#  <br> SOCIAL SECURITY 

Office of the Chief Actuary

October 8, 2010

The Honorable Ted Deutch
House of Representatives
Washington, D.C. 20515
Dear Mr. Deutch:
I am writing in response to your letter of July 26, 2010 requesting estimates of the financial effects on Social Security of H.R. 5834, "Preserving Our Promise to Seniors Act", which was introduced July 22, 2010. The actual estimates and analysis provided reflect clarification of the intent of the Bill based on discussion with Christopher Fisher of your staff. This discussion has resulted in a modification of the way that benefits would be adjusted to reflect earnings subject to the payroll tax above the contribution and benefit base that is specified in current law. All estimates are based on the intermediate assumptions of the 2010 Trustees Report. The estimates presented reflect the combined efforts of many in our office, but particularly Alice Wade and Christopher Chaplain.

The Bill includes six substantive sections.

- Section 101 would permanently establish the Consumer Price Index for the Elderly (CPIE ), removing it from experimental status.
- Section 102 would specify that the Cost of Living Adjustment (COLA) for Social Security benefits be based on the CPI-E.
- Section 201 would establish special relief payments (\$250 in 2011, and CPI indexed to years thereafter) for Social Security and other beneficiaries in years for which there is no automatic COLA.
- Section 301 would apply the Social Security payroll tax (12.4 percent) to covered earnings above the contribution and benefit base established under current law (phased-in over 7 years starting in 2011 with all earnings taxed in 2017 and later).
- Section 302 would provide for inclusion of the earnings subject to tax under section 301 for benefit computation.
- Section 401 would create a point of order for any proposal to "privatize" Social Security or to reduce Social Security benefits.

The balance of this letter provides a description of our understanding of the intent of the Bill and detailed estimates of the effects of enactment.

## Summary of Effects on Actuarial Status

Figure 1 below illustrates the expected change in the combined Old Age, Survivors Insurance (OASI) and Disability Insurance (DI) Trust Fund assets, expressed as a percent of annual program cost, with enactment of this Bill. Assuming enactment, the OASDI program would be expected to be solvent for the next 75 years, under the intermediate assumptions of the 2010 Trustees Report. The level of assets for the theoretical combined OASI and DI Trust Funds would remain positive through 2084, permitting full payment of scheduled benefits on a timely basis. However, the combined assets would be declining as a percentage of the annual cost of the program at the end of the period. For this reason, the OASDI program would not meet the requirements of sustainable solvency.

Figure 1. Present Law and Proposal OASDI Trust Fund Assets as Percent of Annual Cost: 2010 TR Intermediate Assumptions


Note: Trust Fund Ratio for a given year is the ratio of assets in the combined OASI and DI Trust Fund assets at the beginning of the year to the cost of the program during the year.

Enactment of the Bill would reduce the long-range OASDI actuarial deficit from 1.92 percent of taxable payroll under current law to 0.13 percent of payroll. The actuarial deficit is not completely eliminated because the assets in the combined OASI and DI Trust Funds at the end of 2084, while still positive, would be less than 100 percent of annual program cost. However, the program would meet the test of close actuarial balance because the remaining deficit for the 75year long-range period would be less than 5 percent of program cost over the period.

Figure 2 below illustrates annual projected levels of cost and income as a percent of taxable payroll under current law. The projected levels of cost are shown for present-law scheduled and payable benefits (when less than the cost for scheduled benefits) and for benefits under this Bill. Under this Bill, the combined OASI and DI Trust Funds do not exhaust and, thus, payable benefits (expenditures) equal scheduled benefits over the 75-year projection period.


It is also useful to consider the projected cost and income for the OASDI program expressed as a percentage of Gross Domestic Product (GDP). The graph below illustrates these levels under both current law and this Bill.

Figure 3. Proposal and Present: Law Cost and Tax Income as Percent of GDP: 2010 TR Intermediate Assumptions


# Plan Specification for Provisions Directly Affecting the Social Security Trust Funds 

Section 102—Use of Consumer Price Index for the Elderly (CPI-E) for COLAs
Under this provision, effective December 2012, the Social Security COLA would be based on changes in the CPI-E, rather than the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), the current-law basis for COLAs. We assume that using the CPI-E would result in an average annual COLA of 3.0 percent per year, which is 0.2 percentage point higher than the average annual increase assumed for the CPI-W in the Trustees intermediate assumptions. Our assumption that the average annual increase in the CPI-E will be 0.2 percentage point greater than the CPI-W is based on analysis of the historical results for the CPI-W and the experimental CPI-E, the difference in component weights for these two series, and our assumptions about the relative levels of average annual increase in these components. Taken alone, this provision would decrease (worsen) the long-range OASDI actuarial balance by an estimated 0.34 percent of taxable payroll.

## Section 301-Elimination of Contribution and Benefit Base (Taxable Maximum)

Under this provision, earnings above the contribution and benefit base of current law would be fully subject to the payroll tax in 2017. The portion of earnings over this base that would be subject to the payroll tax increases linearly starting at 14 percent in 2011, and reaching 100 percent for 2017. The full Social Security payroll tax rate of 12.4 percent would be applied to the additional taxable earnings. Taken alone, without any resultant increase in benefits based on the additional taxed earnings, the long-range OASDI actuarial balance would increase (improve) by an estimated 2.21 percent of taxable payroll.

