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401(k) Plan Asset Allocation, Account Balances, and Loan Activity in 2009

By Jack VanDerhei, EBRI; Sarah Holden, ICI; and Luis Alonso, EBRI

EXECUTIVE SUMMARY

CONSISTENT SAMPLE: Because 401(k) balances can fluctuate with market returns from year to year, meaningful analysis of 401(k) plans must examine how participants' accounts have performed over the long term. Looking at consistent participants in the EBRI/ICI 401(k) database over the six-year period from 2003 to 2009 (which included one of the worst bear markets for stocks since the Great Depression), the study found:

- After rising in 2003 and for the next four consecutive years, the average 401(k) retirement account fell 27.8 percent in 2008, before rising 31.9 percent in 2009.
- The average 401(k) account balance moved up and down with stock market performance, but over the entire sixyear time period increased at an average annual growth rate of 10.5 percent, attaining \$109,723 at year-end 2009.
- The median (or midpoint, half above and half below) 401(k) account balance increased at an average annual growth rate of 14.7 percent over the 2003–2009 period to \$59,381 at year-end 2009.

THE BULK OF 401(K) ASSETS CONTINUED TO BE INVESTED IN STOCKS: On average, at year-end 2009, 60 percent of 401(k) participants' assets were invested in equity securities through equity funds, the equity portion of balanced funds, and company stock. Thirty-six percent was in fixed-income securities such as stable-value investments and bond and money funds.

MORE THAN THREE-QUARTERS OF 401(K) PLANS INCLUDED TARGET-DATE FUNDS IN THEIR INVESTMENT LINEUP AT YEAR-END 2009: At year-end 2009, nearly 10 percent of the assets in the EBRI/ICI 401(k) database was invested in target-date funds and 33 percent of 401(k) participants held target-date funds. Also known as lifecycle funds, they are designed to simplify investing and to automate account rebalancing.

NEW EMPLOYEES CONTINUED TO USE BALANCED FUNDS, INCLUDING TARGET-DATE FUNDS: Across all but the oldest age group, more new or recent hires invested their 401(k) assets in balanced funds, including target-date funds. At year-end 2009, about 42 percent of the account balances of recently hired participants in their 20s were invested in balanced funds, compared with 36 percent in 2008, and about 7 percent in 1998. At year-end 2009, 31 percent of the account balances of recently hired participants in their 20s was invested in lifecycle funds, compared with almost 23 percent at year-end 2008.

401(K) PARTICIPANTS CONTINUED TO SEEK DIVERSIFICATION OF THEIR INVESTMENTS: The share of 401(k) accounts invested in company stock continued to shrink, falling by half of a percentage point (to 9.2 percent) in 2009. That continued a steady decline that started in 1999. Recently hired 401(k) participants contributed to this trend: They tended to be less likely to hold employer stock.

PARTICIPANTS' 401(K) LOAN ACTIVITY ROSE IN 2009: In 2009, 21 percent of all 401(k) participants eligible for loans had a loan outstanding against their 401(k) account, compared with 18 percent at year-end 2008 and year-end 2007. Loans outstanding amounted to 15 percent of the remaining account balance, on average, at year-end 2009, compared with16 percent at year-end 2008. Loan amounts remained in line with the past few years in terms of typical dollar amounts.

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Introduction

Over the past two decades, 401(k) plans have grown to be the most widespread private-sector employer-sponsored retirement plan in the United States¹ and now serve as the most popular defined contribution (DC) plan, representing the largest number of participants and assets. In 2009, 49.0 million American workers were active 401(k) plan participants.² By year-end 2009, 401(k) plan assets had grown to represent 17 percent of all retirement assets, amounting to \$2.8 trillion.³ In an ongoing collaborative effort, the Employee Benefit Research Institute (EBRI)⁴ and the Investment Company Institute (ICI)⁵ collect annual data on millions of 401(k) plan participants as a means to accurately portray how these participants manage their accounts.

This report is an update of EBRI and ICI's ongoing research into 401(k) plan participants' activity through year-end 2009. The report is divided into five sections: The first describes the EBRI/ICI 401(k) database; the second focuses on changes in participant account balances over time, analyzing a group of consistent 401(k) participants; the third presents a snapshot of participant account balances at year-end 2009; the fourth looks at participants' asset allocations, including analysis of 401(k) participants' use of target-date funds (also called "lifecycle" funds); and the fifth focuses on participants' 401(k) loan activity.

EBRI/ICI 401(k) Database

Sources and Type of Data

Several recordkeeping organizations provided records on active participants in 401(k) plans at year-end 2009. These plan recordkeepers include mutual fund companies, insurance companies, and consulting firms. Although the EBRI/ICI project has collected data from 1996 through 2009, the universe of data providers varies from year to year. In addition, the sample of plans at any given provider can change. Thus, aggregate figures in this report generally should not be used to estimate time trends, unless otherwise indicated. Records were encrypted prior to inclusion in the database to conceal the identity of employers and employees, but were coded so that both could be tracked by researchers over multiple years. Data provided for each participant include date of birth, from which an age group is assigned; date of hire, from which a tenure range is assigned; outstanding loan balance; funds in the participant's investment portfolios; and asset values attributed to those funds. An account balance for each participant is the sum of the participant's assets in all funds. Plan balances are constructed as the sum of all participant balances in the plan. Plan size is estimated as the sum of active participants in the plan and, as such, does not necessarily represent the total number of employees at the sponsoring firm.

A new feature in the year-end 2009 database is the ability to link individuals across plans and across recordkeepers. This improved the identification of active participants and resulted in the reclassification of nearly 1.5 million participant accounts that were multiple accounts owned by single individuals. This procedure also allowed EBRI and ICI to begin to consolidate account balances for individuals across data providers to provide a more accurate estimate of average account balances per individual.⁹

Investment Options

Investment options are grouped into eight broad categories.¹⁰ Equity funds consist of pooled investments primarily invested in stocks; these funds include equity mutual funds, bank collective trusts, life insurance separate accounts, and other pooled investments. Similarly, bond funds are any pooled account primarily invested in bonds. Balanced funds are pooled accounts invested in both stocks and bonds. They are classified into two subcategories: target-date funds and non-target-date balanced funds. A target-date fund pursues a long-term investment strategy, using a mix of asset classes, or asset allocation, that the fund provider adjusts to become less focused on growth and more focused on income over time.¹¹ Non-target-date balanced funds include asset allocation or hybrid funds, in addition to target-date funds.¹² Company stock is equity in the plan's sponsor (the employer). Money funds consist of those funds designed to maintain a stable share price. Stable value products, such as guaranteed investment contracts (GICs)¹³ and other stable value funds,¹⁴ are reported as one category. The other category is the residual for other investments, such as real estate funds. The final category, unknown, consists of funds that could not be identified.¹⁵

About the EBRI/ICI 401(k) Database

The EBRI/ICI Participant-Directed Retirement Plan Data Collection Project is the largest, most representative repository of information about individual 401(k) plan participant accounts. As of December 31, 2009, the database included statistical information about:

- 20.7 million 401(k) plan participants, in
- 51,852 employer-sponsored 401(k) plans, holding
- \$1.210 trillion in assets.

The 2009 database covered 42 percent of the universe of active 401(k) plan participants, 10 percent of plans, and 44 percent of 401(k) plan assets. The EBRI/ICI project is unique because it includes data provided by a wide variety of plan recordkeepers and, therefore, portrays the activity of participants in 401(k) plans of varying sizes—from very large corporations to small businesses—with a variety of investment options.

Distribution of Plans, Participants, and Assets by Plan Size

The 2009 EBRI/ICI 401(k) database contains information on 51,852 401(k) plans with \$1.210 trillion in assets and 20.7 million participants (Figure 1). Most of the plans in the database are small: 44 percent of the plans have 25 or fewer participants, and 30 percent have 26 to 100 participants. In contrast, only 5 percent of the plans have more than 1,000 participants. However, participants and assets are concentrated in large plans. For example, 79 percent of participants are in plans with more than 1,000 participants, and these same plans account for 83 percent of all plan assets. Because most of the plans have a small number of participants, the asset size for many plans is modest. About 19 percent of the plans have assets of \$250,000 or less, and another 31 percent have plan assets between \$250,001 and \$1,250,000 (Figure 2).

Relationship of EBRI/ICI 401(k) Database Plans to the Universe of All 401(k) Plans

The 2009 EBRI/ICI 401(k) database is a representative sample of the estimated universe of 401(k) plans. At year-end 2009, all 401(k) plans held a total of \$2.8 trillion in assets, and the database represents about 44 percent of that total. The database also covers 42 percent of the universe of active 401(k) plan participants and 10 percent of all 401(k) plans. The distribution of assets, participants, and plans in the database for 2009 is similar to that reported for the universe of plans as estimated by Cerulli Associates (Figure 3).

The Typical 401(k) Plan Participant

The database includes 401(k) participants across a wide range of age and tenure. Fifty-three percent of participants were in their 30s or 40s, while 13 percent of participants were in their 20s and 9 percent were in their 60s (Figure 4). The median age of the participants in the 2009 database is 45 years, one year older than in 2008. In 2009, 38 percent of the participants had five or fewer years of tenure and 6 percent had more than 30 years of tenure. The median tenure at the current employer was six years in 2009, compared with seven years in 2008. The tenure composition in the year-end 2009 database is similar to the tenure composition of the year-end 2008 database, but the tenure distribution of 2007, 2008, and 2009 shows an increase in lower-tenured participants compared with 2006 and earlier. Although the database does not contain information on automatic enrollment, it is likely that automatic enrollment is playing a role in bringing in newly hired workers, which lowers the average tenure. In the participants of participants compared with 2006 and earlier.

Changes in 401(k) Participants' Account Balances

As a cross-section, or snapshot, of the entire population of 401(k) plan participants, the database includes 401(k) participants who are young and individuals who are new to their jobs, as well as older participants and those who have

404(1) DI		Figure 1	(5) 5					
401(k) Plan Characteristics, by Number of Plan Participants, 2009								
Number of Plan Participants	Total Plans	Total Participants	Total Assets	Average Account Balance				
1–10	11,410	63,199	\$3,450,224,322	\$54,593				
11–25	11,518	197,472	\$10,195,105,081	\$51,628				
26–50	8,717	316,512	\$15,894,079,012	\$50,216				
51–100	6,840	485,134	\$24,151,482,187	\$49,783				
101–250	6,004	955,964	\$45,979,081,708	\$48,097				
251–500	2,832	998,267	\$47,263,774,919	\$47,346				
501–1,000	1,839	1,303,936	\$63,301,430,136	\$48,546				
1,001-2,500	1,394	2,182,496	\$112,210,922,205	\$51,414				
2,501–5,000	640	2,234,030	\$122,068,002,953	\$54,640				
5,001-10,000	327	2,268,966	\$150,408,723,529	\$66,290				
>10,000	331	9,737,755	\$615,491,992,885	\$63,207				
All	51,852	20,743,731	\$1,210,414,818,938	\$58,351				
Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.								
Note: The median account balance	at year-end 2009 w	as \$17,794.						

Figure 2									
401(k) Plan Characteristics, by Plan Assets, 2009									
Total Plan Assets	Total Plans	Total Participants	Total Assets	Average Account Balance					
\$0-\$250,000	9,597	86,045	\$1,019,080,598	\$11,844					
>\$250,000–\$625,000	8,161	151,990	\$3,452,162,443	\$22,713					
>\$625,000–\$1,250,000	7,879	242,060	\$7,121,180,347	\$29,419					
>\$1,250,000–\$2,500,000	7,694	414,735	\$13,741,687,164	\$33,134					
>\$2,500,000–\$6,250,000	7,737	800,721	\$30,796,702,552	\$38,461					
>\$6,250,000-\$12,500,000	3,961	866,833	\$34,703,285,828	\$40,035					
>\$12,500,000-\$25,000,000	2,652	1,116,783	\$46,415,289,211	\$41,562					
>\$25,000,000–\$62,500,000	2,007	1,819,271	\$78,805,522,642	\$43,317					
>\$62,500,000—\$125,000,000	883	1,669,553	\$76,732,201,388	\$45,960					
>\$125,000,000—\$250,000,000	544	1,838,633	\$95,265,460,247	\$51,813					
>\$250,000,000	737	11,737,107	\$822,362,246,519	\$70,065					
All	51,852	20,743,731	\$1,210,414,818,938	\$58,351					
Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.									

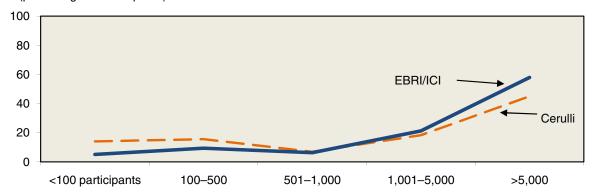
Note: The median account balance at year-end 2009 was \$17,794.

Figure 3 EBRI/ICI 401(k) Database Represents Wide Cross-Section of 401(k) Universe

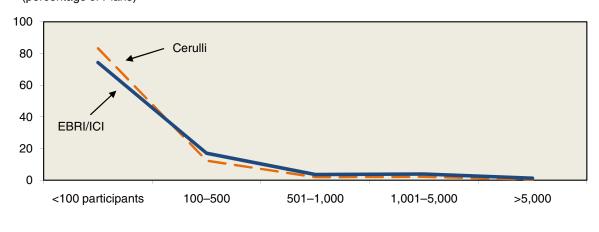
401(k) plan characteristics by number of participants: EBRI/ICI 401(k) database vs. Cerulli estimates for all 401(k) plans, 2009

Plan Assets (percentage of Assets) 100 80 60 40 20 <100 participants 100–500 501–1,000 1,001–5,000 >5,000

Participants (percentage of Participants)



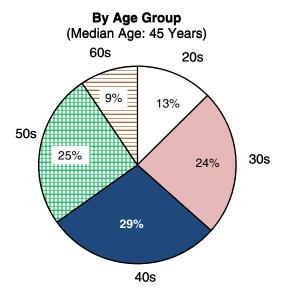
Plans (percentage of Plans)



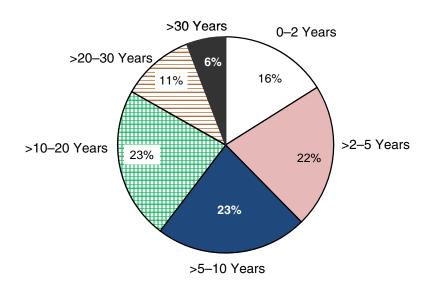
Sources: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project, Cerulli Associates.

Figure 4
401(k) Participants Represent A Range Of Ages And Job Tenures

Percentage of 401(k) plan participants by age or tenure, 2009







Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: Components may not add to 100 percent because of rounding. The tenure variable is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.

been with their current employers for many years. These annual updates of the database provide snapshots of 401(k) account balances, asset allocation, and loan activity across wide cross-sections of participants. However, the cross-sectional analysis is not well suited to addressing the question of the impact of participation in 401(k) plans over time. Cross-sections change in composition over time because the selection of data providers and sample of plans using a given provider vary from year to year and because 401(k) participants join or leave plans. ¹⁹ In addition, the database contains only the account balances held in the 401(k) plans at participants' current employers. Retirement savings held in plans at previous employers or rolled over into individual retirement accounts (IRAs) are not included in the analysis. ^{20, 21}

To explore the questions of the impact of ongoing participation in 401(k) plans and to understand how typical 401(k) plan participants have fared over a given time period, it is important to analyze a group of consistent participants (a longitudinal sample). This consistent group of participants is drawn from the annual cross-sections. This report analyzes two different consistent groups drawn from the database: (1) a group of 4.3 million participants with account balances at the end of each year at least from year-end 2003 through year-end 2009, and (2) a consistent group of 1.6 million participants with accounts at the end of each year at least from year-end 1999 through year-end 2009. The "2003–2009 consistent group" is introduced because the tenure of the "1999–2009 consistent group" has grown longer, and the age composition has gotten significantly older compared with the cross-sectional snapshots of participants.²² The results from the 1999–2009 consistent group are presented in the appendix of this report.

Comparison of Consistent Group of 401(k) Participants to EBRI/ICI 401(k) Database

About 3 in 10, or 4.3 million, of the 401(k) participants with accounts at the end of 2003 in the EBRI/ICI 401(k) database had accounts at the end of each year from 2003 through 2009.²³ These 4.3 million 401(k) participants make up a group of consistent participants (or a longitudinal sample), which removes the effect of participants and plans entering and leaving the database. This group is similar with respect to age and tenure composition to the entire database at year-end 2003. By year-end 2009, these participants had a minimum tenure of six years and were slightly older in age composition when compared with the year-end 2009 cross-sectional database.²⁴ In addition, the 2003–2009 consistent group's account balances tended to be higher compared with account balances in the cross-sectional database at year-end 2009. Nevertheless, with respect to average asset allocation at year-end 2009, the 2003–2009 consistent group had similar asset allocation by participant age as participants in the entire year-end 2009 database.²⁵

Reflecting their higher average age and tenure, the 2003–2009 consistent group also had median and average account balances that were much higher than the median and average account balances of the broader database (Figure 5). At year-end 2009, the average 401(k) account balance of the consistent group was \$109,723, almost double the average account balance of \$58,351 among participants in the entire database. The median 401(k) account balance among the consistent participants was \$59,381 at year-end 2009, nearly three-and-one-half times the median account balance of \$17,794 among participants in the entire database.

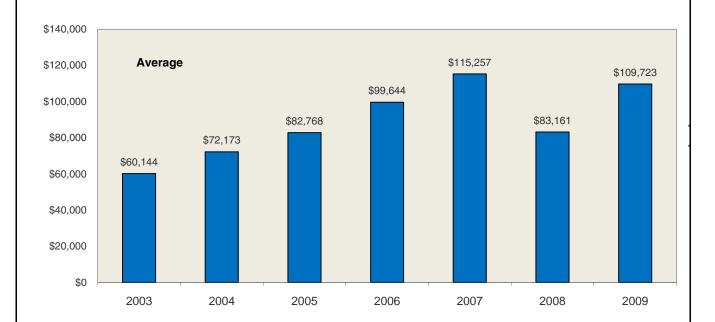
401(k) account balances varied with both age and tenure among the consistent group of participants, as they do in the cross-sectional database. Younger participants or those with shorter job tenure tended to have smaller account balances, while those who were older or had longer job tenure tended to have higher account balances. For example, within the consistent group, participants in their 20s at year-end 2009 had an average account balance of \$24,462, compared with an average of \$144,004 for participants in their 60s (Figure 6).

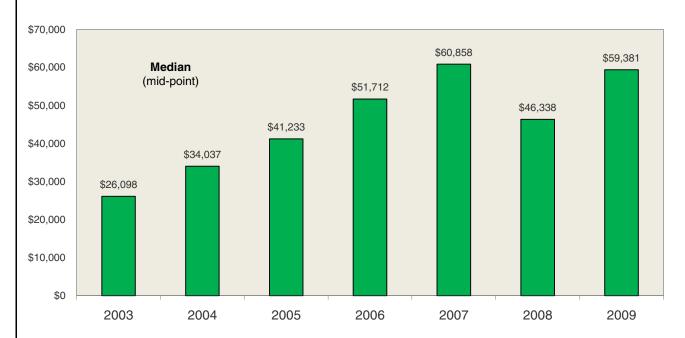
Factors That Affect 401(k) Participants' Account Balances

In any given year, the change in a participant's account balance is the sum of three factors:

- New contributions by the participant or the employer or both;
- Total investment return on account balances, which depends on the performance of financial markets and on the allocation of assets in an individual's account; and
- Withdrawals, borrowing, and loan repayments.

Figure 5
401(k) Account Balances^a Among 401(k) Participants
Present From Year-End 2003 Through Year-End 2009^b





Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a Account balances are participant account balances held in 401(k) plans at the participants' current employers and are net of plan loans. Retirement savings held in plans at previous employers or rolled over into IRAs are not included.

b The analysis is based on a sample of 4.3 million participants with account balances at the end of each year from 2003 through 2009.

			Figur	re 6				
	Average Acc	count Balar			icipants Pre	sent From		
	Year-End 2003	3 Through `	Year-End 20	09, ^a by Parti	cipant Age	and Tenure ^b	I	
Age Group ^b	Tenure (years) ^b	2003	2004	2005	2006	2007	2008	2009
20s	All	\$3,563	\$6,864	\$10,560	\$15,367	\$20,371	\$15,598	\$24,462
	>5–10	\$3,426	\$6,845	\$10,686	\$15,646	\$20,836	\$16,231	\$25,106
30s	All	\$17,662	\$24,712	\$31,789	\$41,791	\$51,619	\$36,842	\$54,167
	>5–10 >10–20	\$12,292 \$24,369	\$19,146 \$31,749	\$26,262 \$38,859	\$35,771 \$49,558	\$45,274 \$59,904	\$32,772 \$42,388	\$49,458 \$60,422
40s	All >5–10	\$45,200 \$19,808	\$56,402 \$29,200	\$66,814 \$38,613	\$82,748 \$51,191	\$97,805 \$63,501	\$68,502 \$44,546	\$95,185 \$67,254
	>10-20 >20-30	\$44,740	\$55,572	\$65,760	\$81,347	\$96,200	\$66,077	\$92,998
50s	>20–30 All	\$80,015 \$77.059	\$94,757 \$92.137	\$107,253 \$105.335	\$128,751 \$126,711	\$148,253 \$146.877	\$106,955 \$106.850	\$138,566 \$139,932
	>5–10 >10–20	\$23,033 \$52.192	\$33,161 \$64.371	\$43,255 \$75.666	\$56,672 \$92,748	\$70,032 \$108,990	\$49,179 \$74.249	\$74,908 \$106,334
	>20–30	\$113,980	\$133,432	\$149,906	\$178,125	\$204,604	\$150,642	\$190,348
00-	>30	\$115,624	\$133,968	\$148,592	\$174,777	\$198,844	\$152,786	\$184,329
60s	All >5–10	\$100,344 \$24,715	\$115,145 \$35,016	\$126,536 \$45,010	\$145,818 \$58,024	\$161,576 \$70,230	\$118,283 \$47,817	\$144,004 \$71,527
	>10–20 >20–30	\$55,734 \$122,455	\$68,281 \$140,700	\$79,374 \$154,882	\$95,303 \$178,266	\$109,103 \$196,658	\$71,684 \$142,913	\$100,363 \$171,744
	>30	\$160,083	\$176,702	\$187,193	\$209,625	\$227,070	\$175,890	\$197,472
All ^a	All	\$60,144	\$72,173	\$82,768	\$99,644	\$115,257	\$83,161	\$109,723

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

			Figu	re 7						
	Percent Change in Average Account Balances Among 401(k) Participants									
Prese	Present From Year-End 2003 Through Year-End 2009, ^a by Participant Age and Tenure ^b									
Age Group ^b	Tenure (years) ^b	2003–2004	2004–2005	2005–2006	2006–2007	2007–2008	2008-2009	2003-2009		
20s	AII	92.6%	53.8%	45.5%	32.6%	-23.4%	56.8%	586.6%		
	>5–10	99.8%	56.1%	46.4%	33.2%	-22.1%	54.7%	632.8%		
30s	All	39.9%	28.6%	31.5%	23.5%	-28.6%	47.0%	206.7%		
	>5–10	55.8%	37.2%	36.2%	26.6%	-27.6%	50.9%	302.4%		
	>10–20	30.3%	22.4%	27.5%	20.9%	-29.2%	42.5%	147.9%		
40s	All	24.8%	18.5%	23.8%	18.2%	-30.0%	39.0%	110.6%		
	>5–10	47.4%	32.2%	32.6%	24.0%	-29.8%	51.0%	239.5%		
	>10–20	24.2%	18.3%	23.7%	18.3%	-31.3%	40.7%	107.9%		
	>20–30	18.4%	13.2%	20.0%	15.1%	-27.9%	29.6%	73.2%		
50s	All	19.6%	14.3%	20.3%	15.9%	-27.3%	31.0%	81.6%		
	>5–10	44.0%	30.4%	31.0%	23.6%	-29.8%	52.3%	225.2%		
	>10–20	23.3%	17.5%	22.6%	17.5%	-31.9%	43.2%	103.7%		
	>20–30	17.1%	12.3%	18.8%	14.9%	-26.4%	26.4%	67.0%		
	>30	15.9%	10.9%	17.6%	13.8%	-23.2%	20.6%	59.4%		
60s	All	14.8%	9.9%	15.2%	10.8%	-26.8%	21.7%	43.5%		
	>5–10	41.7%	28.5%	28.9%	21.0%	-31.9%	49.6%	189.4%		
	>10–20	22.5%	16.2%	20.1%	14.5%	-34.3%	40.0%	80.1%		
	>20–30	14.9%	10.1%	15.1%	10.3%	-27.3%	20.2%	40.3%		
	>30	10.4%	5.9%	12.0%	8.3%	-22.5%	12.3%	23.4%		
All ^a	All	20.0%	14.7%	20.4%	15.7%	-27.8%	31.9%	82.4%		

^a The analysis is based on a sample of 4.3 million participants with account balances at the end of each year from 2003 through 2009.

