



CONGRESSIONAL BUDGET OFFICE
U.S. Congress
Washington, DC 20515

February 8, 2006

Honorable Jim Kolbe
U.S. House of Representatives
Washington, DC 20515

Dear Congressman:

As requested in your letter of July 12, 2005, the Congressional Budget Office (CBO) has analyzed the Social Security proposal developed by Jeffrey Liebman of the Kennedy School of Government, Maya MacGuineas of the New America Foundation, and Andrew Samwick of Dartmouth College. Their LMS proposal would reduce traditional Social Security retirement benefits, increase revenues, and create a new system of individual accounts.

The proposal would reduce traditional Social Security retirement benefits through adjustments to the benefit formula and an increase to 68 in the normal retirement age. It would also increase the earliest eligibility age from 62 to 65 and create a low-earner supplement.

The proposal would boost revenues by raising the taxable maximum (the maximum amount of earnings that is subject to the payroll tax) and by requiring workers to deposit an additional 1.5 percent of their taxable earnings into individual accounts. Also, 1.5 percentage points of the payroll tax would be diverted to the accounts from existing revenues, so a total of 3 percent of taxable earnings would be deposited in the accounts.

The proposed benefit reductions and revenue increases would generally result in improved federal budget balances. However, the proposal would initially result in increased federal budget deficits because the redirection of payroll taxes to individual accounts would appear in the budget as outlays.

Total benefits received by participants, including payouts from individual accounts, would be slightly lower than under current law until about 2035. They would then be approximately equal to current-law benefits until 2052.

Under current law, the trust funds will become exhausted in 2052, CBO projects, at which point annual benefits would be limited to annual revenues. After that year, total benefits would be substantially higher under the proposal. The trust funds would become exhausted in 2089 under the proposal, but total benefits would remain substantially higher than under current law throughout the 100-year projection period (through 2105).

Honorable Jim Kolbe
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This analysis examines revenues and outlays on the basis of current law, meaning that outlays are limited to current revenues in years after trust fund exhaustion. Appendix A contains a similar analysis based on scheduled benefits, which assumes that those benefits are paid in full even after trust fund exhaustion.

Analysis of the LMS proposal is based on a description of it provided by the authors; no bill has been introduced. CBO made its projections using the 2004 Social Security trustees' demographic assumptions and CBO's January 2005 economic assumptions. The analysis does not reflect any considerations of the potential effects on the macroeconomy that may occur under the proposal. CBO has not produced a 10-year cost estimate.

The underlying data for the figures in this analysis are available on CBO's Web site (www.cbo.gov). If you would like any additional information on these analyses, we will be pleased to provide it. The CBO staff contact for the analysis is Noah Meyerson.

Sincerely,



Donald B. Marron
Acting Director

Enclosure

cc: Honorable William "Bill" M. Thomas
Chairman
Committee on Ways and Means
U.S. House of Representatives

Honorable Charles B. Rangel
Ranking Democratic Member
Committee on Ways and Means
U.S. House of Representatives

Honorable Jim McCrery
Chairman
Subcommittee on Social Security
Committee on Ways and Means
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Honorable Sander M. Levin
Ranking Democratic Member
Subcommittee on Social Security
Committee on Ways and Means
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Honorable Charles E. Grassley
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Committee on Finance
U.S. Senate

Honorable Max Baucus
Ranking Democratic Member
Committee on Finance
U.S. Senate

Honorable Jim Nussle
Chairman
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U.S. House of Representatives

Honorable John M. Spratt
Ranking Democratic Member
Committee on the Budget
U.S. House of Representatives

Honorable Judd Gregg
Chairman
Committee on the Budget
U.S. Senate

Honorable Kent Conrad
Ranking Democratic Member
Committee on the Budget
U.S. Senate

Long-Term Analysis of the Liebman-MacGuineas-Samwick Proposal

February 8, 2006

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Overview

The Congressional Budget Office (CBO) has analyzed the Social Security proposal developed by Jeffrey Liebman of the Kennedy School of Government, Maya MacGuineas of the New America Foundation, and Andrew Samwick of Dartmouth College. Their LMS proposal would reduce traditional Social Security retirement benefits, increase revenues, and create a new system of individual accounts.

The proposal would reduce traditional Social Security retirement benefits through adjustments to the benefit formula and an increase to 68 in the normal retirement age (NRA). It would also increase the earliest eligibility age from 62 to 65 and create a low-earner supplement.

The proposal would boost revenues by raising the taxable maximum (the maximum amount of earnings that is subject to the payroll tax) and by requiring workers to deposit an additional 1.5 percent of their taxable earnings into individual accounts. Also, 1.5 percentage points of the payroll tax would be diverted to the accounts from existing revenues, so a total of 3 percent of taxable earnings would be deposited in the accounts.

The proposed benefit reductions and revenue increases would generally result in improved federal budget balances. However, the proposal would initially result in increased federal budget deficits because the redirection of payroll taxes to individual accounts would appear in the budget as outlays.

Total benefits received by participants, including payouts from individual accounts, would be slightly lower than under current law until about 2035. They would then be approximately equal to current-law benefits until 2052.

Under current law, the trust funds will become exhausted in 2052, CBO projects, at which point annual benefits would be limited to annual revenues. After that year, total benefits would be substantially higher under the proposal. The trust funds would become exhausted in 2089 under the proposal, but total benefits would remain substantially higher than under current law throughout the 100-year projection period (through 2105).

This analysis examines revenues and outlays on the basis of current law, meaning that outlays are limited to current revenues in years after trust fund exhaustion. Appendix A contains a similar analysis based on scheduled benefits, which assumes that those benefits are paid in full even after trust fund exhaustion.

Analysis of the LMS proposal is based on a description of it provided by the authors; no bill has been introduced. CBO made its projections using the 2004 Social Security trustees' demographic assumptions and CBO's January 2005 economic assumptions. The analysis does not reflect any considerations of the potential effects on the macroeconomy that may occur under the proposal. CBO has not produced a 10-year cost estimate.

Detailed Description of the LMS Proposal

Decreases to Retirement Benefits

- Changes in Benefit Formula: The replacement factors would be reduced under the proposal. The 90 percent replacement factor would be reduced by 0.75 percent per year from 2013 through 2050. (Specifically, the rate would be equal to 0.9925 times the rate in the previous year.) The 32 percent and 15 percent replacement factors would be reduced by 1.8 percent annually. (Each year, the rate would be equal to 0.982 times the rate in the previous year.) The reduction in the 32 percent replacement factor would begin in 2013 and end in 2050. The reduction in the 15 percent replacement factor would begin in 2008 and end in 2045. By 2050, the replacement factors would fall from 90, 32, and 15 percent to 67.6, 16.0, and 7.5 percent.
- Retirement Age: Under current law, the normal retirement age will first rise to 66 for people who turn 62 in 2005. After 12 years, it will again climb in two-month steps for six years, reaching 67 for people who turn 62 in 2022 or later. The proposal would eliminate the 12-year hiatus, and the NRA would ultimately increase to 68. Specifically, the NRA would be 66 and 2 months for people born in 1944 and then increase by two months per birth year, so people born in 1955 and later would have an NRA of 68. (The analysis did not consider the administrative feasibility of changing the NRA for people turning 62 in 2006.)
- Earliest Eligibility Age: The earliest eligibility age would increase from 62 to 65. It would increase to 62 and 2 months for people born in 1955 and then increase by two months per birth year, reaching 65 for those born in 1972 and later.
- Conversion to Old-Age Benefits: Disability benefits would not be affected by the proposal. However, as under current law, once a disabled beneficiary reached normal retirement age, he or she would receive retirement benefits. Under current law, benefits do not change when a disabled worker beneficiary reaches the NRA, but they would fall under the proposal. The reductions to retirement benefits for workers who were entitled to disability benefits at some point in their lives would increase proportionately to the time, between ages 22 and the earliest eligibility age, that they were disabled. For example, a worker who was entitled to disability benefits for most of his life would receive retirement benefits that were approximately equal to current-law benefits. In contrast, someone who became disabled at age 60 would be subject to nearly all of the retiree benefit reductions specified under the proposal.

Increases to Retirement Benefits

- Low-Earner Benefit: A “low-earner enhanced benefit” would be established for workers with low earnings over many years of work. This provision was originally proposed as an element of Plan 2 of the President’s Commission to Strengthen Social Security. The enhanced benefit would be phased in over 10 years, from 2011 to 2020. The provision would increase traditional benefits by up to 40.4 percent (relative to those that would be paid under the proposal without this provision). That 40.4 percent increase would apply to a worker who earned the minimum wage for at least 30 years; the increase would be

smaller for eligible workers with higher earnings or fewer years of work. The provision would also apply to disabled worker beneficiaries, with parameters adjusted to account for their fewer potential years of work.

Auxiliary Benefits

- High-Earning Spouse Benefits: Under current law, a dependent spouse's benefits are based on an amount equal to 50 percent of the worker's primary insurance amount (PIA). Under the proposal, spousal benefits (before any actuarial reduction) would be capped at an amount equal to 50 percent of the PIA of the average worker in the cohort. This provision would be phased in over 15 years. Benefits for spouses born in 1950 and earlier would not be affected, and the provision would apply fully to spouses born in 1965 and later. For spouses born between 1951 and 1964, the spousal benefit would be based on a weighted average of the two.
- Widow(er) Benefits: Under current law, a surviving spouse is eligible for between one-half and two-thirds of the total Social Security benefit that would have been paid to the couple if the deceased spouse were still alive. Under the proposal, benefits for some survivors would be increased to 75 percent of the couple benefit. The benefit for the surviving spouse (before any actuarial reduction) could not exceed the average PIA for retired-worker benefits in the December before the month of entitlement to the widow(er)s benefit (or, if the month of entitlement is December, then that same month). The proposed change would be implemented for those who apply for a surviving spouse's benefit beginning in 2010.

Individual Accounts

Every worker born in 1951 or later would be required to have an individual account. Beginning in 2008, an amount equal to 3 percent of each worker's earnings below the current-law taxable maximum would be transferred into that account. A portion of the transferred amount would be funded directly from the Social Security trust funds (a "carve-out"), and the remainder would be funded by a mandatory contribution from participants (an "add-on"). At first, the total costs of the carve-out portion would be equal to the primary Social Security surplus (revenue, not including interest credited to the trust funds, minus outlays), and the additional mandatory contributions would fund the rest. Once the primary surplus fell below 1.5 percent of taxable payroll, which CBO projects will occur in 2014, the costs would be split evenly: 1.5 percentage points would be a carve-out, and 1.5 percentage points would be an add-on.

Each account holder would select from one of 15 private fund companies certified by the government to manage accounts in a system patterned after the federal employees' Thrift Savings Plan. CBO assumes that the selected companies would compete on the basis of cost and that they would submit the lowest cost bids. As a result, the annual administrative cost would be \$38 per account in 2008, CBO estimates. That cost is assumed to grow with average wages thereafter. CBO also assumes that administrative costs would be charged as a percentage of each account. Effectively, then, small accounts would pay less than the actual cost per account and large accounts would pay more. In 2008, administrative costs

would be about 4 percent of assets because account balances would be small. As accounts grew, administrative expenses would decline as a share of assets, falling to 0.4 percent after 10 years and leveling out at 0.2 percent after 30 years.

All payments from individual accounts would be paid as annuities, which would initially be required to be fixed, inflation-indexed annuities provided by the Social Security Administration as part of a beneficiary's regular Social Security benefit. Annuities would be 10-year certain annuities, which make payments to heirs of participants who collect benefits for fewer than 10 years after annuitization. Married beneficiaries would be required to purchase joint and two-thirds survivor annuities. The proposal would require full annuitization by age 68, but beneficiaries could choose to spread annuitization between 62 and 68 if they so desired.

In the case of divorce, the amount of the account balances that was accrued during the marriage would be divided equally between the spouses. If an account holder died before annuitization, the account balance would be transferred to the spouse's account; if there was no spouse, the balance would become part of the individual's estate.

To allow for direct comparison with the traditional benefit structure, CBO assumed two simplifications to the annuity structure: First, annuities are assumed to begin at the same time that traditional benefits are claimed. Second, the account balance is assumed to be paid out as a straight-life annuity rather than a 10-year certain annuity. With a 10-year certain annuity, monthly payments would be lower than shown, but some heirs of participants would also receive payments.

Unlike some proposals that include individual accounts, the LMS proposal would have no benefit offset. In other words, the size of the payouts from an individual's account would have no direct effect on the size of the traditional benefit payment.

Payouts from individual accounts would be taxed in the same way as taxes on traditional benefits, and the revenues from taxation would be deposited in the Social Security and Medicare trust funds in the same way as traditional benefits.

Revenues

The taxable maximum would be gradually increased until 90 percent of covered earnings were taxable. Under current law, about 83 percent of covered earnings fall below the taxable maximum, which is \$94,200 in 2006. The increase would begin in 2015, the year in which the primary surplus is projected to fall below 1.5 percent of taxable payroll. (That is the same year in which the individual account contribution structure described above would stabilize at 1.5 percentage points on each side.) The increase would be phased in so that the annual Social Security balance would remain at zero as long as possible. As a result, 90 percent of earnings would be taxable beginning in 2021. The increase in the taxable maximum would have no effect on benefits; only earnings up to the taxable maximum under current law would be used for computing benefits.