Section 302—Benefit Credits on Earnings Taxed Above the Current-Law Contribution and Benefit Base

Our understanding of the intent of this provision reflects a modification of the actual bill language based on discussion with Christopher Fisher of your staff. Under this provision as modified, the primary insurance amount (PIA) would be determined in two components. The first component would be computed exactly as under current law, based on the average indexed monthly earnings (AIME), restricted to earnings at the level of the current-law contribution and benefit base ( $\$ 106,800$ for 2010) for each year. The second component of the PIA would be computed using the "AIME+", which would be equal to the sum of the indexed earnings in excess of the current-law contribution and benefit base for the 35 years included in the AIME, divided by 420. The second component of PIA would be equal to 3 percent of AIME+ up to $\$ 11,933$ ((equal to $\$ 250,000-\$ 106,800) / 12$ ) and 0.25 percent for AIME+ above this level for beneficiaries newly eligible in 2011. For beneficiaries newly eligible for benefits after 2011, the "bend point" of $\$ 11,933$ would be indexed by the national average wage index (AWI) in the same manner as for the bend points in the first component of the PIA.

The effect of these additional benefits would decrease (worsen) the long-range OASDI actuarial balance by an estimated 0.05 percent of taxable payroll. Sections 301 and 302 combined would increase (improve) the long-range OASDI actuarial balance by an estimated 2.16 percent of taxable payroll.

## Detailed Financial Results

## Summary Results by Provision

Table A provides estimates of the effects on the OASDI long-range actuarial balance for each provision of the Bill separately, and on a combined basis. Summary estimates are also provided for the effect on the annual balance (the difference between income rate and the cost rate, expressed as a percent of present-law taxable payroll) for the $75^{\text {th }}$ projection year, 2084.

## Benefit Illustrations

Tables B1 and B2 provide illustrative examples of the projected increase in benefit levels under this Bill for beneficiaries retiring at age 65 in future years at various earnings levels. Table B1 compares the increases in initial benefit levels to both scheduled and payable present-law benefits. Table B2 compares the increases in benefit levels at ages 65, 75, 85, and 95 to scheduled benefits under present law. The increases in benefits above the level of scheduled benefits reflect the assumed average annual increase in the CPI-E of 3.0 percent, which is 0.2 percentage point higher than the assumed average annual increase for the CPI-W. Table B2 shows that as the number of years since initial benefit eligibility increases, projected benefits under the Bill continue to grow in relation to present-law scheduled benefits. In addition, Table B1 illustrates that benefits projected after 2037 under this Bill are substantially higher than those projected to be payable under current law.

## Trust Fund Operations

Table 1 shows the annual cost and income rates, annual balances, and trust fund ratios for OASDI assuming enactment of the Bill. This table also shows the change from present law in these cost rates, income rates, and balances. Included at the bottom of this table are summarized rates for the 75-year long-range period and the expected year of trust fund exhaustion under this Bill.

Table 1 indicates that the OASDI program is projected to be solvent throughout the 75-year projection period assuming enactment of the Bill. After 2023, the trust fund ratio is projected to decline, reaching 16 percent of the next year's annual program cost at the end of the 75 -year projection period. The actuarial deficit for the OASDI program over the 75-year projection period would be improved by an estimated 1.79 percent of taxable payroll, from an actuarial deficit of 1.92 percent of payroll projected under current law to an actuarial deficit of 0.13 percent of payroll under the Bill.

## Program Transfers and Assets

Column 5 of table 1a provides a projection of asset level for the combined OASI and DI Trust Funds under the Bill, expressed in 2010 average-wage-indexed dollars. For purpose of comparison, the net OASDI Trust Fund assets, expressed in average-wage-indexed dollars, are also shown for a theoretical Social Security program where borrowing authority is assumed for the Trust Funds. Columns 1 through 4 are all zeros because no General Fund transfers are specified in this Bill. Gross Domestic Product, expressed in average-wage-indexed dollars, is shown in column 7 for comparison with other values in the table.

## Effect on the Federal Unified Budget

Table 1b shows the projected effect, in present value discounted dollars, on the Federal unified budget cash flows and balances assuming enactment of the Bill, including the cost of the relief payments to OASDI and other benefit recipients for the year 2011. Relief payments would be financed from the General Fund of the Treasury and reflected in the unified budget, but would not affect the combined OASI and DI Trust Funds. Even with an assumed average annual increase in the CPI-E of 3.0 percent, annual variation would occasionally yield a year with no increase and thus no COLA, precipitating additional relief payments. However, effects shown here do not reflect relief payments for years after 2011. Table 1b.n provides the estimated nominal dollar effect of enactment of the Bill on the annual unified budget balances for years 2010 through 2019. All values in these tables represent the amount of the change that would be expected due to enactment of the Bill, from the level that would be projected under current law.

The effect of the plan on unified budget cash flow (column 2) is expected to be positive throughout the long-range period. Column 3 provides the projected effect of implementing the plan on the Federal debt held by the public. Column 4 provides the projected effect on the annual unified budget balances, including both the cash flow effect in column 2 and the additional interest on the accumulated debt indicated in column 3. It is important to note that these estimates are based on the intermediate assumptions of the 2010 Trustees Report and thus are not consistent with estimates made by the OMB or the CBO based on their assumptions.