^b Age and tenure groups are based on participant age and tenure at year-end 2009.

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a The analysis is based on a sample of 4.3 million participants with account balances at the end of each year from 2003 through 2009.

b Age and tenure groups are based on participant age and tenure at year-end 2009.

The change in any individual participant's account balance is influenced by the magnitudes of these three factors relative to the starting account balance. For example, a contribution of a given dollar amount produces a larger growth rate when added to a smaller account. On the other hand, investment returns of a given percentage produce larger dollar increases (or decreases) when compounded on a larger asset base.

All told, from year-end 2003 through year-end 2009, the average account balance among the group of consistent participants grew 82.4 percent, rising from \$60,144 at year-end 2003 to \$109,723 at year-end 2009 (Figures 5 and 7). This translates into an annual average growth rate of 10.5 percent over the six-year period. The median account balance (or midpoint, with half above and half below) among this consistent group also grew, more than doubling from \$26,098 in 2003 to \$59,381 in 2009 (an annual average growth rate of 14.7 percent; Figure 5).

Among the consistent group, there was a wide range of individual participant experience, often influenced by the relationship among the three factors mentioned above: contributions, investment returns, and withdrawal and loan activity. Participants who were younger or had fewer years of tenure experienced the largest increases in average account balance between year-end 2003 and year-end 2009. For example, the average account balance of participants in their 20s rose 586.6 percent (a 37.9 percent annual average growth rate) between the end of 2003 and the end of 2009 (Figures 6 and 7). Because younger participants' account balances tended to be small (Figure 6), contributions produced significant account balance growth. In contrast, the average account balance of older participants or those with longer tenures showed more modest growth (Figure 7). For example, the average account balance of participants in their 60s increased 43.5 percent (a 6.2 percent annual average growth rate) between year-end 2003 and year-end 2009. Investment returns, rather than annual contributions, generally account for most of the change in accounts with larger balances. In addition, participants in their 60s tend to have a higher propensity to make withdrawals.²⁷

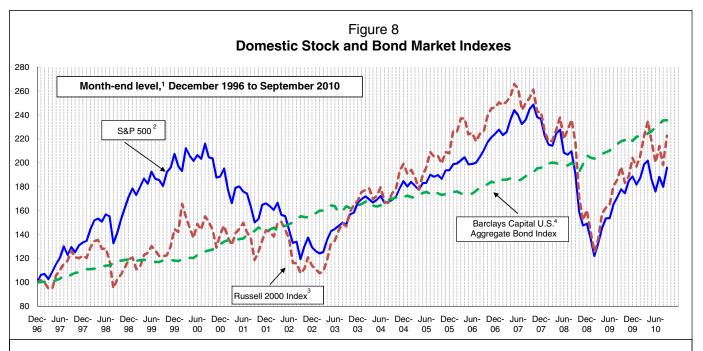
These changes in participant account balances also reflect changes in asset values during the six-year time period (Figure 8). Although asset allocation varied with age and many participants held a range of investments, the impact of stock market performance showed through in 401(k) accounts because 401(k) plan participants tended to be heavily invested in equity securities. At year-end 2009, whether looking at the 2003–2009 consistent group or the entire EBRI/ICI 401(k) database, equity securities—equity funds, the equity portion of balanced funds, ²⁸ and company stock—represented about 60 percent of 401(k) plan participants' assets. ²⁹ The asset allocation of participants in the consistent group varied with participant age, a pattern that is also observed in the cross-sectional EBRI/ ICI 401(k) database. Younger participants generally tended to favor equity and balanced funds, while older participants were more likely to invest in fixed-income securities such as bond funds, GICs and other stable value funds, or money funds.

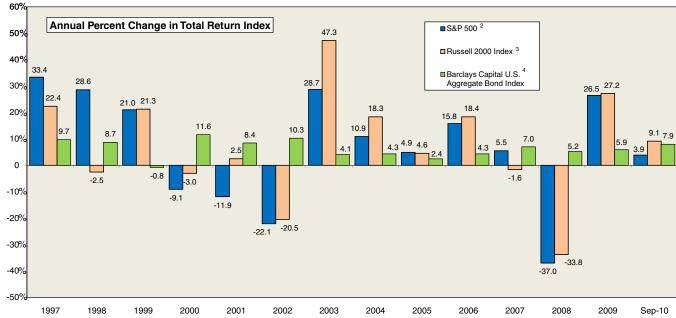
Given these investment patterns, the growth pattern of 401(k) balances is influenced by stock market returns. As stock market values generally moved upward between 2003 and 2007, the average account balance of the 2003–2009 consistent group rose, on average, 17.7 percent per year over that four-year time period. In 2008, stock market performance turned sharply negative, with the S&P 500 total return index falling 37.0 percent (only in 1931, when the total return on large-company stock fell 43.3 percent, did that measure perform as poorly on an annual basis as the market did in 2008)³⁰ and the Russell 2000 Index falling 33.8 percent (Figure 8). In 2008, the average 401(k) account balance of the 2003–2009 consistent group fell by a smaller amount—27.8 percent—likely reflecting diversified portfolios and ongoing contributions.³¹ In 2009, the stock market rose and the average 401(k) account balances of the 2003–2009 consistent group increased 31.9 percent.

Year-End 2009 Snapshot of 401(k) Participants' Account Balances

Definition of 401(k) Account Balance

In any given year, the EBRI/ICI 401(k) database provides a snapshot of the 401(k) account balances across all active participants' accounts. The database contains only the account balances held in the 401(k) plans at participants' current employers and reflects the entrance of new plans and new participants and the exit of participants who retire or change jobs. Retirement savings held in plans at previous employers or rolled over into IRAs are not included in the database. Furthermore, account balances are net of unpaid loan balances. Because of all these factors, it is not correct to





Sources: Bloomberg, Barclays Global Investors, Frank Russell Company, and Standard & Poor's.

¹ All indexes are set to 100 in December 1996.

 $^{^{2}}$ The S&P 500 is an index of 500 stocks chosen for market size, liquidity, and industry group representation.

³ The Russell 2000 Index measures the performance of the 2,000 smallest U.S. companies (based on total market capitalization) included in the Russell 3000 Index (which tracks the 3,000 largest U.S. companies).

⁴ Formerly the Lehman Brothers U.S. Aggregate Bond Index, the Barclays Capital U.S. Aggregate Bond Index is composed of securities covering government and corporate bonds, mortgage-backed securities, and asset-backed securities index (rebalanced monthly by market capitalization). The index's total return consists of price appreciation/depreciation plus income as a percentage of the original investment.

presume that the change in the average or median account balance for the database as a whole reflects the experience of "typical" 401(k) plan participants.

Size of 401(k) Account Balances

At year-end 2009, the average account balance was \$58,351 and the median account balance was \$17,794 (Figure 9). There is wide variation in 401(k) plan participants' account balances at year-end 2009. Almost three-quarters of the participants in the 2009 EBRI/ICI 401(k) database had account balances that were lower than \$58,351, the size of the average account balance. In fact, 38.9 percent of participants had account balances of less than \$10,000, while 16.6 percent of participants had account balances greater than \$100,000 (Figure 10). The variation in account balances partly reflects the effects of participant age, tenure, salary, contribution behavior, rollovers from other plans, asset allocation, withdrawals, loan activity, and employer contribution rates. This research report examines the relationship between account balances and participants' age, tenure, and salary.

Relationship of Age and Tenure to Account Balances

There is a positive correlation between age and account balance among participants covered by the 2009 database.³² Examination of the age composition of account balances finds that 52 percent of participants with account balances of less than \$10,000 were in their 20s or 30s (Figure 11). Similarly, 59 percent of participants with account balances greater than \$100,000 were in their 50s or 60s. The positive correlation between age and account balance is expected because younger workers are likely to have lower incomes and to have had less time to accumulate a balance with their current employer. In addition, they are less likely to have rollovers from a previous employer's plan in their current plan accounts.

There is also a positive correlation between account balance and tenure among participants represented by the 2009 database. A participant's tenure with an employer serves as a proxy for the length of time a worker has participated in the 401(k) plan.³³ Indeed, 61 percent of participants with account balances of less than \$10,000 had five or fewer years of tenure, while 79 percent of participants with account balances greater than \$100,000 had more than 10 years of tenure (Figure 12).³⁴ Examining the interaction of both age and tenure with account balances reveals that, for a given age group, average account balances tend to increase with tenure. For example, the average account balance of participants in their 60s with up to two years of tenure was \$23,796, compared with \$198,993 for participants in their 60s with more than 30 years of tenure (Figure 13).³⁵ Similarly, the average account balance of participants in their 40s with up to two years of tenure was \$16,146, compared with \$125,257 for participants in their 40s with more than 20 years of tenure.

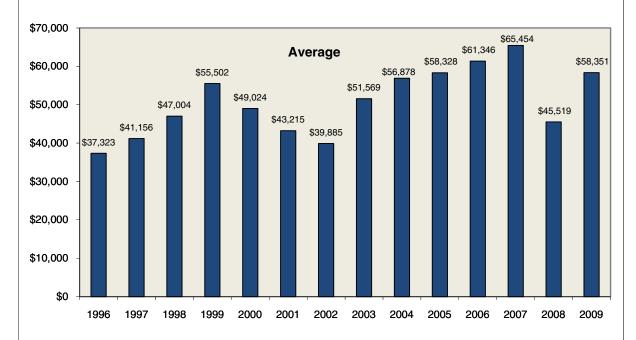
The distribution of account balances underscores the effects of age and tenure on account balances. In a given age group, shorter tenure tends to mean that a higher percentage of participants will have account balances of less than \$10,000. For example, 85 percent of participants in their 20s with two or fewer years of tenure had account balances of less than \$10,000 in 2009, compared with 57 percent of participants in their 20s with between five and 10 years of tenure (Figure 14). Older workers display a similar pattern. For example, 59 percent of participants in their 60s with two or fewer years of tenure had account balances of less than \$10,000. In contrast, only 17 percent of those in their 60s with more than 20 years of tenure had account balances of less than \$10,000.

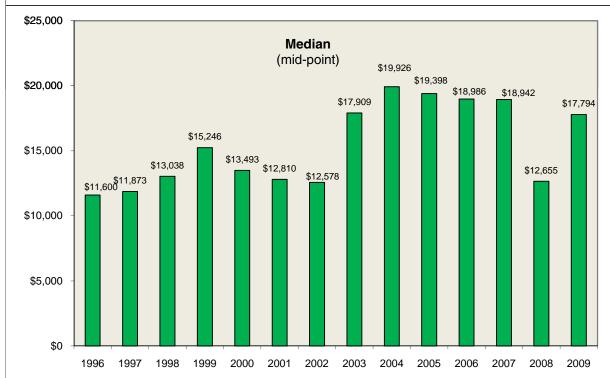
In a given age group, longer tenure tends to mean that a higher percentage of participants will have account balances greater than \$100,000. For example, 16 percent of participants in their 60s with five to 10 years of tenure had account balances in excess of \$100,000 in 2009 (Figure 15). However, 43 percent of participants in their 60s with between 20 and 30 years of tenure with their current employer had account balances greater than \$100,000. The percentage increases to 49 percent for participants in their 60s with more than 30 years of tenure.

Relationship Between Account Balances and Salary

Participants' account balances vary not only with age and tenure, but also with salary. Figure 16 reports the account balances of longer-tenured participants at their current employers' 401(k) plans. Retirement savings held at previous employers or amounts rolled over to IRAs are not included in the analysis. To capture as long a savings history as

Figure 9
Snapshot of Year-End 401(k) Account Balances
401(k) plan participant account balances,* 1996–2009

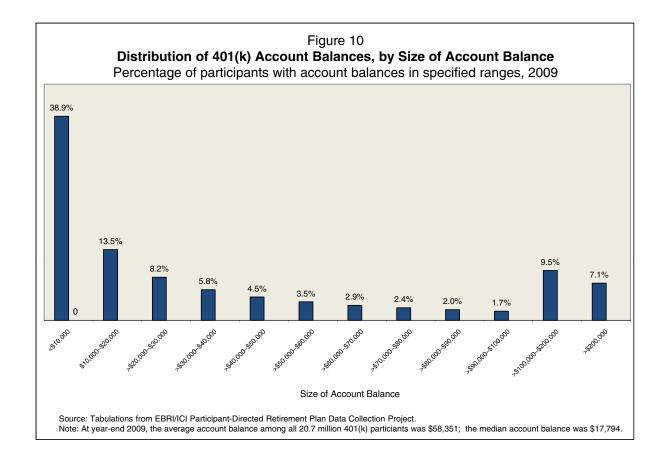




Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

*Account balances are participant account balances held in 401(k) plans at the participants' current employers and are net of plan loans. Retirement savings held in plans at previous employers or rolled over into IRAs are not included.

Note: The sample of participants changes over time.



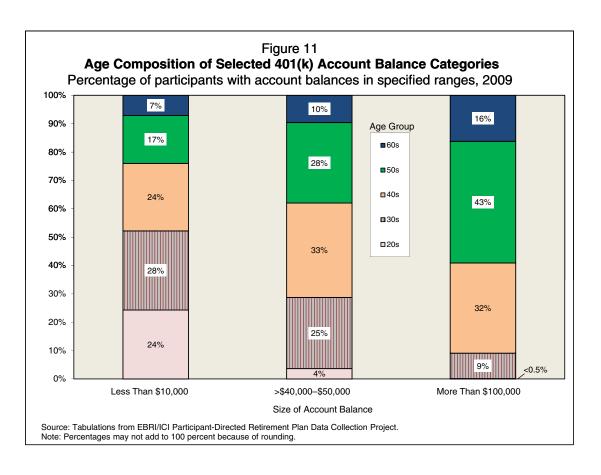
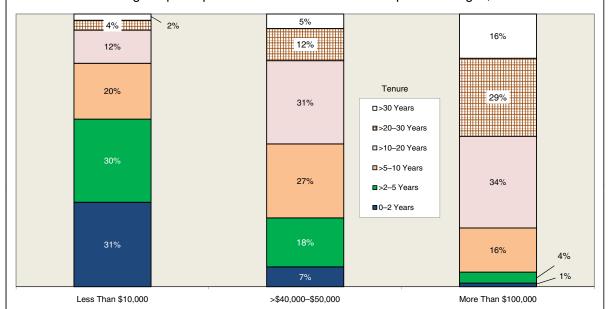


Figure 12 **Tenure Composition of Selected 401(k) Account Balance Categories**Percentage of participants with account balances in specified ranges, 2009



Size of Account Balance

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

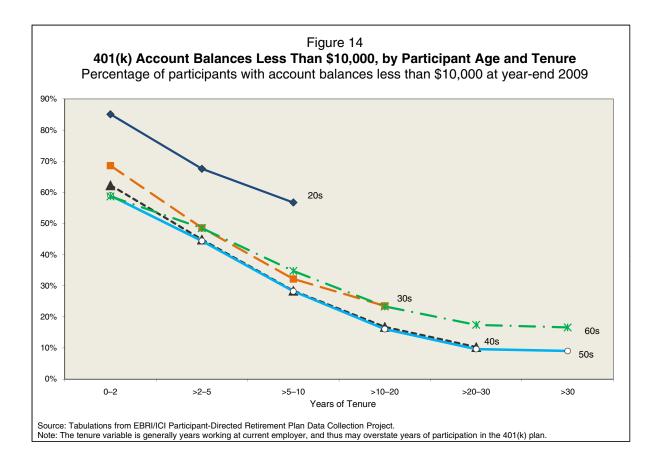
Note: Percentages do not add to 100 percent because of rounding. Job tenure is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.

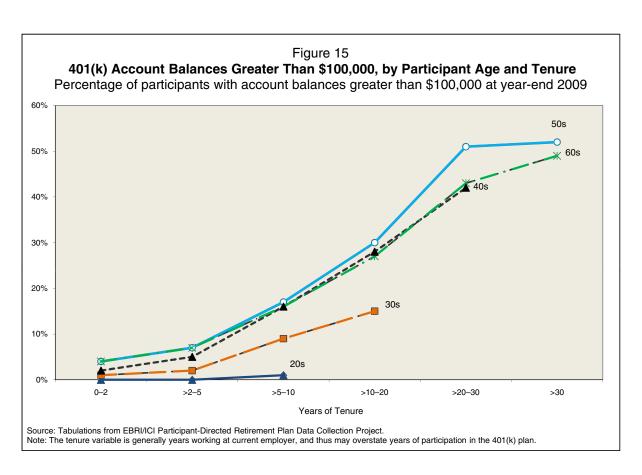
		Figure 13						
401(k) Account Balances Increase With Age and Tenure								
Average 401(k) account balance, by age and tenure, 2009								
		Tenure	(years)					
0–2	>2-5	>5–10	>10–20	>20–30				
		Average 401(k) ac	401(k) Account Balances Increase Average 401(k) account balance, b	401(k) Account Balances Increase With Age and Average 401(k) account balance, by age and tenure Tenure (years)				

			Terrure	(years)		
Age Group	0–2	>2–5	>5–10	>10–20	>20–30	>30
20s	\$4,976	\$10,064	\$14,920			
30s	\$11,052	\$20,355	\$36,091	\$50,696		
40s	\$16,146	\$26,975	\$49,222	\$82,127	\$125,257	
50s	\$20,817	\$30,768	\$54,169	\$92,304	\$171,290	\$179,150
60s	\$23,796	\$30,990	\$51,887	\$86,694	\$155,662	\$198,993

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: At year-end 2009, the average account balance among all 20.7 million 401(k) particiants was \$58,351; the median account balance was \$17,794. The tenure variable is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.





possible, only long-tenured participants are included in this analysis. However, it is important to note that the tenure variable is the time that individuals have been at their current jobs and may not reflect the length of time they have participated in a 401(k) plan (particularly among older participants, since 401(k) plans were introduced only about 29 years ago).³⁷

Older, longer-tenured, and higher-income participants tend to have larger account balances, which are important for meeting their income-replacement needs in retirement.³⁸ For longer-tenured participants in their 20s with salaries between \$20,000 to \$40,000, the median account balance was \$5,778 in 2009 (Figure 16). Longer-tenured participants in their 20s earning more than \$100,000 had a median account balance of \$57,935. Among longer-tenured participants in their 60s with \$20,000 to \$40,000 in salary in 2009, the median account balance was \$49,178. For longer-tenured participants in their 60s earning more than \$100,000, the median account balance was \$327,871.

The ratio of participant account balance to salary is positively correlated with age and tenure.³⁹ Participants in their 60s—having had more time to accumulate assets—tend to have higher ratios, while those in their 20s had the lowest ratios (Figure 17). In addition, for any given age and tenure combination, the ratio of account balance to salary varies somewhat with salary. For example, among participants in their 20s, the ratio tends to increase slightly with salary for low-to-moderate salary groups (Figure 18). However, at high salary levels the ratio tends to decline somewhat. A similar pattern occurs among participants in their 60s (Figure 19).⁴⁰

Year-End 2009 Snapshot of 401(k) Asset Allocation

As tends to occur when the stock market rises in value, the percentage of 401(k) assets invested in equities rose in 2009. At year-end 2009, 41 percent of 401(k) plan participants' account balances was invested in equity funds, on average, compared with 37 percent at year-end 2008, 48 percent at year-end 2007, and 40 percent at year-end 2002 (Figure 20, top panel). Altogether, equity securities—equity funds, the equity portion of balanced funds, ⁴¹ and company stock—represented about 60 percent of 401(k) plan participants' assets.

Changes in Asset Allocation Between Year-End 2008 and Year-End 2009

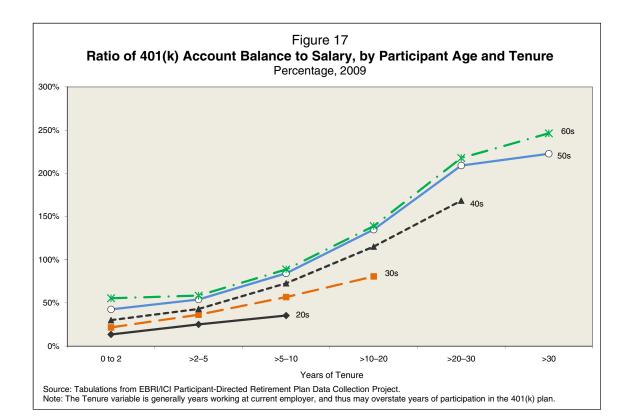
Investment performance likely explains much of the changes in 401(k) participants' asset allocations over time. Much of the movement in the largest component, equity funds, tends to reflect overall equity market prices, which generally rose from 1996 through 1999, before falling through 2002, rising again from 2003 through 2007, then dropping in 2008, and rising in 2009 (Figures 8 and 20). At year-end 2009, equity funds were 41 percent of the assets in the EBRI/ICI 401(k) database, compared with a 37 percent share at year-end 2008. Balanced funds, which invest in equities and fixed-income securities, also increased in share, accounting for 17 percent of the assets in the database at year-end 2009. Despite the increases in shares of equity and balanced funds and the decreases in the shares of bond funds, GICs and other stable value funds, and money funds, most 401(k) participants appeared not to have made dramatic shifts in their asset allocations in 2009.

Transaction activity is not tracked in the EBRI/ICI 401(k) database; nevertheless, some participant asset allocation activity can be inferred by analyzing the year-end snapshots of a consistent group of participants. For example, participant action can be discerned by studying the cases of a change from either a 0 percent (none) or a 100 percent allocation to any other allocation. Between year-end 2008 and year-end 2009, among the 16.7 million 401(k) participants with account balances in both years, the percentages of participants holding either all or none of their account balances in any particular investment option were little changed (Figure 20, lower panel). For example, at year-end 2008, 40.2 percent of these participants held no equity funds. At year-end 2009, 38.5 percent continued to hold no equity funds, but 1.7 percent of participants were holding equity funds at year-end 2009 when they had held none at year-end 2008. Conversely, the asset allocation to equity funds changed for 4.7 percent of 401(k) participants from holding equity funds at year-end 2008 to holding none at year-end 2009. On net, the percentage of participants holding no equity funds edged up only slightly, from 40.2 percent to 43.2 percent between year-end 2008 and year-end 2009 (Figure 20, lower panel).

Figure 16
Median Account Balance ^a Among Longer-Tenured ^b Participants, by Age and Salary, 2009
Participant Age Group

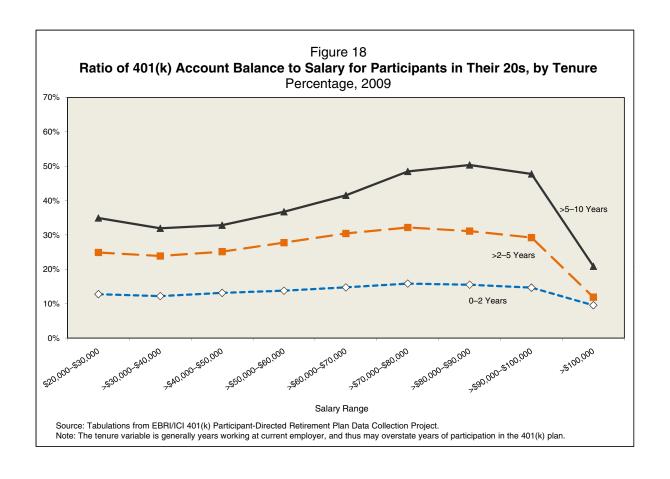
	Participant Age Group							
Salary Range	20s	30s	40s	50s	60s			
\$20,000-\$40,000	\$5,778	\$14,378	\$38,847	\$53,239	\$49,178			
>\$40,000–\$60,000	\$12,673	\$26,824	\$60,760	\$81,450	\$81,700			
>\$60,000-\$80,000	\$29,612	\$50,318	\$107,614	\$135,800	\$139,928			
>\$80,000-\$100,000	\$44,780	\$84,982	\$164,466	\$196,485	\$212,205			
>\$100,000	\$57,935	\$130,689	\$251,767	\$318,340	\$327,871			

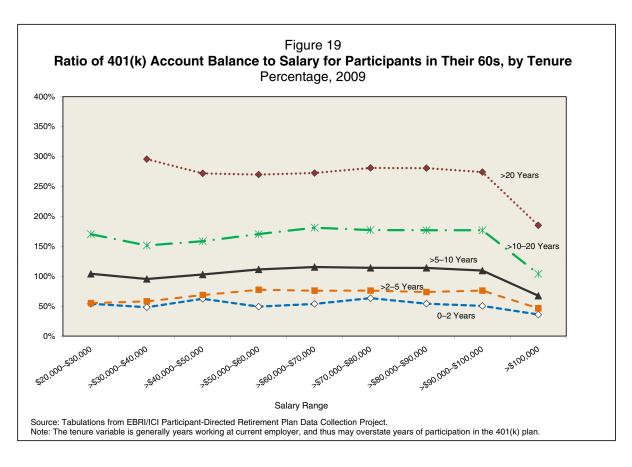
Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

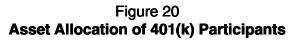


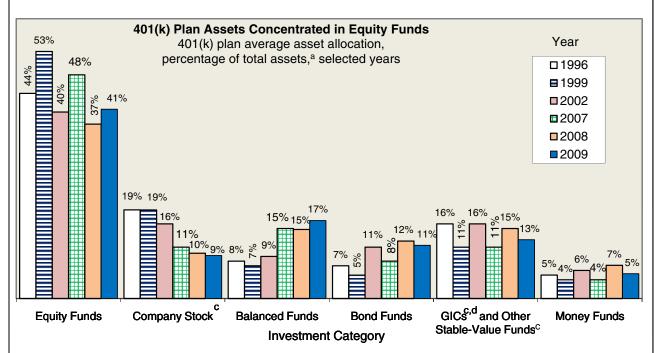
^a Account balances are based on administrative records and cover the account balance at the 401(k) plan participant's current employer. Retirement savings held in plans at previous employers or rolled over into IRAs are not included. Account balances are net of loan balances.