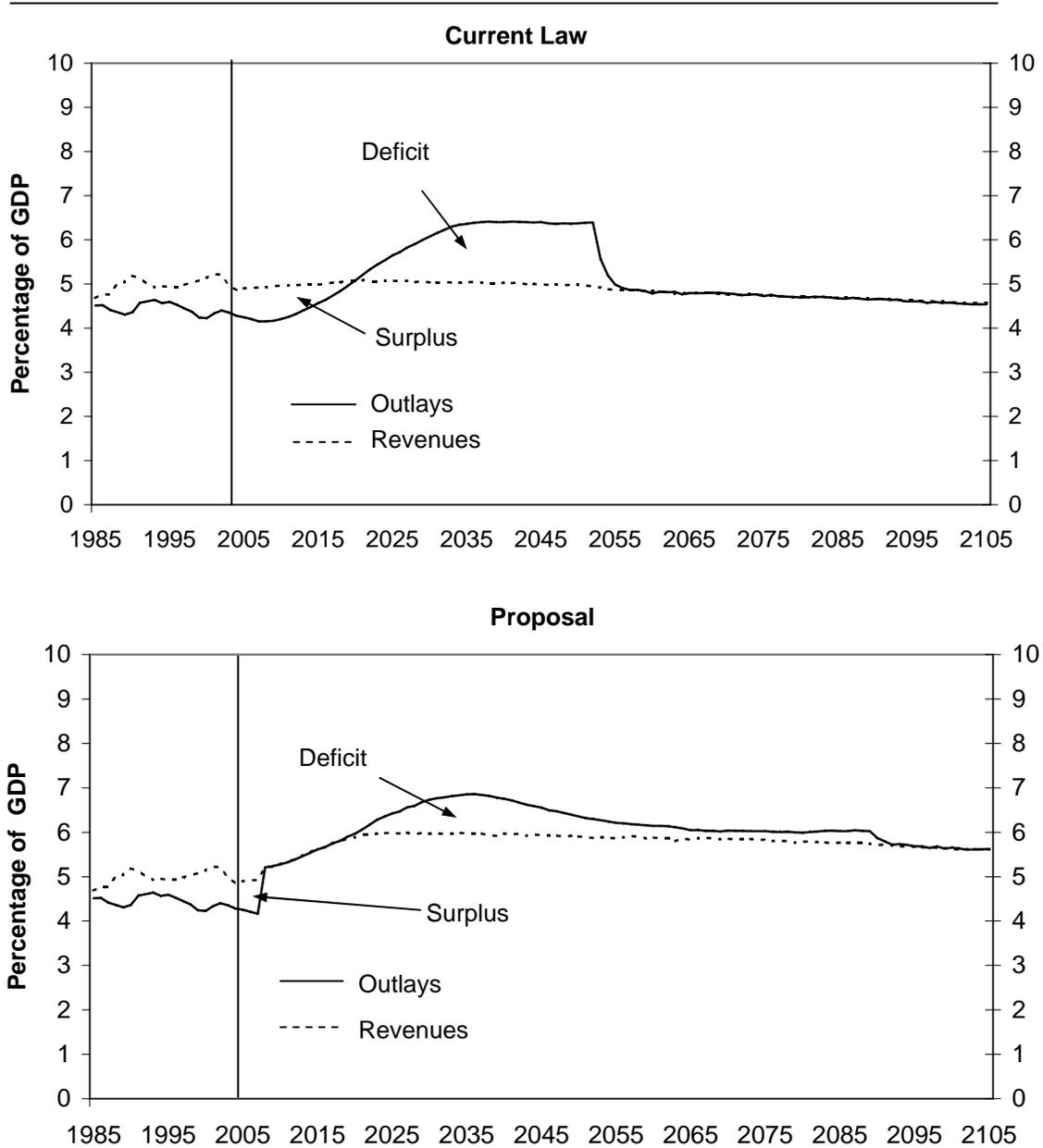
Figure 1: Effect on Social Security Finances

Figure 1 displays Social Security outlays and revenues as a share of gross domestic product (GDP). Revenues include payroll taxes (including the additional mandatory contribution to individual accounts) and income taxes on benefits, but they exclude interest credited to the Social Security trust funds. Outlays include Social Security benefits, administrative costs charged to the trust funds, and outlays to individual accounts.

- Under the proposal, transfers to individual accounts would begin in 2008. Revenues would increase sharply in that year as participants began to make the additional mandatory contributions to the accounts. In 2008, those mandatory contributions would equal 0.3 percent of GDP. Outlays would increase by more than twice as much, however, since an amount equal to the primary surplus plus the mandatory contributions would be transferred from the trust funds to the individual accounts.
- Under current law, outlays are projected to exceed revenues beginning in 2020 and to exceed the sum of revenues and interest credited to the Social Security trust funds beginning in 2033. The trust funds would be exhausted in 2052; thereafter, outlays in each year would be limited to current revenue.
- Under the proposal, outlays would equal revenues from 2008 through 2020. Thereafter, outlays would be larger than revenues, but the annual deficits would be substantially lower than under current law. Outlays would first exceed revenues and interest in 2035, and trust fund exhaustion would occur in 2089.
- Trust fund exhaustion would occur later under the proposal than under current law, so outlays would be higher under the proposal from 2053 through 2089, and annual balances would be lower.

Figure 1.

Social Security Revenues and Outlays as a Share of GDP Under Current Law and the LMS Proposal, 1985 to 2105



Source: Congressional Budget Office.

Figure 2: Net Effect on the Federal Budget

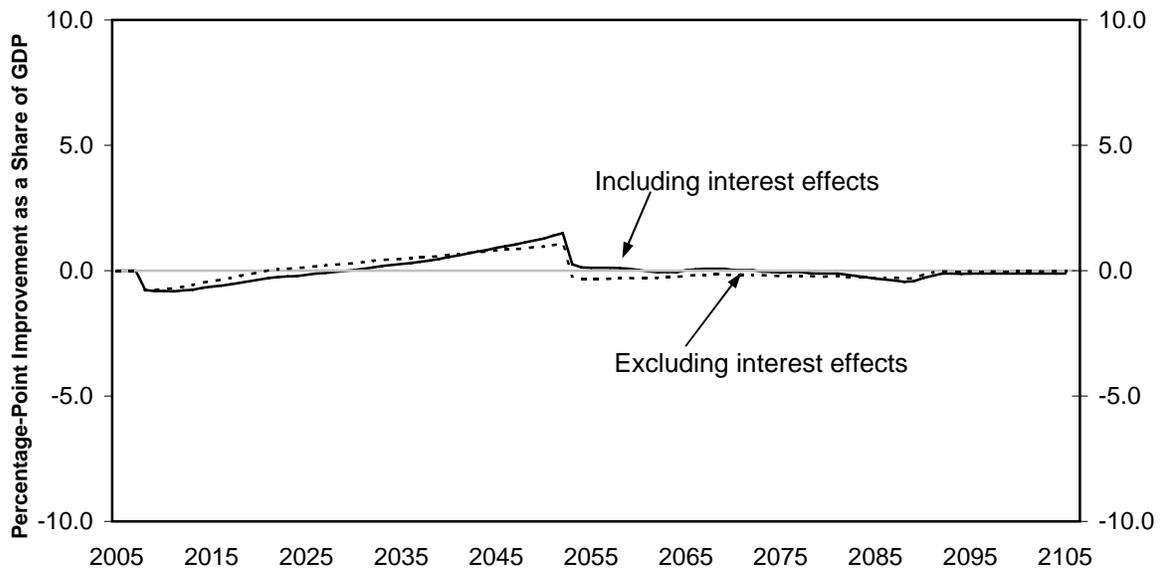
The effects on the total federal budget balances as a share of GDP are illustrated in Figure 2. Negative numbers mean the proposal would increase the deficit (or reduce the surplus). Positive numbers indicate that the proposal would reduce the deficit (or increase the surplus).

The dotted line shows the effect of the proposal on the primary budget balance—the balance excluding interest effects, which are the budgetary cost of additional debt held by the public. The solid line includes interest effects.

- Initially—from 2008 to 2020—the additional outlays to individual accounts under the proposal would result in larger primary deficits. (Including increased interest costs, deficits would be larger until 2029.) After 2021, the savings from the reductions to traditional Social Security benefits and the additional revenue from the higher taxable maximum would be larger than the costs of the additional outlays.
- Benefits are assumed to be automatically reduced upon trust fund exhaustion. Under current law, exhaustion will occur in 2052, CBO projects. Under the proposal, scheduled benefits could be paid through 2089, when the trust funds would become exhausted. As a result, from 2053 through 2089, outlays and the deficit would be higher under the proposal than under current law.
- Following trust fund exhaustion, outlays would be automatically reduced so that they would equal revenue, as is the case under current law. Once the trust funds were exhausted, government debt would be the same as under current law, so interest costs would be the same as well.

Figure 2.

Effects of the LMS Proposal on Total Annual Budget Balances as a Share of GDP Relative to Current Law, 2005 to 2105



Source: Congressional Budget Office.

Table 1: Effect on Social Security Finances for Specific Years and Provisions

The top panel of Table 1 shows snapshot measures of Social Security finances under current law at 20-year intervals. Following trust fund exhaustion, benefits are automatically reduced so that annual outlays equal annual revenues. The fourth line shows the size of the automatic benefit reduction.

- Under current law, automatic benefit reductions begin in 2053 (as shown in Figure 1). By 2065, automatic benefit reductions total 1.68 percent of GDP and by 2105 amount to 2.15 percent of GDP.

The middle panel shows the effects of the proposal's individual provisions on Social Security finances.

- Because outlays to the individual accounts would be greater than the additional mandatory contributions, the introduction of those accounts would worsen the annual balance. As more participants reach retirement age and begin drawing from the accounts, the amount of additional revenue from the taxation of the benefits paid from the accounts would increase. As a result, the negative effect of that provision on budget balances would diminish over time.
- Increasing the normal retirement age is effectively equivalent to a reduction in benefits, so that provision would improve the annual balance.
- Increasing the earliest eligibility age would have little effect on the present value of lifetime outlays. Retirees would receive higher monthly payments, but they would receive them for fewer years. As a result, this provision would shift the timing of outlays: it would reduce outlays in earlier years and increase them in later years. Over the long term, it would result in a small increase in the present value of outlays and in federal debt. The increase would occur for two reasons: First, it would induce more workers to apply for and receive disability benefits. Second, for the average beneficiary, lifetime benefits currently are approximately the same regardless of the age at which they are claimed. But even as life expectancy increases, the adjustments made to annual benefits for claiming before or after the normal retirement age will remain constant. As a result, claiming at a later age will result in higher lifetime benefits. In the future, therefore, forcing beneficiaries to claim at a later age would result in higher lifetime benefits.
- Reducing retirement benefits and increasing the taxable maximum would improve annual balances; the low-earner benefit enhancement would worsen balances. The widow and spouse adjustments would have little effect on overall finances.

The third panel shows measures of Social Security finances under the proposal.

- Under the proposal, automatic benefit reductions would start following trust fund exhaustion in 2089. In 2105, for example, scheduled outlays would be 0.43 percent of GDP higher than revenues, so there would be an automatic benefit reduction of 0.43 percent of GDP.

Table 1.

**Social Security Finances Under Current Law and the LMS Proposal as a Share of GDP,
2005 to 2105**

	2005	2025	2045	2065	2085	2105
Social Security Finances Under Current Law						
Revenues ^a	4.90	5.07	4.99	4.78	4.70	4.57
Outlays ^b	4.25	5.64	6.39	4.78	4.70	4.57
Balance ^c	0.65	-0.57	-1.40	0.00	0.00	0.00
Automatic Benefit Reduction ^d	0.00	0.00	0.00	1.68	1.91	2.15
Effects on Balance Plus Automatic Benefit Reduction under Proposed Provisions						
1.5% Carve-out/1.5% Add-on individual account	0.00	-0.64	-0.55	-0.40	-0.38	-0.33
CSSS Plan 2 low-earner enhancement	0.00	-0.20	-0.33	-0.36	-0.37	-0.39
Raise EEA to 65	0.00	0.12	-0.03	-0.28	-0.30	-0.32
Raise benefits for widow(er)s	0.00	-0.02	-0.03	-0.04	-0.02	-0.02
Reduce spouse benefits for high earners	0.00	0.01	0.02	0.02	0.04	0.04
Eliminate NRA hiatus and raise to 68	0.00	0.28	0.29	0.29	0.27	0.26
Increase taxable maximum without benefits	0.00	0.36	0.42	0.41	0.40	0.40
Reduce OAI replacement factors	0.00	0.24	1.00	1.69	1.89	1.94
Interactions Among Provisions	0.00	-0.01	0.00	0.13	0.12	0.14
Total Effects, All Provisions	0.00	0.13	0.78	1.46	1.65	1.72
Social Security Finances Under Proposal						
Revenues	4.90	5.98	5.93	5.82	5.77	5.61
Outlays	4.25	6.42	6.55	6.05	6.02	5.61
Balance	0.65	-0.44	-0.62	-0.22	-0.26	0.00
Transfers from Rest of Government	0.00	0.00	0.00	0.00	0.00	0.00
Automatic Benefit Reduction	0.00	0.00	0.00	0.00	0.00	0.43

Source: Congressional Budget Office.

- a. Revenues equal payroll taxes and income taxes on benefits (but not interest credited to the trust funds) in the specified year.
- b. Outlays equal Social Security benefits, redirections of payroll taxes to individual accounts, and administrative costs.
- c. The balance is the difference between revenues and outlays; it may not equal the difference of the previous two rows because of rounding.
- d. Equal to the difference between scheduled outlays and scheduled revenues in years after trust fund exhaustion.

Figure 3: Trust Fund Ratio

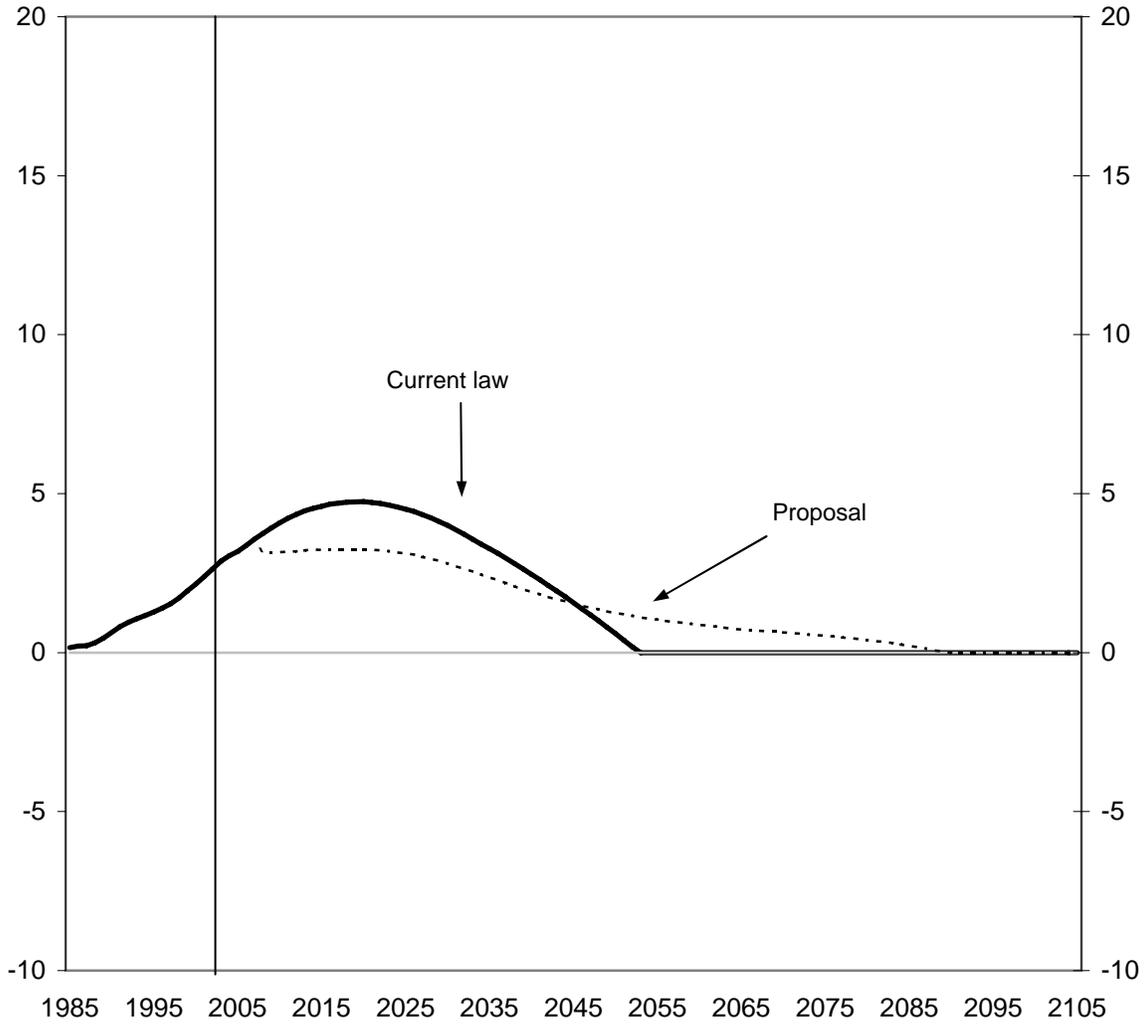
The trust fund ratio—a measure of the adequacy of the trust funds—is the ratio of the total trust fund balance at the beginning of the calendar year to total Social Security outlays during that year. After the trust funds are exhausted, outlays are limited to Social Security revenues, holding the ratio at zero.