## Annual Trust Fund Operations as a Percent of GDP

Table 1c provides annual cost, annual expenditures (on a payable basis), and annual tax income, for the OASDI program expressed as a percentage of GDP. These values are shown for both present-law and assuming enactment of the Bill. Showing the annual trust fund flows as a percent of GDP provides an additional perspective on these trust fund operations in relation to the total value of goods and services produced in the United States.

## Effects on Trust Fund Assets and Unfunded Obligations

Table 1d provides estimates of the changes due to the Bill in the level of projected trust fund assets under present law and, for years after trust fund exhaustion, the level of unfunded obligations under present law. All values in the table are expressed in present-value discounted dollars. For the 75 -year long-range period as a whole, the present-law unfunded obligation of
$\$ 5.4$ trillion in present value is replaced with a positive trust fund balance of $\$ 0.1$ trillion in present value through the end of the period. This change is the combination of the following:

- A $\$ 6.7$ trillion increase in revenue from applying the payroll tax to covered earnings above the present-law contribution and benefit base (column 2), less
- A $\$ 1.2$ trillion increase in cost from (1) using the CPI-E for determining annual COLAs and (2) granting benefit credit for earnings above the present-law tax maximum (column 3).

We hope these estimates will be helpful. Please let me know if we may provide further assistance.

Sincerely,


Stephen C. Goss
Chief Actuary
Enclosures

# Table A--Estimated Long-Range OASDI Financial Effects of H.R. 5834, "Preserving Our Promise to Seniors Act" with Modified Section 302 

Section
Number

Estimated Change in<br>Long-Range OASDI<br>Actuarial Balance<br>(as a percent of payroll)

Estimated Change<br>in Annual Balance<br>in $75^{\text {th }}$ year<br>(as a percent of payroll)

102 Change in COLA Computation-- Starting with the December 2012 cost-of-living adjustment (COLA), compute the COLA based on changes in the Consumer Price Index for the Elderly (CPI-E). Use of this CPI series is estimated to result in an annual COLA that is 0.2 percentage point higher, on average, than using the consumer price index for urban wage and clerical workers (CPIW). $\qquad$ -0.34

301 Phased-In Elimination of the Contribution and Benefit Base-
Eliminate the contribution and benefit base entirely beginning for 2017 and later, phase-in the inclusion of earnings above the current contribution and benefit base for years 2011 through 2016. Assess the full Social Security payroll tax rate of 12.4 percent on the additional earnings $\qquad$ 2.21

## Benefit Credit Based on Additional Earnings Taxed in Section

 301- Under this provision, modified from the Bill as introduced, the primary insurance amount (PIA) would be determined in two components. The first component would be based on the average indexed monthly earnings (AIME), restricted to earnings at the level of the current-law contribution and benefit base ( $\$ 106,800$ for 2010) for each year. The second component of the PIA would be computed using the "AIME + ", which would be equal to the sum of the indexed earnings in excess of the current-law contribution and benefit base for the 35 years included in the AIME, divided by 420. The second component of PIA would be equal to 3 percent of AIME + up to $\$ 11,933$ ((equals $\$ 250,000-\$ 106,800) / 12$ ) and 0.25 percent for AIME+ above this level for beneficiaries newly eligible in 2011. For beneficiaries newly eligible for benefits after 2011, the "bend point" of $\$ 11,933$ would be indexed by the national average wage index (AWI) in the same manner as for the bend points in the first component of the PIA $\qquad$$$
-0.05
$$

301 and

Notes: All estimates are based on the intermediate assumptions of the 2010 OASDI Trustees Report.
Sections 102 and 301 exclude interaction; Section 302, based on its nature, reflects Section 301 of the Bill.

Table B1. Representative Deutch Plan: H.R. 5834 with AIME $+{ }^{1}$
For Worker Retiring at age 65 at Indicated Career Earnings Level