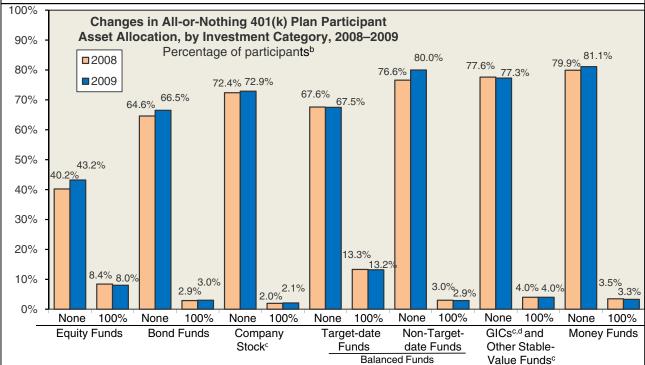
b Longer-tenured participants are used in this analysis to capture as long a work and savings history as possible. The tenure variable tends to be years with the current employer rather than years of participation in the 401(k) plan. Particularly among older participants, job tenure may not reflect length of participation in the 401(k) plans; the regulations for the 401(k) plans were introduced about 28 years ago.











Investment Category

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

^a Minor investment options are not shown; therefore, percentages do not add to 100 percent. Percentages are dollar-weighted averages. ^b Includes the 16.7 million participants with accounts at the end of each year from 2008 through 2009. A given participant may be counted in multiple investment categories. For example, a participant who is 100 percent invested in equities will be counted as "none" in each of the other investment categories.

^c Not all participants are offered this investment option. See Figure 22.

^d GICs are guaranteed investment contracts.

Similarly, there was a small decline in the percentage of participants allocating 100 percent of their accounts to equity funds (Figure 20, lower panel). At year-end 2008, 8.4 percent of participants with accounts in both 2008 and 2009 were 100 percent invested in equity funds. At year-end 2009, 7.2 percent continued to hold 100 percent of their accounts in equity funds. In addition, 0.9 percent of participants had increased their asset allocation to equity funds to 100 percent at year-end 2009 from lower allocations at year-end 2008. However, 1.1 percent of participants reduced their allocation to equity funds from 100 percent to less than all of their account. On net, the percentage of participants with their full account balance allocated to equity funds edged down slightly in 2009 to 8.0 percent of participants.

The net changes in percentages of participants 100 percent invested in the non-equity fund EBRI/ICI investment categories were generally small. The largest net change involved the share of participants completely eschewing non-target-date balanced funds, which increased 3.4 percentage points between 2008 and 2009 (Figure 20, lower panel). At year-end 2008, 76.6 percent of participants held no non-target-date balanced funds. At year-end 2009, 80.0 percent of participants held no non-target-date balanced funds. The second-largest net change in asset allocation to non-equity fund investments involved the share of participants completely eschewing bond funds, which increased 1.9 percentage points between 2008 and 2009 (Figure 20, lower panel). At year-end 2008, 64.6 percent of participants held no bond funds. At year-end 2009, 62.0 percent of participants continued to hold no bond funds, but 2.6 percent of participants held at least some of their accounts in bond funds at year-end 2009 when they had held no bond funds at year-end 2008. On net, the percentage of participants holding no bond funds increased to 66.5 percent at year-end 2009. Between year-end 2008 and year-end 2009, on net, the percentage of participants allocating 100 percent of their account balance to bond funds edged up from 2.9 percent to 3.0 percent of participants.

In sum, the EBRI/ICI 401(k) database does not contain information on participant transaction activity but can be used to analyze the year-end asset allocations of the consistent group of participants with accounts at year-end 2008 and year-end 2009. The analysis suggests that there is no evidence of a significant shift by a large percentage of participants away from their year-end 2008 asset allocations.

Asset Allocation and Participant Age

As in previous years, the database for year-end 2009 finds that participants' asset allocation varied considerably with age. ⁴⁷ Younger participants tended to favor equity funds, while older participants were more likely to invest in fixed-income securities such as bond funds, GICs and other stable value funds, or money funds (Figure 21). For example, among participants in their 20s, the average allocation to equity and balanced funds was 73 percent of assets, compared with 47 percent of assets among participants in their 60s. Among participants in their 20s, the average allocation to equity funds was 38 percent of assets, compared with 32 percent of assets among participants in their 60s. Younger participants also had higher allocations to balanced funds, particularly to target-date funds. A target-date, or lifecycle fund pursues a long-term investment strategies, using a mix of asset classes that follow a predetermined reallocation, typically rebalancing to shift their focus from growth to income over time. ⁴⁸ At year-end 2009, nearly 10 percent of 401(k) assets in the database were invested in target-date funds. Among participants in their 20s, nearly 24 percent of their 401(k) assets were invested in target-date funds, while among participants in their 60s, almost 8 percent of their 401(k) assets was invested in target-date funds.

Asset Allocation and Investment Options

The investment options that a plan sponsor offers significantly affect how participants allocate their 401(k) assets. Figure 22 presents the distribution of plans, participants, and assets by four combinations of investment offerings. The first category is the base group, which consists of plans that do not offer company stock, GICs, or other stable-value funds. Thirty percent of participants in the 2009 database were in these plans, which generally offer equity funds, bond funds, money funds, and balanced funds as investment options. Another 24 percent of participants were in plans that offer GICs and other stable-value funds as an investment option, in addition to the "base" options. Alternatively, 16 percent of participants were in plans that offer company stock, but no stable-value products, while the remaining 30 percent of participants were offered both company stock and stable-value products, in addition to the base options.

Figure 21

Average Asset Allocation of 401(k) Accounts, by Participant Age

Percentage of account balances, 2009

Non-Target-date

	Equity	Target-date	Balanced	Bond	Money	GICs ^b /Stable-	Company			
Age Group	Funds	Funds ^a	Funds	Funds	Funds	Value Funds	Stock	Other	Unknown	Total c
20s	38.3%	23.5%	11.2%	7.7%	3.5%	5.5%	7.3%	1.2%	2.1%	100%
30s	48.3%	13.5%	7.7%	9.2%	3.8%	5.7%	8.0%	2.1%	2.1%	100%
40s	47.3%	9.9%	7.1%	9.9%	4.2%	8.3%	9.4%	2.6%	1.6%	100%
50s	39.0%	8.7%	7.2%	12.0%	5.4%	13.5%	10.2%	2.9%	1.5%	100%
60s	32.2%	7.6%	6.9%	13.9%	7.3%	19.9%	8.3%	2.9%	1.2%	100%
All	40.6%	9.5%	7.2%	11.4%	5.3%	12.6%	9.2%	2.7%	1.6%	100%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

	Figure 22		
Distribution of 401(k) Plans, Pa	rticipants, and Asse	ts, by Investme	nt Options, 2009
Investment Options Offered by Plan	Plans	Participants	Assets
Equity, bond, money, and/or balanced funds Of which: target-date funds ^a an option	27,879 21,466	6,276,906 4,690,890	\$298,127,169,373 \$216,951,883,385
Equity, bond, money, and/or balanced funds, and GICs ^b and/or other stable value funds Of which: target-date funds ^a an option Equity, bond, money, and/or balanced funds,	22,404 17,197	4,988,736 3,945,915	\$250,001,456,068 \$192,078,616,530
and company stock Of which: target-date funds ^a an option	644 479	3,223,670 1,934,680	\$192,188,040,515 \$126,937,250,457
Equity, bond, money, and/or balanced funds, and company stock, and GICs ^D and/or other stable value funds	925	6,254,419	\$470,098,152,981
Of which: target-date funds ^a an option	731	4,213,175	\$325,628,206,556
All	51,852	20,743,731	1,210,414,818,938
Of which: target-date funds ^a an option	39,873	14,784,660	861,595,956,927
		Percentage of	
Investment Options Offered by Plan	Percentage of plans	participants	Percentage of assets
Equity, bond, money, and/or balanced funds	53.8%	30.3%	24.6%
Of which: target-date funds ^a an option	41.4%	22.6%	17.9%
Equity, bond, money, and/or balanced funds,			
and GICs ^b and/or other stable value funds	43.2%	24.0%	20.7%
Of which: target-date funds ^a an option	33.2%	19.0%	15.9%
Equity, bond, money, and/or balanced funds,			
and company stock	1.2%	15.5%	15.9%
Of which: target-date funds an option	0.9%	9.3%	10.5%
Equity, bond, money, and/or balanced funds, and company stock, and GICs ^b and/or			
other stable value funds	1.8%	30.2%	38.8%
Of which: target-date funds ^a an option	1.4%	20.3%	26.9%
All ^c	100%	100%	100%
Of which: target date funds ^a an option	76.9%	71.3%	71.2%

aA target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

^bGICs are guaranteed investment contracts.

^cRow percentages may not add up to 100 percent because of rounding. Percentages are dollar-weighted averages.

^a A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

^b GICs are guaranteed investment contracts.

^cColumn percentages may not add to 100 percent because of rounding

Target-date funds were available in 77 percent of 401(k) plans in the year-end 2009 database (Figure 22), up from 75 percent of plans in the year-end 2008 EBRI/ICI 401(k) database⁴⁹ and 67 percent of plans in the year-end 2007 EBRI/ICI 401(k) database.⁵⁰ These plans offered target-date funds to 71 percent of the participants in 2009.⁵¹ Among participants offered target-date funds, 46 percent held them at year-end 2009. Target-date fund assets represented 13 percent of the assets of plans offering such funds in their investment lineups.

Asset Allocation by Investment Options and Age, Salary, and Plan Size

As discussed above, asset allocation varies with participant age. Thus, Figure 23 presents the analysis of asset allocation by investment options and also by participants' age. Salary information is available for a subset of participants in the 2009 EBRI/ICI 401(k) database. Because asset allocation is influenced by the investment options available to participants, Figure 24 presents asset allocation by salary range and by investment options. Participant asset allocation also varies with plan size (Figure 25, top panel), but much of the variation can be explained by differences in the investment options offered by plan sponsors. For example, the percentage of plan assets invested in company stock rises with plan size. A portion of this trend occurs because few small plans offered company stock as an investment option. For example, less than 1 percent of participants in small plans were offered company stock as an investment option, while 66 percent of participants in plans with more than 5,000 participants were offered company stock as an investment option in 2009. Thus, to analyze the potential effect of plan size, the remaining panels of Figure 25 group plans by investment options and plan size.

Distribution of Equity Fund Allocations and Participant Exposure to Equities

The year-end 2009 EBRI/ICI 401(k) database shows that, on average, 41 percent of participant account balances were allocated to equity funds (Figure 21). However, individual asset allocations varied widely across participants. For example, about 45 percent of participants held no equity funds, while 15 percent of participants held more than 80 percent of their balances in equity funds (Figures 26 and 27). Furthermore, the percentage of participants holding no equity funds varied with age, with 60 percent of participants in their 20s, 40 percent of participants in their 40s, and 48 percent of participants in their 60s holding no equity funds. The percentage of 401(k) participants holding no equity funds also varied with tenure, with participants with five or fewer years of tenure more likely not to be invested in equity funds. The percentage of participants holding no equity funds tends to fall as salary increases (Figure 27).

Participants with no equity fund balances may still have exposure to the stock market through company stock or balanced funds, which include target-date funds. Indeed, 71 percent of participants with no equity funds had investments in either company stock or balanced funds at year-end 2009 (Figure 28). For example, 77 percent of participants in their 20s without equity funds held equities through company stock, balanced funds, or both. Indeed, 48 percent of participants in their 20s without equity funds held target-date funds—which will tend to be highly concentrated in equity securities for that age group—as their only equity investment. Another 8 percent of participants in their 20s without equity funds had equity exposure through non-target-date balanced funds, and another 5 percent held company stock as their only equity investment. Sixteen percent held some combination of target-date funds, non-target-date balanced funds, or company stock as their equity investment. As a result, many participants with no equity funds had exposure to equity-related investments through company stock or balanced funds or both (Figure 29).

Among individual participants, the allocation of account balances to equities (equity funds, company stock, and the equity portion of balanced funds) varies widely around the average of 60 percent for all participants in the 2009 database. Thirty-nine percent of participants had more than 80 percent of their account balances invested in equities, while 13 percent held no equities at all in 2009 (Figure 30).

Distribution of Participants' Balanced Fund Allocations by Age

Individual 401(k) participants' asset allocation to balanced funds varies widely around an average of 17 percent (Figure 20, top panel). For example, half of participants held no balanced funds, while 22 percent of participants held more than 80 percent of their accounts in balanced funds in 2009 (Figure 31). At year-end 2009, half of 401(k) participants held balanced funds, similar to 51 percent of participants at year-end 2008. 52 At year-end 2009, balanced fund use by

		F	igure 23				
Average Asset Allocati	on of 40)1(k) Accou	nts, by Particip	ant Age	and Inv	estment Opti	ons
-			ccount balances, ^a	_		-	
	Equity	Target-date	Non-Target-date	Bonds	Money	GICs ^c /Stable-	Company
	Funds	Funds ^b	Balanced Funds	Funds	Funds	Value Funds	Stock
nvestment Options, All Ages							
Equity, bond, money, and/or							
balanced funds	48.4%	13.2%	7.0%	18.6%	8.5%		
Equity, bond, money, and/or balanced funds; and GICs ^c							
and/or other stable-value funds	42.3%	10.0%	10.1%	8.5%	3.3%	21.6%	
Equity, bond, money, and/or balanced funds; and company							
stock	35.9%	9.9%	4.4%	14.7%	10.0%		19.7%
Equity, bond, money, and/or balanced funds, company stock;							
and GICs ^c and/or other stable-			/				
value funds	36.6%	6.8%	6.9%	7.1%	2.3%	20.7%	15.7%
Plans Without Company Stock, GI	Cs, ^c or Otl	her Stable-Va	lue Funds				
Age Group							
20s	44.3%	27.5%	7.3%	11.4%	6.0%		
30s	53.9%	16.6%	6.1%	13.4%	5.9%		
40s	53.7%	12.9%	6.7%	15.1%	6.8%		
50s	46.6%	12.7%	7.3%	19.4%	9.1%		
60s	40.3%	11.3%	7.1%	24.5%	11.8%		
Plans With GICs ^c and/or Other Stat			40.00/	7.40/	0.00/	40.40/	
20s	39.2%	20.9%	19.6%	7.1%	2.0%	10.1%	
30s	50.1%	13.9%	12.1%	7.3%	2.5%	11.4%	
40s 50s	50.0% 41.6%	10.8% 9.5%	10.3% 9.8%	7.7% 9.1%	2.8% 3.4%	15.9% 23.8%	
60s	33.7%	9.5 <i>%</i> 7.8%	9.4%	9.1%	4.3%	31.8%	
Plans With Company Stock	33.7 /0	7.070	J.4 70	3.070	7.570	31.070	
20s	33.6%	30.5%	5.0%	8.5%	4.9%		12.3%
30s	44.0%	14.9%	4.3%	10.2%	5.5%		16.4%
40s	42.1%	10.4%	4.4%	11.7%	6.9%		19.7%
50s	33.8%	8.4%	4.8%	16.1%	10.4%		21.2%
60s	26.7%	7.5%	4.1%	19.7%	16.4%		19.8%
Plans With Company Stock and Gl	Cs. ^c and/c	r Other Stabl	e-Value Funds				
20s	35.8%	18.7%	11.8%	5.1%	2.0%	9.5%	15.2%
30s	45.0%	10.6%	7.9%	6.5%	2.0%	10.0%	15.0%
40s	43.7%	7.3%	6.9%	6.8%	2.0%	13.6%	16.4%
50s	35.4%	6.2%	6.8%	7.7%	2.5%	21.3%	16.8%
60s	28.3%	5.2%	6.5%	7.4%	2.9%	32.6%	14.2%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

^a Minor investment options are not shown; therefore, row percentages will not add to 100 percent. Percentages are dollar-weighted averages.

^a A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

^c GICs are guaranteed investment contracts.

Percentage notes that the principal participal partic		Allocation of	101(k) Acc	Figure 24	Solo Solor	oval bac v	oitaO taemte	0
GICS ⁴ /Stable- Value Funds 23.2% 22.3% 21.6% 21.1% 18.3% 16.7% 17.2% 20.7%			Percentage	of account balance	es, ^a 2009			2
23.2% 23.5% 22.3% 21.6% 21.6% 21.1% 18.3% 16.7% 17.2% 20.7%	<u>ء</u> (Equity	Target-date	Non-Target-date	Bonds	Money	GICs ^d /Stable-	Company
23.2% 23.5% 22.3% 21.6% 21.1% 18.3% 16.7% 17.2% 20.7%	Salary"	Funds	Funds	Balanced Funds	Funds	Funds	Value Funds	Stock
23.2% 23.5% 21.3% 21.3% 21.3% 18.3% 16.7% 17.2% 20.7%	Plans Without Company Stock,	GICS, or Other :	stable-value run		:	i		
23.2% 23.5% 22.3% 21.6% 21.3% 21.1% 18.3% 16.7% 17.2% 20.7%	\$20,000-\$40,000	41.6%	21.9%	%8:9	19.0%	8.7%		
23.2% 22.3% 21.6% 21.3% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$40,000–\$60,000	42.0%	19.4%	%9:9	18.2%	8.3%		
23.2% 23.5% 21.3% 21.3% 21.3% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$60,000—\$80,000	47.6%	17.5%	%2.9	17.4%	8.2%		
23.2% 23.5% 21.3% 21.3% 21.3% 21.16% 18.3% 16.7% 17.2% 20.7%	>\$80,000-\$100,000	49.6%	16.8%	5.4%	17.7%	8.0%		
23.2% 23.5% 22.3% 21.6% 21.3% 21.16% 18.3% 16.7% 17.2% 20.7%	>\$100,000	50.4%	13.7%	%9.9	19.0%	7.3%		
23.2% 23.5% 22.3% 21.6% 21.3% 21.1% 18.3% 16.7% 17.2% 20.7%	All	48.4%	13.2%	7.0%	18.6%	8.5%		
23.2% 23.5% 22.3% 21.6% 21.3% 21.1% 18.3% 16.7% 17.2% 20.7%	_	Stable-Value Fund	sp					
23.5% 22.3% 21.6% 21.6% 21.1% 18.3% 16.7% 17.2% 20.7%	\$20,000-\$40,000	35.4%	16.4%	9.5%	9.5%	3.3%	23.2%	
22.3% 21.6% 21.6% 21.0% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$40,000–\$60,000	39.0%	14.2%	11.0%	8.9%	3.1%	23.5%	
21.6% 21.6% 21.0% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$60,000–\$80,000	43.8%	11.8%	10.2%	8.9%	3.1%	22.3%	
21.6% 21.6% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$80,000–\$100,000	44.5%	11.1%	%2.6	9.5%	2.5%	21.6%	
24.0% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$100,000	45.8%	86.6	9.5%	%6.6	2.9%	21.3%	
24.0% 21.1% 18.3% 16.7% 17.2% 20.7%	All	42.3%	10.0%	10.1%	8.5%	3.3%	21.6%	
24.0% 21.1% 18.3% 16.7% 17.2% 20.7%	Plans With Company Stock							
24.0% 21.1% 18.3% 16.7% 17.2% 20.7%	\$20,000-\$40,000	32.8%	13.5%	3.2%	13.3%	12.9%		20.8%
24.0% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$40,000–\$60,000	37.8%	11.3%	4.8%	15.3%	9.9%		17.2%
24.0% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$60,000—\$80,000	39.9%	86.6	2.3%	14.1%	9.4%		17.6%
24.0% 21.1% 18.3% 16.7% 17.2% 20.7%	>\$80,000-\$100,000	43.5%	6.7%	2.0%	11.7%	9.7%		20.2%
24.0% 21.1% 18.3% 16.7% 17.2%	>\$100,000	40.3%	7.8%	2.7%	13.8%	7.1%		20.3%
24.0% 21.1% 18.3% 16.7% 20.7%	All	35.9%	86.6	4.4%	14.7%	10.0%		19.7%
24.0% 21.1% 18.3% 16.7% 17.2%	Plans With Company Stock and	d GICs ^d and/or Oth	her Stable-Value	Funds				
21.1% 18.3% 16.7% 17.2%	\$20,000-\$40,000	30.9%	8.2%	7.1%	5.5%	1.8%	24.0%	20.0%
18.3% 16.7% 17.2% 20.7%	>\$40,000–\$60,000	33.4%	7.1%	7.9%	6.1%	2.6%	21.1%	19.6%
16.7% 17.2% 20.7%	>\$60,000—\$80,000	36.4%	7.7%	7.9%	%2'9	2.6%	18.3%	18.8%
17.2% 20.7%	>\$80,000-\$100,000	39.0%	7.1%	7.8%	7.2%	2.5%	16.7%	18.3%
. 50.7%	>\$100,000	45.0%	%8.9	2.5%	7.3%	2.4%	17.2%	18.1%
Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.	All	36.6%	%8.9	%6.9	7.1%	2.3%	20.7%	15.7%
	Source: Tabulations from EBRI/ICI Par	ticipant-Directed Reti	rement Plan Data Co	ollection Project.				
				ייייייייייייייייייייייייייייייייייייייי				

^b Salary information is available for a subset of participants in the EBRI/ICI database.
^c A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.
^d GICs are guaranteed investment contracts.

Figure 25

Average Asset Allocation of 401(k) Accounts, by Plan Size and Investment Options

Percentage of account balances, a 2009

Non-Target-

			Non-Target-				
	Equity	Target-date	date Balanced	Bond	Money	GICs ^c /Stable-	Company
	Funds	Funds ^b	Funds	Funds	Funds	Value	Stock
Plan Size by Number of Pa	articipants						
All Plans							
1–100	44.5%	10.5%	13.1%	12.2%	10.0%	6.8%	0.1%
101–500	45.2%	12.7%	8.9%	14.0%	8.2%	6.9%	0.6%
501–1,000	44.2%	12.9%	7.9%	13.7%	7.0%	8.2%	2.6%
1,001–5,000	43.2%	12.1%	7.2%	12.7%	5.7%	9.8%	4.9%
>5,000	39.0%	8.1%	6.6%	10.5%	4.3%	15.0%	12.9%
All	40.6%	9.5%	7.2%	11.4%	5.3%	12.6%	9.2%
Plans Without Company S							
1–100	45.2%	16.3%	7.2%	15.4%	11.7%		
101–500	46.8%	15.5%	6.3%	17.4%	10.0%		
501–1,000	47.2%	14.5%	6.6%	18.5%	9.3%		
1001–5,000	48.2%	14.0%	7.3%	17.9%	8.2%		
>5,000	50.4%	9.4%	7.0%	20.8%	6.4%		
All	48.4%	13.2%	7.0%	18.6%	8.5%		
Plans With GICs ^c /Stable-V	alue Funds						
1–100	43.7%	1.6%	22.4%	7.5%	7.4%	16.9%	
101–500	43.8%	7.1%	14.5%	8.1%	4.7%	19.8%	
501-1,000	43.8%	10.9%	10.5%	7.7%	3.7%	20.6%	
1,001-5,000	42.3%	12.9%	8.2%	8.1%	2.5%	22.2%	
>5,000	42.9%	10.8%	8.2%	9.4%	2.6%	23.5%	
All	42.3%	10.0%	10.1%	8.5%	3.3%	21.6%	
Plans With Company Stoc	k						
1-100 ^d	38.2%	8.9%	4.3%	12.4%	13.9%		15.9%
101–500	39.4%	11.4%	5.0%	13.9%	12.4%		12.5%
501-1,000	37.5%	11.4%	3.8%	14.1%	10.4%		19.0%
1,001–5,000	41.5%	8.7%	5.3%	15.9%	8.4%		15.7%
>5,000	34.2%	10.2%	4.2%	14.3%	10.4%		20.9%
All	35.9%	9.9%	4.4%	14.7%	10.0%		19.7%
Plans With Company Stoc	k and GICs	Stable-Value	Funds				
1–100	32.7%	13.7%	6.0%	9.5%	6.8%	16.6%	7.3%
101–500	34.8%	11.9%	9.2%	8.0%	4.0%	17.9%	6.6%
501-1,000	33.9%	11.4%	8.6%	6.7%	3.4%	17.4%	13.5%
1,001-5,000	36.9%	10.4%	7.1%	6.8%	3.5%	18.1%	11.4%
>5,000	37.0%	6.3%	6.8%	7.2%	2.2%	21.2%	16.5%
All	36.6%	6.8%	6.9%	7.1%	2.3%	20.7%	15.7%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

^a Minor investment options are not shown; therefore, row percentages will not add to 100 percent. Percentages are dollar-weighted averages.