All trust fund assets are included, regardless of their source. For example, an intragovernmental transfer to the trust funds would increase the trust fund ratio but would have no direct effect on the total federal budget. However, this proposal does not include any intragovernmental transfers.

- The elimination of the surplus in earlier years, followed by lower deficits in later years—as shown in Figure 1—would result in lower trust fund balances in earlier years, followed by higher balances in later years. Under current law, the trust funds become exhausted in 2052, while that would not occur until 2089 under the proposal.

Figure 3.

Social Security Trust Fund Ratios Under Current Law and the LMS Proposal, 1985 to 2105



Source: Congressional Budget Office.

Figure 4: Total Social Security Benefits

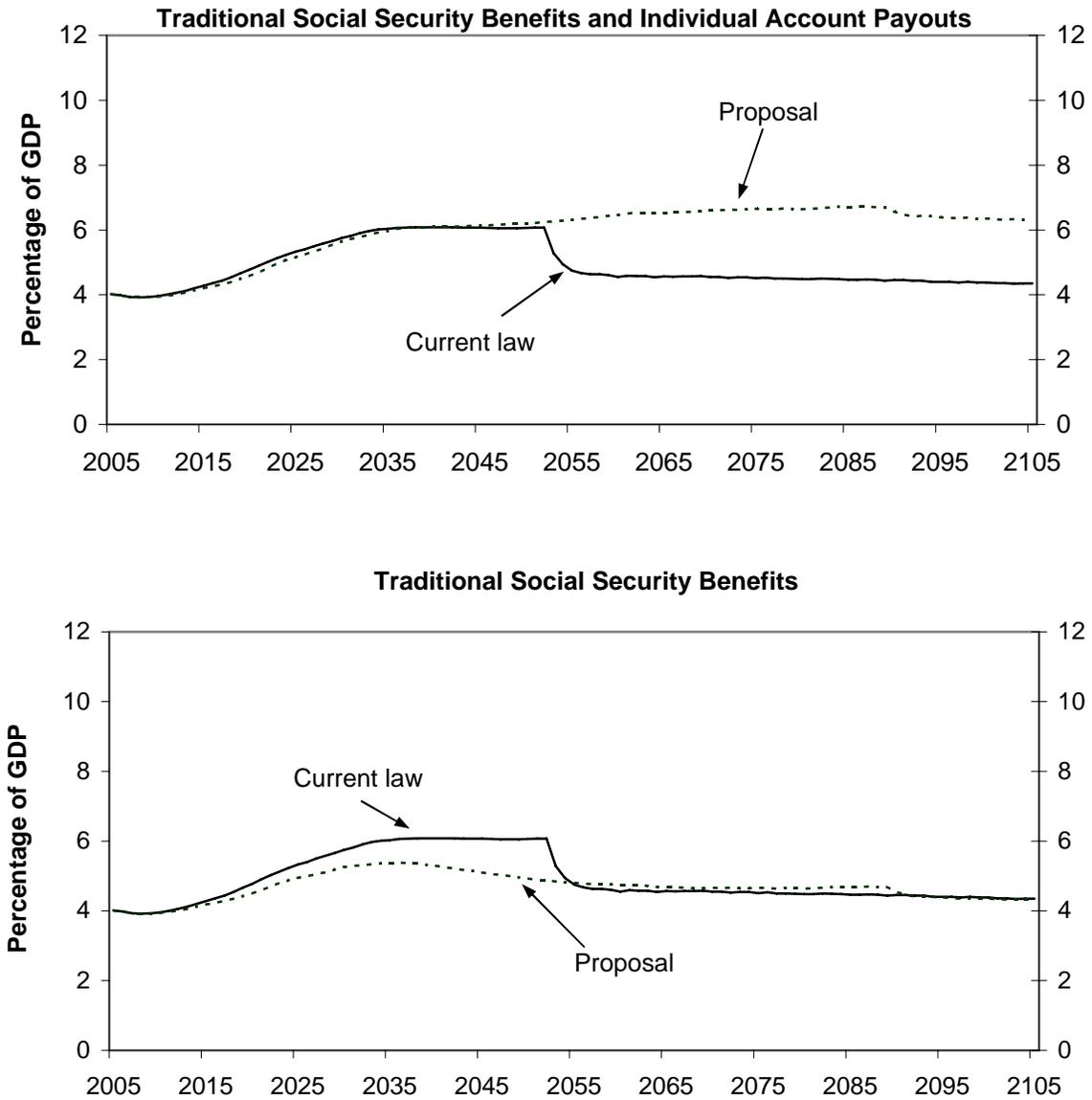
The top panel of Figure 4 shows total Social Security benefits. For the proposal, this includes the annuitized payouts from individual accounts received by beneficiaries.

The bottom panel shows only the traditional Social Security benefits received by beneficiaries.

- From 2006 through about 2035, total Social Security benefits would be slightly lower under the proposal than under current law because of the proposed benefit reductions. They would then be approximately equal to current-law levels through 2052.
- Under current law, benefits would be automatically reduced upon trust fund exhaustion; so from 2053 through 2089, total benefits would be significantly higher under the proposal.
- Trust fund exhaustion is projected to occur under the proposal in 2089, after which traditional benefits would be approximately equal to current-law levels. (Under the proposal, the additional revenues generated by the increase in the taxable maximum plus the additional revenues from taxation of payouts from the individual accounts would approximately equal the cost of the “carve-out” portion of the individual accounts. As a result, the amount remaining to pay traditional benefits would be effectively the same as under current law.)
- The payouts from the individual accounts would be about 7 percent of total benefits in 2030, 20 percent in 2050, and 30 percent in 2080.

Figure 4.

Social Security Benefits as a Share of GDP Under Current Law and the LMS Proposal, 2005 to 2105



Source: Congressional Budget Office.

Table 2: First-Year Retirement Benefits

Table 2 shows first-year benefits, including payouts from individual accounts (net of income taxes paid on benefits and credited to the Social Security trust funds) for the median retired worker in three lifetime earnings quintiles. This table shows results only for retired workers. For example, the effects of changes to widow(er) or disabled-worker benefits are not shown.

For ease of comparison, benefits are computed assuming all workers claim retirement benefits at age 65, even though most workers claim at earlier ages. First-year annual benefits are computed for all workers who under current law are eligible to claim Old-Age Insurance benefits at age 62 and who have not yet claimed any other benefit, on the basis only of earnings through age 61. Benefits are adjusted to put them into 2004 dollars.

Payouts from individual accounts are computed by setting the rate of return on account balances equal to the rate of return on Treasury bonds. (For a discussion of the relationship between risk and return of alternative investments, see Congressional Budget Office, *Analysis of H.R. 3304, Growing Real Ownership for Workers Act of 2005* (September 13, 2005), Attachment 4: Alternative Investments, Risk, and Return.)

- Under the proposal, the normal retirement age would be higher than under current law for workers born in 1944 and later. As a result, average benefits for workers born in the 1940s would be lower than under current law.
- For many lower-earning participants, the additional benefits from the low-earner enhancement plus the payouts from individual accounts would be greater than the reductions in benefits from other provisions. As a result, total benefits for the median retired worker in the lowest household lifetime earnings quintile would generally be greater under the proposal than under current law. The increase would be even greater for later cohorts, who would turn 65 after 2052, and who would therefore, under current law, have first-year benefits reduced because of trust fund exhaustion.
- Total first-year retirement benefits for middle and higher earners would generally be lower under the proposal for cohorts from the 1980s and earlier. Because trust fund exhaustion would occur much later under the proposal than under current law, benefits would be higher than under current law for those claiming them after 2052, most of whom were born in the 1990s and later.
- As shown in the final column, there would be no intragovernmental transfers under the proposal.

Table 2.

First-Year Total Annual Benefits for the Median Retired Worker if Benefits Are Claimed at Age 65 Under Current Law and the LMS Proposal, by Birth Cohort and Lifetime Earnings Level

10-Year Birth Cohort Starting in Year	Current Law Social Security Benefits	Proposed Social Security Benefits Plus Individual Accounts	Benefits Financed with Intragovernmental Transfers
	Median in Lowest Household Lifetime Earnings Quintile		
1940	7,500	7,400	0.0%
1950	8,300	8,500	0.0%
1960	9,000	10,000	0.0%
1970	9,800	10,700	0.0%
1980	10,200	11,400	0.0%
1990	9,300	13,000	0.0%
2000	10,000	14,300	0.0%
Median in Middle Household Lifetime Earnings Quintile			
1940	15,500	15,100	0.0%
1950	15,800	14,200	0.0%
1960	16,200	14,800	0.0%
1970	18,600	16,900	0.0%
1980	20,500	19,100	0.0%
1990	18,300	21,700	0.0%
2000	20,000	24,500	0.0%
Median in Highest Household Lifetime Earnings Quintile			
1940	20,200	19,600	0.0%
1950	22,200	19,900	0.0%
1960	23,300	21,300	0.0%
1970	26,200	24,200	0.0%
1980	29,200	28,300	0.0%
1990	26,200	32,200	0.0%
2000	28,800	36,400	0.0%

Source: Congressional Budget Office.

Note: Benefits are in 2004 dollars.

Figure 5: Ratio of Benefits Received to Taxes Paid Over a Lifetime

Figure 5 compares the present value of total Social Security benefits received (from both Old-Age and Survivors Insurance and Disability Insurance, including payouts from individual accounts, net of income taxes paid on benefits) to the present value of total payroll taxes paid (by both employers and employees, including mandatory contributions to individual accounts) over a lifetime for all individuals who live to at least age 45.

- The Social Security system has already paid benefits to previous generations that exceed the taxes they paid into the system. Thus, the benefit-to-tax ratio for current and future generations will average less than one, as shown in Figure 5. The ratio exceeds one for the lowest earnings quintile mainly because of that group’s high disability receipt rates.

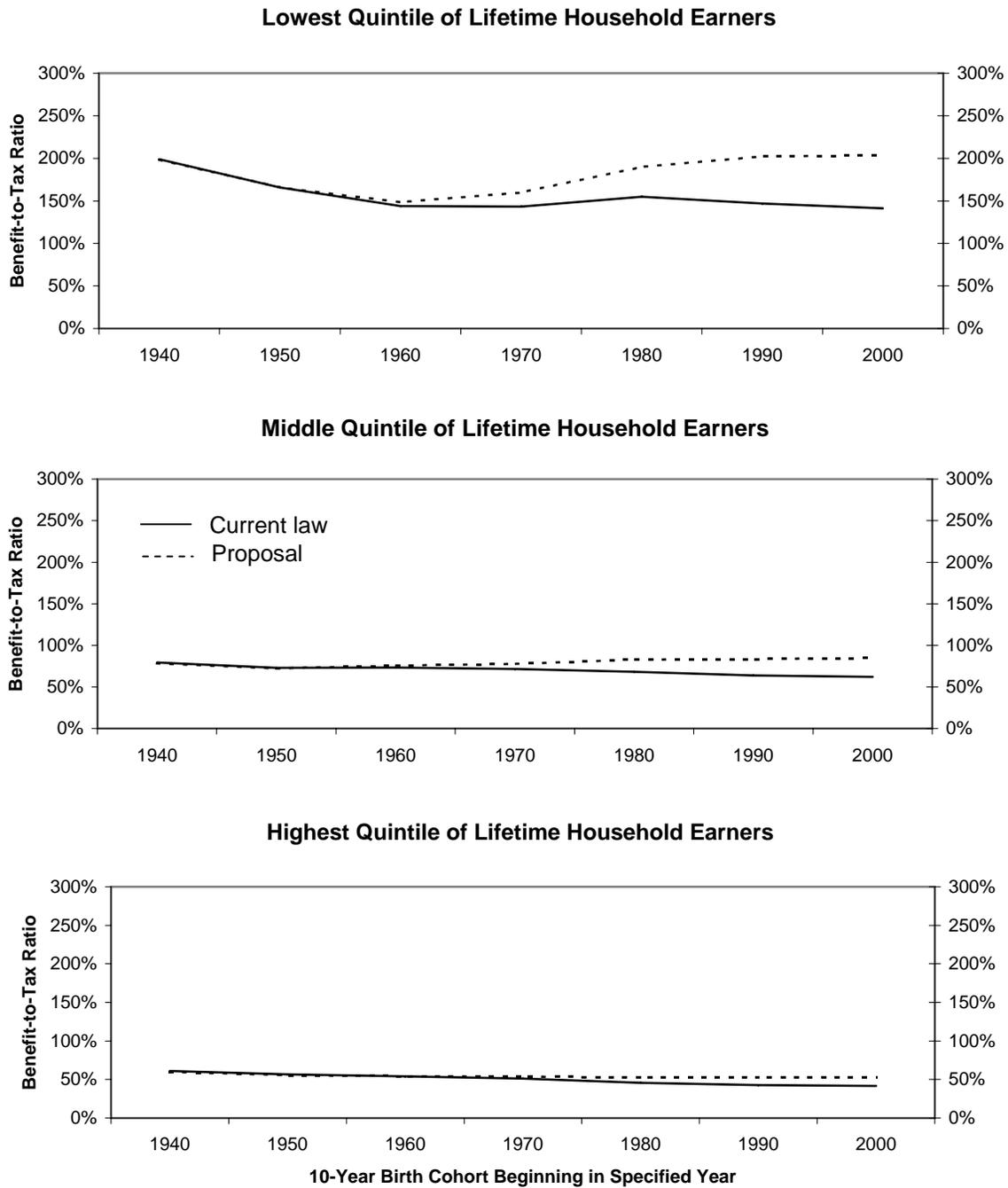
Proposals that only redistribute benefits cannot change the average benefit-to-tax ratio of the system—if the ratio increased for one group, it would decline for others. Proposals that increase total system revenues, however, would necessarily increase the average benefit-to-tax ratio. Increasing the taxable wage base, for example, increases the ratio as long as added revenues are paid out as benefits within the projection period. Add-on individual accounts have a ratio roughly equal to one, because benefits increase by about the same amount as taxes. (The ratio would be slightly below one because of administrative costs.) Since the system currently has an average ratio of less than one, adding add-on individual accounts tends to increase the ratio.