| Benefit Level Percent Change at age 65 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year Present Law Benefit |  |  |  | Proposal Benefit |  |  |
| Attain | Monthly Scheduled |  |  | Monthly | Percent of Present Law: |  |
| Age 65 | Benefit Amount | $\mathrm{COLA}^{3}$ | Total | Benefit Amount | Scheduled | Payable |
|  | (Wage Indexed 2010 Dollars) |  |  | (Wage Indexed 2010 Dollars) | (Per |  |
| Scaled Very Low Earner (\$10,771 for $2010{ }^{\mathbf{2}}$ ) |  |  |  |  |  |  |
| 2010 | 648 |  |  |  |  |  |
| 2020 | 611 | 0.6 | 0.6 | 615 | 101 | 101 |
| 2030 | 579 | 0.6 | 0.6 | 583 | 101 | 101 |
| 2040 | 578 | 0.6 | 0.6 | 581 | 101 | 128 |
| 2050 | 580 | 0.6 | 0.6 | 583 | 101 | 126 |
| 2060 | 580 | 0.6 | 0.6 | 584 | 101 | 127 |
| 2070 | 580 | 0.6 | 0.6 | 584 | 101 | 129 |
| 2080 | 580 | 0.6 | 0.6 | 583 | 101 | 133 |
| Scaled Low Earner (\$19,388 for $2010{ }^{\mathbf{2}}$ ) |  |  |  |  |  |  |
| 2010 | 848 |  |  |  |  |  |
| 2020 | 800 | 0.6 | 0.6 | 804 | 101 | 101 |
| 2030 | 758 | 0.6 | 0.6 | 762 | 101 | 101 |
| 2040 | 756 | 0.6 | 0.6 | 760 | 101 | 128 |
| 2050 | 758 | 0.6 | 0.6 | 763 | 101 | 126 |
| 2060 | 759 | 0.6 | 0.6 | 764 | 101 | 127 |
| 2070 | 759 | 0.6 | 0.6 | 764 | 101 | 129 |
| 2080 | 758 | 0.6 | 0.6 | 763 | 101 | 133 |
| Scaled Medium Earner (\$43,084 for 2010 ${ }^{\text {2 }}$ ) |  |  |  |  |  |  |
| 2010 | 1,397 |  |  |  |  |  |
| 2020 | 1,318 | 0.6 | 0.6 | 1,326 | 101 | 101 |
| 2030 | 1,248 | 0.6 | 0.6 | 1,256 | 101 | 101 |
| 2040 | 1,245 | 0.6 | 0.6 | 1,253 | 101 | 128 |
| 2050 | 1,249 | 0.6 | 0.6 | 1,257 | 101 | 126 |
| 2060 | 1,251 | 0.6 | 0.6 | 1,258 | 101 | 127 |
| 2070 | 1,251 | 0.6 | 0.6 | 1,258 | 101 | 129 |
| 2080 | 1,249 | 0.6 | 0.6 | 1,257 | 101 | 133 |
| Scaled High Earner (\$68,934 for $\mathbf{2 0 1 0}^{\mathbf{2}}$ ) |  |  |  |  |  |  |
| 2010 | 1,851 |  |  |  |  |  |
| 2020 | 1,747 | 0.6 | 0.6 | 1,757 | 101 | 101 |
| 2030 | 1,654 | 0.6 | 0.6 | 1,664 | 101 | 101 |
| 2040 | 1,651 | 0.6 | 0.6 | 1,660 | 101 | 128 |
| 2050 | 1,656 | 0.6 | 0.6 | 1,665 | 101 | 126 |
| 2060 | 1,658 | 0.6 | 0.6 | 1,668 | 101 | 127 |
| 2070 | 1,658 | 0.6 | 0.6 | 1,668 | 101 | 129 |
| 2080 | 1,656 | 0.6 | 0.6 | 1,666 | 101 | 133 |
| Steady Maximum Earner (\$106,800 for 2010 ${ }^{\mathbf{2}}$ ) |  |  |  |  |  |  |
| 2010 | 2,192 |  |  |  |  |  |
| 2020 | 2,126 | 0.6 | 0.6 | 2,138 | 101 | 101 |
| 2030 | 2,021 | 0.6 | 0.6 | 2,033 | 101 | 101 |
| 2040 | 2,016 | 0.6 | 0.6 | 2,028 | 101 | 128 |
| 2050 | 2,020 | 0.6 | 0.6 | 2,032 | 101 | 126 |
| 2060 | 2,021 | 0.6 | 0.6 | 2,032 | 101 | 127 |
| 2070 | 2,021 | 0.6 | 0.6 | 2,033 | 101 | 129 |
| 2080 | 2,019 | 0.6 | 0.6 | 2,030 | 101 | 133 |
| ${ }^{1}$ Refer to memo for details. |  |  |  |  |  |  |
| ${ }^{2}$ Average of highest 35 years of earnings wage indexed to 2010. |  |  |  |  |  |  |
| ${ }^{3}$ Starting Dec 2012, compute the COLA using the CPI for Elderly Consumers rather than CPI-W. All estimates based on the intermediate assumptions of the 2010 Trustees Report. <br> Office of the Actuary <br> Social Security Administration <br> October 7, 2010 |  |  |  |  |  |  |

# Table B2. Representative Deutch Plan: H.R. 5834 with AIME+ ${ }^{1}$ For Worker Retiring at age 65 at Indicated Career Earnings Level 

Percent Change from Present Law Scheduled
Year
Attain
Age 65
Age 65
Age 75
Age 85
Age 95
Scaled Very Low Earner (\$10,771 for 2010 ${ }^{\mathbf{2}}$ )
2010
2020
2030
2040 and later
0.6
0.6
0.6

| 2.6 | 4.6 | 6.6 |
| :--- | :--- | :--- |
| 2.6 | 4.6 | 6.6 |
| 2.6 | 4.6 | 6.6 |

Scaled Low Earner (\$19,388 for 2010 ${ }^{\mathbf{2}}$ )
2010
2020
2030
2040 and later
0.6
0.6
0.6

| 2.6 | 4.6 | 6.6 |
| :--- | :--- | :--- |
| 2.6 | 4.6 | 6.6 |
| 2.6 | 4.6 | 6.6 |

Scaled Medium Earner (\$43,084 for 2010 ${ }^{\mathbf{2}}$ )
2010
2020
2030
2040 and later
0.6
$2.6 \quad 4.6$
6.6

2010
2020
2030
2040 and later

2010
2020
2030
2040 and later
0.6
0.6
0.6
2.6
2.6
4.6
6.6

Scaled High Earner (\$68,934 for 2010 ${ }^{2}$ )
2010
2020
2030
2040 and later

2010
2020
2030
2040 and later
0.6
0.6
$2.6 \quad 4.6$
6.6
${ }^{1}$ Refer to memo for details.
${ }^{2}$ Average of highest 35 years of earnings wage indexed to 2010.
${ }^{3}$ Starting Dec 2012, compute the COLA using the CPI for Elderly Consumers rather than CPI-W.
All estimates based on the intermediate assumptions of the 2010 Trustees Report.
Office of the Actuary
Social Security Administration
October 7, 2010