^a A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

^c GICs are guaranteed investment contracts.

^d Because few plans fall into this category, these percentages may be heavily influenced by a few outliers.

	Asset All	ocation [)istributio	n of 401(k	Figur () Account	Figure 26 count Balances	Figure 26 Asset Allocation Distribution of 401(k) Account Balances to Equity Funds, by Participant Age	/ Funds, b	y Particip	ant Age	
				Perce Percent	Percentage of participants, and 2009 Percentage of Account Balance Invested in	rticipants, ^{4,1} it Balance Inve	Percentage of participants, and 2009 Percentage of Account Balance Invested in Equity Funds	, Funds			
Age Group	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	51–60%	61–70%	71–80%	81–90%	91–100%
20s	%0.09	2.9%	2.3%	3.1%	3.1%	3.7%	4.2%	4.0%	4.1%	3.8%	8.8%
30s	43.8%	3.5%	3.2%	4.1%	4.4%	2.6%	%0.9	%0.9	%8:9	5.2%	11.8%
40s	39.7%	4.1%	3.6%	4.5%	4.8%	6.2%	6.5%	6.4%	%9.9	5.1%	12.6%
50s	41.3%	2.5%	4.3%	5.1%	5.3%	%9.9	6.4%	%0.9	2.5%	3.7%	10.6%
809	47.8%	2.6%	4.4%	2.0%	2.0%	5.8%	5.3%	4.3%	3.9%	2.6%	10.3%
All	44.8%	4.2%	3.6%	4.4%	4.6%	5.7%	2.9%	2.6%	2.6%	4.3%	11.1%

Source: Tabulations from EBRI/ICI 401(k) Participant-Directed Retirement Plan Data Collection Project.

^a The analysis includes the 20.7 million participants in the year-end 2009 EBRI/ICI database.

^b Row percentages may not add to 100 percent because of rounding.

Note: "Equity funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in equities.

participants was about evenly split between target-date funds and non-target-date balanced funds: 33 percent of 401(k) participants held target-date funds, 20 percent held non-target-date balanced funds, and nearly 3 percent held both. The increase in balanced fund use between year-end 2008 and year-end 2009 resulted from the increased use of target-date funds; at year-end 2008, 31 percent of 401(k) participants held target-date funds.

Target-date fund use varies with participant age and tenure. Younger participants were more likely to hold target-date funds than older participants. At year-end 2009, 44 percent of participants in their 20s held target-date funds, compared with 24 percent of participants in their 60s in 2009 (Figure 31). More recently hired participants were more likely to hold target-date funds than participants with more years on the job: at year-end 2009, 47 percent of participants with two or fewer years of tenure held target-date funds, compared with 29 percent of participants with five to 10 years of tenure, and 19 percent of participants with more than 30 years of tenure (Figure 32).

Distribution of Participants' Company Stock Allocations by Age

Participants' allocations to company stock remained in line with previous years. Forty-six percent (or 9.5 million) of the 401(k) participants in the 2009 EBRI/ICI 401(k) database were in plans that offered company stock as an investment option (Figure 22). Among these participants, 72 percent held 20 percent or less of their account balances in company stock, including 48 percent who held none (Figure 33). On the other hand, about 5 percent had more than 80 percent of their account balances invested in company stock.

Asset Allocation of Recently Hired Participants

Comparing snapshots of newly hired 401(k) plan participants' asset allocations provides further insight into the recent investment allocation activity of plan participants. Balanced funds, which include target-date funds, have increased in popularity among 401(k) participants. Recently hired participants in 2009 tended to be more likely to hold balanced funds compared with recent hires in the past. Sixty-one percent of recently hired participants in 2009 held balanced funds, compared with 60 percent of recently hired participants in 2008, 53 percent of recent hires in 2007, 33 percent of recent hires in 2002, and 29 percent of recent hires in 1998 (Figure 34). At year-end 2009, 47 percent of recently hired 401(k) participants held target-date funds, while 17 percent held non-target-date funds, and 2 percent held both target-date and non-target-date balanced funds (Figure 35). All of the increase in balanced fund use among recently hired participants between year-end 2008 and year-end 2009 resulted from increased use of target-date funds: At year-end 2008, 44 percent of recently hired 401(k) participants held target-date funds, 19 percent held non-target-date balanced funds, and 2 percent held both.

Among those who held balanced funds, recently hired participants in 2009 were more likely to hold a high concentration of their accounts in balanced funds compared with past years. At year-end 2009, 61 percent of recently hired participants holding balanced funds had more than 90 percent of their account balance invested in balanced funds, compared with 56 percent in 2008, 48 percent in 2007, 43 percent in 2006, and 7 percent in 1998 (Figure 36). Concentration is highest among recently hired participants with target-date funds; at year-end 2009, 64 percent of recently hired participants holding target-date funds held more than 90 percent of their account balance in target-date funds (Figure 37). Forty-one percent of recently hired participants holding non-target-date balanced funds had more than 90 percent of their account balance invested in non-target-date balanced funds at year-end 2009.

Balanced fund, target-date fund, and non-target-date balanced fund use varied somewhat by age group among recently hired participants, and recently hired participants in their 20s were more likely to be highly concentrated in such funds. For example, 43 percent of recently hired participants in their 20s held more than 90 percent of their account balances in balanced funds, compared with 34 percent of recent hires in their 40s and 31 percent of recent hires in their 60s in 2009 (Figure 38). Concentrated target-date fund use ranged from 33 percent of recent hires in their 20s holding more than 90 per-cent of their account balances in target-date funds to 25 percent of recently hired participants in their 60s with that concentration. In addition, at year-end 2009, 42 percent of the account balances of recently hired participants in their 20s was invested in balanced funds, compared with 36 percent in 2008, 28 percent in 2007, 24 percent in 2006, 19 percent in 2005, and about 7 percent among that age group in 1998 (Figure 39). At year-end 2009, among recently hired participants in their 20s, target-date funds accounted for 75 percent of their balanced funds assets, or 31 percent of their account balances overall. The increase in asset allocation to balanced funds

Figure 27

Asset Allocation Distribution of 401(k) Participant Account Balance to Equity Funds, by Participant Age, Tenure, or Salary

Percentage of participants, 2009

Percentage of Account Balance Invested in Equity Funds

_	1 01001	nago or 7 locourt Bak	and in Equity	1 dilao
	Zero	1–20%	>20%-80%	>80%
All	44.8%	7.8%	31.8%	15.4%
Age Group				
20s	60.0%	5.2%	22.2%	12.6%
30s	43.8%	6.7%	32.4%	17.0%
40s	39.7%	7.7%	34.9%	17.7%
50s	41.3%	9.5%	34.9%	14.3%
60s	47.8%	10.0%	29.3%	12.9%
Tenure (years)				
0–2	59.0%	4.8%	22.9%	13.3%
>2–5	50.1%	5.7%	29.2%	15.0%
>5–10	40.9%	7.9%	35.2%	16.1%
>10–20	34.7%	9.8%	37.7%	17.7%
>20-30	34.1%	12.1%	38.3%	15.5%
>30	41.3%	12.6%	33.1%	13.0%
Salary				
\$20,000-\$40,000	51.4%	9.2%	28.7%	10.6%
>\$40,000-\$60,000	40.1%	11.0%	35.7%	13.1%
>\$60,000-\$80,000	32.4%	11.5%	41.4%	14.7%
>\$80,000-\$100,000	26.6%	11.6%	46.3%	15.5%
>\$100,000	22.9%	12.4%	48.1%	16.6%
>\$60,000—\$80,000 >\$80,000—\$100,000	32.4% 26.6%	11.5% 11.6%	41.4% 46.3%	14.7% 15.5%

 $Source: Tabulations\ from\ EBRI/ICI\ Participant-Directed\ Retirement\ Plan\ Data\ Collection\ Project.$

Note: Row percentages may not add to 100 percent because of rounding. "Equity funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in stocks.

The tenure variable is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.

Figure 28

Percentage of 401(k) Plan Participants Without Equity Fund Balances Who Have Equity Exposure, by Participant Age and Tenure, 2009

Percentage of Participants Without Equity Funds

		Percent	age of Participants w	ithout Equity Funds	
			Non-target-date		Combination of
	Company stock	Target-date funds ^b	balanced funds	Company stock	company stock and/or target-date funds, ^b and/or
	and/or balanced funds ^a	as only equity investment	as only equity investment	as only equity investment	non-target-date balanced funds
Age Group					
20s	77.4%	47.7%	8.0%	5.4%	16.3%
30s	75.4%	43.4%	5.9%	8.9%	17.2%
40s	71.7%	36.8%	5.5%	12.0%	17.4%
50s	67.9%	30.8%	5.1%	14.9%	17.0%
60s	60.5%	23.9%	5.6%	17.4%	13.5%
All	70.9%	36.9%	6.0%	11.6%	16.4%
Tenure (years)					
0–2	78.0%	52.5%	7.5%	3.5%	14.6%
>2-5	70.9%	40.2%	7.0%	4.5%	19.2%
>5–10	71.4%	29.4%	5.3%	17.2%	19.6%
>10-20	67.8%	22.9%	5.4%	22.0%	17.5%
>20-30	60.9%	16.6%	5.9%	21.8%	16.6%
>30	55.9%	13.6%	5.4%	23.0%	13.9%
All	70.9%	36.9%	6.0%	11.6%	16.4%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated. The tenure variable is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.

^a Components may not add to the total in the first column because of rounding.

b A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

		Averag	e Asset Allo luity Fund B	Figu cation for 4 alances, by	Figure 29 Average Asset Allocation for 401(k) Plan Participants Without Equity Fund Balances, by Participant Age or Tenure	rticipants Wit ge or Tenure	thout		
			Percer	ntage of acco	Percentage of account balances, 2009	2009			
	Target-Date Funds ^a	Non-Target-date Balanced Funds	Bond Funds	Money Funds	GICs ^b /Stable- Value Funds	Company Stock	Other	Unknown	Total ^c
Age Group									
20s	50.1%	20.6%	5.4%	5.4%	8.2%	7.1%	1.1%	2.1%	100%
30s	41.7%	15.2%	8.0%	8.1%	11.7%	10.0%	2.8%	2.4%	100%
40s	30.4%	12.2%	10.2%	9.5%	17.9%	13.3%	4.3%	2.1%	100%
50s	21.3%	9.6%	12.5%	10.9%	25.8%	13.6%	4.4%	1.6%	100%
809	14.6%	7.7%	14.6%	13.1%	34.2%	10.6%	4.0%	1.2%	100%
All ^d	24.2%	10.6%	11.9%	10.7%	24.8%	12.1%	4.0%	1.7%	100%
Tenure (years)	(1)								
0-2	49.0%	15.5%	8.9%	7.1%	11.7%	5.5%	1.0%	1.4%	100%
>2–5	45.5%	14.8%	8.4%	9.5%	11.9%	%9.9	1.8%	1.9%	100%
>5–10	34.1%	12.0%	11.4%	11.3%	17.1%	9.1%	2.9%	2.2%	100%
>10–20	26.5%	%9.6	11.6%	11.2%	21.6%	12.9%	4.4%	2.1%	100%
>20-30	16.9%	8.4%	12.1%	10.4%	29.6%	15.4%	5.5%	1.7%	100%
>30	10.4%	%8'9	12.5%	12.3%	37.9%	14.5%	4.6%	1.1%	100%
AIId	24.2%	10.6%	11.9%	10.7%	24.8%	12.1%	4.0%	1.7%	100%
Source: Tahula	tions from FRBI/ICI	Source: Tabulations from ERBI/ICI Participant-Directed Retirement Plan Data Collection Broject	tirement Plan Data	Collection Droips	+				

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

GICs are guaranteed investment contracts.

Row percentages may not add up to 100 percent because of rounding. Percentages are dollar-weighted averages.

^d The analysis includes the 9.3 million participants with no equity funds at year-end 2009.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated. The tenure variable is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.

occurred in the target-date fund category: Target-date fund assets accounted for 23 percent of the account balance assets of recently hired participants in their 20s at year-end 2008 (non-target-date funds were 13 percent at year-end 2008 and 10 percent at year-end 2009). ⁵⁴ The pattern of target-date and non-target-date fund use varied with participant age and lineup of plan investment options.

Comparing recently hired participants in 2009 with their similar age groups in 1998 also illustrates that asset allocation to company stock and equity funds tended to be lower in 2009 than in 1998, while asset allocation to fixed-income securities tended to increase (Figure 39). Recently hired 401(k) participants tended to be less likely to hold company stock (Figure 40) and tended not to hold a high concentration of their account balance in company stock (Figures 41 and 42). ⁵⁵

Year-End 2009 Snapshot of 401(k) Plan Loan Activity

Availability and Use of 401(k) Plan Loans by Plan Size

Sixty-one percent of the 401(k) plans for which loan data were available in the 2009 EBRI/ICI 401(k) database offered a plan loan provision to participants (Figure 43).⁵⁶ The loan feature was more commonly associated with large plans (as measured by the number of participants in the plan). Ninety-four percent of plans with more than 10,000 participants included a loan provision, compared with 35 percent of plans with 10 or fewer participants. There is modest variation in participant loan activity by plan size, ranging from 17 percent of participants with loans outstanding in 401(k) plans with 26–100 participants to 23 percent of participants in 401(k) plans with more than 5,000 participants (Figure 44). Loan ratios vary only slightly when participants are grouped based on the size of their 401(k) plans (as measured by the number of plan participants). Among participants in plans with 100 or fewer participants, the loan ratio was 18 percent of the remaining assets in 2009, while in plans with more than 10,000 participants, the loan ratio was 15 percent (Figure 45).

In the 14 years that the database has been tracking loan activity among 401(k) plan participants, there has been little variation. From 1996 through 2008, on average, less than one-fifth of 401(k) participants with access to loans had a loan outstanding. At year-end 2009, the percentage of participants offered loans with loans outstanding ticked up to 21 percent. However, not all participants have access to 401(k) plan loans—factoring in all 401(k) participants with and without loan access in the database, only 19 percent had a loan outstanding at year-end 2009.⁵⁷ On average, over the past 14 years, among participants with loans outstanding, about 14 percent of the remaining account balance was taken out as a loan (Figure 46). U.S. Department of Labor data indicate that loan amounts tend to be a negligible portion of plan assets and that very little of loan amounts gets converted into distributions in any given year (meaning that most loans are repaid).⁵⁸

401(k) Plan Loan Activity Varies W/with Participant Age, Tenure, Account Balance, and Salary

In the 2009 EBRI/ICI 401(k) database, 89 percent of participants were in plans offering loans. However, as has been the case for the 14 years that the database has tracked 401(k) plan participants, relatively few participants made use of this borrowing privilege. Nevertheless, loan activity ticked up in 2009. At year-end 2009, 21 percent of those eligible for loans had 401(k) plan loans outstanding (Figure 46). As in previous years, loan activity varies with age, tenure, account balance, and salary. Of those participants in plans offering loans, the highest percentages of participants with outstanding loan balances were among participants in their 30s, 40s, or 50s (Figure 47). In addition, participants with five or fewer years of tenure or with more than 30 years of tenure were less likely to use the loan provision than other participants. Only 16 percent of participants with account balances of less than \$10,000 had loans outstanding.

Average Loan Balances

Among participants with outstanding 401(k) loans at the end of 2009, the average unpaid balance was \$7,346, compared with \$7,191 in the year-end 2008 database (Figure 48). The median loan balance outstanding was \$3,972 at year-end 2009, compared with \$3,889 in the year-end 2008 database. With account balances generally higher on average in 2009 compared with 2008, the ratio of the loan outstanding to the remaining account balance edged down

average in 2009 compared with 2008, the ratio of the loan outstanding to the remaining account balance edged down in 2009 (Figures 46 and 49). In addition, as in previous years, there is variation around this average that corresponds with age (lower the older the participant), tenure (lower the higher the tenure of the participant), account balance (lower the higher the account balance), ⁵⁹ and salary (lower the higher the participant's salary). Overall, loans from 401(k) plans tended to be small, with the vast majority of 401(k) participants in all age groups having no loan at all (Figure 50).

Figure 30

Asset Allocation to Equities Varied Widely Among Participants

Asset allocation distribution of 401(k) participant account balance to equities, by age, percentage of participants, 2009

Percentage of Account Balance Invested in Equities

			0			
Age Group	Zero	1–20%	>20–40%	>40–60%	>60-80%	>80–100%
20s	13.6%	3.3%	3.6%	6.5%	18.8%	54.2%
30s	10.8%	4.2%	5.3%	9.0%	19.8%	51.0%
40s	11.2%	5.4%	6.3%	10.4%	27.4%	39.2%
50s	13.3%	7.8%	8.6%	18.2%	26.2%	26.0%
60s	18.9%	10.4%	12.9%	20.3%	15.2%	22.3%
All	13.1%	6.0%	7.1%	12.4%	22.8%	38.6%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: Row percentages may not add to 100 percent because of rounding.

					U	ıre 31					
Asse	et Allocat	ion Distr			-				alanced I	Funds, b	y Age
			Pε	ercentage	of 401(k)) Particip	ants, ^{a,b} 2	009			
Age			Per	rcentage of	Account E	Balance Inv	ested in Ba	alanced Fu	nds		
Group	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	51–60%	61–70%	71–80%	81–90%	91–100%
20s	39.5%	4.4%	3.9%	3.5%	2.2%	2.2%	3.1%	1.7%	1.7%	1.6%	36.1%
30s	46.4%	6.8%	5.8%	5.1%	3.1%	2.6%	2.7%	1.7%	1.7%	1.5%	22.7%
40s	50.5%	7.6%	6.0%	5.4%	3.3%	2.7%	2.5%	1.5%	1.5%	1.3%	17.5%
50s	53.1%	7.7%	5.8%	5.4%	3.4%	2.7%	2.5%	1.5%	1.4%	1.3%	15.3%
60s	59.0%	6.8%	4.7%	4.5%	2.9%	2.5%	2.2%	1.3%	1.2%	1.1%	13.8%
All	50.0%	6.9%	5.5%	4.9%	3.1%	2.6%	2.6%	1.5%	1.5%	1.4%	20.1%
Age			Perc	entage of A	Account Ba	lance Inve	sted in Tar	get-date Fu	ındsc		
Group	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	51–60%	61–70%	71–80%	81–90%	91–100%
20s	56.2%	2.5%	2.1%	2.0%	1.4%	1.4%	2.2%	1.2%	1.3%	1.4%	28.5%
30s	63.3%	4.1%	3.0%	2.6%	1.7%	1.6%	1.8%	1.2%	1.3%	1.2%	18.2%
40s	68.4%	4.5%	2.9%	2.6%	1.7%	1.5%	1.5%	1.0%	1.1%	1.0%	13.8%
50s	71.2%	4.6%	2.7%	2.4%	1.6%	1.4%	1.4%	0.9%	0.9%	0.9%	11.9%
60s	75.8%	3.9%	2.1%	1.9%	1.3%	1.2%	1.1%	0.7%	0.8%	0.8%	10.5%
All	67.4%	4.1%	2.7%	2.4%	1.6%	1.5%	1.6%	1.0%	1.1%	1.0%	15.8%
Age Percentage of Account Balance Invested in Non-Target-date Balanced Funds											
Group	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	51–60%	61–70%	71–80%	81–90%	91–100%
20s	80.9%	3.5%	2.6%	1.9%	1.0%	0.8%	0.9%	0.5%	0.4%	0.3%	7.2%
30s	79.9%	4.8%	3.7%	2.8%	1.4%	1.0%	0.9%	0.5%	0.4%	0.3%	4.2%
40s	79.2%	5.1%	4.0%	3.3%	1.6%	1.2%	1.0%	0.5%	0.4%	0.3%	3.4%
50s	79.0%	5.1%	4.0%	3.4%	1.8%	1.3%	1.1%	0.5%	0.4%	0.3%	3.1%
60s	80.9%	4.4%	3.3%	2.9%	1.7%	1.3%	1.1%	0.5%	0.4%	0.3%	3.0%
All	79.8%	4.7%	3.6%	3.0%	1.5%	1.1%	1.0%	0.5%	0.4%	0.3%	4.0%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

^a Equities include equity funds, company stock, and the equity portion of balanced funds. "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

^b Participants include the 20.7 million 401(k) plan participants in the year-end 2009 EBRI/ICI 401(k) database.

^a The analysis includes the 20.7 million 401(k) plan participants in the year-end 2009 EBRI/ICI 401(k) database.

^bRow percentages may not add up to 100 percent because of rounding.