- The proposal raises revenues and adds add-on individual accounts. Thus, as shown in Figure 5, it increases the benefit-to-tax ratio for almost all cohorts and income groups.
- The proposal lowers the benefit-to-tax ratio slightly for earlier cohorts of the middle and higher earnings groups because their taxes increase more than their benefits. The proposal raises the ratio slightly for later cohorts in those earnings groups because the arithmetic boost from the additional revenue more than offsets the fact that the taxes they pay have increased more than their benefits.
- The proposal raises the ratio for all cohorts in the lowest earnings group because it increases their benefits more than their taxes. (This offsets a slight reduction in the ratio that follows arithmetically from the addition of the accounts.)
- The ratio under the proposal would be lower than shown for very high earners—those in the highest 5 percent or 10 percent of the earnings distribution—who would be affected the most by the increase in the taxable maximum.

Benefit-to-Tax Ratios	<u>1950s Cohort</u>		<u>1990s Cohort</u>	
	<u>Current Law</u>	<u>Proposal</u>	<u>Current Law</u>	<u>Proposal</u>
Lowest earning quintile	166 %	166 %	147 %	202 %
Middle earning quintile	73 %	72 %	64 %	84 %
Highest earning quintile	57 %	56 %	43 %	53 %

Figure 5.

Ratio of Lifetime Dedicated-Tax-Financed Benefits to Lifetime Taxes Under Current Law and the LMS Proposal, by Birth Cohort and Lifetime Earnings Level



Source: Congressional Budget Office.

Uncertainty Analysis

The preceding analysis presents estimates generated through a simulation in which demographic and economic assumptions are set at their most likely values. However, the financial cost of investment risk is set on the basis of market values, which in practice means that the individual accounts are assumed to earn a rate of return equal to that of Treasury bonds.

The following section contains range estimates that are based on 500 stochastic simulations. Those simulations are based on a probability distribution of possible future outcomes for the various demographic and economic inputs used in the projections. The distribution of each assumption is centered at its most likely value, but the variation around those values is based on historical experience.

For the uncertainty analysis, CBO assumes that participants would invest their individual accounts in the following portfolio:

<u>Investment</u>	<u>Share of Portfolio</u>	<u>Annual Real Expected Return</u>
Treasury bonds	20%	3.3%
Corporate bonds	30%	3.8%
Equities	50%	6.8%

The weighted average real return of that portfolio is 5.2 percent minus administrative costs; individuals are assumed to rebalance the portfolio annually. Charges for administrative costs are assumed to reduce returns. (As described above, CBO assumes that the annual administrative cost would be \$38 per account in 2008 and would grow with average wages thereafter, and that costs would be charged as a percentage of each account.) Although that portfolio has a higher expected return than Treasury bonds, it also results in higher risk.

In its results, CBO gives its estimate of the 80 percent range of uncertainty in figures and the 10th and 90th percentiles in tables. There is an 80 percent chance that the actual outcome will fall in the displayed range, a 10 percent chance it will be higher, and a 10 percent chance it will be lower. Likewise, there is a 10 percent chance that the outcome will be below the 10th percentile and a 10 percent chance that the outcome will be above the 90th percentile.

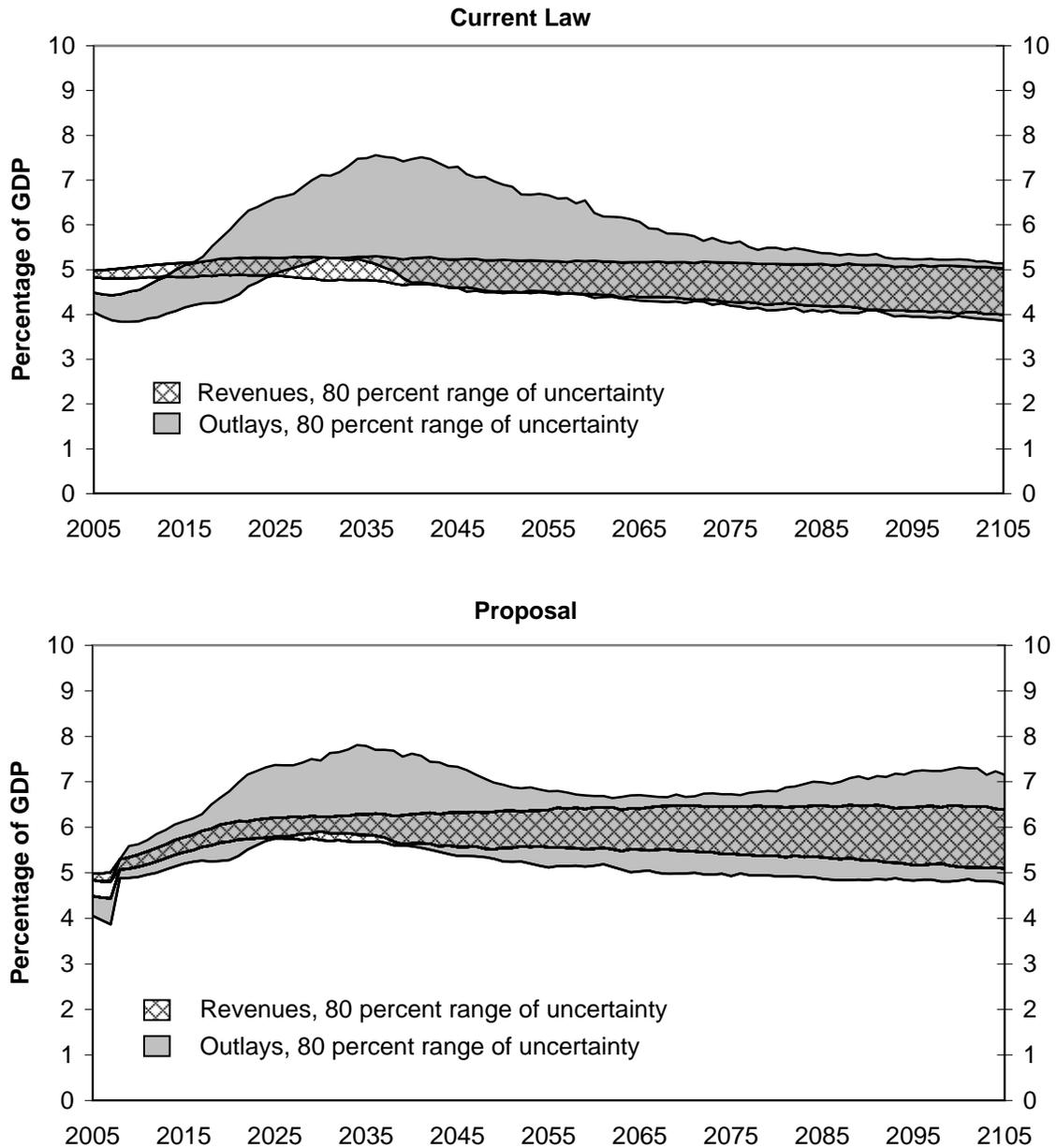
In some cases, CBO presents the median—or middle—of the range of outcomes in the uncertainty analysis. Those median values and the results in the first section both indicate “typical” results; however, the median results may differ somewhat from the single-simulation results presented earlier.

Figure U1: Effect on Social Security Finances

- The uncertainty about Social Security revenues as a share of GDP results primarily from uncertainty about the level of taxable earnings as a share of GDP. For example, if a larger-than-expected share of compensation is paid in the form of health benefits, then taxable earnings—and thus Social Security revenues—will be a lower-than-expected share of GDP.
- Under current law, it is very likely that the trust funds will become exhausted within the projection period. After exhaustion, annual outlays will be limited to revenue in that year, and the uncertainty about outlays will be approximately equal to the uncertainty about revenue.
- Uncertainty about outlays in the years before trust fund exhaustion is driven by uncertainty about future economic and demographic conditions, such as productivity growth and fertility. (See Congressional Budget Office Background Paper, *Quantifying Uncertainty in the Analysis of Long-Term Social Security Projections*, November 2005.) As shown in the figure, outlays could be lower than revenues under the proposal.
- Under the proposal, trust funds could remain solvent throughout the projection period. If that occurred, scheduled outlays could be paid even if they were higher than revenues.

Figure U1.

Potential Range of Social Security Revenues and Outlays as a Share of GDP Under Current Law and the LMS Proposal, 2005 to 2105



Source: Congressional Budget Office.

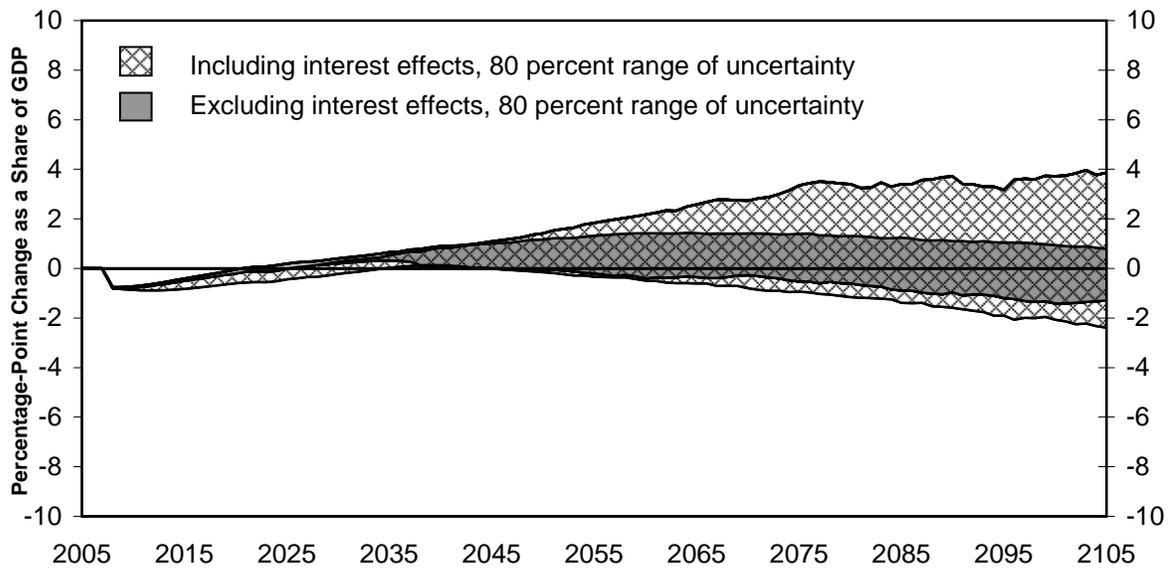
Figure U2: Net Effect on the Federal Budget

Recall that negative numbers mean that the proposal would increase the deficit (or reduce the surplus). Positive numbers indicate that it would reduce the deficit (or increase the surplus).

- Initially—from 2007 to around 2035—the additional outlays to individual accounts would be clearly specified and the changes to traditional benefit outlays would be relatively small, so there is little uncertainty about the proposal's effects on future budget balances.
- In later years, the differences relative to current law would be larger, so there would be greater uncertainty about the proposal's effects on budget balances.

Figure U2.

Potential Range of Effects of the LMS Proposal on Total Annual Budget Balances as a Share of GDP Relative to Current Law, 2005 to 2105



Source: Congressional Budget Office.

Table U1: Effect on Social Security Finances for Specific Years

The top three lines show the 10th, 50th, and 90th percentiles of Social Security annual balances under current law at 20-year intervals. Following trust fund exhaustion, benefits will automatically be reduced to reach a balance of zero. The next three lines show the size of possible automatic benefit reductions.

- Under current law, the range for the balance includes nonzero numbers in every year because there is some probability that the trust funds will not be exhausted, allowing the system to run a deficit. There is also some probability that the system will run a surplus in any given year.

The bottom section of the table shows the same information under the proposal.

- Although in the single-simulation analysis presented above the trust funds are projected to become exhausted in 2089, in the uncertainty analysis, they remain solvent throughout the projection period at the 50th percentile of the probability distribution. Therefore, no automatic benefit reductions are required at the 50th percentile, though they would be required for most of the period at the 10th percentile of the distribution.

Table U1.

Potential Range of Social Security Finances Under Current Law and the LMS Proposal as a Share of GDP, 2005 to 2105

	2005	2025	2045	2065	2085	2105
Balance Under Current Law^a						
10th Percentile	0.45	-1.52	-2.29	-1.18	-0.37	-0.20
Median - 50th Percentile	0.64	-0.66	-0.65	0.00	0.00	0.00
90th Percentile	0.80	0.00	0.13	0.21	0.25	0.25
Automatic Benefit Reductions Under Current Law^b						
10th Percentile	0.00	0.00	2.57	3.80	4.38	5.07
Median - 50th Percentile	0.00	0.00	0.00	1.60	1.99	2.36
90th Percentile	0.00	0.00	0.00	0.00	0.00	0.51
Balance Under Proposal						
10th Percentile	0.45	-1.38	-1.28	-0.42	-1.05	-1.27
Median - 50th Percentile	0.64	-0.53	-0.11	0.11	0.05	-0.02
90th Percentile	0.80	0.14	0.32	0.79	0.87	0.65
Transfers from Rest of Government Under Proposal						
10th Percentile	0.00	0.00	0.00	0.00	0.00	0.00
Median - 50th Percentile	0.00	0.00	0.00	0.00	0.00	0.00
90th Percentile	0.00	0.00	0.00	0.00	0.00	0.00
Automatic Benefit Reductions Under Proposal						
10th Percentile	0.00	0.00	1.66	1.49	1.23	1.51
Median - 50th Percentile	0.00	0.00	0.00	0.00	0.00	0.00
90th Percentile	0.00	0.00	0.00	0.00	0.00	0.00

Source: Congressional Budget Office.

a. The balance is the difference between revenues and outlays.