Table 1 - Financial Effects of Representative Deutch Plan (H.R. 5834)


Table 1a-General Fund Transfers, OASDI Trust Fund Assets, and Theoretical OASDI Assets - H.R. 5834

|  | Proposal General Fund Transfers |  |  |  | Billions of 2010 Average Wage Indexed Dollars |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Present Value in Billions as of 1-12010 | Percentage of Payroll | Billions of 2010 Average Wage Indexed Dollars |  | Proposal <br> Total OASDI <br> Trust Fund Assets at End of Year | GDP | Theoretical Social Security ${ }^{1}$ with Borrowing Authority |  |
|  | Annual |  | Annual | Accumulated as of End of Year |  |  | Without General Fund Transfors | With Plan General <br> Fund Transfers |
| Year | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 2010 | 0.0 | 0.00 | 0.0 | 0 | 2617 | 14775 | 2617 | 2617 |
| 2011 | 0.0 | 0.00 | 0.0 | 0.0 | 2649 | 14910 | 2632 | 2632 |
| 2012 | 0.0 | 0.00 | 0.0 | 0.0 | 2685 | 15095 | 2634 | 2634 |
| 2013 | 0.0 | 0.00 | 0.0 | 0.0 | 2743 | 15316 | 2640 | 2640 |
| 2014 | 0.0 | 0.00 | 0.0 | 0.0 | 2828 | 15518 | 2652 | 2652 |
| 2015 | 0.0 | 0.00 | 0.0 | 0.0 | 2938 | 15711 | 2669 | 2669 |
| 2016 | 0.0 | 0.00 | 0.0 | 0.0 | 3062 | 15835 | 2681 | 2681 |
| 2017 | 0.0 | 0.00 | 0.0 | 0.0 | 3205 | 15948 | 2688 | 2688 |
| 2018 | 0.0 | 0.00 | 0.0 | 0.0 | 3343 | 16024 | 2686 | 2686 |
| 2019 | 0.0 | 0.00 | 0.0 | 0.0 | 3469 | 16083 | 2671 | 2671 |
| 2020 | 0.0 | 0.00 | 0.0 | 0.0 | 3588 | 16195 | 2645 | 2645 |
| 2021 | 0.0 | 0.00 | 0.0 | 0.0 | 3693 | 16307 | 2602 | 2602 |
| 2022 | 0.0 | 0.00 | 0.0 | 0.0 | 3783 | 16417 | 2542 | 2542 |
| 2023 | 0.0 | 0.00 | 0.0 | 0.0 | 3861 | 16533 | 2467 | 2467 |
| 2024 | 0.0 | 0.00 | 0.0 | 0.0 | 3926 | 16652 | 2375 | 2375 |
| 2025 | 0.0 | 0.00 | 0.0 | 0.0 | 3973 | 16753 | 2264 | 2264 |
| 2026 | 0.0 | 0.00 | 0.0 | 0.0 | 4005 | 16855 | 2137 | 2137 |
| 2027 | 0.0 | 0.00 | 0.0 | 0.0 | 4024 | 16957 | 1995 | 1995 |
| 2028 | 0.0 | 0.00 | 0.0 | 0.0 | 4031 | 17057 | 1838 | 1838 |
| 2029 | 0.0 | 0.00 | 0.0 | 0.0 | 4027 | 17151 | 1669 | 1669 |
| 2030 | 0.0 | 0.00 | 0.0 | 0.0 | 4014 | 17247 | 1488 | 1488 |
| 2031 | 0.0 | 0.00 | 0.0 | 0.0 | 3994 | 17350 | 1297 | 1297 |
| 2032 | 0.0 | 0.00 | 0.0 | 0.0 | 3966 | 17453 | 1097 | 1097 |
| 2033 | 0.0 | 0.00 | 0.0 | 0.0 | 3932 | 17552 | 887 | 887 |
| 2034 | 0.0 | 0.00 | 0.0 | 0.0 | 3894 | 17653 | 671 | 671 |
| 2035 | 0.0 | 0.00 | 0.0 | 0.0 | 3852 | 17755 | 449 | 449 |
| 2036 | 0.0 | 0.00 | 0.0 | 0.0 | 3809 | 17862 | 221 | 221 |
| 2037 | 0.0 | 0.00 | 0.0 | 0.0 | 3763 | 17971 | -12 | -12 |
| 2038 | 0.0 | 0.00 | 0.0 | 0.0 | 3718 | 18085 | -248 | -248 |
| 2039 | 0.0 | 0.00 | 0.0 | 0.0 | 3673 | 18198 | -487 | -487 |
| 2040 | 0.0 | 0.00 | 0.0 | 0.0 | 3630 | 18308 | -729 | -729 |
| 2041 | 0.0 | 0.00 | 0.0 | 0.0 | 3588 | 18421 | -973 | -973 |
| 2042 | 0.0 | 0.00 | 0.0 | 0.0 | 3549 | 18536 | -1219 | -1219 |
