 percent per five years of employment growing to \$690,677 at age 65. Even though the two simulations assume that the worker has the same total compensation in each year, pension wealth at age 65 differs slightly. This result is from the small difference in annual earnings between the ages of 60 and 64. Annual earnings are endogenously determined by the algorithm and differ throughout the worklife.

Also shown in Table 2 is the capital loss associated with leaving the job. This loss in pension wealth rises from \$21,346 at age 35 to \$105,082 at age 55. The loss in pension wealth associated with job termination declines to zero at age 65. A series of simulations illustrating the potential capital loss over the worklife for various industry, occupation, and plans size groups are shown in Allen, Clark and McDermed (1986).

Pension Wealth in Defined Contribution Plans

Pension wealth for workers covered by a defined contribution plan is equal to the value of the funds in their account. Each pay period, a firm using a defined contribution plan contributes a specified sum into a pension account for its workers. Employer contributions may be augmented by contributions by the employee. The funds are invested and increase over time with additional contributions and the compounding of rate of return on the funds. Future benefits are determined entirely by the magnitude of the pension fund at

retirement. The firm's liability ends each period with the contribution. Thus, pension wealth at each age is equal to the value of the pension fund. Calculation of current pension wealth does not require any projection of future earnings or rates of inflation. This value is not affected by potential job changes. As such, the wealth of the worker is not subject to risks concerning job change but the worker does bear all rate of return risks.

III. What Is Pension Saving?

Pension saving is the change in pension wealth from one year to the next. It includes pension compensation as well as the change in pension wealth resulting from aging. The two methods of calculating pension wealth predict somewhat different patterns of savings. Using the legal method, the dollar value of pension saving rises rapidly with increased job tenure. In addition, prior to the normal retirement age, the ratio of pension saving to total compensation also rises rapidly. Table 1 shows that in our simulation example, pension savings rise from \$1,045 at age 35 to \$81,030 at age 65. Using the projected earnings method, the dollar value of pension saving and the ratio of pension saving to total compensation increases with job tenure but at a slower rate than that implied by the legal method. For example, pension saving at age 35 is \$3,435 and rises to \$67,183 at age 65 (results are not shown in Table 2).

IV. Which Method Should Be Used to Measure Pension Wealth?

Both the legal and the projected earnings method have been proposed as the appropriate procedure for estimating pension wealth. Which method best captures the nature of the pension contract? Because they yield different predictions concerning labor market behavior, the competing hypotheses can be tested. Primarily these different predictions concern the rate of growth of earnings and the propensity of workers covered by pensions to quit. The predictions of the projected earnings method seem to conform to the reality of observed labor market influences of pensions.

Under the projected earnings method, workers stand to lose pension wealth if they leave their current employer, which is consistent with the lower quit rates observed for workers covered by pensions (Mitchell 1982; Allen, Clark, and McDermed 1986; Ippolito 1987). The legal method predicts the growth rate of earnings for workers covered by pensions should be lower than that for other workers, whereas the projected earnings method predicts that pension coverage has no effect on the growth of earnings. The evidence (Ippolito 1985; Clark and McDermed 1987) is consistent with the latter interpretation. Another implication of the legal method is that there should be large decreases in earnings when workers become vested or become eligible for early retirement (Kotlikoff and Wise 1985). There is no evidence of such earnings behavior. In addition, many firms provide ad hoc post-retirement benefit increases that can be justified only in terms of an implicit labor contract (Allen, Clark, and Sumner, 1986).

Despite this tentative conclusion that the available evidence tends to support the implicit contracting theory of pension, we have calculated pension wealth using both of the methods described in this paper. The legal method provides an approximate lower bound estimate of pension wealth and the projected earnings method provides an upper bound. By comparing the range of these estimates, we should have a reasonable estimate of the true magnitude of pension wealth.

V. Household Wealth and the SCF

The 1983 SCF is the latest in a series of surveys sponsored by the Federal Reserve Board to measure the wealth holdings of households in the United States. The survey contains comprehensive data on the assets and liabilities of a representative sample of U.S. households. Additional personal and employment characteristics are included in the survey (Avery, et.al., 1984a,b). These data are sufficient to construct employment histories for most respondents and their spouses. The actual data tape used in this study is an early copy provided by the Federal Reserve Board. In addition to the household responses to the SCF, this tape also contains a series of variables constructed by the researchers at the Fed. Our analysis relies on their estimate of nonpension net wealth as well as their imputations for missing responses.

The SCF consists of two samples: a representative cross section sample consisting of 3665 usable households and a special high income sample containing 438 households. In this paper, we report results based on the combined samples and employ weights provided by the Fed that convert the combined sample to a representation of the U.S. household population as measured by the 1980 census.

The 1983 SCF sought to gather sufficient data to allow analysts to construct the first accurate measures of pension wealth. To this end, there are numerous questions on the survey pertaining to the type and level of pension benefits. Respondents were asked whether they were covered by a pension, and if so, whether it was a defined benefit or defined contribution plan. They were asked the expected future value of benefits from a defined benefit plan and the date when they expected to begin receiving them. For defined contribution plans, they were asked the current value of their account. Respondents were asked about other types of thrift and profit sharing plans. They were also asked about any pensions on past jobs from which they expected to receive a benefit. People currently receiving pension benefits were asked the annual value of their benefit. From these questions alone, a measure of pension wealth can be constructed. This approach has been used to estimate pension wealth from the Retirement History Study by Quinn (1985) and from the President's Commission on Pension Policy by Cartwright and Friedland (1985).

The distinctive feature of the SCF, however, is that data were also gathered from the pension plan sponsor concerning the plan characteristics. These data were separately coded onto a pension-provider tape, which we received from the Survey Research Center of the University of Michigan in conjunction with a Department of Labor contract. These data consist of detailed plan characteristics on the normal benefit formulas and how they apply to various types of workers. Formulas for deferred vested participants, maximum benefits, and social security offsets were also included.

To determine the value of pension benefits on respondents' and spouses' present jobs, we used these specific benefit formulas in conjunction with required respondent characteristics. The methodology used to calculate pension

benefits and pension wealth is described below. This methodology is used only for persons covered by a defined benefit plan on their current jobs. The treatment of defined contribution plans on current jobs and the value of benefits on past jobs is described in a separate section.

Calculation of Pension Benefits from Defined Benefit Plans on Current Jobs

The calculation of pension benefits for defined benefit plans from the pension-provider data required that the benefit formulas as coded in the data be converted to computational algorithms. Most plans had several normal retirement and deferred vesting formulas that applied to different types of workers or applied to different periods of employment. These formulas were often linear combinations and frequently required one to assess relative values from alternative combinations of formulas. Eight of the plans had formulas that were integrated with formulas from other plans. These plans were eliminated from the analysis.

The next step was to apply the algorithms to particular individuals. Work and salary histories were constructed from the household data. The value of years of service used in the algorithms was determined from current job tenure as reported by respondents. Salary histories and earnings projections were based on two alternative assumptions about real earnings growth: a constant 5.5 percent annual growth rate, reflecting 1.5 percent economy-wide real wage growth and 4 percent inflation (CGE) and the Fed's estimate of expected annual occupation specific real wage growth controlled for industry, age, race, and sex (FGE). The Fed's estimate also assumes that earnings grow 5.5 percent per year in addition to the occupation specific component. Specifically each person was assigned age-related earnings growth rates for ages less than 35, 35 to 54 and 55 and over. These rates vary across the sample by race, sex, industry, and occupation. Fed estimates of these occupation specific rates were not available for the high income sample.

Legal pension wealth based on an explicit labor contract is calculated from benefits the worker would receive if the worker left the firm today. Workers who are vested and leave a job are legally entitled to receive a benefit based on the deferred vested benefit formulas rather than the normal benefit formulas. Thus, all benefits using the legal method of determining pension wealth are based on the deferred vested benefit data and assume that the person begins benefits at the worker's expected retirement age. Vesting status was determined from worker characteristics provided in the respondent data and vesting requirements reported in the pension provider data. For salary based formulas, earnings histories of the appropriate length were constructed for each of the assumptions described above. Service years were current job tenure in 1983. Workers who were not currently vested were assumed to have zero legal pension wealth.