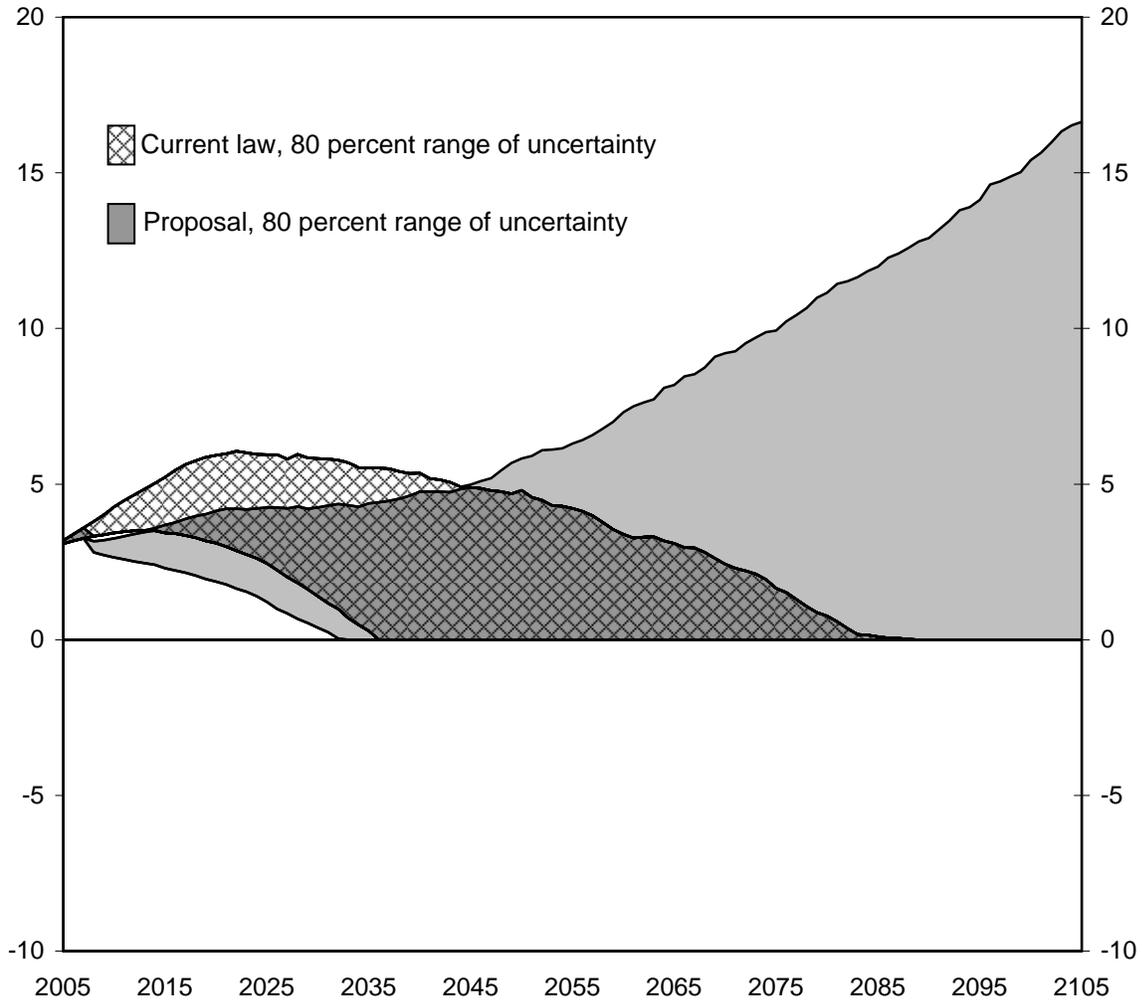
b. Equal to the difference between scheduled outlays and scheduled revenues in years after trust fund exhaustion.

Figure U3: Trust Fund Ratio

- Because contributions to the individual accounts are drawn from the trust funds beginning in 2008, the probability of early trust fund exhaustion is greater under the proposal than under current law.
- Because benefit reductions grow over time, there is a significant chance that the trust fund ratio would be large and growing at the end of the projection period.
- Under current law, there is more than a 90 percent chance that the trust funds would be exhausted by 2100. Under the proposal, there is about a 55 percent chance that they would have been exhausted by then. (In some cases, however, the trust funds would fall to zero and then become solvent again as the system ran primary surpluses.)

Figure U3.

Potential Range of Social Security Trust Fund Ratios Under Current Law and the LMS Proposal, 2005 to 2105



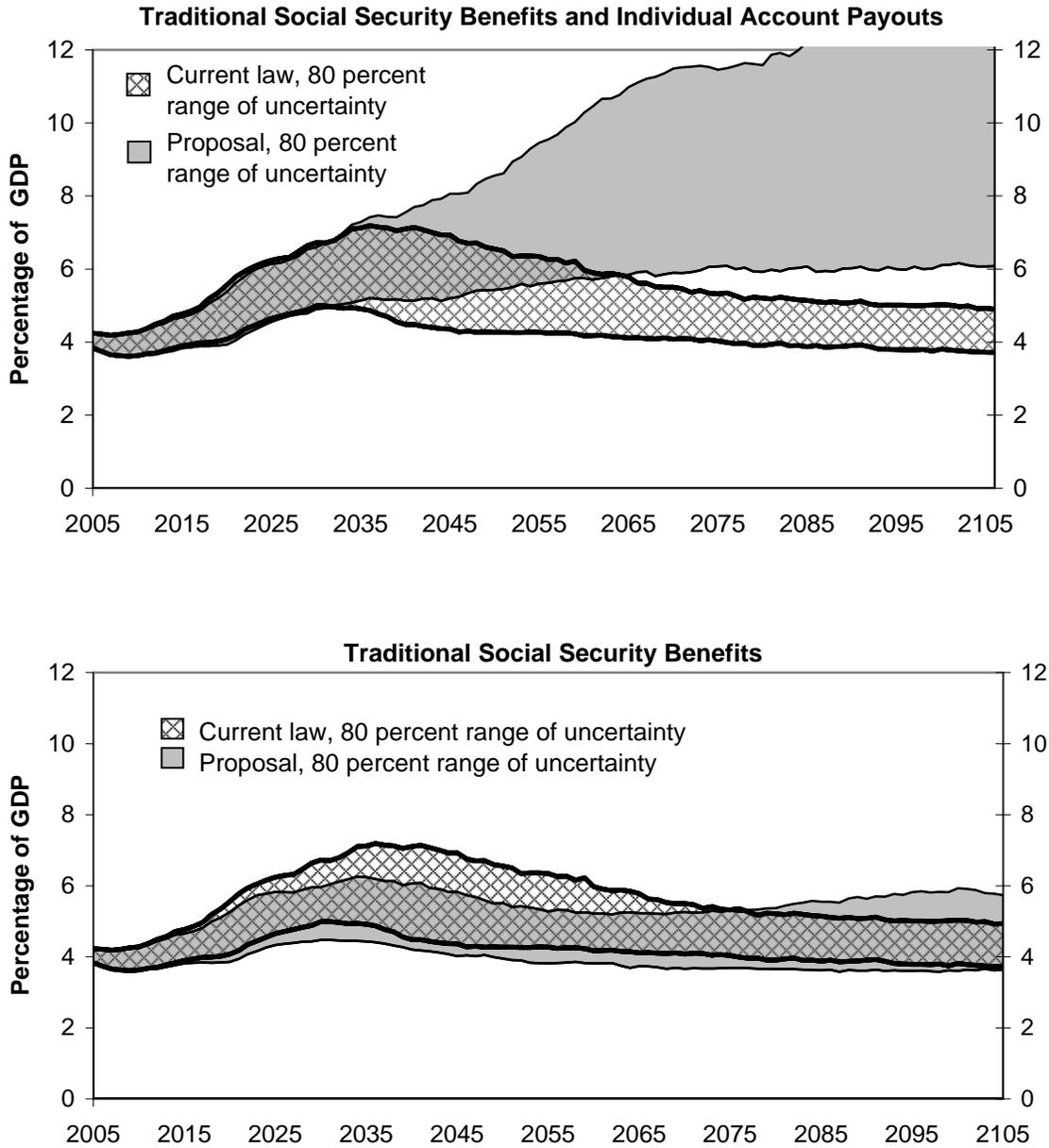
Source: Congressional Budget Office.

Figure U4: Total Social Security Benefits

- There is more uncertainty about the payouts from the individual accounts than about traditional benefit payments because the accounts are assumed to be invested in a mix of stocks and bonds. Stocks have higher expected returns than government bonds, but they carry greater risk.
- Payouts from the individual accounts are likely to result in total benefits that are at least the current-law level. In later years, total benefits are potentially much larger than under current law. This occurs both as a result of the additional mandatory contributions to the individual accounts and because returns on investments made in the accounts may be higher than returns on government bonds.

Figure U4.

Potential Range of Social Security Benefits as a Share of GDP Under Current Law and the LMS Proposal, 2005 to 2105



Source: Congressional Budget Office.

Table U2: First-Year Retirement Benefits

- Within the projection period, most workers would generally receive higher benefits under the proposal than under current law. As explained above in the context of Figure U4, this occurs both as a result of the additional mandatory contributions to the individual accounts and because returns on investments made in the accounts may be higher than returns on government bonds.
- For many lower-earning participants, the additional benefits from the low-earner enhancement plus the payouts from individual accounts would be greater than the reductions in benefits from other provisions. As a result, total benefits for the median retired worker in the lowest household lifetime earnings quintile would generally be greater under the proposal than under current law.
- Total first-year retirement benefits for middle and higher earners would generally be lower under the proposal for cohorts from the 1960s and earlier.
- This table generally shows the proposal to be more advantageous than does Table 2. For example, Table 2 shows that for a middle earner in the 1970s cohort, total benefits would be 10 percent lower under the proposal (\$16,900 rather than \$18,600). But at the 50th percentile, Table U2 shows that worker to be slightly better off under the proposal, with benefits of \$17,800 rather than \$17,600. This occurs mainly because the expected return on private investments used to calculate the figures in Table U2 is greater than the market return used to calculate the figures in Table 2.

Table U2.

**Potential Range of First-Year Total Annual Benefits for the Median Retired Worker
if Benefits Are Claimed at Age 65 Under Current Law and the LMS Proposal,
by Birth Cohort and Lifetime Earnings Level**

10-Year Birth Cohort Starting in Year	Current Law Social Security Benefits			Proposed Social Security Benefits Plus Individual Account Payouts		
	10th	50th	90th	10th	50th	90th
Median in Lowest Household Lifetime Earnings Quintile						
1940	7,100	7,500	7,800	6,900	7,400	7,700
1950	7,100	8,100	9,200	7,300	8,400	9,400
1960	7,000	8,800	10,600	7,500	9,800	11,900
1970	5,700	9,300	11,900	7,000	10,800	14,100
1980	5,100	8,900	13,100	7,600	11,500	16,100
1990	5,400	8,700	14,900	9,200	13,700	19,700
2000	5,300	9,000	16,500	9,900	14,900	22,100
Median in Middle Household Lifetime Earnings Quintile						
1940	14,500	15,400	16,100	14,000	15,000	15,700
1950	13,500	15,500	17,500	12,300	14,200	16,200
1960	12,600	15,700	18,900	11,800	15,100	18,300
1970	10,700	17,600	22,300	12,000	17,800	23,600
1980	10,400	17,900	26,300	14,500	21,300	30,000
1990	10,700	17,300	29,500	16,800	24,500	35,900
2000	10,700	18,200	33,000	18,100	27,500	41,300
Median in Highest Household Lifetime Earnings Quintile						
1940	18,800	20,000	20,800	18,200	19,500	20,400
1950	18,900	21,700	24,600	17,000	19,800	22,400
1960	18,100	22,500	27,100	17,000	21,700	26,100
1970	14,800	24,800	31,400	17,800	25,700	34,000
1980	14,700	25,400	37,600	21,900	32,000	44,500
1990	15,400	24,700	42,200	25,300	36,500	53,400
2000	15,500	26,000	46,500	27,600	41,200	61,400

Source: Congressional Budget Office.

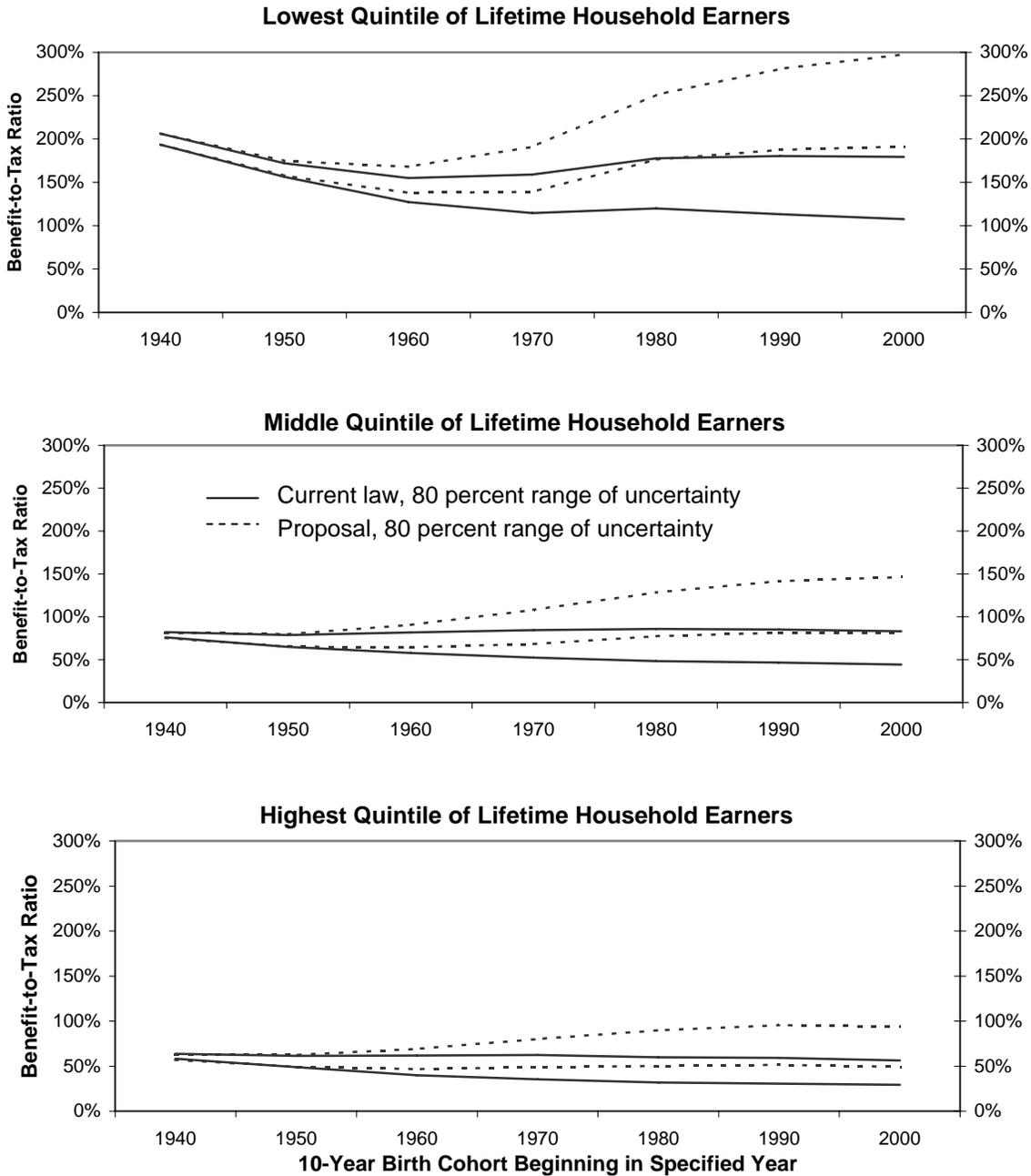
Note: Benefits are in 2004 dollars.

Figure U5: Ratio of Benefits Received to Taxes Paid Over a Lifetime

- As explained above (see Figure 5), the generally higher benefit-to-tax ratio under the proposal is driven mainly by the introduction of additional revenues.
- The uncertainty is greater under the proposal because of the additional investment risk that would occur in the individual accounts. Those investments also have higher expected returns, which explains in part the higher benefit-to-tax ratios under the proposal.

Figure U5.