| 2043 | 0.0 | 0.00 | 0.0 | 0.0 | 3511 | 18653 | -1469 | -1469 |
| 2044 | 0.0 | 0.00 | 0.0 | 0.0 | 3475 | 18772 | -1721 | -1721 |
| 2045 | 0.0 | 0.00 | 0.0 | 0.0 | 3441 | 18892 | -1976 | -1976 |
| 2046 | 0.0 | 0.00 | 0.0 | 0.0 | 3407 | 19012 | -2236 | -2236 |
| 2047 | 0.0 | 0.00 | 0.0 | 0.0 | 3374 | 19130 | -2499 | -2499 |
| 2048 | 0.0 | 0.00 | 0.0 | 0.0 | 3341 | 19247 | -2767 | -2767 |
| 2049 | 0.0 | 0.00 | 0.0 | 0.0 | 3309 | 19366 | -3039 | -3039 |
| 2050 | 0.0 | 0.00 | 0.0 | 0.0 | 3278 | 19483 | -3315 | -3315 |
| 2051 | 0.0 | 0.00 | 0.0 | 0.0 | 3247 | 19599 | -3597 | -3597 |
| 2052 | 0.0 | 0.00 | 0.0 | 0.0 | 3214 | 19716 | -3885 | -3885 |
| 2053 | 0.0 | 0.00 | 0.0 | 0.0 | 3181 | 19832 | -4179 | -4179 |
| 2054 | 0.0 | 0.00 | 0.0 | 0.0 | 3146 | 19949 | -4481 | -4481 |
| 2055 | 0.0 | 0.00 | 0.0 | 0.0 | 3110 | 20068 | -4791 | -4791 |
| 2056 | 0.0 | 0.00 | 0.0 | 0.0 | 3070 | 20189 | -5109 | -5109 |
| 2057 | 0.0 | 0.00 | 0.0 | 0.0 | 3028 | 20312 | -5436 | -5436 |
| 2058 | 0.0 | 0.00 | 0.0 | 0.0 | 2983 | 20435 | -5770 | -5770 |
| 2059 | 0.0 | 0.00 | 0.0 | 0.0 | 2935 | 20559 | -6114 | -6114 |
| 2060 | 0.0 | 0.00 | 0.0 | 0.0 | 2884 | 20684 | -6465 | -6465 |
| 2061 | 0.0 | 0.00 | 0.0 | 0.0 | 2830 | 20808 | -6826 | -6826 |
| 2062 | 0.0 | 0.00 | 0.0 | 0.0 | 2773 | 20933 | -7196 | -7196 |
| 2063 | 0.0 | 0.00 | 0.0 | 0.0 | 2712 | 21060 | -7576 | -7576 |
| 2064 | 0.0 | 0.00 | 0.0 | 0.0 | 2649 | 21190 | -7966 | -7966 |
| 2065 | 0.0 | 0.00 | 0.0 | 0.0 | 2581 | 21321 | -8367 | -8367 |
| 2066 | 0.0 | 0.00 | 0.0 | 0.0 | 2509 | 21453 | -8779 | -8779 |
| 2067 | 0.0 | 0.00 | 0.0 | 0.0 | 2433 | 21585 | -9202 | -9202 |
| 2068 | 0.0 | 0.00 | 0.0 | 0.0 | 2352 | 21716 | -9635 | -9635 |
| 2069 | 0.0 | 0.00 | 0.0 | 0.0 | 2266 | 21846 | -10081 | -10081 |
| 2070 | 0.0 | 0.00 | 0.0 | 0.0 | 2174 | 21976 | -10538 | -10538 |
| 2071 | 0.0 | 0.00 | 0.0 | 0.0 | 2077 | 22104 | -11007 | -11007 |
| 2072 | 0.0 | 0.00 | 0.0 | 0.0 | 1974 | 22234 | -11490 | -11490 |
| 2073 | 0.0 | 0.00 | 0.0 | 0.0 | 1866 | 22363 | -11985 | -11985 |
| 2074 | 0.0 | 0.00 | 0.0 | 0.0 | 1751 | 22493 | -12493 | -12493 |
| 2075 | 0.0 | 0.00 | 0.0 | 0.0 | 1630 | 22622 | -13016 | -13016 |
| 2076 | 0.0 | 0.00 | 0.0 | 0.0 | 1503 | 22749 | -13551 | -13551 |
| 2077 | 0.0 | 0.00 | 0.0 | 0.0 | 1369 | 22874 | -14100 | -14100 |
| 2078 | 0.0 | 0.00 | 0.0 | 0.0 | 1229 | 22996 | -14662 | -14662 |
| 2079 | 0.0 | 0.00 | 0.0 | 0.0 | 1082 | 23117 | -15238 | -15238 |
| 2080 | 0.0 | 0.00 | 0.0 | 0.0 | 928 | 23239 | -15829 | -15829 |
| 2081 | 0.0 | 0.00 | 0.0 | 0.0 | 767 | 23359 | -16433 | -16433 |
| 2082 | 0.0 | 0.00 | 0.0 | 0.0 | 599 | 23480 | -17053 | -17053 |
| 2083 | 0.0 | 0.00 | 0.0 | 0.0 | 424 | 23599 | -17688 | -17688 |
| 2084 | 0.0 | 0.00 | 0.0 | 0.0 | 242 | 23716 | -18338 | -18338 |
| Total 2010-2084 | 0.0 |  |  |  |  |  |  |  |