For the projected earnings method, workers were assumed to remain with their current employers until their expected retirement ages as given in the respondent interviews. Therefore, projected earnings wealth was based on the normal retirement formulas provided by the firm. If the worker was not eligible for normal benefits at the reported retirement age, then the worker was assumed to retire at the earliest age of eligibility for normal benefits. Benefits in this method were based on earnings projected to retirement and current years of service. Projected earnings wealth was calculated under each of the two assumptions about earnings growth.

Each plan was checked to see if it had a maximum benefit formula or was integrated with social security. If the plan had a maximum benefit, then the benefit as calculated was restricted to this maximum. Social security integration is done either by excess formulas that pay a higher fraction of earnings above the social security wage base than for earnings below it or by reducing the pension benefit by some fraction of the social security benefit.

For the excess method, we projected the social security maximum taxable earnings to grow at 5.5 percent per year (this is the assumption used in the intermediate projections of the Social Security Administration). We then calculated the average wage base that firms can legally use in conjunction with the excess method. The plan formula indicates whether this level or some other level will be used. We assumed that the excess formula will not be revised during the respondent's worklife.

The offset plans required us to calculate the social security benefit that the worker expects to receive at retirement. Social security reductions were based on projected social security benefits at the expected retirement age. We assumed that the current social security offsets in the pension benefit formulas would apply when the worker retired. Using the two growth assumptions, earnings were projected to rise from their current level until retirement. This work history was then used to calculate the worker's social security primary insurance amount (PIA).

We assumed that the social security benefit formula would not be revised but as in 1983 the bend points of the formula would rise with the rate of growth of taxable earnings. Earnings prior to age 60 were indexed by the maximum taxable earnings at age 62 while earnings after age 62 were indexed by the rate of growth of prices. The social security benefit calculated by this method was

then introduced into the benefit formula. In most plans, the offset is some fraction of the social security benefit that varies with earnings or years of service subject to a maximum offset. In this analysis, we have ignored the future changes in social security that were adopted in 1983.

<u>Calculation of Pension Benefits for Defined Contribution Plans</u> <u>and for Past Jobs</u>

In defined contribution plans, the firm and/or the employee contribute a specified amount each pay period into an employee account. Benefits at retirement are based on the amount of funds in the account. At any point in time, pension wealth is the value of the employee's account. While there are data on the pension-provider tape for defined contribution plans, this information is less useful in determining future pension benefits. We could have used these data along with assumptions concerning past contribution rates, rates of growth of earnings, and rates of return to the pension fund to estimate the current value of the pension account.

Instead, we relied on answers to questions on the respondent tape concerning the current value of the pension account. It is likely that most of the people covered by defined contribution plans receive some type of annual statement concerning the current value of their pension account. The estimate of this form of pension wealth requires only this knowledge; it specifically does not require the respondent to forecast future rates of growth in wages and prices nor does it necessitate any evaluation of the prospects of leaving the firm. Therefore, we take the respondent's own evaluation of current pension wealth as the best estimate of its true value. All missing values concerning the funds in the defined contribution accounts were imputed by researchers at the Fed. Since we are interested in pension wealth, we did not convert the value of the pension account into any implied future benefit.

Many respondents and their spouses expect to receive benefits from pensions on previous jobs. For the most part, the pension-provider tape does not contain information on the plan characteristics of pensions on past jobs. However, individuals were asked about the pension benefits they expected to receive from past jobs. We assumed that the respondents gave the value of benefits that they expected to receive at retirement. For past jobs, this may be a reasonably accurate estimate. Having already left the job, the nominal benefit at retirement will not be affected by any further work nor will it be influenced by future earnings or inflation. Departing workers may also have been told the benefit to expect in their exit interviews with the firm. If respondents answered that they were covered by a pension on their current job but do not know either coverage or expected benefits from past jobs, we assigned them their pension wealth from their current job alone.

Missing Values for Pension Benefits

Some respondents reported that either they or their spouse were covered by a pension on their current job but there are no data for these plans on the pension-provider tape. For these workers, we imputed the value of their pension benefit. A pension benefit equation was estimated for persons covered by a pension on their present job and for whom we had calculated a benefit using the procedure described above. The results from four regression equations are shown in Table 3. The equations are for two benefits using the legal method and two benefits using the projected earnings method. The benefits for each method are based on our two assumptions concerning the rate of growth of earnings. The FGE benefit equations are estimated using respondents only from the cross-section sample since salary projections were not made by the Fed for the high income sample.

These benefit equations are interesting in their own right. To our knowledge they are the first estimates of pension benefits based on a large sample of data combining actual worker and plan characteristics. Explanatory variables include a series of industry and occupational dichotomous variables along with age, job tenure and salary. The relatively few statistically significant differences among the industry and occupational coefficients is somewhat surprising; however, it should be remembered that we controlled for salary and tenure differences.

When benefits are estimated using a constant 5.5 percent per year growth in earnings(CGE), the elasticity of benefits with respect to job tenure is slightly less than one while the elasticity of benefits with respect to salary is slightly greater than one. These values hold for both the legal and projected methods of calculating benefits. The relative values of these two elasticities is reversed in the equations that are based on the Fed's earnings growth assumptions; however, all eight of the estimates for these two variables are relatively close to one. Only the parameter estimate for salary in the legal CGE equation and the parameter estimate for tenure in the projected earnings CGE equation are statistically significantly different from one at the .05 level of significance.

If the benefit formula were a simple multiplicative, earnings-based formula, then both the tenure and salary elasticities should be one. The existence of social security offsets tend to make benefits rise by more than a proportionate in response to salary increases while maximum benefits would tend to make the

tenure and salary elasticities less than one. The negative age elasticities in the equations for projected benefits follow from the construction of the benefit. Holding salary and tenure constant, the projected benefit will be lower for older workers as long as the growth rate of earnings is positive.

Benefits from defined benefit pensions on the current job for persons with missing values were imputed from these regression equations and the individual and firm characteristics. Persons with missing data concerning the value of benefits from past jobs are given the mean value of this type of pension benefit for similar types of workers.

Summary of Pension Benefit Data

There are 2,304 households in the sample who are covered by a pension on a current or past job. This represents 56.2 percent of the unweighted households and 54.8 of the weighted households. Of these households, 1,592 have at least one family member that is a participant in a defined benefit plan on their current job. We were able to derive pension benefits using the plan specific data for 889 of these households. Therefore, we imputed pension benefits for 703 households. Pension-provider data were not available for these households because the interviewers were unable to locate the firm, there were no summary plan descriptions available, or for some other reason the firm interview was not completed.

Pension wealth from defined contribution plans was determined for 236 households and pension wealth from past jobs was derived for 740 households. A household could, of course, have wealth from one or more of these sources. Persons with thrift plans or profit sharing plans are not included in these

counts; however, the value in these accounts as given by the respondents is included in pension wealth.

Calculation of Pension Wealth

For defined benefit plans, we converted the value of the pension benefit into a wealth value calculating the value of a life annuity beginning at the age of expected retirement as indicated by the respondent. Benefits were assumed to remain fixed in nominal terms and the interest (or discount) rate was set at 6 percent. The 1981 mortality rates by race and sex were used to determine survival probabilities. Pensions were assumed to have no death benefits. As noted above, respondents with defined contribution plans were assumed to have reported accurately their pension wealth. Pension wealth is the sum of all defined contribution and defined benefit values from current and past jobs as well as withdrawable amounts in thrift-type accounts.

Calculation of Pension Savings

Pension savings is calculated only for persons who are currently working on a job and are participating in a defined benefit pension plan. For these workers, pension savings was calculated by estimating current pension wealth as described above and subtracting this value from pension wealth one year later. Pension wealth in the succeeding year was calculated by increasing job tenure by one year and increasing the salary average based on the two estimates of earnings growth. This method combines the gain in wealth attributable to an additional year of work (pension compensation) and the gain in wealth due to surviving an extra year and being closer to retirement age. We have not calculated similar values for persons covered by defined contribution plans. For these workers, savings equal new contributions and the return to the pension fund. Neither have we calculated savings for persons with pensions on past jobs. Savings from a pension on past job is solely attributable to surviving an extra year and being closer to the retirement age.