Potential Range of the Ratio of Lifetime Dedicated-Tax-Financed Benefits to Lifetime Taxes under Current Law and the LMS Proposal, by Birth Cohort and Lifetime Earnings Level



Appendix A: Scheduled-Benefits Scenario

The Social Security Administration would not have the legal authority to pay full benefits after trust fund exhaustion, so outlays would be limited to current revenues. That restriction is reflected in the current-law analysis described earlier.

However, the exhaustion of the trust funds would not affect a beneficiary's legal right to full benefits. The analysis in this appendix presents future spending for benefits under an alternative "scheduled benefits" scenario, in which outlays after trust fund exhaustion are assumed to include full benefits, despite any shortfall in the system's annual revenues. This would result in a negative trust fund balance, as if the system borrowed money.

When comparing currently scheduled benefits to those that would be scheduled under the LMS proposal, readers should remember that scheduled benefits are not fully financed under either currently scheduled benefits or under the proposal as scheduled. However, the funding gap would be much lower under the proposal.

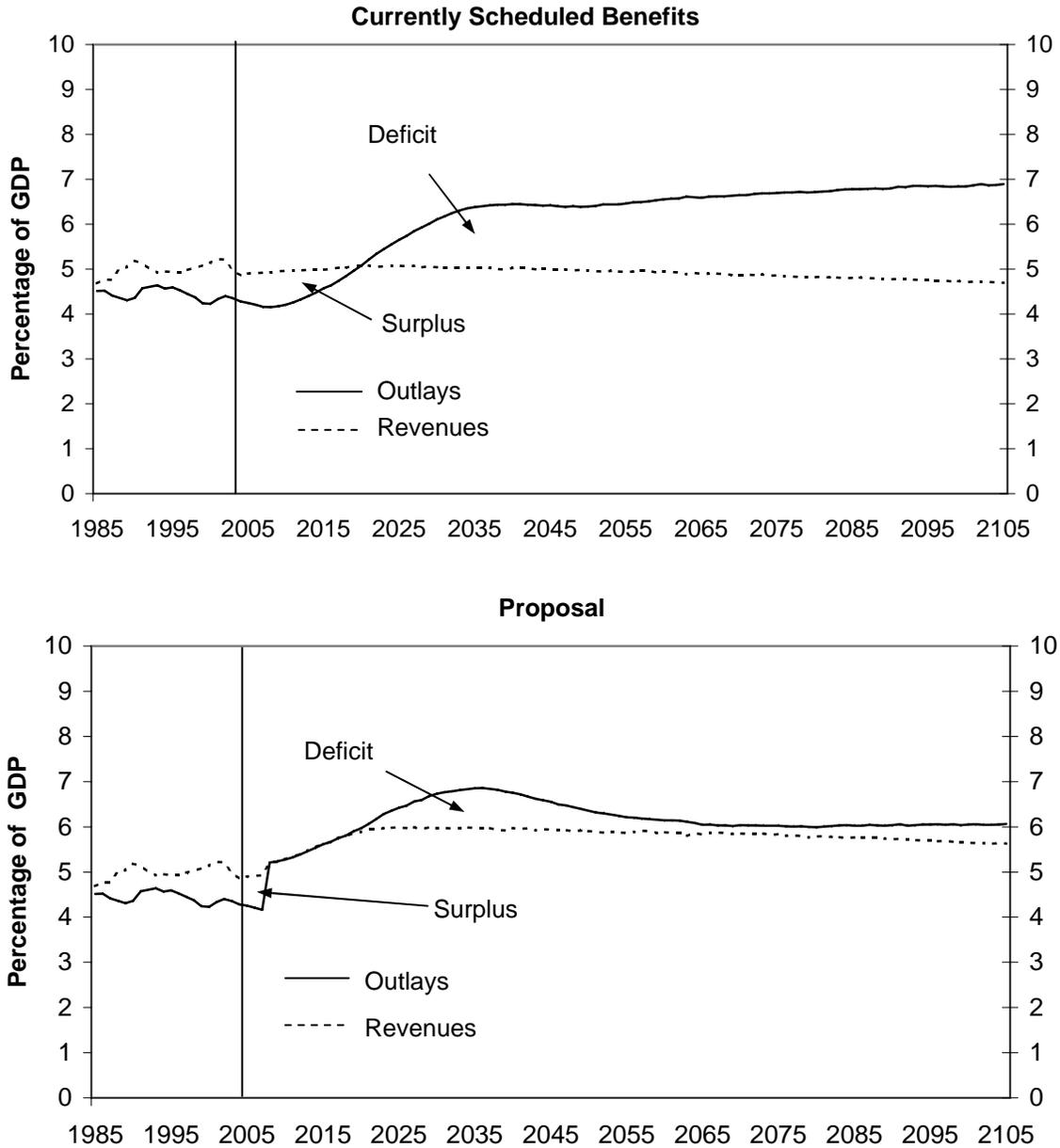
Figures 5 and U5 compare taxes paid to benefits received, but this analysis cannot be done without fully specifying the source of the taxes. Because the financing source of some benefits is unspecified under the scheduled-benefits scenario, Figures 5 and U5 are not included in this appendix.

Figure 1 (Scheduled): Effect on Social Security Finances

- Under the proposal, transfers to individual accounts would begin in 2008. Revenues would increase sharply in that year as participants began to make the additional mandatory contributions to the accounts. In 2008, those mandatory contributions would equal 0.3 percent of GDP. Outlays would increase by more than twice as much, since an amount equal to the primary surplus plus the mandatory contributions would be transferred from the trust funds to the individual accounts.
- Under currently scheduled benefits, outlays are projected to exceed revenues beginning in 2020 and to exceed the sum of revenues and interest credited to the Social Security trust funds beginning in 2033. The trust funds would be exhausted in 2052.
- Under the proposal as scheduled, outlays would equal revenues from 2008 through 2020. Thereafter, outlays would remain above revenues, but revenues would be higher and outlays lower than under the scheduled-benefits scenario. Outlays would first exceed revenues and interest in 2035, and trust fund exhaustion would occur in 2089.

Figure 1 (Scheduled).

Social Security Revenues and Outlays as a Share of GDP Under Currently Scheduled Benefits and the Scheduled LMS Proposal, 1985 to 2105



Source: Congressional Budget Office.

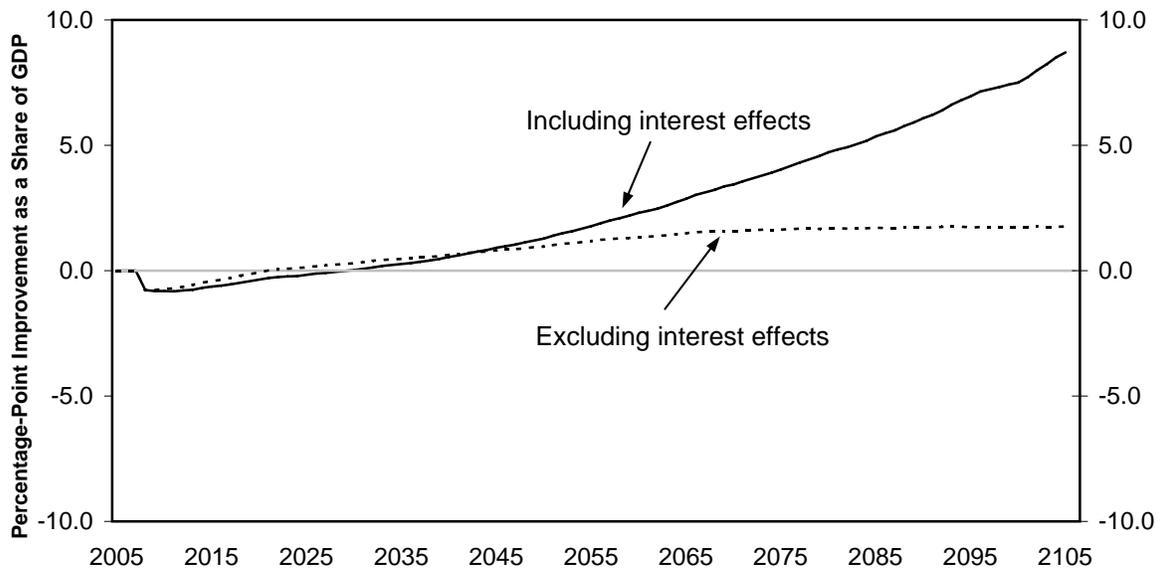
Figure 2 (Scheduled): Net Effect on the Federal Budget

Recall that negative numbers mean that the proposal would increase the deficit (or reduce the surplus). Positive numbers indicate that it would reduce the deficit (or increase the surplus).

- Initially—from 2008 to 2020—the additional outlays to individual accounts under the proposal would result in larger primary deficits. (Including increased interest costs, deficits would be larger until 2029.) After 2021, the savings from the reductions to traditional Social Security benefits and the additional revenue from the higher taxable maximum would be larger than the costs of the additional outlays.
- The higher revenues and lower outlays under the proposal would improve the annual budget balance (excluding interest). By the end of the projection period, the improvement would approach 2 percent of GDP. This would result in a large reduction in federal interest payments; by the end of the projection period, the improvement including interest would be nearly 9 percent of GDP.

Figure 2 (Scheduled).

Effects of the Scheduled LMS Proposal on Total Annual Budget Balances as a Share of GDP Relative to Currently Scheduled Benefits, 2005 to 2105



Source: Congressional Budget Office.

Table 1 (Scheduled): Effect on Social Security Finances for Specific Years and Provisions

- This table is nearly identical to Table 1. The main difference is that under the scheduled-benefits scenario, there are no automatic benefit reductions.
- Under currently scheduled benefits, after trust fund exhaustion, revenues are about 0.1 percent of GDP higher than under current law (shown in Table 1). This is due to higher revenues from the taxation of benefits, which result from higher outlays.

Table 1 (Scheduled).

Social Security Finances Under Currently Scheduled Benefits and the Scheduled LMS Proposal as a Share of GDP, 2005 to 2105

	2005	2025	2045	2065	2085	2105
Currently Scheduled Social Security Finances						
Revenues ^a	4.90	5.07	4.99	4.88	4.80	4.69
Outlays ^b	4.25	5.64	6.39	6.55	6.72	6.85
Balance ^c	0.65	-0.57	-1.40	-1.67	-1.92	-2.15
Effects on Balance Plus Automatic Benefit Reduction under Proposed Provisions						
1.5% Carve-out/1.5% Add-on individual account	0.00	-0.64	-0.55	-0.40	-0.38	-0.33
CSSS Plan 2 low-earner enhancement	0.00	-0.20	-0.33	-0.36	-0.37	-0.39
Raise EEA to 65	0.00	0.12	-0.03	-0.28	-0.30	-0.32
Raise benefits for widow(er)s	0.00	-0.02	-0.03	-0.04	-0.02	-0.02
Reduce spouse benefits for high earners	0.00	0.01	0.02	0.02	0.04	0.04
Eliminate NRA hiatus and raise to 68	0.00	0.28	0.29	0.29	0.27	0.26
Increase taxable maximum without benefits	0.00	0.36	0.42	0.41	0.40	0.40
Reduce OAI replacement factors	0.00	0.24	1.00	1.69	1.89	1.94
Interactions Among Provisions	0.00	-0.01	0.00	0.12	0.13	0.14
Total Effects, All Provisions	0.00	0.13	0.78	1.45	1.66	1.72
Scheduled Social Security Finances Under Proposal						
Revenues	4.90	5.98	5.93	5.82	5.77	5.63
Outlays	4.25	6.42	6.55	6.05	6.02	6.06
Balance	0.65	-0.44	-0.62	-0.22	-0.26	-0.43
Transfers from Rest of Government	0.00	0.00	0.00	0.00	0.00	0.00

Source: Congressional Budget Office.

- a. Revenues equal payroll taxes and income taxes on benefits (but not interest credited to the trust funds) in the specified year.
b. Outlays equal Social Security benefits, redirections of payroll taxes to individual accounts, and administrative costs.
c. The balance is the difference between revenues and outlays; it may not equal the difference of the previous two rows because of rounding.

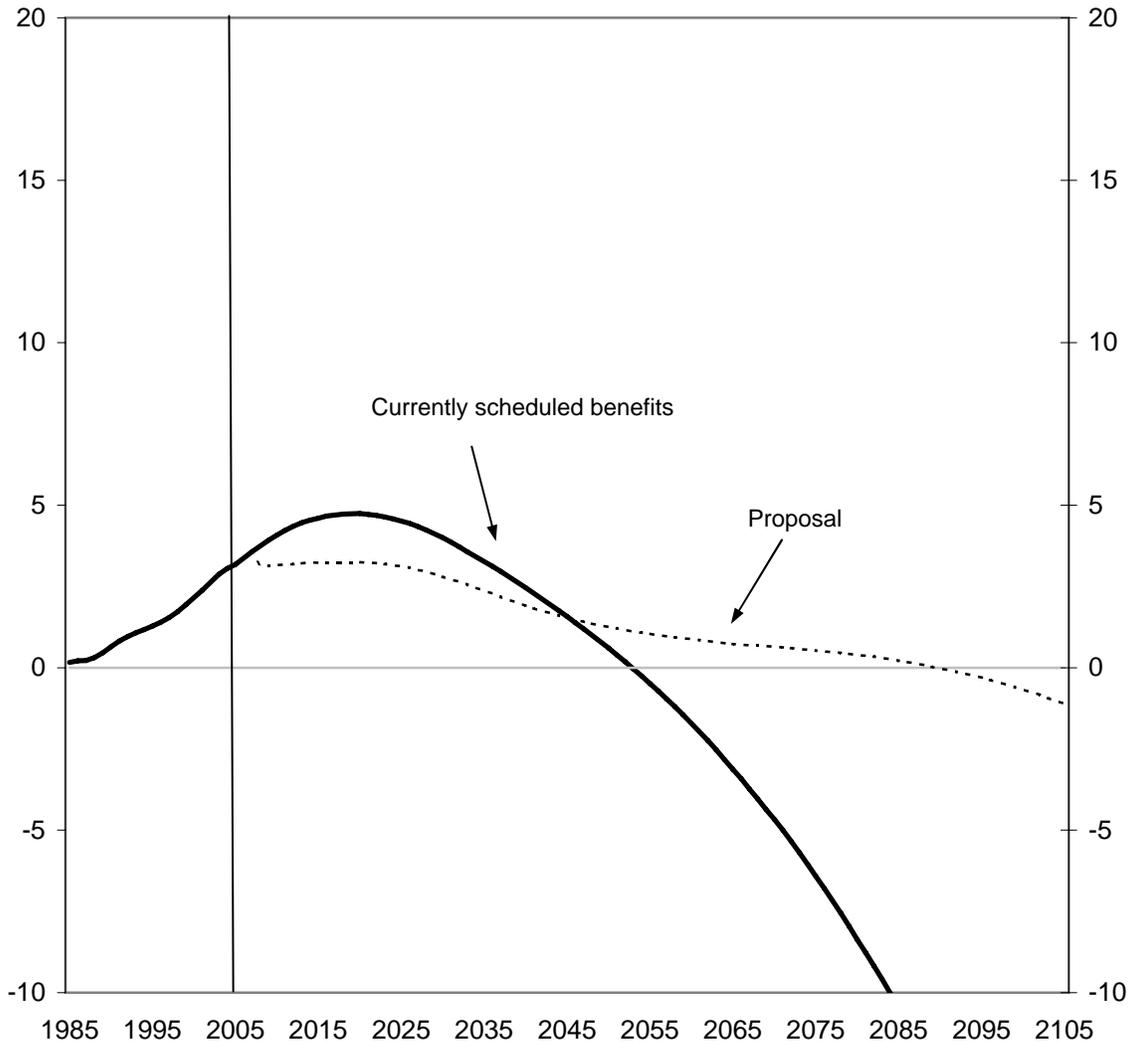
Figure 3 (Scheduled): Trust Fund Ratio

Under the scheduled-benefits scenario, the trust fund balance could become negative, representing net borrowing by the Social Security program.