aA target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

Tenure (years)	Ass	Figure 32 Asset Allocation Distribution of 401(k) Participant Account Balance to Balanced Funds, by Tenure	ion Distri	bution of	401(k) Paı	Figure 32	32 Iccount E	alance to	Balancec	l Funds, I	by Tenure	
Zero 1-10% 11-20% 21-30% 31-40% 4-1-80% 61-90% 71-80% 81-90% <th></th> <th></th> <th></th> <th></th> <th>Percent</th> <th>age of Partic</th> <th>ipants, ^{a,b} 2</th> <th>9009 ci botto</th> <th>(((((</th> <th></th> <th></th> <th></th>					Percent	age of Partic	ipants, ^{a,b} 2	9009 ci botto	(((((
4.9% 3.7% 3.5% 2.2% 2.3% 1.7% 1.7% 1.6% 45.4% 5.5% 5.0% 4.7% 2.9% 2.7% 2.8% 1.6% 1.9% 1.7% 52.6% 5.5% 5.0% 4.7% 2.9% 2.7% 2.8% 1.6% 1.9% 1.7% 1.7% 55.6% 5.6% 5.5% 3.4% 2.5% 2.4% 1.6% 1.5% 1.5% 63.2% 9.0% 6.5% 4.7% 3.4% 2.5% 1.9% 1.0% 1.5% 63.2% 9.2% 6.5% 4.7% 3.4% 2.5% 1.9% 1.1% 1.0% 1.0% 63.2% 9.2% 4.7% 3.4% 2.5% 1.9% 1.1% 1.0% 1.0% 50.0% 6.9% 4.7% 3.4% 2.5% 1.4% 1.0% 1.0% 1.0% 50.0% 6.9% 2.6% 1.1% 1.1% 1.0% 1.0% 1.1% 1.1% 1.0%	Tenure (vears)	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	51–60%	61–70%	71–80%	81–90%	91–100%
45.4% 5.5% 5.0% 4.7% 2.9% 2.8% 1.8% 1.9% 1.7% 1.2%	0-5	39.1%	4.0%	3.7%	3.5%	2.2%	2.3%	3.3%	1.7%	1.7%	1.6%	36.8%
52.6% 7.4% 6.1% 5.5% 3.4% 2.8% 2.6% 1.6% 1.5% 1.5% 55.8% 9.0% 6.5% 5.8% 3.5% 2.7% 1.4% 1.3% 1.2% 55.8% 9.0% 6.5% 5.8% 3.4% 2.7% 1.4% 1.3% 1.2% 63.2% 9.2% 6.5% 4.7% 3.1% 2.3% 1.5% 1.1% 1.0% 1.0% 60.0% 6.9% 5.5% 4.9% 3.1% 2.3% 1.5% 1.5% 1.4% 1.0% 1.0% 50.0% 6.9% 5.5% 4.9% 3.1% 2.3% 1.5% 1.5% 1.4% 1.4% 1.4% 1.4% 1.4% 1.0% 1.4% <td>>2–5</td> <td>45.4%</td> <td>2.5%</td> <td>2.0%</td> <td>4.7%</td> <td>2.9%</td> <td>2.7%</td> <td>2.8%</td> <td>1.8%</td> <td>1.9%</td> <td>1.7%</td> <td>25.5%</td>	>2–5	45.4%	2.5%	2.0%	4.7%	2.9%	2.7%	2.8%	1.8%	1.9%	1.7%	25.5%
55.8% 9.0% 6.5% 5.8% 3.5% 2.7% 2.4% 1.4% 1.3% 1.2% 58.9% 9.8% 6.5% 3.4% 2.5% 2.1% 1.2% 1.1% 1.0% 6.3% 5.5% 4.7% 3.4% 2.5% 1.5% 1.1% 1.0% 0.0% 50.0% 6.9% 5.5% 4.9% 3.1% 2.6% 1.5% 1.5% 1.0% 0.0% 50.0% 6.9% 5.5% 4.9% 3.1% 2.6% 1.6% 1.5% 1.5% 1.4% 1.0% 0.0% 50.0% 6.9% 5.5% 1.1-20% 2.1-30% 31-40% 4.1-50% 51-60% 61-70% 71-80% 1.1-8% <td>>5–10</td> <td>52.6%</td> <td>7.4%</td> <td>6.1%</td> <td>5.5%</td> <td>3.4%</td> <td>2.8%</td> <td>2.6%</td> <td>1.6%</td> <td>1.6%</td> <td>1.5%</td> <td>15.0%</td>	>5–10	52.6%	7.4%	6.1%	5.5%	3.4%	2.8%	2.6%	1.6%	1.6%	1.5%	15.0%
58.9% 6.8% 6.5% 3.4% 2.5% 2.1% 1.1% 1.1% 1.0% 1.0% 63.2% 6.3% 6.3% 1.3% 1.3% 1.3% 1.3% 1.0% 1.0% 0.0% 50.0% 6.9% 5.5% 4.9% 3.1% 2.3% 1.9% 1.1% 1.0% 0.0% 50.0% 6.9% 5.5% 4.9% 3.1% 2.6% 1.5% 1.5% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.4%	>10–20	25.8%	%0.6	6.5%	2.8%	3.5%	2.7%	2.4%	1.4%	1.3%	1.2%	10.4%
63.2% 9.2% 5.6% 4.7% 3.1% 2.3% 1.9% 1.1% 1.0% 0.9% 50.0% 6.9% 5.5% 4.9% 3.1% 2.6% 1.5% 1.5% 1.9% 1.9% 1.9% 50.0% 6.0% 5.5% 4.9% 3.1% 2.6% 1.5% 1.5% 1.4% 1.	>20-30	28.9%	9.8%	6.5%	5.5%	3.4%	2.5%	2.1%	1.2%	1.1%	1.0%	7.9%
50.0% 6.9% 5.5% 4.9% 3.1% 2.6% 1.5% 1.5% 1.4% 1.4% 50.0% 6.9% 5.5% 4.9% 3.1% 2.6% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.4% 1.5% 1.4% 1.2% 1.4% 1.3% 1.4% 1.3% 1.4% 1.3% 1.4% 1.5% 1.5% 1.2% 1.4% 1.3% 1.4% 1.3% 1.4%	>30	63.2%	9.2%	2.6%	4.7%	3.1%	2.3%	1.9%	1.1%	1.0%	%6.0	7.1%
Fercentage of Account Balance Invested in Target-Gate Funds* Zero 11–10% 11–20% 21–30% 31–40% 61–60% 61–70% 71–80% 81–90% 53.4% 2.6% 2.3% 2.3% 1.5% 1.5% 1.2% 1.4% 1.3% 62.9% 3.3% 2.6% 2.5% 1.7% 1.1% 1.3% 1.4% 1.3% 70.7% 4.4% 2.9% 2.6% 1.7% 1.1% 1.1% 1.4% 1.4% 1.4% 75.4% 2.9% 2.6% 1.8% 1.6% 1.1% 0.8% 0.8% 0.8% 76.3% 2.8% 2.8% 1.6% 1.1% 0.8% 0.8% 0.8% 0.8% 76.3% 2.8% 1.2% 1.4% 1.1%	All	20.0%	%6.9	5.5%	4.9%	3.1%	2.6%	2.6%	1.5%	1.5%	1.4%	20.1%
Zero 1-10% 11-20% 21-30% 31-40% 41-50% 51-60% 61-70% 71-80% 81-90% 53.4% 2.6% 2.3% 1.5% 1.5% 1.6% 2.5% 1.2% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.5% 1.5% 1.2% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.4% 1.3% 1.4% </td <td></td> <td></td> <td></td> <td></td> <td>Percentag</td> <td>e of Account B</td> <td>alance Investe</td> <td>ક્d in Target-da</td> <td>te Funds^c</td> <td></td> <td></td> <td></td>					Percentag	e of Account B	alance Investe	ક્d in Target-da	te Funds ^c			
53.4% 2.6% 2.3% 1.5% 1.6% 2.5% 1.2% 1.3% 1.3% 62.9% 3.3% 2.6% 1.5% 1.7% 1.6% 1.3% 1.4% 1.4% 70.7% 4.4% 2.9% 2.6% 1.7% 1.6% 1.5% 1.1% 1.4% 1.4% 75.4% 5.2% 2.9% 2.4% 1.6% 1.3% 1.1% 1.2% 1.1% 78.9% 5.5% 2.9% 2.4% 1.6% 1.1% 0.6% 0.6% 0.8% 81.4% 5.2% 1.8% 1.1% 1.0% 0.6% 0.6% 0.6% 81.4% 5.2% 1.2% 1.1% 1.0% 0.6% 0.6% 0.6% 67.4% 1.6% 1.2% 1.6% 1.6% 1.6% 0.6% 0.6% 0.6% 67.4% 1.2% 1.2% 1.6% 1.6% 1.6% 0.6% 0.6% 0.6% 67.4% 1.6% 1.6% 1.6%	Tenure (years)	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	21–60%	61–70%	71–80%	81–90%	91–100%
62.9% 3.3% 2.6% 2.5% 1.7% 1.7% 1.8% 1.3% 1.4% 1.4% 70.7% 4.4% 2.9% 2.6% 1.8% 1.6% 1.5% 1.1% 1.2% 1.1% 75.4% 5.2% 2.9% 2.6% 1.8% 1.6% 1.1% 0.8% 0.8% 0.8% 0.8% 78.9% 5.5% 2.8% 2.2% 1.4% 1.1% 0.6% 0.6% 0.6% 0.8% 81.4% 5.2% 2.3% 1.8% 1.2% 1.0% 0.6% 0.6% 0.6% 0.6% 67.4% 4.1% 2.2% 1.4% 1.0% 0.6% 0.5% 0.5% 0.5% 67.4% 4.1% 1.2% 1.6% 1.6% 0.8% 0.5% 0.5% 0.5% 78.6% 2.7% 1.4% 1.5% 1.6% 0.7% 0.4% 0.4% 0.5% 0.5% 83.5% 2.1% 1.2% 1.2% 1.0% 0.5%	0-2	53.4%	2.6%	2.3%	2.3%	1.5%	1.6%	2.5%	1.2%	1.4%	1.3%	29.9%
70.7% 4.4% 2.9% 2.6% 1.8% 1.6% 1.5% 1.1% 1.2% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.6% <t< td=""><td>>2–5</td><td>62.9%</td><td>3.3%</td><td>2.6%</td><td>2.5%</td><td>1.7%</td><td>1.7%</td><td>1.8%</td><td>1.3%</td><td>1.4%</td><td>1.4%</td><td>19.4%</td></t<>	>2–5	62.9%	3.3%	2.6%	2.5%	1.7%	1.7%	1.8%	1.3%	1.4%	1.4%	19.4%
75.4% 5.2% 2.9% 1.6% 1.3% 1.1% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.8% 0.6% <t< td=""><td>>5–10</td><td>70.7%</td><td>4.4%</td><td>2.9%</td><td>7.6%</td><td>1.8%</td><td>1.6%</td><td>1.5%</td><td>1.1%</td><td>1.2%</td><td>1.1%</td><td>11.2%</td></t<>	>5–10	70.7%	4.4%	2.9%	7.6%	1.8%	1.6%	1.5%	1.1%	1.2%	1.1%	11.2%
78.9% 5.5% 2.2% 1.4% 1.1% 1.0% 0.6% 0.6% 0.6% 81.4% 5.2% 2.3% 1.8% 1.2% 1.0% 0.6% 0.5% 0.5% 0.5% 81.4% 5.2% 2.3% 1.8% 1.2% 1.0% 0.5% 0.5% 0.5% 0.5% 67.4% 4.1% 2.7% 1.6% 1.6% 1.6% 1.0% 1.0% 1.0% 0.5% 0.3% 83.5% 2.7% 1.6% 0.8% 0.7% 0.7% 0.4% 0.3% 0.3% 0.4% 0.3% 79.6% 4.0% 3.4% 1.7% 1.2% 1.1% 0.5% 0.4% 0.4% 0.3% 77.3% 6.0% 4.5% 3.6% 2.1% 1.4% 1.1%	>10–20	75.4%	5.2%	2.9%	2.4%	1.6%	1.3%	1.1%	0.8%	0.8%	0.8%	%9'.
81.4% 5.2% 2.3% 1.8% 1.2% 1.0% 0.8% 0.5% 0.5% 0.5% 67.4% 4.1% 2.7% 1.6% 1.5% 1.6% 1.0% 0.5% 0.5% 67.4% 4.1% 2.7% 1.6% 1.5% 1.6% 1.0% 1.1% 1.0% Zero 1-10% 11-20% 21-30% 31-40% 41-50% 51-60% 61-70% 71-80% 81-90% 83.5% 2.7% 1.6% 0.8% 0.7% 0.8% 0.4% 0.3% 79.6% 4.0% 3.4% 2.7% 1.3% 1.0% 0.5% 0.4% 0.4% 77.3% 6.0% 4.5% 3.4% 1.7% 1.2% 0.5% 0.4% 0.3% 77.1% 6.5% 4.5% 3.6% 2.1% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.5% 1.3% 1.4% 1.1% 0.5% 0.4% 0.3% 7	>20-30	78.9%	2.5%	2.8%	2.2%	1.4%	1.1%	1.0%	%9.0	%9.0	%9.0	2.3%
67.4% 4.1% 2.4% 1.6% 1.5% 1.6% 1.1% 1.1% 1.0% Zero 1-10% 11-20% 21-30% 31-40% 41-50% 51-60% 61-70% 71-80% 81-90% 83.5% 2.7% 2.1% 0.8% 0.7% 61-70% 71-80% 81-90% 79.6% 4.0% 2.7% 1.3% 1.0% 0.5% 0.4% 0.3% 78.6% 5.1% 4.1% 3.4% 1.7% 1.2% 0.5% 0.4% 0.4% 77.3% 6.0% 4.5% 3.8% 2.0% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.5% 2.1% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.5% 1.9% 1.3% 0.5% 0.4% 0.3% 79.8% 4.7% 3.6% 1.9% 1.0% 0.5% 0.4% 0.3% 79.1% 6.0% 0.4% 0.5%	>30	81.4%	5.2%	2.3%	1.8%	1.2%	1.0%	%8.0	0.5%	0.5%	0.5%	4.7%
Percentage of Account Balance Invested in Non-Target-date Balanced Funds Zero 1–10% 11–20% 21–30% 31–40% 41–50% 51–60% 61–70% 71–80% 81–90% 79.6% 2.7% 1.6% 0.8% 0.7% 0.8% 0.4% 0.3% 78.6% 4.0% 3.4% 2.7% 1.3% 1.0% 0.5% 0.4% 0.4% 77.3% 6.0% 4.5% 3.8% 2.0% 1.4% 1.2% 0.5% 0.4% 0.3% 79.1% 6.0% 3.9% 3.2% 1.9% 1.3% 0.5% 0.4% 0.3% 79.1% 6.0% 3.9% 3.0% 1.3% 1.0% 0.5% 0.4% 0.3% 79.1% 4.7% 3.6% 1.9% 1.1% 0.5% 0.4% 0.3%	All	67.4%	4.1%	2.7%	2.4%	1.6%	1.5%	1.6%	1.0%	1.1%	1.0%	15.8%
Zero 1-10% 11-20% 21-30% 31-40% 41-50% 51-60% 61-70% 71-80% 81-90% 83.5% 2.7% 1.6% 0.8% 0.7% 0.8% 0.4% 0.4% 0.3% 79.6% 4.0% 3.4% 2.7% 1.3% 1.0% 0.5% 0.5% 0.4% 0.3% 77.3% 6.0% 4.5% 3.8% 2.0% 1.4% 1.2% 0.5% 0.4% 0.3% 77.1% 6.5% 4.5% 3.6% 2.1% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.9% 3.2% 1.9% 1.3% 0.5% 0.4% 0.3% 79.1% 4.7% 3.6% 1.5% 1.1% 1.0% 0.5% 0.4% 0.3%				Pe	rcentage of Ac	count Balance	Invested in No	on-Target-date	Balanced Fund	ş		
83.5% 2.7% 2.1% 1.6% 0.8% 0.7% 0.8% 0.4% 0.3% 0.3% 79.6% 4.0% 3.4% 1.3% 1.0% 1.0% 0.5% 0.4% 0.4% 78.6% 5.1% 4.1% 3.4% 1.7% 1.2% 1.1% 0.5% 0.4% 0.4% 77.3% 6.0% 4.5% 3.8% 2.0% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.5% 3.5% 1.3% 1.3% 1.0% 0.5% 0.4% 0.3% 79.8% 4.7% 3.6% 3.0% 1.5% 1.1% 0.5% 0.4% 0.3%	Tenure (years)	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	21–60%	61–70%	71–80%	81–90%	91–100%
79.6% 4.0% 3.4% 2.7% 1.3% 1.0% 1.0% 0.5% 0.5% 0.4% 78.6% 5.1% 4.1% 3.4% 1.7% 1.2% 1.1% 0.5% 0.4% 0.4% 77.3% 6.0% 4.5% 3.8% 2.0% 1.4% 1.2% 0.5% 0.4% 0.3% 79.1% 6.5% 4.5% 3.6% 2.1% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.9% 3.2% 1.3% 1.3% 1.0% 0.5% 0.4% 0.3% 79.8% 4.7% 3.6% 3.0% 1.5% 1.1% 0.5% 0.4% 0.3%	0-2	83.5%	2.7%	2.1%	1.6%	%8.0	%2'0	%8'0	0.4%	0.4%	0.3%	%2'9
78.6% 5.1% 4.1% 3.4% 1.7% 1.2% 1.1% 0.5% 0.4% 0.4% 77.3% 6.0% 4.5% 3.8% 2.0% 1.4% 1.2% 0.5% 0.4% 0.3% 77.1% 6.5% 4.5% 3.6% 2.1% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.9% 3.2% 1.3% 1.3% 1.0% 0.5% 0.4% 0.3% 79.8% 4.7% 3.6% 3.0% 1.5% 1.1% 1.0% 0.5% 0.4% 0.3%	>2–5	%9.62	4.0%	3.4%	2.7%	1.3%	1.0%	1.0%	0.5%	0.5%	0.4%	2.6%
-20 77.3% 6.0% 4.5% 3.8% 2.0% 1.4% 1.2% 0.5% 0.4% 0.3% -30 77.1% 6.5% 4.5% 3.6% 2.1% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.9% 3.2% 1.9% 1.3% 1.0% 0.5% 0.4% 0.3% 79.8% 4.7% 3.6% 3.0% 1.5% 1.1% 1.0% 0.5% 0.4% 0.3%	>5–10	%9'82	5.1%	4.1%	3.4%	1.7%	1.2%	1.1%	0.5%	0.4%	0.4%	3.4%
-30 77.1% 6.5% 4.5% 3.6% 2.1% 1.4% 1.1% 0.5% 0.4% 0.3% 79.1% 6.0% 3.9% 3.2% 1.9% 1.3% 1.0% 0.5% 0.4% 0.3% 79.8% 4.7% 3.6% 3.0% 1.5% 1.1% 1.0% 0.5% 0.4% 0.3%	>10–20	77.3%	%0.9	4.5%	3.8%	2.0%	1.4%	1.2%	0.5%	0.4%	0.3%	2.5%
79.1% 6.0% 3.9% 3.2% 1.9% 1.3% 1.0% 0.5% 0.4% 0.3% 79.8% 4.7% 3.6% 3.0% 1.5% 1.1% 1.0% 0.5% 0.4% 0.3%	>20-30	77.1%	6.5%	4.5%	3.6%	2.1%	1.4%	1.1%	0.5%	0.4%	0.3%	2.3%
79.8% 4.7% 3.6% 1.5% 1.1% 1.0% 0.5% 0.4% 0.3%	>30	79.1%	%0.9	3.9%	3.2%	1.9%	1.3%	1.0%	0.5%	0.4%	0.3%	2.3%
	All	79.8%	4.7%	3.6%	3.0%	1.5%	1.1%	1.0%	0.5%	0.4%	0.3%	4.0%

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated. The tenure variable is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.

^a The analysis includes the 20.7 million 401(k) plan participants in the year-end 2009 EBRI/ICI database.

^b Row percentages may not add up to 100 percent because of rounding.

A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

		Asset	Allocatio ompany \$	Asset Allocation Distribution of 401(k) Participant Account Balance to Company Stock in 401(k) Plans With Company Stock, by Age Percentage of 401(k) Participants, a.b. 2009 Percentage of Account Balance Invested in Company Stock	Figinition of 4(O1(k) Plan Re of 401(k) of Account E	Figure 33 n Distribution of 401(k) Participant Account Bal Stock in 401(k) Plans With Company Stock, by Percentage of 401(k) Participants, and 2009 Percentage of Account Balance Invested in Company Stock	cipant Ac ompany S ants, a,b 200	count Bal itock, by 1 09	ance to Age		
Age Group	Zero	1–10%	11–20%	1–10% 11–20% 21–30% 31–40% 41–50% 51–60% 61–70% 71–80% 81–90% 91–100%	31–40%	41–50%	21–60%	61–70%	71–80%	81–90%	91–100%
20s	%8'.09	11.0%	7.2%	5.3%	3.5%	4.9%	2.1%	1.0%	0.7%	0.5%	3.4%
30s	49.0%	14.3%	9.7%	7.8%	2.0%	4.5%	2.6%	1.5%	1.1%	0.8%	3.6%
40s	44.9%	15.9%	10.1%	8.0%	2.3%	4.4%	3.0%	1.9%	1.4%	1.0%	4.2%
20s	42.9%	17.3%	10.1%	7.9%	5.2%	4.1%	3.0%	2.0%	1.5%	1.1%	2.0%
809	46.6%	16.1%	8.8%	7.0%	4.4%	3.5%	2.7%	1.8%	1.4%	1.1%	6.5%
₹	47.7%	15.2%	9.4%	7.4%	4.9%	4.3%	2.7%	1.7%	1.2%	%6:0	4.5%
Source: Ta	bulations fron	n EBRI/ICIPa	articipant-Direc	Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project	t Plan Data C	ollection Proje	ct.				
^a The analys	is includes th€	9.5 million pa	articipants in p	^a The analysis includes the 9.5 million participants in plans with company stock at year-end 2009	anystock at y	ear-end 2009.					

All 28.9% 31.3% 29.1% 27.4% 33.0% 35.4% 39.3% 42.8% 47.6% 52.7% 59.9% 60.9 Source: Tabulations from EBRI/ICIParticipant-Directed Retirement Plan Data Collection Project. *The analysis includes participants with two or fewer years of tenure in the year indicated. *Balanced funds** include mutual funds hank collective trusts life insurance senarate accounts and any proofed investment product primarily invested in a mix of
et f

			Many Rece Percenta	Figure 35 any Recently Hired 401(k) Plan Participants Hold Target-date ^a Funds Percentage of recently hired participants, 2006, 2007, 2008, and 2009	401(k) Pl e	Figure 35 an Particip articipants,	ants Hold 2006, 200	Target-da)7, 2008, ลเ	ite ^a Funds	ω		
		Holding Balanced Funds	spund peou			Holding Lifecycle Funds ^a	ycle Funds ^a		Hok	ding Non-Life	Holding Non-Lifecycle Balanced Funds	Funds
Age Group	2006	2007	2008	2009	2006	2007	2008	2009	2006	2007	2008	2009
20s	48.5%	51.1%	%9.69	64.1%	29.4%	31.7%	46.5%	48.5%	22.5%	21.8%	19.3%	17.7%
30s	47.9%	54.2%	29.6%	61.2%	28.5%	35.1%	43.5%	47.3%	22.5%	22.2%	18.8%	16.4%
40s	46.6%	52.8%	22.8%	59.3%	27.4%	34.2%	41.8%	45.5%	21.3%	21.4%	18.3%	16.1%
50s	47.8%	53.4%	28.0%	28.7%	28.1%	34.9%	42.2%	45.2%	21.4%	21.2%	18.1%	15.5%
s09	45.5%	50.1%	53.9%	53.6%	26.1%	32.1%	38.4%	41.0%	19.8%	20.3%	17.3%	14.2%
All	47.6%	52.7%	29.9%	%6.09	28.3%	33.8%	43.6%	46.6%	21.9%	21.7%	18.7%	16.5%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a A lifecycle fund typically rebalances to an increasingly conservative portfolio as it approaches and passes the target date of the fund, which is usually included in the fund's name.

Note: The analysis includes the 2.8 million recently hired participants (those with two or fewer years of tenure) in 2006, the 3.8 million recently hired participants in 2009. "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

Row percentages may not add up to 100 percent because of rounding.

Figure 36

Recently Hired 401(k) Participants Now Hold Higher Concentrations in Balanced Funds^a

Percentage of recently hired participants holding balanced fund assets, a,b 1998, 2006, 2007, 2008, and 2009

Percentage of A	ccount Bal	ance Invested	d in Ba	lanced f	=unds
-----------------	------------	---------------	---------	----------	-------

		1998	
Age Group	>0-50 percent	>50-90 percent	>90 percent
20s	84.9%	7.3%	7.8%
30s	86.0%	7.6%	6.4%
40s	84.1%	8.9%	7.0%
50s	81.1%	10.7%	8.2%
60s	77.0%	12.4%	10.6%
All	84.5%	8.2%	7.3%
		2006	
Age Group	>0-50 percent	>50-90 percent	>90 percent
20s	40.1%	13.7%	46.2%
30s	47.7%	12.8%	39.5%
40s	46.0%	13.1%	40.9%
50s	43.3%	13.3%	43.4%
60s	39.5%	12.6%	47.9%
All	43.9%	13.3%	42.8%
İ		2007	
Age Group	>0-50 percent	>50-90 percent	>90 percent
20s	36.3%	14.7%	49.0%
30s	40.9%	12.6%	46.5%
40s	40.1%	12.9%	47.0%
50s	38.1%	13.0%	48.8%
60s	36.4%	12.8%	50.8%
All	38.8%	13.3%	47.9%
		2008	
Age Group	>0-50 percent	>50-90 percent	>90 percent
20s	26.1%	11.8%	62.2%
30s	33.5%	13.3%	53.2%
40s	33.9%	13.5%	52.6%
50s	32.8%	13.5%	53.6%
60s	32.1%	12.8%	55.1%
All	31.0%	12.9%	56.1%
		2009	
Age Group	>0-50 percent	>50-90 percent	>90 percent
20s	20.4%	13.3%	66.3%
30s	27.8%	13.9%	58.3%
40s	28.8%	13.9%	57.4%
50s	28.7%	13.7%	57.6%
60s	29.4%	13.3%	57.3%
All	25.9%	13.6%	60.5%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

The analysis includes the 0.4 million recently hired participants (those with two or fewer years of tenure) holding balanced funds in 1998; the 1.4 million recently hired participants holding balanced funds in 2006; the 2.0 million recently hired participants holding balanced funds in 2007; the 2.4 million recently hired participants holding balanced funds in 2008; and the 1.9 million recently hired participants in 2009.

Note: "Balanced funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in a mix of equities and fixed-income securities.

^b Row percentages may not add to 100 percent because of rounding.

Figure 37 Many Recently Hired 401(k) Participants Hold High Concentrations in Target-date Funds^a

Percentage of recently hired 401(k) participants holding the type of fund indicated, b, c 2009

Percentage of Account Balance Invested in Balanced Funds

Age Group	>0-50 percent	>50-90 percent	>90 percent
20s	20.4%	13.3%	66.3%
30s	27.8%	13.9%	58.3%
40s	28.8%	13.9%	57.4%
50s	28.7%	13.7%	57.6%
60s	29.4%	13.3%	57.3%
All	25.9%	13.6%	60.5%

	Percentage of Ad	ccount Balance Invested in Ta	rget-date Funds ^c
Age Group	>0-50 percent	>50-90 percent	>90 percent
20s	17.4%	13.8%	68.8%
30s	23.9%	14.1%	62.0%
40s	24.6%	13.8%	61.6%
50s	24.4%	13.5%	62.1%
60s	24.8%	13.2%	62.0%
All	22.1%	13.8%	64.1%

Percentage of Account Balance	Invested in Non-Target-date Balanced Funds

Age Group	>0-50 percent	>50-90 percent	>90 percent
20s	39.4%	10.5%	50.1%
30s	52.3%	11.0%	36.6%
40s	52.9%	11.5%	35.6%
50s	53.0%	11.8%	35.2%
60s	52.7%	11.6%	35.7%
All	48.4%	11.1%	40.6%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

^b The analysis includes the 1.9 million recently hired participants (those with two or fewer years of tenure) holding balanced funds in 2009, the 1.4 million recently hired participants holding target-date funds in 2009; and the 0.5 million recently hired participants holding non-target-date balanced funds in 2009.