VI. Wealth, Pension Wealth, and Age

Since the early development of life cycle saving theory, economists have predicted that household wealth will tend to be relatively low early in life, rise during the middle years, and then decline during the final years of life. Evidence on the life cycle accumulation of wealth has typically been from cross section data and focused exclusively on nonpension wealth. In this section, we present a comprehensive assessment of pension wealth along with nonpension wealth using data from the 1983 SCF. It is important to remember that these data represent wealth at a particular point in time for different cohorts of households and are not a true measure of the effect of aging for a single cohort.

Nonpension Wealth

Our measure of nonpension wealth is a variable that was created by researchers at the Fed. It represents the net value of all paper and other financial assets, equity in the respondent's home and other property, the net value of vehicles and boats, and net worth of any businesses or farms. This measure is compiled by examining the response to numerous questions concerning family assets and liabilities and is intended to represent the standard concept of net household wealth. Estimates of nonpension net wealth are shown in Table 4 for all households in the SCF along with separate estimates for households with pension wealth and those without pension wealth. For all three samples, mean nonpension wealth is less than \$10,300 for households with respondents under the age of 25. It rises to \$30,000 and above for households aged 25 to 34. Nonpension wealth then more than doubles across each of the next two ten year age groups. This form of wealth continues to increase slightly across the next two groups before declining sharply for the oldest age group. For all age groups except those aged 45 to 54, these estimates are between 50 and 78 percent higher than estimates of net worth presented by Avery, et. al. (1984b). These earlier values excluded the value of consumer durables such as automobiles and home furnishings, the cash value of life insurance, and equity in small businesses and farms.

Studies by Munnell (1974, 1976) and Feldstein (1974, 1982) initiated a debate on the impact of social security and private pensions on the magnitude of private savings. A number of studies followed these early papers and to date this literature has produced no clear picture concerning the elasticity of private savings with respect to pension savings. The data that we have constructed from the SCF will provide a useful new source for testing these hypotheses. As of yet, we have not attempted to estimate savings response to pension coverage and pension savings. The data in Table 4 indicate that the mean nonpension wealth of persons with pension wealth is not lower than that of persons with no such wealth. In fact, nonpension wealth is considerably higher for households with pension wealth than for those without pension wealth for all ages over 55; however, the Z statistic indicates nonpension wealth for

households covered by a pension is not statistically different for any of the age groups from the wealth of those not covered by a pension.

Pension Wealth and Total Net Wealth: Legal Method

Estimates of legal pension wealth using the two earnings growth assumptions are presented in Table 5. At all ages, the two estimates are very similar. Holding constant the interest rate, it seems reasonable to conclude that legal pension wealth is relatively insensitive to the earnings growth rate assumption within a fairly wide range of growth rates. This is due to two effects. First, some pension wealth is from past jobs or defined contribution plans and therefore our earnings assumption does not enter into the calculation of pension wealth. Second, most plans use relatively few years of earnings to determine the salary average in the benefit calculation. Thus the earnings histories based on the different growth assumptions are not very different.

As expected, legal pension wealth is quite small early in life, rises rapidly during the working years, and declines with advancing age. For workers less than 25, mean pension wealth is approximately \$2,000. Wealth triples across each of the next two ten year age groups to stand at over \$60,000 for the cohort aged 45 to 54. Pension wealth then almost doubles for the next cohort so that wealth is over \$115,000 for the cohort aged 55 to 64. After 65, pension wealth declines sharply.

Net worth is the sum of nonpension and pension wealth for each household and the mean values are shown in the last 5 columns of Table 5. The middle of these columns represents net worth for households without pensions. For these families, total net worth is identical to nonpension wealth. Net worth is also presented for all households and for households with some pension wealth. Net worth for households with some pension wealth exceeds the net wealth of the no pension households at all ages. Between the ages of 55 and 74, wealth of the pension households is almost twice that of the nonpension households.

Pension Wealth and Net Worth: Projected Earnings Method

Pension wealth under the projected earnings method is shown in Table 6. The CGE pension wealth is over \$14,000 for households with heads less than age 25 using the projected earnings method compared to only \$1,900 with the legal method. Instead of tripling across the first two age groups, the projected pension wealth only doubles. Slower growth is also observed across the middle working years. Wealth for the oldest age groups are virtually identical for the two methods. This follows from the fact that most of these households are currently receiving benefits and are not still working.

There are greater differences between the CGE and the FGE estimates under the implicit contracting model than were observed with legal pension wealth. This follows from the longer forward projection of earnings in the implicit contract model as compared to the relatively short backward projections done in conjunction with the legal method. These differences vary between 22 percent and 28 percent for households under the age of 45 but are less than 4 percent for households aged 55 to 64. Since most people are retired after the age of 65, the wealth estimates for these two assumptions are approximately equal at these older ages.

Since pension wealth is higher using the projected earnings method, net worth is also higher with this method compared to the legal method. The CGE wealth for all households rises from \$10,000 for households under the age of 25 to approximately \$120,000 for those aged 35 to 44. Net worth peaks for households aged 55 to 64 at about \$358,000 and then declines for the older households. The implicit contract method of evaluating pension wealth results in much higher net worth for persons with pension wealth at all ages compared to households with no pension wealth.

Pension Wealth as a Percentage of Total Wealth

The data presented in Tables 4 to 6 illustrate that pension wealth is relatively small early in life and grows until the retirement years. This pattern of wealth accumulation is similar to that for nonpension wealth. Table 7 shows the mean value for pension wealth as a percentage of mean total wealth by the age of the household head. The first part of the table shows that for all households less than 25, legal pension wealth is about 8 percent of total wealth as compared to over 34 percent for the projected earnings method. Legal pension wealth as a percent of total wealth rises with age until the 55 to 64 age group when pension wealth represents 27 percent of total wealth. For the projected earnings method pension wealth varies between 22 and 35 percent of total net worth for all ages prior to 55 and increases to over 44 percent of total net worth for the 55 to 64 group.

Looking only at households with pensions, pension wealth is, of course, a larger proportion of total net worth. In these households, the fraction of wealth that is due to pension wealth is about 16 percent for the youngest households for the legal method. This ratio rises with household age until the 55 to 64 age group when the proportion of wealth due to pensions reaches approximately 37 percent. The fraction of total net worth due to pension wealth using the projected earnings method is more variable. The ratio drops

from 59 percent for the youngest households to 54 percent for households aged 45 to 54 before rising slightly for those aged 55 to 64.

Pension Savings. These data also permitted us to calculate pension savings or the change in pension wealth. This was done only for persons who were currently working and covered by a defined benefit plan. Pension savings was calculated by finding the change in pension wealth from last year to this year. These values are reported in Table 8 for both the earnings growth assumptions and both the legal and projected earnings methods of evaluating pension wealth. Legal pension savings are very low at the youngest ages and rise steeply until retirement. Savings under the implicit contract model are larger at all ages but they increase at a slower rate across the age groups.

In summary, both of these methods of calculating pension wealth clearly indicate that pension wealth is an important component of total wealth. Ignoring pension wealth substantially understates total wealth and also will yield incorrect inferences concerning the distribution of wealth. This latter point is examined in the next section.

VII. Distribution of Wealth

The preceding sections have described the magnitude of pension wealth by age of the head of household. This analysis indicated that pension wealth is a major component of the net worth of households with slightly over half of the households having some pension coverage. The effect of including pension wealth in an analysis of the distribution of household wealth is an unresolved question. Tables 9-17 present income distribution data for nonpension wealth, pension wealth and net worth. These tables show the wealth value at various

percentile rankings for each distribution by age of the head of household. For example, the 0 percentile represents the minimum value in the wealth distribution, the 50th percentile is median wealth, and the 100th percentile is the maximum wealth value. We present distributions for both the legal and projected earning methods of calculating pension wealth, using the CGE assumptions.

Table 9 shows the nonpension wealth for all households by age groups. These data indicate that the median nonpension wealth in the U.S. in 1983 was \$38,300. The values at the various percentiles illustrate the same age-wealth pattern as observed for the mean wealth values in Table 4.

Tables 10 and 11 show the nonpension wealth distribution for households with and without pension coverage. These data along with the mean values shown in Table 4 indicate that median households with pension coverage have more nonpension wealth than median households with no pension coverage. Median nonpension wealth for all households with pension coverage is \$51,600 but is only \$18,000 for households without pension coverage. The wealth distribution of households with pensions is more compact as indicated by the range of the distributions. Households with pensions have higher minimum values and lower maximum values of wealth than households without pensions. On balance, households with pension coverage have greater nonpension wealth and this wealth seems to be more equally distributed than the wealth of households without pension coverage.