- Under currently scheduled benefits, the trust funds would first become negative in 2052, whereas that would not occur until 2089 under the proposal.
- Because annual deficits would be much smaller under the proposal as scheduled, the trust fund ratio would decline more slowly than under currently scheduled benefits.
- At the end of the projection period, the trust fund ratio would be -22 with currently scheduled benefits, but -1 under the proposal as scheduled.

Figure 3 (Scheduled).

Social Security Trust Fund Ratios Under Currently Scheduled Benefits and the Scheduled LMS Proposal, 1985 to 2105



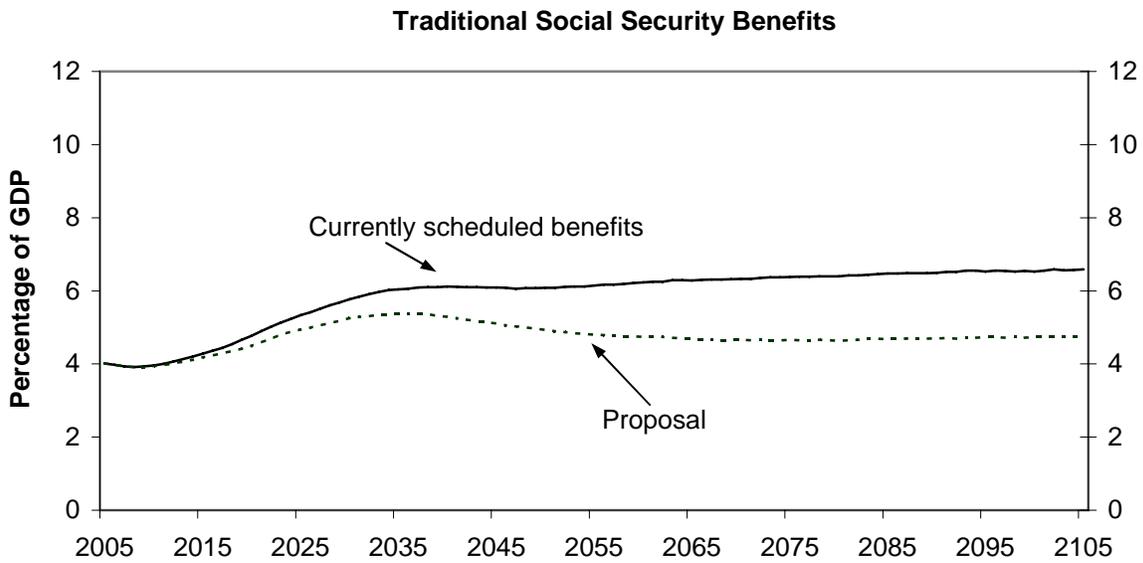
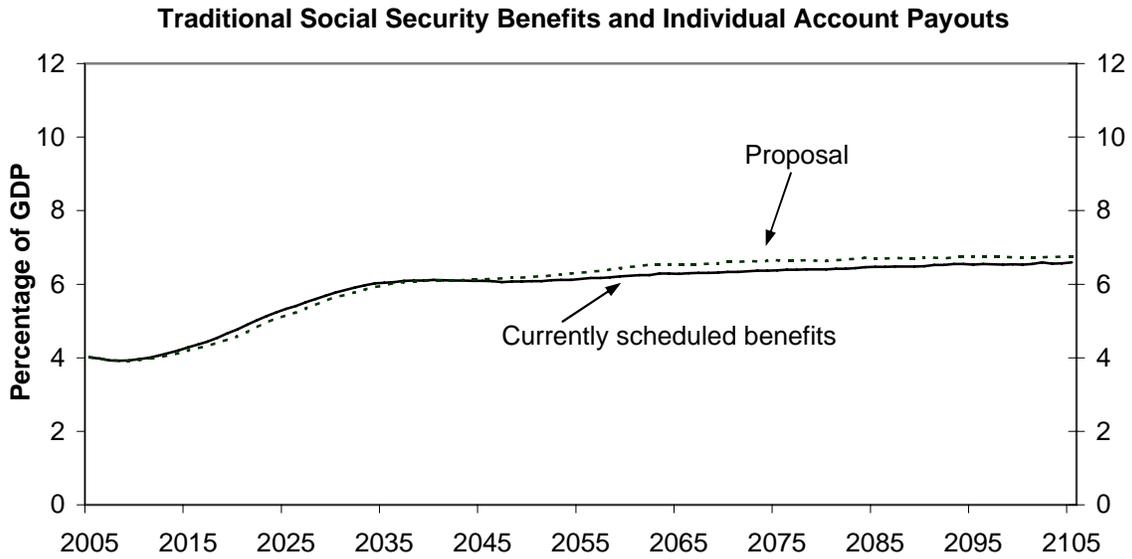
Source: Congressional Budget Office.

Figure 4 (Scheduled): Total Social Security Benefits

- Total benefits paid under the proposal as scheduled, including payouts from the individual accounts, would be approximately equal to the currently scheduled level. They would be slightly lower than currently scheduled benefits before 2040 and slightly higher in later years. (However, the gap between currently scheduled taxes and benefits is much larger than under the proposal.)
- Traditional scheduled benefits would be much lower under the proposal. (Scheduled disability benefit outlays, which are not shown separately in the figure, would be about 20 percent higher under the proposal. The proposal makes no direct changes to scheduled disability benefits, but the low-earner supplement would result in higher benefits for many disabled beneficiaries.)
- The payouts from the individual accounts would be a substantial portion of total benefits: for example, they would be about 7 percent of the total in 2030, 20 percent in 2050, and 30 percent in 2080.

Figure 4 (Scheduled).

Social Security Benefits as a Share of GDP Under Currently Scheduled Benefits and the Scheduled LMS Proposal, 2005 to 2105



Source: Congressional Budget Office.

Table 2 (Scheduled): First-Year Retirement Benefits

- Under the proposal, the normal retirement age would be higher than under current law for workers born in 1944 and later. As a result, average benefits for workers born in the 1940s would be lower than currently scheduled.
- For many lower-earning participants, the additional benefits from the low-earner enhancement plus the payouts from individual accounts would be greater than the reductions in benefits from other provisions. As a result, total benefits for the median retired worker in the lowest household lifetime earnings quintile would generally be greater under the proposal as scheduled than under currently scheduled benefits.
- Total scheduled first-year retirement benefits for middle and higher earners would generally be lower under the proposal. (As noted above, aggregate scheduled benefits under the proposal would be approximately equal to currently scheduled benefits. Lower outlays for retirement benefits would be offset by an increase in scheduled disability benefit outlays.)

Table 2 (Scheduled).

First-Year Total Annual Benefits for the Median Retired Worker if Benefits Are Claimed at Age 65 Under Currently Scheduled Benefits and the Scheduled LMS Proposal, by Birth Cohort and Lifetime Earnings Level

10-Year Birth Cohort Starting in Year	Currently Scheduled Social Security Benefits	Proposed Scheduled Social Security Benefits Plus Individual Accounts	Benefits Financed with Intragovernmental Transfers
	Median in Lowest Household Lifetime Earnings Quintile		
1940	7,500	7,400	0.0%
1950	8,300	8,500	0.0%
1960	9,000	10,000	0.0%
1970	9,800	10,700	0.0%
1980	10,600	11,400	0.0%
1990	12,200	13,000	0.0%
2000	13,500	14,300	0.0%
Median in Middle Household Lifetime Earnings Quintile			
1940	15,500	15,100	0.0%
1950	15,800	14,200	0.0%
1960	16,200	14,800	0.0%
1970	18,600	16,900	0.0%
1980	21,300	19,100	0.0%
1990	24,100	21,700	0.0%
2000	27,000	24,500	0.0%
Median in Highest Household Lifetime Earnings Quintile			
1940	20,200	19,600	0.0%
1950	22,200	19,900	0.0%
1960	23,300	21,300	0.0%
1970	26,200	24,200	0.0%
1980	30,300	28,300	0.0%
1990	34,300	32,200	0.0%
2000	38,900	36,400	0.0%

Source: Congressional Budget Office.

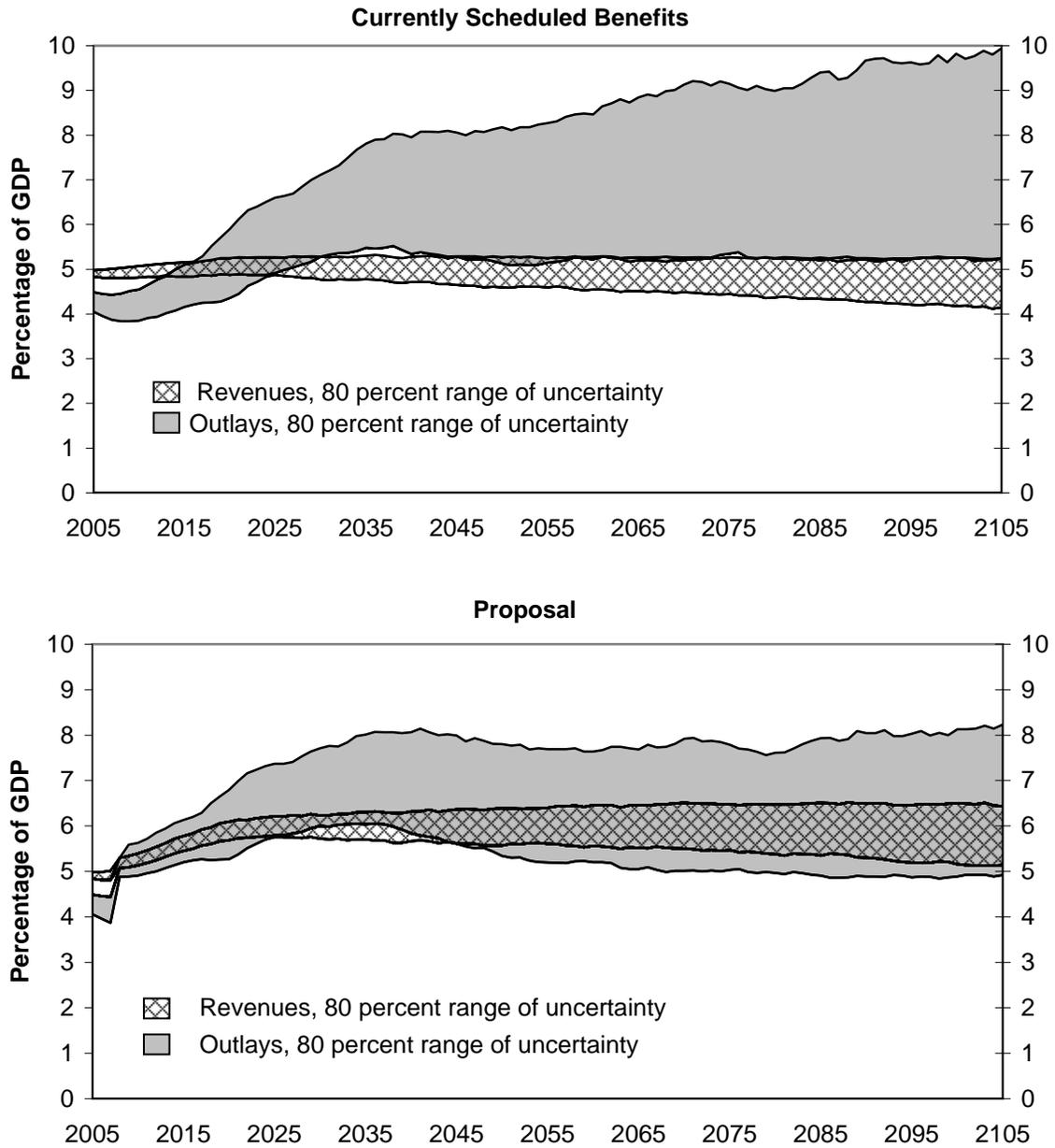
Note: Benefits are in 2004 dollars.

Figure U1 (Scheduled): Effect on Social Security Finances

- In the current-law analysis, annual outlays equal annual revenues following trust fund exhaustion, so uncertainty about outlays is limited after exhaustion (see Figure U1). There is no such restriction in the scheduled-benefits scenario, so there is much greater uncertainty about outlays in later years than in the current-law analysis.
- The partial shift to individual accounts leads to less uncertainty about outlays from the trust funds under the proposal. Outlays to individual accounts are a fixed portion of revenues, so there is little uncertainty about that share of outlays.

Figure U1 (Scheduled).

Potential Range of Social Security Revenues and Outlays as a Share of GDP Under Currently Scheduled Benefits and the Scheduled LMS Proposal, 2005 to 2105



Source: Congressional Budget Office.

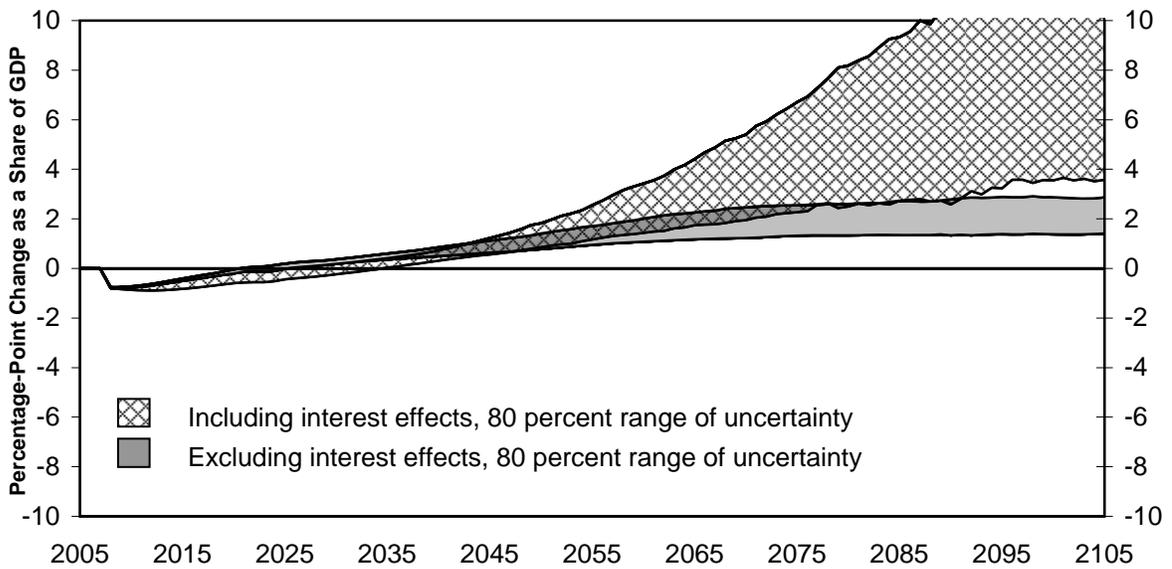
Figure U2 (Scheduled): Net Effect on the Federal Budget

Recall that negative numbers mean that the proposal would increase the deficit (or reduce the surplus). Positive numbers indicate that it would reduce the deficit (or increase the surplus).