Row percentages may not add to 100 percent because of rounding.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

					Figure 38	38					
		Asset /	Asset Allocation Distribution of Account Balance to Balanced Funds Among Recently Hired 401(k) Participants, by Age	Distribution Recently	on of Acc Hired 401(ount Balar (k) Particiķ	ocation Distribution of Account Balance to Balanc Among Recently Hired 401(k) Participants, by Age	anced Fun \ge	s S		
			Percent	age of Rece	ently Hired 4	101(k) Partic	Percentage of Recently Hired 401(k) Participants, ^{a,b} 2009	600			
				Percent	age of Account	t Balance Inve	Percentage of Account Balance Invested in Balanced Funds	d Funds			
Age Group	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	21–60%	61–70%	71–80%	81–90%	91–100%
20s	32.9%	3.4%	3.1%	2.8%	1.8%	1.9%	3.8%	1.6%	1.6%	1.5%	42.5%
30s	38.8%	4.3%	4.2%	3.8%	2.4%	2.4%	3.3%	1.8%	1.8%	1.6%	35.7%
40s	40.7%	4.2%	4.0%	4.0%	2.4%	2.4%	3.1%	1.8%	1.8%	1.5%	34.0%
50s	41.3%	4.2%	3.8%	3.9%	2.5%	2.5%	3.0%	1.7%	1.7%	1.6%	33.8%
e0s	46.4%	4.3%	3.4%	3.5%	2.5%	2.3%	2.7%	1.4%	1.5%	1.5%	30.8%
All	39.1%	4.0%	3.7%	3.5%	2.2%	2.3%	3.3%	1.7%	1.7%	1.6%	36.8%
				Percentag	ge of Account E	3alance Invest	Percentage of Account Balance Invested in Target-date Funds [°]	te Funds ^c			
Age Group	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	21–60%	61–70%	71–80%	81–90%	91–100%
20s	51.5%	2.1%	1.9%	1.8%	1.2%	1.3%	3.0%	1.2%	1.3%	1.3%	33.4%
30s	52.7%	2.8%	2.6%	2.5%	1.6%	1.7%	2.5%	1.3%	1.4%	1.4%	29.4%
40s	54.5%	2.8%	2.5%	2.5%	1.6%	1.7%	2.3%	1.3%	1.4%	1.3%	28.0%
50s	54.8%	2.9%	2.4%	2.5%	1.6%	1.7%	2.2%	1.2%	1.3%	1.3%	28.0%
809	29.0%	2.9%	2.1%	2.2%	1.5%	1.5%	1.9%	1.0%	1.2%	1.3%	25.4%
All	53.4%	2.6%	2.3%	2.9%	1.5%	1.6%	2.5%	1.2%	1.4%	1.3%	29.9%
			Pe	rcentage of Ac	scount Balance	Invested in N	Percentage of Account Balance Invested in Non-Target-date Balanced Funds	Balanced Fun	sp		
Age Group	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	21–60%	61–70%	71–80%	81–90%	91–100%
20s	85.3%	2.7%	1.8%	1.2%	%9:0	%9:0	%8.0	0.4%	0.4%	0.3%	8.8%
30s	83.6%	3.0%	2.4%	1.7%	%8.0	0.7%	0.7%	0.4%	0.4%	0.3%	%0.9
40s	83.9%	2.7%	2.3%	1.9%	%6.0	0.7%	%8.0	0.4%	0.4%	0.3%	2.7%
20s	84.5%	2.5%	2.2%	1.8%	%6.0	%8.0	%8.0	0.4%	0.3%	0.3%	2.5%
809	82.8%	2.3%	1.9%	1.7%	%6:0	%8.0	%8.0	0.4%	0.3%	0.2%	5.1%
All	83.5%	2.7%	2.1%	1.6%	%8.0	0.7%	%8.0	0.4%	0.4%	0.3%	%2'9
Source: Tabulations from EBB/I/CI Participant-Directed Retirement Plan Data Collection Project	from FBRI/ICI Part	ticipant-Directed	Retirement Plan	Data Collection	Project.						

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

The analysis includes the 3.1 million recently hired participants (those with two or fewer years of tenure) in 2009.

Pow percentages may not add up to 100 percent because of rounding.
A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

Figure 39

Average Asset Allocation of 401(k) Accounts by Participant Age and Investment Options Among Participants With Two or Fewer Years of Tenure^a

Percentage of account balances,^b 1998 and 2009

				Е	Balanced Fund	ds								
	Equ	uity			Target-date	Non-Target-date	Вс	nd	Mor	ney	GICs ^d a	nd Other	Com	pany
Age	Fui	nds	To	tal	funds ^c	balanced funds	Fu	nds	Fur	nds	Stable-Va	lue Funds	Sto	ock
Group	1998	2009	1998	2009	2009	2009	1998	2009	1998	2009	1998	2009	1998	2009
ALL														
20s	66.9%	35.0%	7.4%	41.5%	31.3%	10.2%	5.1%	8.2%	4.0%	3.1%	3.7%	3.5%	10.5%	6.1%
30s	67.8%	41.2%	8.0%	33.7%	25.0%	8.7%	5.1%	9.5%	4.1%	3.7%	3.2%	4.2%	9.4%	4.8%
40s	64.5%	41.1%	9.7%	30.5%	21.7%	8.8%	5.9%	10.1%	5.1%	4.1%	4.4%	6.4%	8.0%	5.1%
50s	60.5%	35.8%	11.3%	29.2%	19.8%	9.4%	6.6%	11.9%	5.9%	5.0%	6.7%	10.4%	6.5%	5.1%
60s	50.0%	30.9%	12.1%	24.8%	15.6%	9.2%	8.7%	13.2%	7.8%	6.0%	13.3%	17.2%	5.7%	5.2%
All	64.8%	38.2%	9.1%	31.7%	22.6%	9.1%	5.7%	10.4%	4.9%	4.3%	4.6%	7.5%	8.6%	5.2%
PLANS	WITHOU	ЈТ СОМЕ	PANY ST	OCK, GI	Cs, ^d OR OTH	ER STABLE-VAL	UE FUNI	os						
20s	77.8%	40.6%	7.8%	40.8%	35.3%	5.5%	7.7%	10.9%	4.9%	4.9%				
30s	77.9%	46.4%	8.4%	32.1%	26.8%	5.3%	7.2%	12.9%	4.8%	5.6%				
40s	74.0%	46.6%	9.9%	29.8%	23.7%	6.2%	8.3%	14.2%	6.0%	6.4%				
50s	70.3%	41.4%	11.3%	29.9%	23.1%	6.8%	10.0%	17.6%	6.5%	8.3%				
60s	59.4%	37.5%	11.8%	27.4%	19.4%	8.0%	13.5%	21.1%	12.2%	10.5%				
All	75.0%	43.9%	9.3%	31.5%	25.4%	6.1%	8.2%	14.8%	5.7%	6.7%				
PLANS	WITH G	ICs ^d ANI	O/OR OT	HER STA	ABLE-VALUE	FUNDS								
20s	73.4%	34.2%	7.3%	46.4%	27.8%	18.6%	3.9%	8.2%	2.9%	1.7%	9.1%	7.3%		
30s	73.5%	38.8%	8.1%	40.4%	23.5%	17.0%	4.1%	6.9%	2.8%	2.3%	7.9%	9.1%		
40s	69.0%	38.8%	9.4%	35.9%	19.0%	16.9%	5.0%	6.8%	3.4%	2.7%	9.5%	13.7%		
50s	63.6%	34.0%	10.2%	33.6%	15.6%	18.1%	5.9%	8.0%	4.6%	3.4%	11.9%	19.1%		
60s	52.7%	30.8%	11.2%	29.5%	11.9%	17.6%	6.8%	9.3%	7.2%	5.1%	19.2%	23.9%		
All	69.7%	36.2%	7.9%	36.8%	19.4%	17.4%	5.0%	7.5%	3.5%	2.9%	10.1%	14.4%		
PLANS	WITH C	OMPANY	у втоск											
20s	51.8%	33.0%	6.1%	38.5%	32.8%	5.8%	5.0%	9.2%	5.4%	3.8%			29.5%	11.7%
30s	56.0%	41.0%	6.6%	28.6%	23.0%	5.5%	5.3%	11.2%	5.2%	4.9%			24.6%	11.0%
40s	54.4%	41.1%	8.2%	25.3%	20.9%	4.5%	6.5%	12.7%	6.4%	5.6%			22.6%	12.0%
50s	53.2%	35.0%	9.8%	24.8%	20.7%	4.0%	6.9%	16.8%	8.6%	7.2%			19.4%	12.4%
60s	47.2%	28.6%	11.1%	21.5%	17.0%	4.5%	14.3%	21.8%	6.4%	9.7%			19.3%	12.2%
All	54.2%	37.9%	7.2%	27.8%	22.9%	4.9%	6.3%	13.2%	6.1%	5.7%			24.1%	11.8%
PLANS	WITH C	OMPANY	STOCK	AND GI	Cs ^d AND/OR	OTHER STABLE-	VALUE	FUNDS						
20s	56.2%	30.2%	8.2%	40.5%	28.4%	12.0%	2.3%	4.7%	2.5%	1.7%	6.7%	6.5%	22.0%	14.1%
30s	56.3%	36.5%	8.9%	33.5%	25.0%	8.5%	2.6%	6.3%	3.3%	1.6%	5.9%	8.1%	20.6%	11.3%
40s	53.8%	36.6%	11.0%	29.4%	21.9%	7.5%	2.8%	6.9%	5.0%	1.8%	7.8%	11.1%	17.3%	11.6%
50s	49.3%	31.7%	13.8%	26.4%	19.6%	6.8%	3.3%	7.5%	5.3%	2.3%	11.8%	17.7%	14.5%	11.8%
60s	38.0%	26.0%	14.3%	19.9%	14.8%	5.2%	2.6%	7.1%	4.9%	2.0%	27.8%	30.9%	10.7%	11.8%
All	54.1%	33.5%	10.1%	29.8%	22.0%	7.8%	2.4%	6.6%	2.4%	1.9%	10.1%	13.6%	18.6%	11.9%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a The analysis is based on samples of 1.2 million participants with two or fewer years of tenure in 1998 and 3.1 million participants with two or fewer years of tenure in 2009.

b Minor investment options are not shown; therefore, row percentages will not add to 100 percent. Percentages are dollar-weighted averages.

^a A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

^d GICs are guaranteed investment contracts.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

Figure 40

Recently Hired 401(k) Plan Participants Are Less Likely to Hold Company Stock

Percentage of recently hired 401(k) participants offered and holding company stock, by participant age,1998–2009

Age Group	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
20s	60.8%	61.1%	60.5%	58.1%	53.9%	49.6%	49.8%	45.4%	40.0%	35.4%	32.9%	32.3%
30s	61.9%	62.3%	61.6%	60.0%	57.2%	53.3%	52.3%	47.6%	43.6%	40.4%	37.4%	36.2%
40s	59.8%	60.6%	59.5%	58.8%	55.9%	52.6%	52.0%	47.3%	43.6%	40.7%	37.9%	37.0%
50s	57.6%	58.8%	57.4%	57.9%	53.9%	51.2%	49.5%	45.2%	42.3%	39.6%	37.8%	37.6%
60s	54.1%	55.5%	53.6%	55.7%	51.0%	49.5%	47.8%	43.9%	40.4%	38.4%	38.7%	40.5%
All	60.5%	61.0%	60.0%	58.7%	55.3%	51.6%	51.0%	46.3%	42.0%	38.7%	36.2%	35.5%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: The analysis includes 401(k) plan participants with two or fewer years of tenure in the year indicated and in a plan offering company stock as an investment option

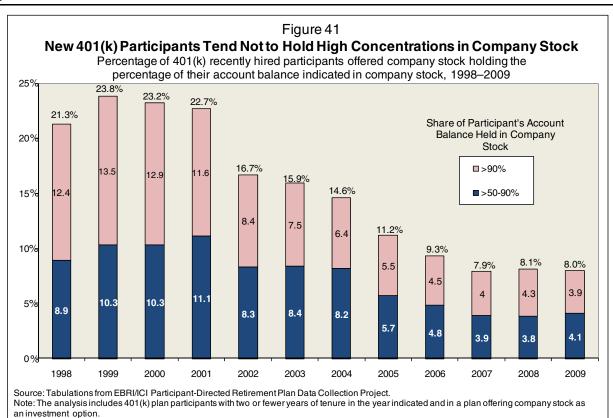


Figure 42

Asset Allocation Distribution of Recently Hired 401(k) Participant Account Balance to Company Stock in 401(k) Plans With Company Stock, by Participant Age

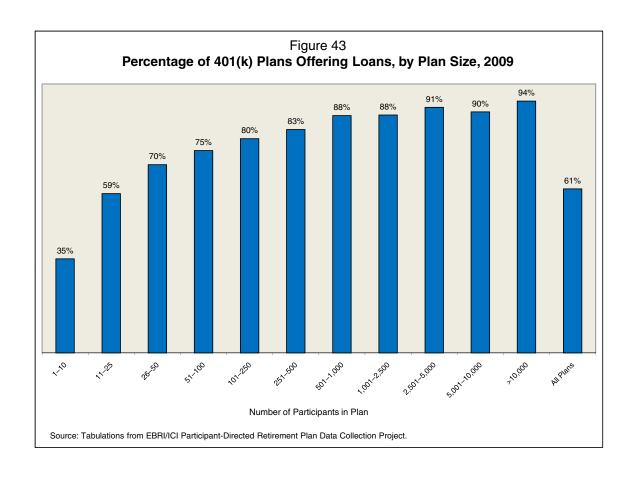
Percentage of recently hired 401(k) participants in plans offering company stock as an investment option, a,b 2009

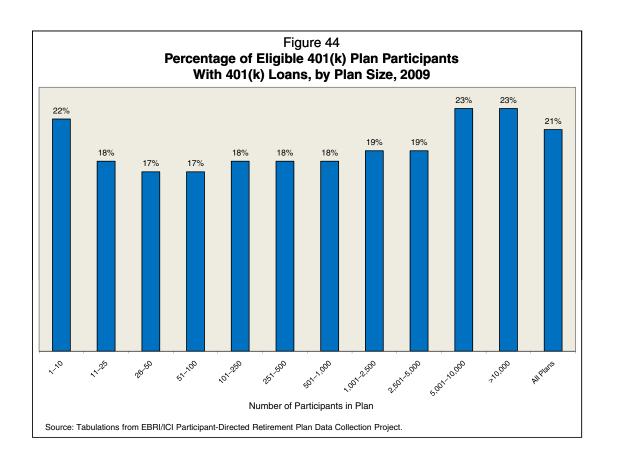
Age			Pe	ercentage c	f Account E	Balance Inv	ested in Co	mpany Sto	ck		
Group	Zero	1–10%	11–20%	21–30%	31–40%	41–50%	51–60%	61-70%	71–80%	81–90%	91–100%
20s	67.7%	6.2%	5.0%	4.3%	3.2%	6.1%	1.8%	0.8%	0.6%	0.4%	3.8%
30s	63.8%	8.0%	6.5%	5.4%	3.8%	4.9%	2.0%	0.9%	0.7%	0.5%	3.6%
40s	63.0%	8.2%	6.5%	5.6%	4.0%	4.5%	2.2%	1.0%	0.7%	0.5%	4.0%
50s	62.4%	8.8%	6.7%	5.5%	3.9%	4.2%	2.2%	1.0%	0.7%	0.5%	4.2%
60s	59.5%	10.3%	7.0%	5.0%	3.8%	3.8%	2.3%	1.2%	0.8%	0.9%	5.4%
All	64.5%	7.7%	6.0%	5.1%	3.7%	5.0%	2.0%	0.9%	0.6%	0.5%	3.9%

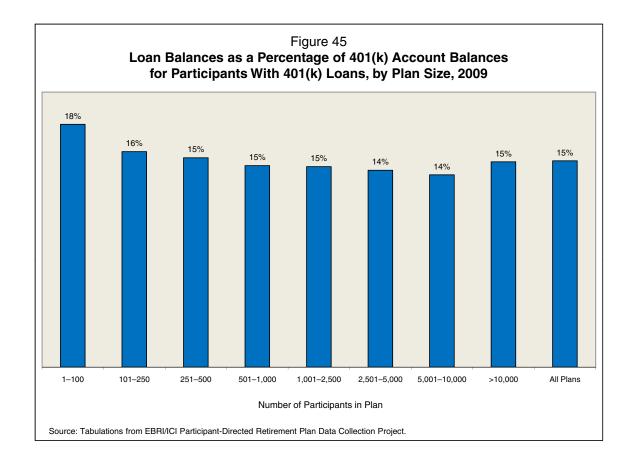
Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

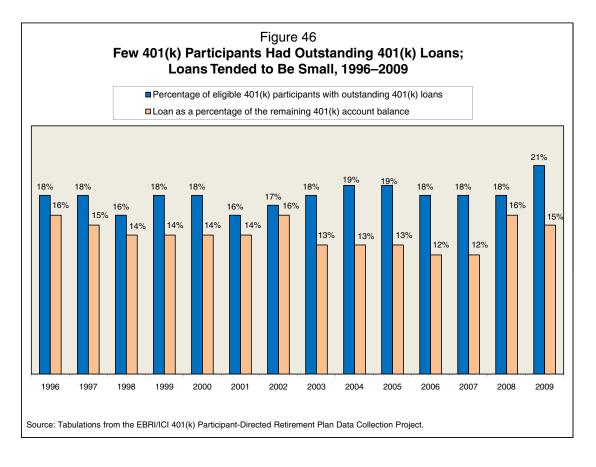
^bRow percentages may not add up to 100 percent because of rounding.

The analysis includes the 1.3 million participants with two or fewer years of tenure in 2009 and in plans offering company stock as an investment option.









			ure 47				
	_	Eligible Par	•	` '	•		
by Particip	• •	enure, Acc	•	• •			
	1996	2000	2002	2005	2007	2008	2009
All	18%	18%	17%	19%	18%	18%	21%
Age Group							
20s	12%	11%	10%	11%	10%	10%	13%
30s	20%	19%	18%	20%	20%	20%	23%
40s	22%	21%	20%	22%	22%	22%	26%
50s	17%	17%	17%	19%	19%	19%	22%
60s	9%	9%	9%	10%	10%	11%	12%
Tenure (years)							
0–2	6%	5%	4%	5%	7%	6%	9%
>2–5	15%	14%	12%	14%	15%	15%	17%
>5–10	24%	23%	21%	22%	23%	23%	25%
>10-20	27%	26%	26%	26%	26%	26%	29%
>20-30	25%	26%	25%	24%	24%	25%	27%
>30	13%	16%	15%	17%	17%	18%	19%
Account Size	.0,5	. 3 , 3	.0,0	,0	,5	.0,5	
<\$10,000	12%	11%	11%	12%	11%	12%	16%
\$10,000-\$20,000	26%	23%	22%	26%	25%	26%	28%
>\$20,000-\$20,000	26%	25%	22%	27%	26%	26%	28%
>\$30,000-\$40,000	25%	25%	23%	26%	26%	26%	28%
>\$40.000-\$50.000	24%	25% 25%	23%	25%	26%	25% 25%	27%
>\$50,000-\$60,000	24%	24%	22%	24%	25% 25%	24%	25%
>\$60,000-\$70,000	23%	24%	22%	23%	24%	23%	25%
>\$70.000 - \$70,000 >\$70.000 - \$80.000	25% 26%	23%	22% 22%	23% 22%	23%	23% 22%	25%
>\$80,000-\$60,000	23%	23%	21%	21%	23%	21%	24%
>\$90,000-\$90,000	23% 22%	23% 22%	21%	20%	23% 22%	20%	23%
>\$100,000 <u></u> \$100,000 >\$100,000	22%	20%	19%	18%	19%	20% 18%	19%
>\$100,000-\$200,000 >\$200,000	18%	20% 15%	13%	13%	13%	12%	13%
, ,	10 /0	10/0	13/0	13/0	10/0	12/0	10/6
Salary Range	100/	470/	100/	100/	000/	100/	0.40/
\$40,000 or less	18%	17%	13%	19%	20%	19%	24%
>\$40,000–\$60,000	20%	23%	21%	26%	28%	27%	30%
>\$60,000-\$80,000	18%	23%	20%	24%	24%	24%	26%
>\$80,000–\$100,000	17%	21%	17%	22%	21%	20%	23%
>\$100,000	14%	16%	13%	16%	14%	14%	16%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: The tenure variable is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.

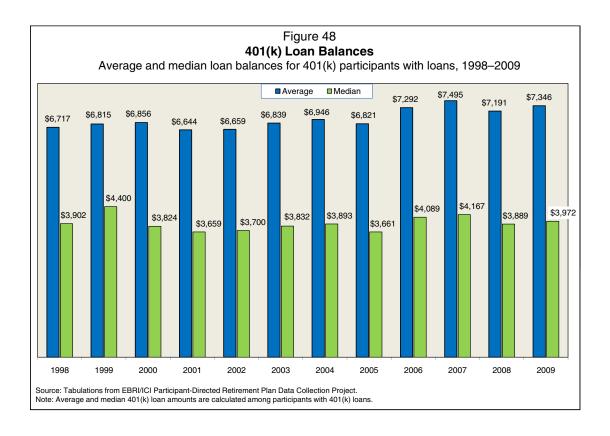


Figure 49 Loan Balances as a Percentage of 401(k) Account Balances for Participants With Loans, by Participant Age, Tenure, Account Size, or Salary, Selected Years 1996 2000 2002 2008 2009 ΑII 16% 14% 16% 13% 12% 16% 15% Age Group 30% 30% 28% 24% 29% 20s 25% 26% 30s 22% 20% 22% 19% 19% 25% 22% 40s 16% 15% 16% 13% 13% 18% 16% 50s 12% 11% 12% 10% 10% 13% 12% 10% 9% 10% 10% 60s 8% 8% 11% Tenure (years) 27% 24% 27% 23% 21% 25% 22% 0-2 25% >2-5 24% 25% 21% 22% 26% 23% >5-10 23% 21% 23% 24% 20% 19% 18% >10-20 15% 14% 16% 13% 13% 17% 16% >20-30 10% 9% 8% 12% 11% 11% 11% 10% 8% 7% 9% >30 8% 9% 7% Account Size 39% 37% 35% 36% 39% 39% 39% <\$10,000 32% 32% 31% 29% 30% 33% 31% \$10,000-\$20,000 28% 28% 28% 25% 26% 29% 27% >\$20,000-\$30,000 23% 24% 25% 22% 23% 26% 25% >\$30,000-\$40,000 >\$40,000-\$50,000 22% 21% 22% 20% 21% 24% 22% >\$50,000-\$60,000 19% 19% 20% 18% 19% 21% 21% >\$60,000-\$70,000 16% 17% 18% 16% 17% 19% 19% >\$70,000-\$80,000 16% 15% 16% 15% 16% 18% 17% >\$80,000-\$90,000 14% 14% 15% 14% 14% 16% 16% 13% >\$90,000-\$100,000 13% 13% 13% 13% 15% 15% 11% >\$100,000-\$200,000 10% 9% 10% 9% 10% 11% >\$200,000 5% 5% 5% 4% 5% 5% 5% Salary Range 19% \$40,000 or less 17% 19% 18% 18% 17% 21% >\$40,000-\$60,000 17% 16% 16% 16% 15% 19% 17% >\$60,000-\$80,000 15% 13% 14% 13% 12% 17% 14% >\$80,000-\$100,000 14% 12% 12% 11% 11% 14% 12%

>\$100,000 14% 10% 10% 9%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: The tenure variable is generally years working at current employer, and thus may overstate years of participation in the 401(k) plan.

9%

11%

10%

Percentage of eli	` '	s Tend to E cipants, by		
oan as a Percentage of		Age G	aroup	
Remaining Account Balance	20s	40s	60s	All
Zero (No Loan)	87%	75%	88%	79%
I–10%	2%	7%	5%	6%
>10%–20%	2%	6%	2%	4%
>20–30%	2%	4%	1%	3%
>30–80%	5%	8%	3%	7%
>80%	1%	1%	*	1%

Appendix

This year's update of the EBRI/ICI 401(k) database reported on a consistent group of participants, or longitudinal sample. This appendix includes additional information on the 2003–2009 consistent group (Figures A1–A5, which was discussed in conjunction with the main report). For completeness, it contains all of the usual annual updates for the older 1999–2009 consistent group of participants (Figures A3 and A6–A12). In addition, changes in asset allocation for a consistent group of participants with accounts at year-end 2008 and year-end 2009 are presented in Figures A13 and A14.

Comparison of 2003–2009 Consistent Group of 401(k) Participants to EBRI/ICI 401(k) Database

About 3 in 10, or 4.3 million, of the 401(k) participants with accounts at the end of 2003 in the EBRI/ICI 401(k) database had accounts at the end of each year from 2003 through 2009.⁶⁰ Figures A1 and A2 compare the age and tenure distributions of the 2003–2009 consistent group with the cross-sectional database. Figure A3 highlights the distribution of account balance sizes across the database at year-end 2009, the 2003–2009 consistent group, and the 1999–2009 consistent group. Figures A4 and A5 provide information on the asset allocation of participants in the 2003–2009 consistent group by age.

Analysis of the 1999–2009 Consistent Group

Participants' Ages, Tenures, and Account Balances in the 1999–2009 Consistent Group

About 16 percent, or 1.6 million, of the 401(k) participants with accounts at the end of 1999 in the database had accounts at the end of each year from 1999 through 2009. These 1.6 million 401(k) participants make up a group of consistent participants (or a longitudinal sample), which removes the effect of participants and plans entering and leaving the database. Initially, this group was demographically similar to the entire EBRI/ICI 401(k) database at year-end 1999. However, by year-end 2009, these participants had grown older (Figure A6), accrued longer job tenures (Figure A7), and accumulated larger account balances compared with the cross-section of participants in the entire year-end 2009 database (Figures A3 and A8).