Tables 12 and 13 show the distribution of pension wealth for households with pension coverage as estimated using the CGE assumptions. Using the legal method, household pension wealth is zero for unvested workers on current jobs and without pension wealth from other jobs. Over ten percent of all households and 25 percent of the younger households are in this category. Using the projected earnings method, pension wealth is zero only during the first year of employment. Therefore, only a small proportion of households will have no pension wealth under this criterion.

Median legal pension wealth for all households with pension coverage is \$17,700 and the wealth at the 95th percentile is \$383,200. This compares to a median projected earnings pension wealth of \$30,600 and a value of \$486,200 at the 95th percentile. These numbers indicate that approximately 42 percent of the pension wealth of a household at the middle of the wealth distribution is contingent on continued employment at the present job. The wealth loss associated with job termination is \$12,900 out of the \$30,600 in pension wealth shown by the projected earnings method.

Tables 14 and 15 give the distribution of total net worth for households using the legal and projected earnings methods of determining pension wealth. Adding legal pension wealth to other wealth raises the median net worth for all families from \$38,300 (Table 9) to \$49,800 (Table 14). Using the projected earnings method, median net worth increases to \$57,900. Including pension wealth in the analysis primarily raises the wealth of households between the 25th and 95th percentiles of the nonpension wealth distribution. For the most part, very poor and very rich households have relatively little pension wealth.

Tables 16 and 17 show the net worth distribution for households with pension coverage. These data can be compared to the distribution in Table 10 to assess the effect of pension wealth on the wealth distribution of only those households with pension coverage. Median wealth for these households is raised from \$51,600 ignoring pension wealth to \$84,500 using the legal method and \$99,200 with the projected earnings method. The effect of including pension wealth has similar effects on the distribution of wealth by age as described above for all households.

These preceding analyses clearly indicates the importance of pension wealth as a component of net worth. Tables 9-17 show the increased wealth at various percentiles of the wealth distribution. These numbers seem to indicate that most pension wealth accrues to wealth holders between the 25th and the 95th percentile. If true, the inclusion of pension wealth in an examination of the distribution of net worth should decrease the degree of inequality in the wealth distribution.

Table 18 shows this effect by reporting the proportion of nonpension wealth and net worth that is held by the top 5 percent and the top 1 percent of the wealth distribution. The top 5 percent of all households own 57.9 percent of nonpension wealth but only 52.5 percent of net worth when pensions are evaluated using the legal method and 55.0 percent of net worth using the projected earning method. Similar declines in the relative holdings of the wealthiest 5 percent of households occur for each age group shown in the table.

Using the legal method, the relative wealth of the top 1 percent drops from 35.5 percent of wealth excluding pensions to 31.1 percent of net worth when pension wealth is included in the analysis. By contrast, when pension wealth is evaluated using the projected earnings method, the inclusion of pension wealth actually increases the proportion of total wealth held by the wealthiest 1 percent of households.

The overall impact of including pensions in the wealth distribution is shown in Table 18 and Figures 1 and 2. The Lorenz curves are constructed by plotting

the cumulative wealth holdings of the population. We restrict the values of the curve to be equal to or greater than zero. Thus, the Lorenz curve coincides with the axis until cumulative positive wealth is greater than the total negative wealth of the poorest households. This procedure maintains the traditional restriction on the Gini coefficient to range between zero and one.

The Gini coefficient for nonpension wealth for all households is 0.806. Including legal pension wealth lowers this value to 0.777 while the Gini coefficient for net worth including projected pension wealth is 0.783. These data confirm that including pension wealth tends to reduce measured inequality in the wealth distribution. This result is shown in the graphs of the Lorenz Curves in Figures 1 and 2. In both figures, including pension wealth shifts the curve in toward the line of equity. Allowing the Lorenz curve to fall below the horizontal axis to reflect negative net worth raises the Gini coefficients but does not alter the conclusion that pension wealth reduces measured inequality.

VIII. Conclusions and Comparison to Earlier Studies

This paper has provided a detailed examination of the value of pension benefits. Two methods of calculating pension wealth were described and shown to bound the true value of pension wealth. Each method was applied to data from the 1983 SCF to derived pension wealth for the U.S. population. For all households with pension coverage, mean pension wealth under the projected earnings method was \$98,291 and represented 43 percent of total net worth. At the median of the distribution, pensions represent 31 percent of net worth. Using the legal method of calculating pension wealth lowers these values so

that mean pension wealth represents 26 percent of mean net worth while median pension wealth is 21 percent of median net worth.

There are very few studies against which these findings can be compared. The results of two such studies are reviewed below. Quinn (1985) estimated the combined pension and social security wealth for households in the Retirement History Survey (RHS) in 1973 and compared this to their total wealth. He assumed no post-retirement adjustments and estimated pension and social security wealth under interest rate assumptions of 2, 5 and 10 percent. The results at the 5 percent assumption are most comparable to those reported in this study. His sample is limited to households where the age of the head is between 62 and 67. The RHS reports the expected pension benefit for each person covered by a pension. Quinn's estimate of pension wealth is the present value of this benefit starting at the earliest age of eligibility, adjusted for survival probabilities. Quinn's estimates are increased by 124 percent (the change in the CPI and the return on 3-month Treasury bills) to make them comparable to our 1983 data.

Quinn found that median wealth without social security and pensions was \$61,869 for married men in 1973, \$21,056 for nonmarried men, and \$12,790 for nonmarried women. At the 5 percent interest rate assumption, median wealth with social security and pensions was \$238,762 for married men, \$141,277 for nonmarried men, and \$76,653 for nonmarried women. The proportion of this wealth in pension rights was roughly 12.9 percent for married men, 11.9 percent for nonmarried men, and 13.4 percent for nonmarried women (calculated from midpoints of the intervals in Table 3 of Quinn (1985)). Thus, pension wealth averaged \$30,800 for married men, 16,811 for nonmarried men, and \$10,286 for nonmarried women.

Mean nonpension wealth is considerably larger for the most comparable group in the SCF -- \$196,492 for the 55 to 64 age group. Pension wealth is also much larger using our derived values of wealth. Under the legal (CGE) method, mean pension wealth across all households aged 55 to 64 is \$73,922; under the projected (CGE) earnings method, \$161,468. These values are derived by multiplying mean pension wealth shown in Tables 5 and 6 by the proportion of persons covered by a pension. Both estimates are much larger than Quinn's estimate for married men. This could be attributable to growth in pension coverage or more generous benefit formulas. Another possibility is that survey respondents systematically underestimate their benefits.

We have not yet examined the data on expected benefits provided by the SCF respondents. Avery <u>et al</u> (1985) reports a mean value of pension wealth (including thrift assets) of \$43,511 for households with married heads 50 and over; \$27,985 for those with unmarried heads. In all but 8 percent of the households the age of the head is 65 or lower, so the most comparable estimate in our results is once again for the 55-64 age group. Even under the legal method, our estimates are much higher than those obtained by Avery <u>et al</u> from the household responses, suggesting the possibility of significant underreporting.

Cartwright and Friedland (1985) used pension benefit data from a survey done for the President's Commission on Pension Policy (PCPP) in September 1979. Their estimates are largely based on individual responses to the questionnaire. When this information was not available, they imputed benefits from either the Department of Labor's EBS-1 forms or the employer survey. Private pensions were discounted at a rate of 7 percent (3 percent real, 4 percent inflation); public pensions, 3 percent (all real). IRAs, Keoghs, and

annuities are included in the estimates. For nonvested workers, the probability of vesting was imputed from a cross-section logit equation. Their estimates are increased by 37.2 percent below to reflect the change in the CPI between 1979 and 1983.