Based on the Intermediate Assumptions of the 2010 Trustees Report Ultimate Real Trust Fund Yield of 2.9\%

Table 1b - OASDI Changes \& Unified Budget Effect (Present Value Dollars) - H.R. 5834


Table 1b.n - OASDI Changes \& Unified Budget Effect (Nominal Dollars) - H.R. 5834


Table 1c - Present Law and Proposal Cost, Expenditures, and Income: As Percent of GDP - H.R. 5834

| Calendar Year | Present Law OASDI |  |  |
| :---: | :---: | :---: | :---: |
|  | Cost <br> (1) | $\begin{aligned} & \text { Expenditures } \\ & \text { (Payable) } \end{aligned}$ <br> (2) | Tax Income (3) |
| 2010 | 4.84 | 4.84 | 4.56 |
| 2011 | 4.80 | 4.80 | 4.75 |
| 2012 | 4.76 | 4.76 | 4.77 |
| 2013 | 4.75 | 4.75 | 4.78 |
| 2014 | 4.78 | 4.78 | 4.80 |
| 2015 | 4.83 | 4.83 | 4.81 |
| 2016 | 4.90 | 4.90 | 4.84 |
| 2017 | 4.98 | 4.98 | 4.86 |
| 2018 | 5.08 | 5.08 | 4.88 |
| 2019 | 5.20 | 5.20 | 4.89 |
| 2020 | 5.30 | 5.30 | 4.89 |
| 2021 | 5.41 | 5.41 | 4.89 |
| 2022 | 5.51 | 5.51 | 4.88 |
| 2023 | 5.60 | 5.60 | 4.88 |
| 2024 | 5.68 | 5.68 | 4.88 |
| 2025 | 5.77 | 5.77 | 4.87 |
| 2026 | 5.84 | 5.84 | 4.87 |
| 2027 | 5.90 | 5.90 | 4.87 |
| 2028 | 5.96 | 5.96 | 4.87 |
| 2029 | 6.01 | 6.01 | 4.87 |
| 2030 | 6.05 | 6.05 | 4.86 |
| 2031 | 6.08 | 6.08 | 4.86 |
| 2032 | 6.10 | 6.10 | 4.86 |
| 2033 | 6.12 | 6.12 | 4.86 |
| 2034 | 6.13 | 6.13 | 4.85 |
| 2035 | 6.14 | 6.14 | 4.85 |
| 2036 | 6.14 | 6.14 | 4.85 |
| 2037 | 6.13 | 6.06 | 4.84 |
| 2038 | 6.11 | 4.84 | 4.84 |
| 2039 | 6.10 | 4.84 | 4.84 |
| 2040 | 6.08 | 4.83 | 4.83 |
| 2041 | 6.05 | 4.83 | 4.83 |
| 2042 | 6.03 | 4.82 | 4.82 |
| 2043 | 6.01 | 4.81 | 4.81 |
| 2044 | 5.99 | 4.81 | 4.81 |
| 2045 | 5.97 | 4.80 | 4.80 |
| 2046 | 5.95 | 4.79 | 4.79 |
| 2047 | 5.94 | 4.79 | 4.79 |
| 2048 | 5.92 | 4.78 | 4.78 |
| 2049 | 5.91 | 4.78 | 4.78 |
| 2050 | 5.89 | 4.77 | 4.77 |
| 2051 | 5.88 | 4.76 | 4.76 |
| 2052 | 5.87 | 4.76 | 4.76 |
| 2053 | 5.87 | 4.75 | 4.75 |
| 2054 | 5.87 | 4.75 | 4.75 |
| 2055 | 5.87 | 4.74 | 4.74 |
| 2056 | 5.87 | 4.74 | 4.74 |
| 2057 | 5.87 | 4.73 | 4.73 |
| 2058 | 5.87 | 4.73 | 4.73 |
| 2059 | 5.87 | 4.72 | 4.72 |
| 2060 | 5.87 | 4.71 | 4.71 |
| 2061 | 5.87 | 4.71 | 4.71 |
| 2062 | 5.87 | 4.70 | 4.70 |
| 2063 | 5.87 | 4.70 | 4.70 |
| 2064 | 5.87 | 4.69 | 4.69 |
| 2065 | 5.88 | 4.69 | 4.69 |
| 2066 | 5.88 | 4.68 | 4.68 |
| 2067 | 5.88 | 4.67 | 4.67 |
| 2068 | 5.89 | 4.67 | 4.67 |
| 2069 | 5.89 | 4.66 | 4.66 |
| 2070 | 5.90 | 4.66 | 4.66 |
| 2071 | 5.91 | 4.65 | 4.65 |
| 2072 | 5.92 | 4.65 | 4.65 |
| 2073 | 5.92 | 4.64 | 4.64 |
| 2074 | 5.93 | 4.64 | 4.64 |
| 2075 | 5.94 | 4.63 | 4.63 |
| 2076 | 5.95 | 4.63 | 4.63 |
| 2077 | 5.96 | 4.62 | 4.62 |
| 2078 | 5.97 | 4.62 | 4.62 |
| 2079 | 5.97 | 4.62 | 4.62 |
| 2080 | 5.98 | 4.61 | 4.61 |
| 2081 | 5.99 | 4.61 | 4.61 |
| 2082 | 6.00 | 4.61 | 4.61 |
| 2083 | 6.01 | 4.60 | 4.60 |
| 2084 | 6.02 | 4.60 | 4.60 |