The 1999–2009 consistent group's account balances highlight the accumulation effect of ongoing 401(k) participation. At year-end 2009, 21 percent of the consistent group had more than \$200,000 in their 401(k) accounts at their current employers, while another 20 percent had between \$100,000 and \$200,000 (Figure A3). In contrast, in the broader database, 7 percent of participants had accounts with more than \$200,000, and less than 10 percent had accounts between \$100,000 and \$200,000 (Figures A3 and 10).

Reflecting their higher average age and tenure, the 1999–2009 consistent group also had median and average account balances that were much higher than the median and average account balances of the broader database (Figure A8). At year-end 2009, the average 401(k) account balance of the 1999–2009 consistent group was \$131,438 (Figure A8), more than double the average account balance of \$58,351 among participants in the entire database (Figure 9). The median 401(k) account balance among the consistent participants was \$73,175 at year-end 2009 (Figure A8), more than four times the median account balance of \$17,794 among participants in the entire database (Figure 9).

At year-end 2009, 401(k) account balances varied with both age and tenure among the 1999–2009 consistent group of participants, as they do in the cross-sectional database. Younger participants or those with shorter job tenure tended to have smaller account balances, while those who were older or had longer job tenure tended to have higher account balances. For example, within the 1999–2009 consistent group, participants in their 30s at year-end 2009 had an average account balance of \$64,688, compared with an average of \$162,522 for participants in their 60s (Figure A9).

Changes in Participants' Account Balances in the 1999-2009 Consistent Group

In any given year, the change in a participant's account balance is the sum of three factors: new contributions by the participant or the employer or both; total investment return on account balances, which depends on the performance of financial markets and on the allocation of assets in an individual's account; and withdrawals, borrowing, and loan repayments. The change in any individual participant's account balance is influenced by the magnitudes of these three factors relative to the starting account balance. For example, a contribution of a given dollar amount produces a larger

growth rate when added to a smaller account. On the other hand, investment returns of a given percentage produce larger dollar increases (or decreases) when compounded on a larger asset base.

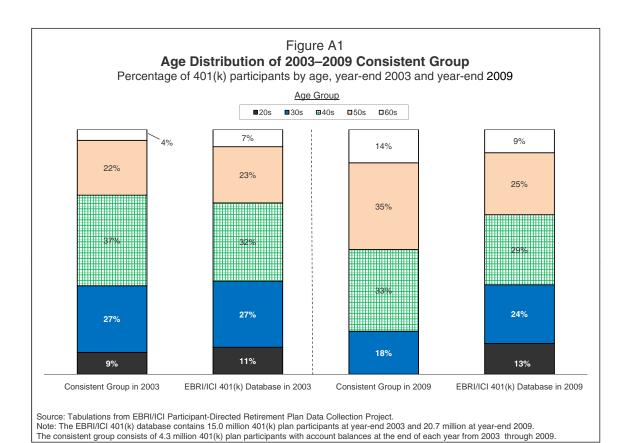
All told, from year-end 1999 through year-end 2009, the average account balance among the group of consistent participants grew 95.0 percent, rising from \$67,420 at year-end 1999 to \$131,438 at year-end 2009 (Figures A8 and A10). This translates into an annual average growth rate of 6.9 percent over the 10-year period. The median account balance (or midpoint, with half above and half below) among this consistent group also grew, rising 199.5 percent from \$24,435 in 1999 to \$73,175 in 2009 (an annual average growth rate of 11.6 percent; Figure A8).

Among the 1999–2009 consistent group, there was a wide range of individual participant experience, often influenced by the relationship among the three factors mentioned above: contributions, investment returns, and withdrawal and loan activity. Participants who were younger or had fewer years of tenure experienced the largest increases in average account balance between year-end 1999 and year-end 2009. For example, the average account balance of participants in their 30s rose 460.2 percent (an 18.8 percent annual average growth rate) between the end of 1999 and the end of 2009 (Figures A9 and A10). Because younger participants' account balances tended to be small (Figure A9), contributions produced significant account balance growth. In contrast, the average account balance of older participants or those with longer tenures showed more modest growth (Figure A10). For example, the average account balance of participants in their 60s increased 46.2 percent (a 3.9 percent annual average growth rate) between year-end 1999 and year-end 2009. Investment returns, rather than annual contributions, generally account for most of the change in accounts with larger balances. In addition, participants in their 60s tend to have a higher propensity to make withdrawals.⁶²

These changes in participant account balances also reflect changes in asset values during the 10-year time period (Figure 8). Although asset allocation varied with age and many participants held a range of investments, the impact of stock market performance showed through in 401(k) accounts because 401(k) plan participants tended to be heavily invested in equity securities. At year-end 2009, altogether, equity securities—equity funds, the equity portion of balanced funds, and company stock—represented 59 percent of the 1999–2009 consistent group of 401(k) plan participants' assets (Figure A11). The asset allocation of participants in the consistent group varied with participant age, a pattern that is also observed in the cross-sectional EBRI/ICI 401(k) database. Younger participants generally tended to favor equity funds, while older participants were more likely to invest in fixed-income securities such as bond funds, GICs and other stable value funds, or money funds.

Among individual 401(k) participants in the consistent group, the allocation of account balances to equities varied widely around the average of 59 percent for the 1999–2009 consistent group as a whole. Thirty-seven percent of participants in the 1999–2009 consistent group had more than 80 percent of their accounts invested in equities, while 13 percent held no equities at all in 2009 (Figure A12).

The growth pattern of the 1999–2009 consistent group's average account balances reflects stock market performance over the 10-year time period. The three-year bear market of 2000–2002 pulled 401(k) account balances down. Diversified portfolios and ongoing contributions⁶⁴ helped offset the impact of the stock market decline. The average account among the consistent group of participants fell 7.0 percent between year-end 1999 and year-end 2002 (Figure A10), while the S&P 500 total return index fell 37.6 percent and the Russell 2000 Index fell 21.0 percent (Figure 8). Between year-end 2002 and year-end 2007, the S&P 500 total return index climbed 82.9 percent and the Russell 2000 Index more than doubled. The average account balance among the 1999–2009 consistent group of participants increased 127.6 percent between year-end 2002 and year-end 2007 (Figure A10). In 2008, as the S&P 500 total return index fell 37.0 percent and the Russell 2000 Index fell 33.8 percent, the average account balance among the 1999–2009 consistent group of participants decreased 25.3 percent. As the stock market rose in 2009, the average account balance among the 1999–2009 consistent group increased 23.3 percent. The 1999–2009 consistent group's average balance at year-end 2009 was up 95.0 percent compared with year-end 1999; over the 10-year period, the average account balance grew at an annual average rate of 6.9 percent.



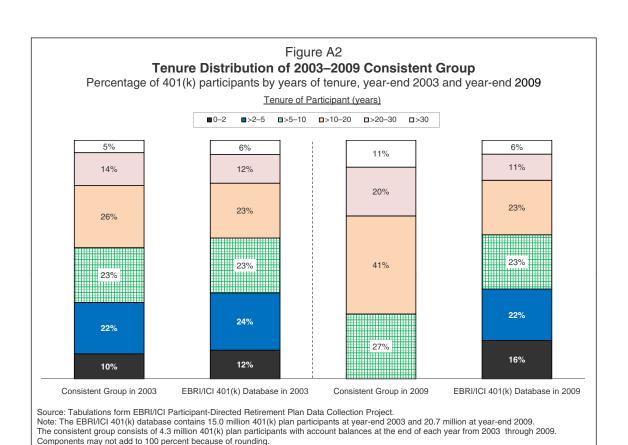
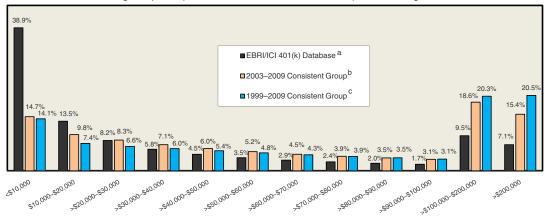


Figure A3

Distribution of 401(k) Account Balances, by Size of Account Balance

Percentage of participants with account balances in specified ranges, 2009



Size of Account Balance

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a The EBRI/ICI 401(k) database at year-end 2009 represents 20.7 million 401(k) plan participants; the median account balance in the database was \$17,794 at year-end 2009.

^b The 2003–2009 consistent group represents the 4.3 million 401(k) plan participants with account balances at the end of each year from 2003 through 2009; the median account balance among the consistent group was \$59,381 at year-end 2009.

°The 1999–2009 consistent group represents the 1.6 million 401(k) plan participants with account balances at the end of each year from 1999 through 2009; the median account balance among the consistent group was \$73,175 at year-end 2009.

Note: Components may not add to 100 percent because of rounding.

Figure A4 Average Asset Allocation of 401(k) Accounts of 2003–2009 Consistent Group, by Participant Age

Percentage of account balances, 2009

Age Group ^b	Equity Funds	Target-date Funds ^c	Non-Target-date Balanced Funds	Bond Funds	Money Funds	GICs ^d /Stable Value Funds	Company Stock	Other	Unknown	Total ^e
20s	46.6%	14.0%	6.2%	10.4%	4.6%	6.9%	9.3%	1.0%	0.9%	100%
30s	54.5%	8.6%	5.3%	10.7%	3.8%	5.2%	9.6%	1.3%	1.0%	100%
40s	50.3%	7.1%	5.7%	11.4%	4.1%	7.6%	11.2%	1.7%	0.8%	100%
50s	40.1%	6.9%	6.2%	13.7%	5.0%	12.8%	12.3%	2.3%	0.7%	100%
60s	32.3%	6.3%	6.2%	16.7%	6.2%	19.9%	9.8%	2.0%	0.6%	100%
All consistent group	42.3%	6.9%	5.9%	13.5%	4.9%	12.6%	11.2%	1.9%	0.8%	100%
EBRI/ICI 401(k) Database ^e	40.6%	9.5%	7.2%	11.4%	5.3%	12.6%	9.2%	2.7%	1.6%	100%

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

^a Row percentages may not add to 100 percent because of rounding. Percentages are dollar-weighted averages.

Age group is based on the participant's age at year-end 2009. Asset allocation by age group among the 2003–2009 consistent group of 4.3 million 401(k) plan participants with account balances at the end of each year from 2003 through 2009.

^c A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

^d GICs are guaranteed investment contracts.

The year-end 2009 EBRI/ICI 401(k) database represents 20.7 million 401(k) participants.

		oarticipants ^{b, c}		>80 percent	45.0%	20.8%	44.3%	32.0%	25.6%	38.1%
	Asset Allocation to Equities Varied Widely Among Participants in the 2003–2009 Consistent Group	y age; percentage of p	uities ^a	>60-80 percent	20.4%	20.7%	23.5%	22.6%	15.3%	21.2%
	s in the 2003–200	nce to equities, ^a by	alance Invested in Equ	>40-60 percent	10.6%	10.5%	11.8%	16.4%	17.2%	13.7%
Figure A5	nong Participant	oant account balar	Percentage of Account Balance Invested in Equities ^a	>20-40 percent	6.1%	5.3%	6.4%	8.8%	11.5%	7.8%
	Varied Widely Ar	9 of 401(k) partici	Per	1–20 percent	4.7%	4.3%	2.7%	8.8%	12.1%	%9.7
	ation to Equities	in at year-end 200		Zero	13.1%	8.2%	8.4%	11.5%	18.4%	11.5%
	Asset Alloca	Asset allocation distribution at year-end 2009 of 401(k) participant account balance to equities, aby age; percentage of participants big and allocation distribution at year-end 2009 of 401(k) participant account balance to equities, and age; percentage of participants big and allocation distribution at year-end 2009 of 401(k) participant account balance to equities, and age; percentage of participants big and allocation distribution at year-end 2009 of 401(k) participant account balance to equities, and age; percentage of participants big and account balance are allocation distribution at year-end 2009 of 401(k) participant account balance to equities.		Age Group ^d	20s	30s	40s	50s	e0s	All consistent group ^b

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

EBRI/ICI 401(k) Database^e

38.6%

21.2% 22.8%

13.7% 12.4%

7.8% 7.1%

%9.7 %0.9

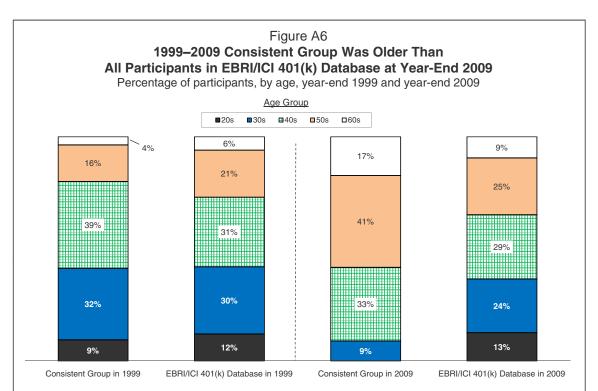
11.5% 13.1%

Equities include equity funds, company stock, and the equity portion of balanced funds. "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product. primarily invested in the security indicated.

Participants include the 4.3 million 401(k) plan participants with account balances at the end of each year from 2003 through 2009. Asset allocation is as of year-end 2009.

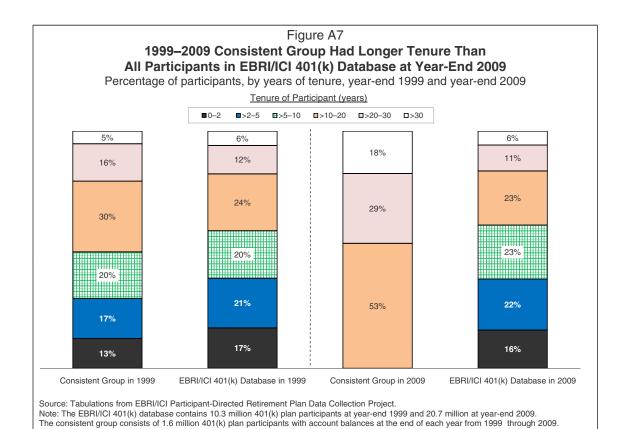
Row percentages may not add to 100 percent because of rounding.

Age group is based on the participant's age at year-end 2009. The year-end 2009 EBRI/ICI 401(k) database represents 20.7 million 401(k) participants.



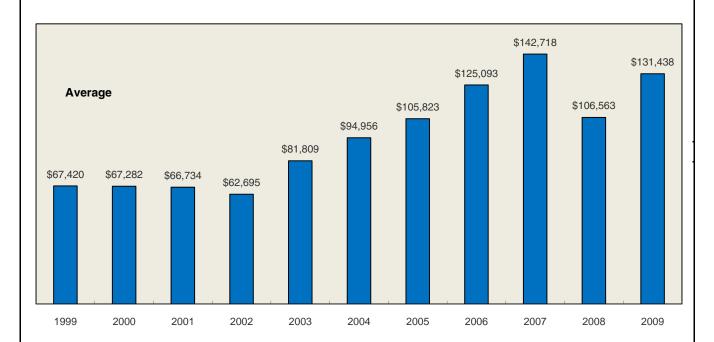
Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

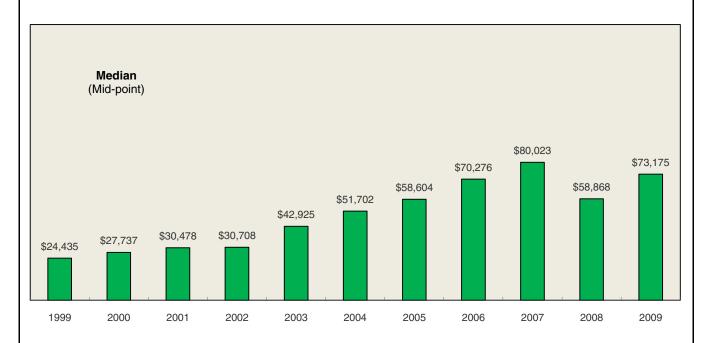
Note: The EBRI/ICI 401(k) database contains 10.3 million 401(k) plan participants at year-end 1999 and 20.7 million at year-end 2009. The consistent group consists of 1.6 million 401(k) plan participants with account balances at the end of each year from 1999 through 2009. Components may not add to 100 percent because of rounding.



Components may not add to 100 percent because of rounding.

Figure A8
401(k) Account Balances^a Among 401(k) Participants
Present From Year-End 1999 Through Year-End 2009^b





Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a Account balances are participant account balances held in 401(k) plans at the participants current employers and are net of plan loans. Retirement savings held in plans at previous employers or rolled over into IRAs are not included.

b The analysis is based on a group of 1.6 million participants with account balances at the end of each year from 1999 through 2009.

		L	Figure A9 Average Account Balances Among 401(k) Participants Present	Account E	Figures A	Figure A9 Average Account Balances Among 401(k) Participants Present	I(k) Partic	ipants Pro	esent			
Age Group ^b	Tenure (years) ^b	1999	2000	2001	2002	2003	2004 Dy A	Aye allu 1	200e	2007	2008	2009
30s	W	\$11,547	\$14,280	\$17,106	\$18,177	\$27,708	\$35,439	\$42,870	\$54,331	\$65,438	\$47,030	\$64,688
	>10-20	\$12,480	\$15,081	\$17,793	\$18,714	\$28,337	\$36,082	\$43,477	\$54,944	\$66,085	\$47,387	\$65,099
40s	ΙΨ	\$41,975	\$43,067	\$44,014	\$41,796	\$58,198	\$70,253	\$80,883	\$98,697	\$115,498	\$82,813	\$108,716
	>10-20	\$32,686	\$34,448	\$36,248	\$35,070	\$49,956	\$61,140	\$71,431	\$87,981	\$103,876	\$74,214	\$98,743
	>20-30	\$68,305	\$67,302	\$65,785	\$60,471	\$81,162	\$95,596	\$107,154	\$128,495	\$148,020	\$106,423	\$136,379
50s	ΙΨ	\$73,784	\$73,989	\$73,058	\$68,467	\$90,506	\$106,235	\$119,489	\$142,640	\$164,565	\$123,273	\$153,344
	>10-20	\$40,480	\$42,863	\$44,640	\$43,220	\$59,740	\$72,598	\$84,379	\$102,924	\$120,673	\$90,06\$	\$116,009
	>20-30	\$100,811	\$98,786	\$95,466	\$87,492	\$114,502	\$133,098	\$148,369	\$176,236	\$202,645	\$150,400	\$186,580
	>30	\$92,742	\$92,303	\$90,043	\$84,717	\$109,274	\$125,899	\$138,865	\$163,297	\$186,200	\$141,919	\$170,384
809	W	\$111,143	\$108,789	\$105,986	\$98,664	\$123,175	\$138,114	\$148,873	\$169,525	\$186,030	\$142,944	\$162,522
	>10-20	\$44,268	\$47,663	\$49,586	\$48,312	\$65,305	\$78,708	\$90,389	\$107,823	\$123,142	\$93,082	\$111,689
	>20-30	\$116,356	\$114,222	\$111,017	\$102,307	\$129,615	\$147,416	\$160,701	\$184,876	\$203,783	\$154,149	\$176,281
	>30	\$159,293	\$152,169	\$145,806	\$134,548	\$163,137	\$177,483	\$186,018	\$206,956	\$223,003	\$173,795	\$192,032
Alla	Ψ	\$67,420	\$67,282	\$66,734	\$62,695	\$81,809	\$94,956	\$105,823	\$125,093	\$142,718	\$106,563	\$131,438

Source: Tabulations from the EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a The analysis is based on a group of 1.6 million participants with account balances at the end of each year from 1999 through 2009.

^b Age and tenure groups are based on participant age and tenure at year-end 2009.

Figure A10	Percent Change in Average Account Balances Among 401(k) Participants	Present From Year-End 1999 Through Year-End 2009, ^a by Age and Tenure ^b
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)				5	()		5
Age Group ^b	Tenure (years) ^b	1999–2002	2002-2007	2007–2008	2008–2009	2007–2009	1999–2009
30s	Al	57.4%	260.0%	-28.1%	37.5%	-1.1%	460.2%
	>10-20	20.0%	253.1%	-28.3%	37.4%	-1.5%	421.6%
40s	All	-0.4%	176.3%	-28.3%	31.3%	-5.9%	159.0%
	>10–20	7.3%	196.2%	-28.6%	33.1%	-4.9%	202.1%
	>20-30	-11.5%	144.8%	-28.1%	28.1%	-7.9%	%2'66
50s	Al	-7.2%	140.0%	-25.1%	24.4%	-6.8%	107.8%
	>10-20	%8.9	179.2%	-25.4%	28.8%	-3.9%	186.6%
	>20-30	-13.2%	131.6%	-25.8%	24.1%	-7.9%	85.1%
	>30	-8.7%	119.8%	-23.8%	20.1%	-8.5%	83.7%
809	All	-11.2%	88.5%	-23.2%	13.7%	-12.6%	46.2%
	>10–20	9.1%	154.9%	-24.4%	20.0%	-9.3%	152.3%
	>20-30	-12.1%	99.5%	-24.4%	14.4%	-13.5%	51.5%
	>30	-15.5%	65.7%	-22.1%	10.5%	-13.9%	20.6%
AIIa	All	-2.0%	127.6%	-25.3%	23.3%	-7.9%	95.0%

Source: Tabulations from the EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a The analysis is based on a group of 1.6 million participants with account balances at the end of each year from 1999 through 2009.

^b Age and tenure groups are based on participant age and tenure at year-end 2009.

Average Asset	sset Allo	ocation of	Figure A11 t Allocation of 401(k) Accounts of 1999–2009 Consistent Group, by Participant Age Percentage of account balances, 2009	Figure A11 Its of 1999-	11 9 –2009 balances,	Consistent G	roup, by P	articipa	nt Age	
Age Group ^b	Equity Funds	Target-date Funds ^c	Target-date Non-Target-date Funds° Balanced Funds	Bond Funds	Money Funds	GICs ^d /Stable- Value Funds	Company Stock	Other	Unknown	Total
30s	57.2%	7.0%	2.5%	9.5%	3.6%	4.9%	%6.6	1.5%	%8.0	100%
40s	51.5%	%0.9	%0.9	11.2%	4.2%	7.6%	10.9%	1.9%	0.7%	100%
50s	40.9%	6.3%	6.4%	14.0%	2.0%	13.8%	10.6%	2.3%	%9.0	100%
90s	31.4%	2.5%	6.1%	17.0%	6.1%	22.9%	8.6%	2.0%	0.4%	100%
All consistent group	41.5%	2.9%	6.1%	13.9%	4.9%	14.9%	10.1%	2.0%	%9.0	100%
EBRI/ICI 401(k) Database ^e	40.6%	9.5%	7.2%	11.4%	5.3%	12.6%	9.2%	2.7%	1.6%	100%
Source: Tahulations from EBBUICI Participant-Directed Batirament Plan Data Collection Broject	Particinant-Dire	oted Betirement	Plan Data Collection Pr	oiect						

Row percentages may not add to 100 percent because of rounding. Percentages are dollar-weighted averages.

Age group is based on the participant's age at year-end 2009. Asset allocation by age group among the consistent group of 1.6 million 401(k) plan participants with account balances at the end of each year from 1999 through 2009.

A target-date fund typically rebalances its portfolio to become less focused on growth and more focused on income as it approaches and passes the target date of the fund, which is usually included in the fund's name.

GICs are guaranteed investment contracts.

The year-end 2009 EBRI/ICI 401(k) database represents 20.7 million 401(k) participants.

Note: "Funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in the security indicated.

⊢lgure A12 Asset Allocation to Equities Varied Widelv Amonq Participants in the 1999–2009 Consistent Group	Equities Var	⊦ ied Widelv Ar	Figure A12 imonq Participa	nts in the 1999	–2009 Consiste	nt Group
Asse	t allocation distr to equ	ribution at year-e lities, ^a by age ar	Asset allocation distribution at year-end 2009 of 401(k) participant account balance to equities, a by age and percentage of participants bic) participant accolaricipants ^{b,c}	unt balance	•
		Perce	Percentage of Account Balance Invested in Equities ^a	ance Invested in Equ	uitiesa	
Age Group⁴	Zero	1–20 percent	>20-40 percent	>40-60 percent	>60–80 percent	>80 percent
30s	%6.7	4.0%	4.9%	%6.6	19.3%	54.0%
40s	7.8%	5.7%	6.1%	11.6%	22.7%	46.2%
50s	12.0%	9.3%	8.5%	15.9%	21.5%	32.8%
e0s	20.6%	13.4%	10.9%	15.7%	14.3%	25.1%
All consistent group ^b	13.1%	8.7%	7.9%	13.5%	19.9%	36.9%
EBRI/ICI 401(k) Database	13.1%	%0.9	7.1%	12.4%	22.8%	38.6%

Source: Tabulations from EBR/I/CI Participant-Directed Retirement P Ian Data Collection Project.

Equities include equity funds, company stock, and the equity portion of balanced funds. "Funds" include mutual funds, bank collective trusts, life insurance separate accounts,

and any pooled investment product primarily invested in the security indicated.