The average household in the PCPP had \$4,503 of retirement assets, representing 6 percent of net worth. In contrast, our estimates of pension wealth for the average household under the CGE assumptions are \$26,052 under the legal method and \$53,863 under the projected earnings method. Mean retirement wealth varied by age group in a pattern which was very comparable to that observed in Tables 5 and 6:

| Age Group | Mean Retirement <u>Wealth, PCPP</u> |
|-----------|----------------------------------------|
| Under 35 | \$ 1,547 |
| 35 - 44 | 3,906 |
| 45 - 54 | 9,922 |
| 55 - 64 | 14,175 |
| 65 & over | 1.858 |

To make those estimates directly comparable to those in Tables 5 and 6, we divided them by the ratio of households with retirement wealth:

| | | Mean Retirement |
|-------------------|-------------------------------|-------------------------------|
| | Ratio of Households | Wealth, Households |
| <u>Age Groups</u> | <u>with Retirement Wealth</u> | <u>with Retirement Wealth</u> |
| | | |
| Under 35 | . 22 | \$ 7,032 |
| 35 - 44 | .40 | 9,766 |
| 45 - 54 | .47 | 21,112 |
| 55 - 64 | . 49 | 28,929 |
| 65 & over | .06 | 30,975 |

Except for the under 35 group, these estimates are much smaller than our estimates in Tables 5 and 6. The gap between these two sets is largest (in relative terms for the 55 to 64 age group.

The ratio of retirement asset to net wealth can also be estimated for each age group, using Table A8 in Cartwright and Friedland:

| <u>Age Gr</u> | coup | Ratio of Ret <u>to Net Wealt</u> | tirement Assets <u>ch, All Househol</u> | <u>ds</u> |
|---------------|------|-------------------------------------|--------------------------------------------|-----------|
| Under | 35 | | .04 | |
| 35 - | 44 | | .04 | |
| 45 - | 54 | | .08 | |
| 55 - | 64 | | .12 | |
| 65 & | over | | .02 | |

Once again, these ratios much smaller in every age group than the corresponding estimates in Table 7.

In conclusion, several key findings of this study should be indicated.

 Pension wealth is a large and important component of household wealth.
Pension wealth follows the expected life cycle pattern of increasing with age up until retirement and declines.

2. Our results are larger than those reported by Quinn (1985) or Cartwright and Friedland (1985) both in terms of the absolute magnitude of pension wealth and the ratio of pension wealth to net worth.

3. Nonpension wealth of older households with pension coverage is considerably larger than the wealth of older households without pension coverage.

4. Pension wealth reduces measured inequality in the distribution of wealth.

5. A key omission of this study is social security wealth. Calculating social security wealth for these households is a research priority. Including social security wealth should further reduce wealth inequality. The distribution of social security wealth is an interesting issue in itself. 6. The inclusion of pension wealth into a measure of net worth will bring the life cycle pattern of net worth more into conformity with the predictions of the life cycle savings hypothesis. First, during the working years, the inclusion of pension wealth results in a more rapid rise in net worth between ages 35 and 65. Second, during the retirement years, the inclusion of pension wealth will accelerate the decline in net worth. Consider the example of a household with \$200,000 of nonpension wealth along with a pension of \$1,000 per month for the head whose is age 65. The wealth value of the pension is \$101,370 at 65 but declines to \$38,980 at 80 solely due to the decline in life expectancy. Even if nonpension wealth remains constant, the decline in pension wealth lowers net worth from \$301,310 to \$238,986 or a decline of 21 percent in 15 years.

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| | | | | Pension Com | np. | | |
|-----|--------|-----------|------------------|-----------------------------|-----------------------|-------------------|--------------------|
| Age | Tenure | Earnings | Pension Comp. | As Percent o Total Comp. | of Pension Benefit | Pension Wealth | Pension Savings |
| | | 0 | | 1 | | | |
| 25 | 0 | \$ 19,959 | \$ 41 | 0.21 | \$ 0 | \$ O | \$ O |
| 30 | 5 | 25,737 | 402 | 1.54 | 1,654 | 1,530 | 630 |
| 35 | 10 | 33,318 | 845 | 2.47 | 4,293 | 5,340 | 1,045 |
| 40 | 15 | 42,946 | 1,704 | 3.82 | 8,323 | 13,945 | 2,294 |
| 45 | 20 | 55,016 | 3,339 | 5.72 | 14,269 | 32,325 | 4,833 |
| 50 | 25 | 69,873 | 6,395 | 8.39 | 22,772 | 70,361 | 9,922 |
| 55 | 30 | 87,684 | 11,995 | 12.03 | 34,543 | 147,571 | 20,035 |
| 60 | 35 | 108,267 | 2 2, 010 | 16.89 | 50,251 | 302,288 | 40,040 |
| 64 | 39 | 126,191 | 35,199 | 21.81 | 65,945 | 532,487 | 70,231 |
| 65 | 40 | 164,680 | 5,586 | 3.28 | 70,304 | 613,518 | 81,030 |
| 70 | 45 | 246,141 | -23,610 | -10.61 | 127,045 | 934,312 | 75,257 |

Table 1. Employee Compensation and Pension Wealth: Legal Method

Source: Data are based on a simulation of compensation for a male worker who remains with a firm throughout his worklife. He is assumed to have been hired at age 25 with total annual compensation (earnings plus pension compensation) equal to \$20,000. Total compensation grows at 5.5 percent per year. The worker is covered by a pension with a normal retirement age of 65 and a benefit formula of .015 times average earnings in last five years times years of service. The market interest rate is 6 percent.

| Age | Tenure | Earnings | Pension Comp. | Pension Comp. As Percent of Total Comp. | Pension Benefit | Pension Wealth | Capital Loss |
|-----|--------|----------------|------------------|-----------------------------------------------|--------------------|-------------------|-----------------|
| 25 | 0 | \$ 18,670 | \$ 1,330 | 6.65 | \$ 0 | \$ 1,330 | \$ 1,330 |
| 30 | 5 | 24,353 | 1,786 | 6.83 | 1,562 | 10,717 | 9,272 |
| 35 | 10 | 31,762 | 2,401 | 7.03 | 4,074 | 26,414 | 21,346 |
| 40 | 15 | 41,415 | 3,234 | 7.24 | 7,969 | 51,752 | 38,399 |
| 45 | 20 | 53,982 | 4,373 | 7.49 | 13,853 | 91,835 | 60,452 |
| 50 | 25 | 70,30 3 | 5,964 | 7.82 | 22,564 | 155,076 | 85,357 |
| 55 | 30 | 91,432 | 8,247 | 8.27 | 35,245 | 255,654 | 105,082 |
| 60 | 35 | 118,664 | 11,612 | 8.91 | 53,434 | 418,048 | 96,610 |
| 64 | 39 | 145,802 | 15,587 | 9.66 | 73,290 | 623,494 | 31,700 |
| 65 | 40 | 173,397 | -3,130 | -1.84 | 79,146 | 690,677 | 0 |
| 70 | 45 | 253,590 | -31,059 | -13.96 | 134,412 | 988,489 | 0 |

Table 2. Employee Compensation and Pension Wealth: Projected Earnings Method

Source: Data are based on a simulation of compensation for a male worker who remains with a firm throughout his worklife. He is assumed to have been hired at age 25 with total annual compensation (earnings plus pension compensation) equal to \$20,000. Total compensation grows at 5.5 percent per year. The worker is covered by a pension with a normal retirement age of 65 and a benefit formula of .015 times average earnings in last five years times years of service. The market interest rate is 6 percent.

| | Leg | al | Projected | | |
|-----------------------|------------------|------------------|-----------|------------------|--|
| Variable | CGE ^b | FGE ^C | CGEd | FGE ^e | |
| | | | | | |
| Intercept | -9.44*** | -6.89*** | 1.61 | 1.72 | |
| | (1.51) | (2.11) | (1.11) | (1.37) | |
| Construction | 0.43 | 0.31 | -1.11*** | -1.13*** | |
| | (.91) | (1.11) | (.35) | (.41) | |
| Manufacturing | -0.45 | -0.63 | -0.51** | -0.43* | |
| | (.33) | (.41) | (.21) | (.23) | |
| Transportation; | -0.49 | -0.58 | -0.37 | -0.18 | |
| Communications | (.36) | (.45) | (.23) | (.27) | |
| Wholesale and | -1.04*** | -0.90* | -0.07 | 0.14 | |
| Retail Trade | (.41) | (.50) | (.26) | (.30) | |
| Finance; Ins.; | -1.57*** | -1.48*** | -0.50* | -0.52 | |
| Real Estate | (.42) | (.55) | (.28) | (.33) | |
| Personal and Repair | -0.52 | -0.79 | -0.80 | -0.63* | |
| Services | (.60) | (.76) | (.31) | (.36) | |
| Professional Services | -0.09 | -0.21 | 0.07 | 0.24 | |
| | (.35) | (.44) | (.22) | (.24) | |
| Public Administration | 0.06 | 0.02 | 0.11 | 0.26 | |
| | (.36) | (.45) | (.23) | (.25) | |
| Managers; | -0.35* | -0.67*** | 0.19 | 0.07 | |
| Administrators | (0.18) | (.23) | (.15) | (.17) | |
| Sales and Clerical | -0.19 | -0.39* | -0.15 | -0.20 | |
| | (.17) | (.22) | (.13) | (.15) | |
| Craftsmen; | -0.33* | -0.33 | -0.22 | -0.15 | |
| Protective Services | (.19) | (.23) | (.15) | (.17) | |
| Operatives; | -0.32* | -0.54** | -0.64*** | -0.52*** | |
| Laborers | (.19) | (.24) | (.13) | (.15) | |
| Log (Age) | .76*** | 0.74** | -1.37*** | -1.17*** | |
| | (.27) | (.35) | (.18) | (.21) | |

| Table 3. | Pension Benefit Equations for Persons Currently Working and Covere |
|----------|--------------------------------------------------------------------|
| | by a Defined Benefit Plan ^a |