- Initially, the possible range of effects of the proposal on the annual budget balances would be the same as under the current-law analysis shown in Figure U2.
- In later years, there would be much greater uncertainty about the effects than is shown in the current-law analysis, because there is much greater uncertainty about outlays, as shown in Figure U1 (Scheduled).

Figure U2 (Scheduled).

Potential Range of Effects of the Scheduled LMS Proposal on Total Annual Budget Balances as a Share of GDP Relative to Currently Scheduled Benefits, 2005 to 2105



Source: Congressional Budget Office.

Table U1 (Scheduled): Effect on Social Security Finances for Specific Years

- The data shown here are similar to those shown in Table U1, but there are no automatic benefit reductions in this scenario.
- In general, the balance under the scheduled-benefits scenario is equal to the sum of the balance and the automatic benefit reductions in the current-law scenario.

Note: This is not necessarily true of the data shown in the tables because data are sorted strictly numerically. In some simulations, the trust funds become exhausted in the 2030s. Under current law, annual balances automatically equal zero after trust fund exhaustion. Since the annual balance in most simulations is negative, a scenario with a balance that falls to zero will move very high in the distribution. Most other values in the distribution will then shift downward. As a result, for example, in the currently scheduled benefits scenario the 50th percentile of the balance in 2045 is -1.60. The corresponding value under current law is -0.65.

Table U1 (Scheduled).

Potential Range of Social Security Finances Under Currently Scheduled Benefits and the Scheduled LMS Proposal as a Share of GDP, 2005 to 2105

	2005	2025	2045	2065	2085	2105
Currently Scheduled Balance^a						
10th Percentile	0.45	-1.52	-3.12	-3.92	-4.70	-5.28
Median - 50th Percentile	0.64	-0.65	-1.60	-1.82	-2.16	-2.43
90th Percentile	0.80	0.01	-0.41	-0.46	-0.58	-0.83
Scheduled Balance Under Proposal						
10th Percentile	0.45	-1.38	-2.03	-1.65	-1.93	-2.31
Median - 50th Percentile	0.64	-0.53	-0.69	-0.17	-0.25	-0.48
90th Percentile	0.80	0.14	0.30	0.79	0.87	0.66
Transfers from Rest of Government Under Proposal						
10th Percentile	0.00	0.00	0.00	0.00	0.00	0.00
Median - 50th Percentile	0.00	0.00	0.00	0.00	0.00	0.00
90th Percentile	0.00	0.00	0.00	0.00	0.00	0.00

Source: Congressional Budget Office.

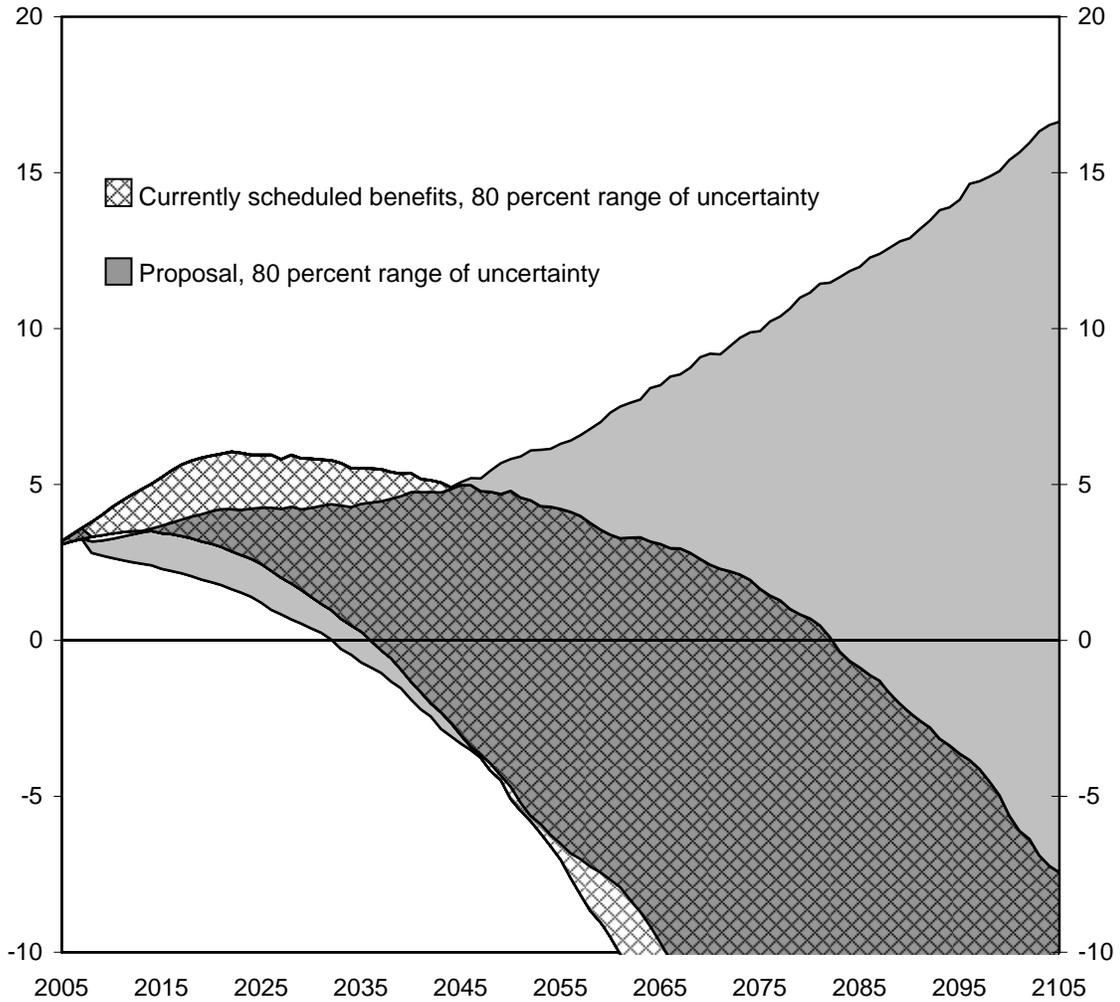
a. The balance is the difference between revenues and outlays.

Figure U3 (Scheduled): Trust Fund Ratio

- While the trust fund ratio would generally be higher under the proposal than under currently scheduled benefits, the range of uncertainty about the ratio would be almost identical.
- The uncertainty ranges are wider under the scheduled-benefits scenario than in the analysis shown in Figure U3 only because the trust funds are allowed to fall below zero in the scheduled-benefits scenario.

Figure U3 (Scheduled).

Potential Range of Social Security Trust Fund Ratios Under Currently Scheduled Benefits and the Scheduled LMS Proposal, 2005 to 2105



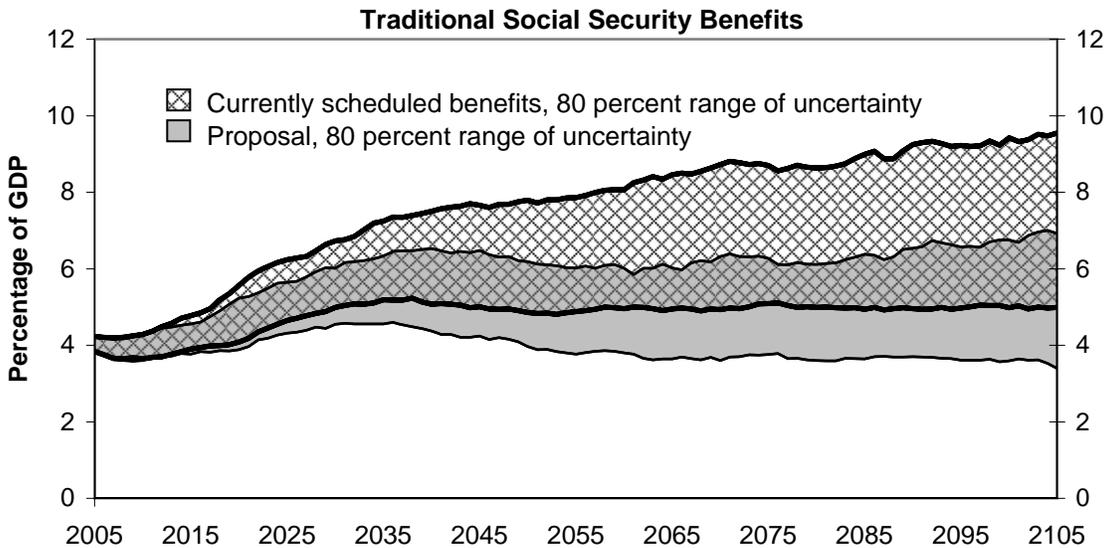
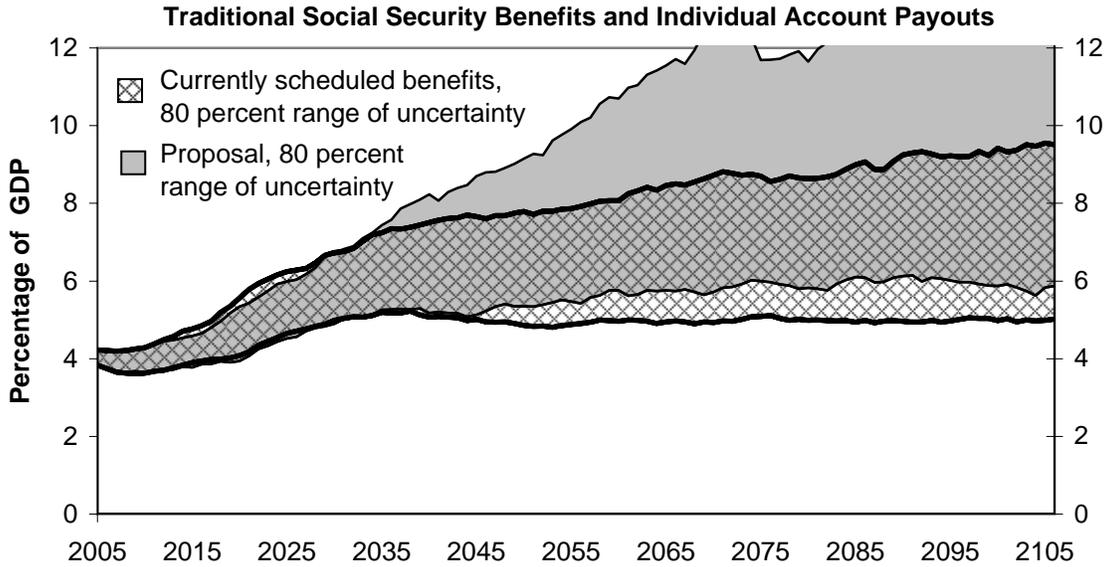
Source: Congressional Budget Office.

Figure U4 (Scheduled): Total Social Security Benefits

- The amount of uncertainty about traditional benefits as a share of GDP under the proposal is similar to the amount of uncertainty under currently scheduled benefits (see bottom panel).
- There is greater uncertainty about total benefits as a share of GDP under the proposal than under currently scheduled benefits, primarily because of the additional uncertainty about investment returns on account holdings (see top panel).

Figure U4 (Scheduled).

Potential Range of Social Security Benefits as a Share of GDP Under Currently Scheduled Benefits and the Scheduled LMS Proposal, 2005 to 2105



Source: Congressional Budget Office.

Table U2 (Scheduled): First-Year Retirement Benefits

- There is greater uncertainty about scheduled benefits under the proposal than under currently scheduled benefits, primarily because of the additional uncertainty about investment returns on account holdings.
- The range between the 10th and 90th percentiles is greater under the proposal than under currently scheduled benefits in dollar terms. However, this is partly because the overall range is shifted higher. For example, for workers in the middle earnings quintile born in the 1980s cohort, the range between the 10th and 90th percentiles is 25 percent higher under the proposal than under currently scheduled benefits (a range of \$13,700 rather than \$11,000). But median benefits (the 50th percentile) for that cohort are higher under the proposal, so relative to the median level, the range is only 14 percent larger.

Table U2 (Scheduled).

Potential Range of First-Year Total Annual Benefits for the Median Retired Worker if Benefits Are Claimed at Age 65 Under Currently Scheduled Benefits and the Scheduled LMS Proposal, by Birth Cohort and Lifetime Earnings Level

10-Year Birth Cohort Starting in Year	Currently Scheduled Social Security Benefits			Proposed Scheduled Social Security Benefits Plus Individual Account Payouts		
	10th	50th	90th	10th	50th	90th
Median in Lowest Household Lifetime Earnings Quintile						
1940	7,100	7,500	7,800	6,900	7,400	7,700
1950	7,100	8,100	9,200	7,300	8,400	9,400
1960	7,100	8,800	10,600	8,000	9,800	11,900
1970	7,500	9,500	11,900	8,500	10,900	14,100
1980	7,900	10,100	13,300	9,100	12,000	16,100
1990	8,500	11,600	15,600	10,500	14,200	19,800
2000	9,200	12,700	17,800	11,000	15,500	22,300
Median in Middle Household Lifetime Earnings Quintile						
1940	14,500	15,400	16,100	14,000	15,000	15,700
1950	13,500	15,500	17,500	12,300	14,200	16,200
1960	12,900	15,700	18,900	12,300	15,100	18,300
1970	14,200	17,900	22,300	14,000	18,100	23,600
1980	15,700	20,300	26,700	16,400	22,100	30,100
1990	16,900	22,900	30,900	18,300	25,100	36,200
2000	18,400	25,600	36,200	19,700	28,400	41,500
Median in Highest Household Lifetime Earnings Quintile						
1940	18,800	20,000	20,800	18,200	19,500	20,400
1950	18,900	21,700	24,600	17,000	19,800	22,400
1960	18,300	22,500	27,100	17,600	21,700	26,100
1970	19,900	25,400	31,400	20,300	26,100	34,000
1980	22,600	28,800	37,800	23,900	32,800	45,100
1990	24,100	32,500	43,800	26,900	37,400	53,600
2000	26,100	36,400	51,000	29,300	42,200	61,600

Source: Congressional Budget Office.

Note: Benefits are in 2004 dollars.