Participants include the 16 million 401(k) plan participants with account balances at the end of each year from 1999 through 2009. Asset allocation is as of year-end 2009.

Rowpercentages may not add to 100 percent because of rounding.

Age group is based on the participant's age at year-end 2009.

The year-end 2009 EB RI/ICI 401(k) database represents 20.70 million 401(k) participants

		Changes i	n Consister	F nt Participan Percenta	Figure A13 rticipants' Investment in Percentage of participants ^a	nt in Equity	Figure A13 nanges in Consistent Participants' Investment in Equity Funds, 2008–2009 Percentage of participants ^a	-2009	
			Percen	Percentage of Account Balance Invested in Equity Funds Percentage in 2009	nt Balance Invested Percentage in 2009	ed in Equity Fur 19	spu		
	I	None	1–20%	21–40%	41–60%	61–80%	81–99%	100%	Total in 2008 ^b
	None	38.5	9.0	0.3	0.3	0.2	0.1	0.2	40.2
Э	1–20	1.0	6.2	1.5	0.3	0.2	0.1	0.1	9.3
	21–40	2.2	0.8	6.3	2.1	0.3	0.1	0.0	11.7
50 :eu	41–60	8.0	0.3	1.0	8.2	2.1	0.2	0.1	12.7
ore in	61–80	0.3	0.2	0.2	1.1	7.9	1.3	0.2	11.3
Ь	81–99	0.2	0.1	0.1	0.2	6:0	4.8	0.3	6.5
	100	0.2	0.1	0.1	0.1	0.2	0.4	7.2	8.4
	Total in 2009°	43.2	8.2	9.4	12.3	11.8	7.0	8.0	100.0
Source: T	Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project	ICI Participant-Dir	ected Retirement F	Plan Data Collection	Project.				

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.	Data Collection Project.
^a Sample of 16.7 million participants with account balances at year-end 2008 and year-end 2009.	008 and year-end 2009.
^b Percentages across the row may not add to total because of rounding.	
^c Percentages in column may not add to total because of rounding.	
Sum of shaded areas: 86.1 percent of participants.	
Note: "Equity funds" include mutual funds, bank collective trusts, life insu	Note: "Equity funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in stocks.

Changes in Consistent Participants Percentage of participants

Source: Tabulations from EBRI/ICI Participant-Directed Retirement Plan Data Collection Project.

^a Sample of 16.7 million participants with account balances at year-end 2008 and year-end 2009.

^b Percentages across the row may not add-total because of rounding.

^c Percentages in column may not add-total because of rounding.

* Less than 0.05 percent.

Sum of shaded areas: 88.5 percent of participants.

Note: "Bond funds" include mutual funds, bank collective trusts, life insurance separate accounts, and any pooled investment product primarily invested in bonds.

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Endnotes

¹ For data on 401(k) plan assets, participants, and plans through 2007, see U.S. Department of Labor, Employee Benefits Security Administration, 2010b. For total retirement assets, including those in 401(k) plans, through the second quarter of 2010, see Brady, Holden, and Short, 2010. For a discussion of trends between defined benefit (DB) and defined contribution (DC) plans, see Poterba, Venti, and Wise, 2007 and Holden, Brady, and Hadley, 2006.

² Prior to 2005, the U.S. Department of Labor *Private Pension Plan Bulletin* updates reported a count of active 401(k) plan participants that had been adjusted from the number of active participants that was actually reported in the Form 5500 filings to exclude: (1) individuals eligible to participate in a 401(k) plan who had not elected to have their employers make contributions; and (2) nonvested former employees who had not (at the time the Form 5500s were submitted) incurred the break in service period established by their plan (see U.S. Department of Labor, Employee Benefits Security Administration, 2008a and 2008b for further detail). This change in methodology results in a dramatic increase in the number of individuals reported as active participants in 401(k) plans; in 2004, the number of active participants increased to 53.1 million (new method) from 44.4 million (old method; see U.S. Department of Labor, Employee Benefits Security Administration, 2008b and 2010b). As the Department of Labor notes: "In a purely economic sense and for research purposes, individuals in these groups should not be included in the count of active participants." However, the form schedule needed to make the adjustment is no longer required. Using National Compensation Survey data and historical relationships and trends evident in the Form 5500 data, ICI estimates the number of active 401(k) participants to be 49.0 million in 2009 and the number of 401(k) plans to be 497,000. The estimate of the number of active 401(k) plan participants is based on a combination of data from U.S. Department of Labor, Bureau of Labor Statistics, 2007, 2008a, 2008b, 2009, 2010a, 2010b, and 2010c; and U.S. Department of Labor, Employee Benefits Security Administration, 2008a, 2008b, 2010a, and 2010b.

³ See Brady, Holden, and Short, 2010.

⁴ The Employee Benefit Research Institute (EBRI) is a nonprofit, nonpartisan, public policy research organization that does not lobby or take positions on legislative proposals.

⁵ The Investment Company Institute (ICI) is the national association of U.S. investment companies, including mutual funds, closed-end funds, exchange-traded funds (ETFs), and unit investment trusts (UITs). ICI seeks to encourage adherence to high ethical standards, promote public understanding, and otherwise advance the interests of funds, their shareholders, directors, and advisers. Members of ICI manage total assets of \$12.05 trillion and serve more than 90 million shareholders (see Bogdan, Sabelhaus, and Schrass, 2010).

⁶ This update extends previous findings from the project for 1996 through 2008. For year-end 2008 results, see Holden, VanDerhei, and Alonso, 2009. Results for earlier years are available in earlier issues of Investment Company Institute *Perspective* (www.ici.org/perspective/index.html) and *EBRI Issue Brief* (www.ebri.org/ publications/ib).

⁷ The EBRI/ICI 401(k) database environment is certified to be fully compliant with the ISO-27002 Information Security Audit standard. Moreover, EBRI has obtained a legal opinion that the methodology used meets the privacy standards of the Gramm-Leach-Bliley Act. At no time has any nonpublic personal information that is personally identifiable, such as Social Security Number, been transferred to or shared with EBRI.

⁸ Account balances are net of unpaid loan balances. Thus, unpaid loan balances are not included in any of the eight asset categories described.

⁹ The cross-sectional analysis for this publication found that consolidating the multiple accounts to the single individual owning them resulted in an overall increase of 7.0 percent in the average 401(k) account balance. This statistic should be interpreted with caution, as it may not represent the total 401(k) assets owned by the individual. The impact of account consolidation varied with the participant's age and tenure with the current employer. The largest increases in average account balance occurred among older participants with fewer years of tenure. For example, among participants in their 60s with two or fewer years of tenure, the average account balance increased 26 percent with the consolidation of their multiple accounts. Among participants in their 50s or 60s with more than 30 years of tenure, the average account balance increased 4 percent with the consolidation of their multiple accounts. Future joint research with this new feature will explore the longitudinal aspects of this consolidation in more detail.

¹⁰ This system of classification does not consider the number of distinct investment options presented to a given participant, but rather the types of options presented. Preliminary research analyzing 1.4 million participants drawn from the 2000 EBRI/ICI 401(k) database suggests that the sheer number of investment options presented does not influence participants. On average, participants have 10.4 distinct options but, on average, choose only 2.5 (Holden and VanDerhei, 2001b). In addition, the preliminary analysis found that 401(k) participants are not naïve—that is, when given "n" options, they do not divide their assets among all "n." Indeed, less than 1 percent of participants followed a "1/n" asset allocation strategy. Profit Sharing/401k Council of America 2010 indicates that in 2009, the average number of investment fund options available for participant contributions was 18 among the 931 plans surveyed; Hewitt Associates, 2009, indicates an average number of investment options of 20 in 2009. Deloitte Consulting LLP, International Foundation of Employee Benefit Plans, and the International Society of Certified Employee Benefit Specialists, 2009, report that the average number of funds offered by the 606 401(k) plan sponsors in their survey was 20 in 2008.

¹¹ The asset allocation path that the target-date fund follows to shift its focus from growth to income over time is typically referred to as the "glide path." Since discussions of asset allocation usually focus on the percentage of the portfolio invested in equities, the glide path generally reflects the declining percentage of equities in the portfolio as it approaches and passes the target date, which is usually indicated in the fund's name. The target date generally is the date at which the typical investor for whom that fund is designed would reach retirement age and stop making new investments in the fund.

¹² Lifestyle funds maintain a predetermined risk level and generally use words such as "conservative," "moderate," or "aggressive" in their name to indicate the fund's risk level. Lifestyle funds generally are included in the non-target-date balanced fund category.

¹³ GICs are insurance company products that guarantee a specific rate of return on the invested capital over the life of the contract.

¹⁴ Other stable value funds include synthetic GICs, which consist of a portfolio of fixed-income securities "wrapped" with a quarantee (typically by an insurance company or a bank) to provide benefit payments according to the plan at book value.

¹⁵ Some recordkeepers supplying data were unable to provide complete asset allocation detail on certain pooled asset classes for one or more of their clients. The final EBRI/ICI 401(k) database includes only plans for which at least 90 percent of all plan assets could be identified.

¹⁶ For 401(k) asset figures, see Brady, Holden, and Short, 2010.

- ¹⁷ Estimates of the number of 401(k) plans and active participants are based on a combination of data from U.S. Department of Labor, Bureau of Labor Statistics, and U.S. Department of Labor, Employee Benefits Security Administration reports. See discussion in endnote 2.
- ¹⁸ Automatic enrollment tends to reduce the average tenure of participants in the 401(k) plan. Profit Sharing/401k Council of America, 2010, reported a leveling out in the incidence of automatic enrollment in 2009, following several years of a rising trend. Of more than 900 plans surveyed 38.4 percent had automatic enrollment in 2009, compared with 39.6 percent of plans in 2008, 35.6 percent of plans in 2007, about 17 percent of plans in 2005, and 10.5 percent of plans in 2004. Eighty-four percent of plans with automatic enrollment in 2009 applied automatic enrollment only to new hires, while 16 percent applied automatic enrollment to all nonparticipants.
- ¹⁹ Because of these changes in the cross-sections, comparing average account balances across different year-end cross-sectional snapshots can lead to false conclusions. For example, newly formed plans would tend to pull down the average account balance, but would tell us nothing about consistently participating workers. Similarly, the aggregate average account balance would tend to be pulled down if a large number of participants retire and roll over their account balances.
- ²⁰ About half of traditional IRA assets resulted from rollovers from employer-sponsored retirement plans. See Brady, Holden, and Short, 2010.
- ²¹ Account balances are net of unpaid loan balances.
- ²² See Figures A6 and A7 in the appendix, which compare the age and tenure composition of the 1999–2009 group to the year-end cross-sectional EBRI/ICI 401(k) database.
- ²³ The value of this percentage is lower than it would have been if it were merely reflecting employee turnover and retirement. The EBRI/ICI 401(k) database has added data providers since 2003, and, by definition, participants in these plans would not be included in the consistent group. Moreover, any time a 401(k) plan sponsor changed service providers, all participants in the plan would be excluded from the consistent group. For the year-end 2003 EBRI/ICI 401(k) database update, see Holden and VanDerhei, 2004a and 2004b.
- ²⁴ See Figures A1 and A2 in the appendix for the age and tenure distribution of the 2003–2009 consistent group of participants compared with the age and tenure distribution of the year-end 2003 and year-end 2009 EBRI/ICI 401(k) database.
- ²⁵ See Figures A4 and A5 in the appendix for asset allocation information for the 2003–2008 consistent group of participants.
- ²⁶ The distribution of account balances across the 2003–2009 consistent group also highlights their higher accumulations. At year-end 2009, 15.4 percent of the consistent group had more than \$200,000 in their 401(k) accounts at their current employers, while another 18.6 percent had between \$100,000 and \$200,000 (see Figure A3 in the Appendix). In contrast, in the broader EBRI/ICI 401(k) database, 7.1 percent of participants had accounts with more than \$200,000, and 9.5 percent had accounts between \$100,000 and \$200,000 (see Figures 10 and A3).
- ²⁷ For statistics indicating the higher propensity of withdrawals among participants in their60s, see Holden and VanDerhei, 2002.
- ²⁸ At year-end 2009, 62 percent of balanced mutual fund assets were invested in equities (see Investment Company Institute, Quarterly Supplementary Data).
- ²⁹ See Figure A4 in the Appendix for the average dollar-weighted asset allocation of the 2003–2009 consistent group of participants by age. In addition, as observed in the cross-sectional EBRI/ICI 401(k) database, among individual 401(k) participants in the 2003–2009 consistent group, the allocation of account balances to equities varied widely around the average of 61 percent for the consistent group as a whole. Thirty-eight percent of participants in the consistent group had more than 80 percent of their accounts invested in equities, while almost 12 percent held no equities at all in 2009 (see Figure A5).
- ³⁰ See total returns for the large company stock index reported in Morningstar, 2010.

- ³¹ Analysis of contribution activity of 401(k) plan participants in 2009 in the EBRI/ICI401(k) database has not been conducted. However, results from an ICI survey of DC plan recordkeepers found that only 3.4 percent of participants stopped contributing to their accounts in 2009 (see Holden, 2010). In addition, analysis of contribution activity during the bear market of 2000–2002 using the cross-sectional EBRI/ICI 401(k) database, found that overall 401(k) participants' contribution rates were little changed in 2000, 2001, and 2002 when compared to 1999 (see Holden and VanDerhei, 2004c). Whether measured in dollar amounts or percentage of salary contributed, on average, 401(k) participants' contribution behavior does not appear to have been materially affected by the bear market in equities from 2000 through 2002.
- ³² At year-end 2009, 2.0 percent of the participants in the database were missing a birth date entry, were younger than 20, or older than 69. They were not included in this analysis.
- ³³ At year-end 2009, 6.8 percent of the participants in the database were missing a date of hire entry and were not included in this analysis.
- ³⁴ The positive correlation between tenure and account balance is expected because long-term employees have had more time to accumulate an account balance. However, a rollover from a previous employer's plan could interfere with this positive correlation because a rollover could give a short-tenured employee a high account balance. There is some discernible evidence of rollover assets among the participants with account balances greater than \$100,000, as 1 percent of them had two or fewer years of tenure, and 4 percent of them had between two and five years of tenure (see Figure 12).
- ³⁵ Because 401(k) plans were introduced about 29 years ago, older and longer-tenured employees would not have participated in 401(k) plans for their entire careers. The Revenue Act of 1978 contained a provision that became Internal Revenue Code Sec. 401(k). The law went into effect on January 1, 1980, but it was not until November 1981 that proposed regulations were issued (see Holden, Brady, and Hadley, 2006; Employee Benefit Research Institute, 2005; and U.S. Internal Revenue Service, 1981).
- ³⁶ There are two possible explanations for the low account balances among this group: (1) their employer's 401(k) plan has only recently been established (82 percent of all 401(k)-type plans in existence in 2007 were established after 1989 [tabulations of U.S. Department of Labor Form 5500 data for 2007]), or (2) the employee only recently joined the plan (whether on his or her own or through automatic enrollment). In either event, job tenure would not accurately reflect actual 401(k) plan participation.
- ³⁷ It is possible that these older, longer-tenured workers accumulated DC plan assets (e.g., possibly in a profit-sharing plan) prior to the introduction of 401(k) plan features. However, such DC plan arrangements generally did not permit employee contributions and often were designed to be supplemental to other employer plans. These participants' account balances that pre-date the 401(k) plan are not included in this analysis, which focuses on 401(k) balance amounts.
- ³⁸ Social Security replaces a much higher fraction of pre-retirement earnings for lower-income workers. For example, the first-year replacement rate (scheduled Social Security benefits as a percentage of average career earnings) for retired workers in the 1940–1949 birth cohort (individuals ages 60 to 69 in 2009) decreased as income increased. The median replacement rate for the lowest household lifetime earnings quintile was 71 percent; for the middle quintile, the median Social Security replacement rate was 43 percent; and for the highest quintile it was 31 percent. See Congressional Budget Office, 2010.
- ³⁹ The ratio of 401(k) account balance (at the current employer) to salary alone is not an indicator of preparedness for retirement. A complete analysis of preparedness for retirement would require estimating projected balances at retirement by also considering retirement income from Social Security, defined benefit plans, IRAs, and other DC plans, possibly from previous employment. For references to such research, see Holden and VanDerhei, 2005. For an analysis of the possible impact of automatic increases in participants' contribution rates in automatic enrollment plans, see VanDerhei, 2010 and VanDerhei and Lucas, 2010. For a discussion of the variety of factors (e.g., taxes, savings, mortgages, children) that impact replacement rates, see Brady, 2008. For an analysis of the impact of changes in Social Security between 1992 and 2004 on retirement patterns, see Gustman and Steinmeier, 2008.
- ⁴⁰ The tendency of the account balance-to-salary ratio to peak at higher salary levels and then fall off likely reflects the influence of two competing forces. First, empirical research suggests that higher earners tend to contribute higher percentages of salary; therefore, one would expect the ratio of account balance to salary to rise with salary. However, tax

code contribution limits and nondiscrimination rules, which aim to ensure that employees of all income ranges attain the benefits of the 401(k) plan, constrain these high-income individuals' ability to save in the plan. See Holden and VanDerhei, 2001c for a complete discussion of EBRI/ICI findings and others' research on the relationship between contribution rates and salary. For an analysis of 401(k) participants' contribution activity during the bear market of 2000 to 2002, see Holden and VanDerhei, 2004c. For summary statistics on contribution activity in 2009, see The Vanguard Group, 2010 and Hewitt Associates, 2010.

- ⁴¹ At year-end 2009, 62 percent of balanced mutual fund assets were invested in equities (see Investment Company Institute, *Quarterly Supplementary Data*).
- ⁴² Other research suggests that most 401(k) participants do not make active changes to their asset allocations during any given year. For example, an ICI survey of recordkeepers covering nearly 24 million DC plan participant accounts found that 11.8 percent of DC plan participants changed the asset allocation of their account balances in 2009 and 10.5 percent changed the asset allocation of their contributions during 2009 (see Holden, 2010). Covering a year earlier, the ICI survey of recordkeepers covering more than 22 million DC plan participant accounts found that 14.4 percent of DC plan participants changed the asset allocation of their account balances in 2008 and 12.4 percent changed the asset allocation of their contributions during 2008 (see Holden, 2010). Utkus and Young, 2010, reported that 13 percent of DC plan participants traded in their retirement accounts in 2009, analyzing the plans administered by Vanguard. Analyzing a year earlier, The Vanquard Group 2009 reported that "despite the substantial market volatility of 2008, only 16 [percent] of participants made one or more portfolio trades or exchanges during the year." Hewitt Associates, 2010, found that 16.2 percent of participants traded in their accounts in 2009, and 19.7 percent changed the asset allocation of their contributions. Hewitt Associates, 2009a, reported that 19.6 percent of participants made asset transfers in their account balances during 2008, which was "up only marginally" from 2007 (although, they tended to move larger portions of their account balances). Fidelity Investments, 2008, reported that overall only 6.6 percent of participants in their recordkeeping system made exchanges during September, October, and November 2008, a time of stock market volatility. Furthermore, Choi et al., 2001, found that 401(k) participants rarely made changes after the initial point of enrollment. (For household survey results from late 2009 reflecting households' sentiment toward and confidence in 401(k) plans, see Holden, Sabelhaus, and Reid, 2010.)
- ⁴³ Holden, VanDerhei, and Alonso 2009 presents a similar analysis of changes in asset allocation among a consistent group of participants with account balances at the end of 2007 and 2008 in the 2008 EBRI/ICI 401(k) database. Holden and VanDerhei, 2003 presents a similar analysis of changes in asset allocation among a consistent group of participants with account balances at the end of each year from 1999 through 2002 in the EBRI/ICI 401(k) database. Holden, VanDerhei, and Quick, 2000, includes an analysis of changes in equity fund asset allocations among participants with account balances at the end of each year from 1996 to 1998 in the EBRI/ ICI 401(k) database.
- ⁴⁴ See Figure A13 in the Appendix for a detailed presentation of the changing percentages of account balance invested in equity funds among the 16.7 million 401(k) participants with account balances in the EBRI/ICI 401(k) database at year-end 2008 and year-end 2009.
- ⁴⁵ See Figure A13 in the Appendix for a detailed presentation of the changing percentages of account balance invested in equity funds among the 16.7 million 401(k) participants with account balances in the EBRI/ICI 401(k) database at year-end 2008 and year-end 2009.
- ⁴⁶ See Figure A14 in the Appendix for a detailed presentation of the changing percentages of account balance invested in bond funds among the 16.7 million 401(k) participants with account balances in the EBRI/ICI 401(k) database at year-end 2008 and year-end 2009.
- ⁴⁷ Participants in their 20s hold approximately 2 percent of the total assets in the 2009 EBRI/ICI 401(k) database; participants in their 30s hold about 12 percent; participants in their 40s hold 29 percent; participants in their 50s hold 41 percent; and participants in their 60s hold the remaining 17 percent of the total assets.
- ⁴⁸ See endnote 11 for additional detail on target-date funds.
- ⁴⁹ For year-end 2008 data, see Holden, VanDerhei, and Alonso, 2009.
- ⁵⁰ For year-end 2007 data, see Holden, VanDerhei, et al., 2008.

- ⁵⁵ In the database, there has been a downward trend in 401(k) plan participants' holdings of and concentration in company stock. In the wake of the collapse of Enron in 2001, participants' awareness of the need to diversify may have increased and some plan sponsors changed plan design (see VanDerhei, 2002). In addition, some of this movement may be the result of regulations put in place by the Pension Protection Act of 2006 (PPA), which resulted in regulations that limit the length of time participants could be required to hold company stock contributed to their accounts by their employer; specified rules regarding the notification of blackout periods; and required quarterly statements that must include notice highlighting the importance of diversification (see U.S. Joint Committee on Taxation, 2006).
- ⁵⁶ Plan-specific information on loan provisions is available for the majority of the plans in the sample (including virtually all of the small plans). Some plans without this information are classified as having a loan provision if any participant in the plan has an outstanding loan balance. This may understate the number of plans offering loans (or participants eligible for loans) because some plans may have offered, but no participant had taken out, a plan loan. It is likely that this omission is small, as U.S. Government Accountability Office, 1997 found that more than 95 percent of 401(k) plans that offer loans had at least one plan participant with an outstanding loan.
- ⁵⁷ The percentage of 401(k) participants with 401(k) loans outstanding across all participants both with and without 401(k) plan loan access was similar in earlier years. For example, in 2007, 16 percent, and in 2006, 15 percent.
- ⁵⁸ In plan-year 2007 (latest data available), only 1.6 percent of the \$3.0 trillion in 401(k) plan assets were participant loans. In addition, only \$604 million flowed out of 401(k) plans as the result of converting a loan into a withdrawal/distribution ("deemed distribution of participant loans"). See U.S. Department of Labor, Employee Benefits Security Administration, 2010a.

- ⁶⁰ The value of this percentage is lower than it would have been if it were merely reflecting employee turnover and retirement. The EBRI/ICI 401(k) database has added data providers since 2003, and by definition participants in these plans would not be included in the consistent group. Moreover, any time a 401(k) plan sponsor changed service providers, all participants in the plan would be excluded from the consistent group. For the year-end 2003 EBRI/ICI 401(k) database update, see Holden and VanDerhei, 2004a and 2004b.
- ⁶¹ The value of this percentage is lower than it would have been if it were merely reflecting employee turnover and retirement. The EBRI/ICI 401(k) database has added data providers since 1999, and by definition participants in these plans would not be included in the consistent group. Moreover, any time a 401(k) plan sponsor changed service providers, all participants in the plan would be excluded from the consistent group. For the year-end 1999 EBRI/ICI 401(k) database update, see Holden and VanDerhei, 2001a.
- ⁶² For statistics indicating the higher propensity of withdrawals among participants in their 60s, see Holden and VanDerhei, 2002.
- ⁶³ At year-end 2009,62 percent of balanced mutual fund assets were invested in equities (see Investment Company Institute, *Quarterly Supplementary Data*).
- ⁶⁴ For an analysis of contribution activity during the bear market of 2000–2002 using the cross-sectional EBRI/ICI 401(k) database, see Holden and VanDerhei, 2004c. The analysis found that overall 401(k) participants' contribution rates were little changed in 2000, 2001, and 2002 when compared with 1999. Whether measured in dollar amounts or percentage of salary contributed, on average, 401(k) participants' contribution behavior does not appear to have been materially affected by the bear market in equities from 2000 through 2002.

⁵¹ Target-date funds have been increasingly used as the default investment in automatic enrollment plans and in plans' investment lineups (see Profit Sharing/401k Council of America, 2010). At year-end 2009, 66 percent of target-date mutual fund assets were held in DC plans (see Brady, Holden, and Short, 2010).

⁵² For year-end 2008 data, see Holden, VanDerhei, and Alonso, 2009.

⁵³ See Holden, VanDerhei, et al., 2008, and Holden, VanDerhei, and Alonso, 2009, for data on earlier years.

⁵⁴ For year-end 2008 data, see Holden, VanDerhei, and Alonso, 2009.

⁵⁹ This pattern is driven in part by restrictions placed on loan amounts.



Issue!

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