Table 3. (cont'd)

| | Lega | 1 | Project | ed |
|----------------|------------------|------------------|------------------|------------------|
| Variable | CGE ^b | FGE ^C | CGEd | FGE ^e |
| Log (tenure) | 0.97*** (.13) | 1.03*** (.17) | 0.87*** (.05) | 0.90*** (.06) |
| Log (salary) | 1.26*** (.11) | 1.02*** (.16) | 1.05*** (.09) | 0.92*** (.11) |
| R ² | 0.63 | 0.53 | 0.52 | 0.46 |

Source: Benefit data are from the pension-provider portion of the Survey of Consumer Finance for all persons covered by a defined benefit plan on their current job. Other variables for each individual are from the household portion of the SCF.

^aDependent variable is the natural logarithm of pension benefit as calculated by each of two methods using one of two earnings growth assumption. The omitted industrial group is agriculture, forestry, fishing and mining. The omitted occupational group is professional, technical and kindred workers. Standard errors are in parenthesis.

^bPension benefit is calculated using the legal method assuming a constant 5.5 percent growth in annual earnings.

^CPension benefit is calculated using the legal method assuming the individual specific growth rate in earnings derived by the Fed.

^dPension benefit is calculated using the projected earnings method assuming a constant 5.5 percent growth in annual earnings.

^ePension benefit is calculated using the projected earnings method assuming the individual specific growth rate in earnings derived by the Fed.

*Coefficient is statistically significant at the ten percent confidence level.

 $\rm **Coefficient$ is statistically significant at the five percent confidence level.

***Coefficient is statistically significant at the one percent confidence level.

| Age | All Households | Households with Pensions | Households without Pensions | |
|-------------------------------|-------------------|-----------------------------|--------------------------------|--|
| Less than 25 | \$6,342 | \$ 10,292 | \$ 4,842 | |
| 25 - 34 | 31,735 | 29,731 | 34,412 | |
| 35 - 44 | 82,181 | 75,993 | 94,179 | |
| 45 - 54 | 188,503 | 188,170 | 189,122 | |
| 55 - 64 | 196,492 | 208,896 | 177,111 | |
| 65 - 74 | 222,514 | 293,829 | 163,652 | |
| Greater than 74 | 119,639 | 200,270 | 87,220 | |
| All households | 118,419 | 132,047 | 101,862 | |
| No. of household in sample | ds 4,103 | 2,304 | 1,799 | |

Table 4. Mean Nonpension Wealth by Age and Pension Status

Source: Weighted household wealth data from the Survey of Consumer Finance.

| | | | | | | NET W | ORTH | |
|---------------|--------------------------------------------|----------|----------|-------------------------|----------|--------------------------|-----------|--------------------------|
| | Pension Wealth Households with Pensions | | s All Ha | All Households Ho W: | | Households with Pensions | | Percent of Households |
| AGE | CGE | FGE | CGE | FGE | Pensions | CGE | FGE | with Pension |
| Less than 25 | \$ 1,951 | \$ 2,007 | \$ 6,879 | \$ 6,894 | \$ 4,842 | \$ 12,243 | \$ 12,299 | 27.5 |
| 25 - 34 | 6,899 | 6,850 | 35,612 | 35,584 | 34,412 | 36,659 | 36,609 | 57.2 |
| 35 - 44 | 20,383 | 24,481 | 98,924 | 98,329 | 94,179 | 101,371 | 100,469 | 66.0 |
| 45 - 54 | 70,764 | 63,451 | 230,128 | 225,362 | 189,122 | 258,934 | 251,621 | 65.0 |
| 55 - 64 | 121,183 | 116,498 | 270,380 | 2 67,5 23 | 177,111 | 330,079 | 325,395 | 61.0 |
| 65 - 74 | 55,060 | 55,066 | 247,411 | 247,413 | 163,652 | 34 8,888 | 348,894 | 45.2 |
| Greater than | 74 25,522 | 25,651 | 126,958 | 126,995 | 87,220 | 225,792 | 225,921 | 28.7 |
| All Household | ds 47,541 | 45,180 | 143,837 | 142,541 | 100,261 | 179,642 | 177,281 | 54.8 |

Source: Weighted pension wealth data derived for households in the Survey of Consumer Finance and weighted nonpension wealth from the household-portion of the SCF.

Table 6. Wealth Estimates: Projected Earnings Method

| | | | | | NET WOF | атн | |
|--------------------------------|-----------|----------------------------|-------------------|----------|-----------------------|--------------------------|----------|
| Pension Wea Households with | | on Wealth with Pensions | ns All Households | | Households Without | Households with Pensions | |
| AGE | CGE | FGE | CGE | FGE | Pensions | CGE | FGE |
| Less than 25 | \$ 14,862 | \$ 12,177 | \$ 10,432 | \$ 9,693 | \$ 4,842 | \$ 25,154 | \$22,469 |
| 25 - 34 | 22,923 | 17,785 | 44,792 | 41,848 | 34,412 | 52,683 | 47,544 |
| 35 - 44 | 57,083 | 44,530 | 119,837 | 111,555 | 94,179 | 133,072 | 120,519 |
| 45 - 54 | 152,315 | 79,684 | 283,277 | 235,941 | 189,122 | 340,485 | 267,853 |
| 55 - 64 | 264,702 | 255,286 | 357,887 | 352,146 | 177,111 | 473,598 | 464,183 |
| 65 - 74 | 54,344 | 53,249 | 247,087 | 246,592 | 163,652 | 348,173 | 347,078 |
| Greater than 74 | 24,122 | 23,631 | 126,556 | 126,415 | 87,220 | 224,392 | 223,901 |
| All Households | 98,291 | 78,792 | 171,696 | 160,992 | 100,261 | 230,392 | 210,893 |

Source: Weighted pension wealth data derived for households in the Survey of Consumer Finance and weighted nonpension wealth from the household-portion of the SCF.

| | All Households | | | | | |
|-----------------|----------------|------------------|------|-------|--|--|
| | L | egal | Proj | ected | | |
| Age | CGE | FGE | CGE | FGE | | |
| Less than 25 | 7.8 | 8.0 | 39.2 | 34.6 | | |
| 25 - 34 | 11.1 | 11.0 | 29.3 | 24.3 | | |
| 35 - 44 | 16.9 | 16.4 | 31.4 | 26.3 | | |
| 45 - 54 | 20.0 | 18.3 | 35.0 | 22.0 | | |
| 55 - 64 | 27.3 | 26.6 | 45.1 | 44.2 | | |
| 65 - 74 | 10.1 | 10.1 | 9.9 | 9.8 | | |
| Greater than 74 | 5.8 | 5.8 | 5.5 | 5.4 | | |
| All Households | 18.1 | 17.4 | 31.4 | 26.9 | | |
| | House | eholds With Pens | ions | | | |
| Less than 25 | 15.9 | 16.3 | 59.1 | 54.2 | | |
| 25 - 34 | 18.8 | 18.7 | 43.5 | 37.4 | | |
| 35 - 44 | 25.0 | 24.4 | 42.9 | 36.9 | | |
| 45 - 54 | 27.3 | 25.2 | 44.7 | 29.7 | | |
| 55 - 64 | 36.7 | 35.8 | 55.9 | 55.0 | | |
| 65 - 74 | 15.8 | 15.8 | 15.6 | 15.3 | | |
| Greater than 74 | 11.3 | 11.4 | 10.8 | 10.6 | | |
| All Households | 26.5 | 25.5 | 42.7 | 37.4 | | |