Based on Intermediate Assumptions of the 2010 Trustees Report.

| Proposal OASDI |  |  |
| :---: | :---: | :---: |
|  | Expenditures | Tax |
| Cost | (Payable) | Income |
| (4) | (5) | (6) |
| 4.84 | 4.84 | 4.56 |
| 4.80 | 4.80 | 4.86 |
| 4.76 | 4.76 | 4.99 |
| 4.76 | 4.76 | 5.13 |
| 4.80 | 4.80 | 5.27 |
| 4.86 | 4.86 | 5.41 |
| 4.93 | 4.93 | 5.57 |
| 5.03 | 5.03 | 5.72 |
| 5.14 | 5.14 | 5.75 |
| 5.26 | 5.26 | 5.76 |
| 5.38 | 5.38 | 5.76 |
| 5.49 | 5.49 | 5.76 |
| 5.59 | 5.59 | 5.75 |
| 5.70 | 5.70 | 5.75 |
| 5.79 | 5.79 | 5.74 |
| 5.88 | 5.88 | 5.74 |
| 5.96 | 5.96 | 5.74 |
| 6.03 | 6.03 | 5.73 |
| 6.09 | 6.09 | 5.73 |
| 6.15 | 6.15 | 5.73 |
| 6.19 | 6.19 | 5.73 |
| 6.23 | 6.23 | 5.73 |
| 6.26 | 6.26 | 5.72 |
| 6.28 | 6.28 | 5.72 |
| 6.30 | 6.30 | 5.72 |
| 6.30 | 6.30 | 5.71 |
| 6.31 | 6.31 | 5.71 |
| 6.30 | 6.30 | 5.71 |
| 6.29 | 6.29 | 5.70 |
| 6.28 | 6.28 | 5.70 |
| 6.26 | 6.26 | 5.69 |
| 6.24 | 6.24 | 5.69 |
| 6.21 | 6.21 | 5.68 |
| 6.19 | 6.19 | 5.67 |
| 6.17 | 6.17 | 5.67 |
| 6.15 | 6.15 | 5.66 |
| 6.14 | 6.14 | 5.65 |
| 6.12 | 6.12 | 5.65 |
| 6.11 | 6.11 | 5.64 |
| 6.09 | 6.09 | 5.63 |
| 6.08 | 6.08 | 5.63 |
| 6.06 | 6.06 | 5.62 |
| 6.06 | 6.06 | 5.61 |
| 6.05 | 6.05 | 5.61 |
| 6.05 | 6.05 | 5.60 |
| 6.05 | 6.05 | 5.59 |
| 6.05 | 6.05 | 5.59 |
| 6.05 | 6.05 | 5.58 |
| 6.05 | 6.05 | 5.57 |
| 6.05 | 6.05 | 5.57 |
| 6.05 | 6.05 | 5.56 |
| 6.05 | 6.05 | 5.56 |
| 6.05 | 6.05 | 5.55 |
| 6.06 | 6.06 | 5.54 |
| 6.06 | 6.06 | 5.54 |
| 6.06 | 6.06 | 5.53 |
| 6.06 | 6.06 | 5.52 |
| 6.07 | 6.07 | 5.52 |
| 6.07 | 6.07 | 5.51 |
| 6.08 | 6.08 | 5.51 |
| 6.09 | 6.09 | 5.50 |
| 6.10 | 6.10 | 5.49 |
| 6.11 | 6.11 | 5.49 |
| 6.11 | 6.11 | 5.48 |
| 6.12 | 6.12 | 5.48 |
| 6.13 | 6.13 | 5.47 |
| 6.14 | 6.14 | 5.47 |
| 6.15 | 6.15 | 5.46 |
| 6.16 | 6.16 | 5.46 |
| 6.17 | 6.17 | 5.45 |
| 6.18 | 6.18 | 5.45 |
| 6.19 | 6.19 | 5.45 |
| 6.20 | 6.20 | 5.44 |
| 6.21 | 6.21 | 5.44 |
| 6.22 | 6.22 | 5.43 |

Office of the Chief Actuary Social Security Administration October 5, 2010

Table 1d - Change in Long-Range Trust Fund Assets / Unfunded Obligation - H.R. 5834
(Billions of Dollars, Present Value on 1-1-2010)


# Contress of the annited States <br> 解ouse of 登epresentatives 

Stephen C．Goss，Chief Actuary<br>Office of the Chief Actuary<br>Social Security Administration<br>6401 Security Boulevard<br>700 Altmeyer<br>Baltimore，MD 21235

Dear Mr．Goss：

On July 22，2010，I introduced the Preserving Our Promise to Seniors Act（H．R．5834）．One of the goals of this legislation is to close Social Security＇s long－range funding gap．The publications issued by the Office of the Chief Actuary are universally respected and essential to lawmakers＇efforts to forever ensure sufficient funding for promised benefits．I would greatly appreciate the assistance of those in the Office of the Chief Actuary in preparing a report that analyzes this proposal and its effects on 75－year solvency．

Please feel free to contact me or Christopher Fisher of my staff if you have any questions or need any clarifications of intent．Thank you for your great work and in advance for your assistance in determining the long－range effects of my proposal．

Sincerely，


Ted Deutch
Member of Congress

## TD／clf

Enclosure