Source: Weighted pension wealth data derived for households in the Survey of Consumer Finance and weighted nonpension wealth from the household-portion of the SCF.

| | L | egal | Proj | ected |
|-----------------|--------|--------|----------|----------|
| Age | CGE | FGE | CGE | FGE |
| Less than 25 | \$ 244 | \$ 284 | \$ 2,658 | \$ 1,881 |
| 25 - 34 | 303 | 321 | 1,972 | 1,420 |
| 35 - 44 | 1,044 | 1,060 | 5,997 | 4,570 |
| 45 - 54 | 2,224 | 2,263 | 5,340 | 4,372 |
| 55 - 64 | 4,747 | 4,888 | 6,940 | 5,738 |
| 65 - 74 | 4,623 | 4,451 | 3,829 | 3,210 |
| Greater than 74 | 0 | 0 | 0 | 0 |
| All Households | 1,994 | 2,017 | 4,512 | 3,573 |

Table 8. Pension Savings Among Households Participating in a Defined Benefit Plan

Source: Pension savings data as derived using pension wealth from the pension-provider portion of the Survey of Consumer Finance.

| Age | 0% | 10% | 25% | 50% | 758 | 958 | 100% |
|-----------------|-------|-------|-------|------|-------|---------|----------|
| Less than 25 | -23.2 | -3.7 | - 0.7 | 0.2 | 5.7 | 33.2 | 167.4 |
| 25 - 34 | -52.0 | - 2.5 | 0.0 | 7.1 | 33.8 | 148.0 | 15,497.0 |
| 35 - 44 | -44.8 | - 0.2 | 7.9 | 41.2 | 104.4 | 809.6 | 53,572.5 |
| 45 - 54 | - 9.9 | 0.1 | 21.1 | 63.0 | 205.3 | 2,689.7 | 71,993.0 |
| 55 - 64 | -73.4 | 1.0 | 27.8 | 88.7 | 409.5 | 5,149.5 | 86,820.5 |
| 65 - 74 | -40.0 | 2.9 | 25.6 | 78.4 | 370.2 | 4,729.8 | 51,079.0 |
| Greater than 74 | - 2.7 | 0.2 | 7.3 | 44.3 | 137.5 | 4,594.4 | 35,033.1 |
| All Households | -73.4 | - 0.4 | 3.1 | 38.3 | 123.0 | 2,231.7 | 86,820.5 |

Table 9. Nonpension Wealth^a Distribution by Age: All Households

Source: Weighted household wealth data from the Survey of Consumer Finance.

| Age | 08 | 10% | 25% | 50% | 75% | 95% | 100% |
|-----------------|-------|-------|-------|-------|-------|---------|----------|
| Less than 25 | -23.2 | - 4.3 | - 1.4 | 1.8 | 16.2 | 33.2 | 167.4 |
| 25 - 34 | -52.0 | - 2.6 | 0.0 | 11.7 | 35.9 | 110.7 | 2,632.9 |
| 35 - 44 | -44.8 | 0.3 | 12.9 | 45.3 | 101.8 | 704.6 | 6,471.8 |
| 45 - 54 | - 9.9 | 3.4 | 30.6 | 74.1 | 212.0 | 3,484.6 | 58,690.6 |
| 55 - 64 | - 6.0 | 13.1 | 48.2 | 104.9 | 554.8 | 5,418.2 | 32,142.3 |
| 65 - 74 | - 3.3 | 15.7 | 47.0 | 114.0 | 687.9 | 5,165.8 | 51,079.0 |
| Greater than 74 | - 2.7 | 8.7 | 36.8 | 90.1 | 210.3 | 7,279.7 | 25,127.3 |
| All households | -52.0 | 0.0 | 12.8 | 51.6 | 145.4 | 2,764.0 | 58,690.6 |

Table 10. Nonpension Wealth^a Distribution by Age: Households with Pensions

Source: Weighted household wealth data from the Survey of Consumer Finance.

| Age | 08 | 10% | 25% | 50% | 75% | 95% | 100% |
|-----------------|-------|------|------|------|-------|---------|----------|
| Less than 25 | -11.0 | -3.7 | -0.6 | 0.1 | 3.3 | 35.2 | 132.9 |
| 25 - 34 | -39.9 | -2.4 | -0.1 | 2.0 | 30.3 | 192.0 | 15,497.0 |
| 35 - 44 | -11.8 | -0.9 | 0.1 | 30.4 | 120.5 | 1,366.6 | 53,572.5 |
| 45 - 54 | - 7.9 | 0.0 | 2.6 | 42.1 | 203.8 | 1,997.6 | 71,993.0 |
| 55 - 64 | -73.4 | 0.0 | 5.4 | 51.2 | 260.1 | 4,397.1 | 86,820.5 |
| 65 - 74 | -40.0 | 0.5 | 12.0 | 56.2 | 225.7 | 2,654.6 | 41,530.2 |
| Greater than 74 | - 1.7 | 0.0 | 3.2 | 29.9 | 91.2 | 2,926.8 | 35,033.1 |
| All households | -73.4 | -0.7 | 0.1 | 18.0 | 92.0 | 1,563.4 | 86,820.5 |

Table 11. Nonpension Wealth^a Distribution by Age: Households without Pensions

Source: Weighted household wealth data from the Survey of Consumer Finance.

| Age | 0% | 10% | 25% | 50% | 75% | 95% | 100% |
|-----------------|-----|-----|------|------|-------|-------|----------|
| Less than 25 | 0.0 | 0.0 | 0.0 | 0.2 | 2.0 | 9.0 | 29.1 |
| 25 - 34 | 0.0 | 0.0 | 0.0 | 1.8 | 7.3 | 35.8 | 141.9 |
| 35 - 44 | 0.0 | 0.0 | 2.0 | 11.6 | 29.2 | 152.0 | 1,158.8 |
| 45 - 54 | 0.0 | 0.0 | 12.4 | 39.8 | 114.3 | 492.8 | 5,338.2 |
| 55 - 64 | 0.0 | 7.3 | 33.0 | 80.7 | 195.3 | 879.1 | 17,289.3 |
| 65 - 74 | 0.7 | 7.0 | 19.5 | 44.3 | 122.6 | 552.6 | 3,564.7 |
| Greater than 74 | 0.8 | 2.6 | 6.3 | 20.9 | 42.1 | 245.7 | 900.0 |
| All households | 0.0 | 0.0 | 2.2 | 17.7 | 66.6 | 383.2 | 17,289.3 |

Table 12. Pension Wealth^a Distribution by Age: Households with pensions, Legal CGE

Source: Weighted pension wealth data derived from the pension-provider portion of the Survey of Consumer Finance.

| Age | | 109 | 25% | <u> </u> | 750 | 0.5 0 | 1000 |
|-----------------|-----|------|------|----------|-------|---------|----------|
| | | | | | /] & | 938 | 100% |
| Less than 25 | 0.0 | 0.0 | 0.7 | 3.0 | 6.7 | 109.2 | 270.9 |
| 25 - 34 | 0.0 | 0.9 | 3.5 | 9.1 | 24.2 | 104.1 | 330.3 |
| 35 - 44 | 0.0 | 2.5 | 8.9 | 25.5 | 73.1 | 300.5 | 5,941.1 |
| 45 - 54 | 0.0 | 4.0 | 19.8 | 59.4 | 162.1 | 905.0 | 94,079.9 |
| 55 - 64 | 0.0 | 10.2 | 32.4 | 86.9 | 230.7 | 1,261.4 | 44,678.6 |
| 65 - 74 | 0.7 | 7.0 | 19.6 | 44.8 | 116.1 | 560.2 | 5,381.7 |
| Greater than 74 | 0.8 | 2.6 | 6.3 | 20.9 | 42.1 | 245.7 | 900.0 |
| All households | 0.0 | 2.1 | 8.7 | 30.6 | 100.3 | 486.2 | 94,079.9 |

Table 13. Pension Wealth^a Distribution by Age: Households with Pensions Projected Earnings CGE

Source: Weighted pension wealth data derived from the pension-provider portion of the Survey of Consumer Finance.

| Age | 0% | 10% | 25% | 50% | 75% | 95% | 100% |
|-----------------|-------|------|-------|-------|-------|---------|----------|
| Less than 25 | -21.7 | -3.6 | - 0.6 | 0.3 | 6.3 | 34.5 | 169.4 |
| 25 - 34 | -51.2 | -1.9 | 0.0 | 9.6 | 39.6 | 165.8 | 15,497.0 |
| 35 - 44 | -44.6 | 0.0 | 13.2 | 51.3 | 130.7 | 1,013.2 | 53,572.5 |
| 45 - 54 | - 7.9 | 2.5 | 33.7 | 103.0 | 292.3 | 3,039.6 | 71,993.0 |
| 55 - 64 | -73.4 | 5.5 | 51.7 | 160.8 | 572.6 | 5,896.7 | 86,820.5 |
| 65 - 74 | -40.0 | 8.1 | 34.6 | 98.2 | 414.8 | 5,162.2 | 51,627.4 |
| Greater than 74 | - 1.9 | 0.2 | 8.5 | 52.0 | 143.6 | 4,594.4 | 35,033.1 |
| All households | -73.4 | 0.0 | 6.6 | 49.8 | 169.2 | 2,463.2 | 86,820.5 |

Table 14. Net Worth^a Distribution by Age: All Households, Legal CGE

Source: Weighted pension and nonpension wealth data derived from the Survey of Consumer Finance.

| Age | 0% | 10% | 25% | 50% | 75% | 95% | 100% |
|-----------------|-------|------|-------|-------|-------|---------|----------|
| Less than 25 | -21.7 | -2.8 | - 0.5 | 0.4 | 8.5 | 49.7 | 269.0 |
| 25 - 34 | -51.3 | -1.1 | 0.7 | 15.3 | 52.6 | 206.0 | 15,497.0 |
| 35 - 44 | -44.6 | 0.5 | 20.2 | 67.7 | 164.4 | 1,063.5 | 53,572.5 |
| 45 - 54 | - 7.9 | 3.2 | 40.3 | 116.1 | 353.2 | 3,553.8 | 95,071.3 |
| 55 - 64 | -73.4 | 7.0 | 51.9 | 161.0 | 595.9 | 6,184.7 | 86,820.5 |
| 65 - 74 | -40.0 | 8.1 | 34.6 | 100.0 | 408.3 | 4,923.3 | 51,627.4 |
| Greater than 74 | - 1.9 | 0.2 | 8.5 | 52.0 | 143.6 | 4,594.4 | 35,033.1 |
| All households | -73.4 | 0.0 | 9.6 | 57.9 | 195.9 | 2,557.6 | 95,071.3 |

Table 15. Net Worth^a Distribution by Age: All Households, Projected Earnings CGE

Source: Weighted pension and nonpension wealth data derived from the Survey of Consumer Finance.

^aReported in units of \$1000

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| Age | 0% | 10% | 25% | 50% | 75% | 95% | 100% |
|-----------------|--------|-------|-------|-------|-------|---------|----------|
| | | | | | | | |
| Less than 25 | -21.7 | - 3.6 | - 2.2 | 3.8 | 19.2 | 34.3 | 169.4 |
| 25 - 34 | -51.3 | - 1.4 | 3.0 | 18.3 | 45.6 | 152.1 | 2,703.4 |
| 35 - 44 | -44.6 | 6.1 | 25.5 | 63.5 | 133.2 | 796.4 | 7,630.6 |
| 45 - 54 | - 2.2 | 23.1 | 57.3 | 128.9 | 343.2 | 3,904.3 | 58,919.8 |
| 55 - 64 | - 0.8 | 48.8 | 102.3 | 234.0 | 882.6 | 6,418.9 | 34,586.7 |
| 65 - 74 | 9.4 | 38.7 | 79.1 | 158.3 | 827.4 | 5,570.5 | 51,627.4 |
| Greater than 74 | - 1.9 | 20.3 | 57.6 | 115.4 | 230.0 | 7,537.2 | 25,544.3 |
| All households | 51 3 | 4 0 | 24 8 | 84 5 | 220 5 | 3 214 0 | 58 010 0 |
| | - 71.3 | 4.0 | 24.0 | 04.5 | 229.5 | 5,214.0 | 50,919.0 |

Table 16. Net Worth^a Distribution by Age: Households with Pension, Legal CGE

Source: Weighted pension and nonpension wealth data derived from the Survey of Consumer Finance.

| Age | 0% | 10% | 25% | 50% | 75% | 95% | 100% |
|-----------------|-------|-------|-------|-------|-------|---------|----------|
| Less than 25 | -21.7 | - 1.6 | 0.4 | 7.7 | 27.8 | 156.4 | 269.0 |
| 25 - 34 | -51.3 | 1.9 | 8.9 | 27.4 | 66.4 | 207.0 | 2,731.8 |
| 35 - 44 | -44.6 | 12.3 | 35.1 | 87.9 | 181.0 | 920.4 | 12,412.9 |
| 45 - 54 | - 3.6 | 30.5 | 76.4 | 144.1 | 436.2 | 4,008.2 | 95,071.3 |
| 55 - 64 | 0.3 | 50.3 | 107.8 | 270.0 | 926.7 | 6,667.0 | 44,699.2 |
| 65 - 74 | 9.4 | 38.7 | 79.1 | 159.0 | 827.4 | 5,968.5 | 51,627.4 |
| Greater than 74 | - 1.9 | 20.3 | 57.6 | 115.4 | 230.0 | 7,537.2 | 25,544.3 |
| All households | -51.3 | 9.1 | 33.8 | 99.2 | 277.3 | 3,340.3 | 95,071.3 |

Table 17. Net Worth^a Distribution by Age: Households with Pensions, Projected Earnings CGE

Source: Weighted pension and nonpension wealth data derived from the Survey of Consumer Finance.

| | Non Pensi | on Wealth | | Net Worth | n: Legal CGE | |
|----------------|--------------|----------------|-------------|---------------|------------------|-------------|
| Household | Percent of W | Mealth Held By | Gini | Percent of Ne | et Worth Held By | Gini |
| Age | Top 5% | Top 1% | Coefficient | Top 5% | Top 1% | Coefficient |
| Less than 25 | 55.5 | 25.4 | .891 | 53.3 | 23.6 | .875 |
| 25 - 34 | 47.8 | 22.5 | .799 | 43.5 | 20.2 | . 769 |
| 35 - 44 | 41.9 | 20.3 | .706 | 37.7 | 18.8 | .688 |
| 45 - 54 | 62.2 | 40.3 | .800 | 54.6 | 34.3 | .739 |
| 55 - 64 | 50.7 | 27.2 | .745 | 43.6 | 23.3 | .686 |
| 65 - 74 | 56.1 | 35.0 | .782 | 52.5 | 32.6 | .749 |
| Greater than 7 | 74 50.9 | 35.7 | .763 | 49.3 | 34.0 | .750 |
| All Households | \$ 57.9 | 35.5 | .806 | 52.5 | 31.1 | .777 |

| Table 10. Measurement of wearun Distribution | Table 1 | .8. | Measurement | of | Wealth | Distribution |
|----------------------------------------------|---------|-----|-------------|----|--------|--------------|
|----------------------------------------------|---------|-----|-------------|----|--------|--------------|

| | Net Worth: | Projected CGE | |
|------------------|-------------------------|---------------------------|---------------------|
| Household Age | Percent of Ne Top 5% | t Worth Held By Top 1% | Gini Coefficient |
| Less than 25 | 53.7 | 25.3 | .860 |
| 25 - 34 | 39.1 | 17.1 | . 730 |
| 35 - 44 | 34.5 | 16.2 | .646 |
| 45 - 54 | 57.4 | 40.2 | .761 |
| 55 - 64 | 55.2 | 38.2 | .751 |
| 65 - 74 | 52.7 | 32.9 | . 749 |
| Greater than 74 | 49.1 | 34.1 | . 749 |
| All Households | 55.0 | 36.2 | . 783 |

Source: Weighted pension and nonpension wealth data derived from the Survey of Consumer Finance.

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Figure 1. Distribution of Wealth: Legal Method



