



**SOCIAL SECURITY**  
Office of the Chief Actuary

September 18, 2019

The Honorable John Larson  
Subcommittee on Social Security  
Committee on Ways and Means  
United States House of Representatives  
Washington, D.C. 20515

The Honorable Richard Blumenthal  
United States Senate  
Washington, D.C. 20510

The Honorable Chris Van Hollen  
United States Senate  
Washington, D.C. 20510

Dear Chairman Larson, Senator Blumenthal, and Senator Van Hollen:

I am writing in response to your request for an update of our estimates of the financial effects on Social Security of enacting the *Social Security 2100 Act*, which you introduced on January 30, 2019. The estimates provided here reflect the intermediate assumptions and baseline projections of the 2019 Trustees Report. The estimates we provided in the letter dated January 30, 2019 reflected the intermediate assumptions and baseline projections in the 2018 Trustees Report. Please note that as in the estimates we provided in January, estimates here reflect our understanding of the intent of the provisions of the Bill as described by your staff. We understand that some have found aspects of the Bill language to be ambiguous.

This Bill (hereafter referred to as the proposal) includes eight provisions with direct effects on the Social Security Trust Funds. We have enjoyed working closely with Kathryn Olson, Scott Stephanou, Nancy Perry, Elisa Walker, Brian Steele, and Alyssa Penna of your staffs in developing this proposal to meet your goals. The estimates and analysis provided here reflect the combined effort of many in the Office of the Chief Actuary, but most particularly Karen Glenn, Christopher Chaplain, Daniel Nickerson, Kyle Burkhalter, Michael Clingman, Anna Kirjusina, Katie Sutton, and Tiffany Bosley.

The enclosed tables provide estimates of the effects of the eight provisions on the cost, income, and combined trust fund reserves for the Old Age, Survivors, and Disability Insurance (OASDI) program, as well as estimated effects on retired worker benefit levels for selected hypothetical

workers and effects on payroll tax levels. In addition, tables 1b and 1b.n provide estimates of the federal budget implications of these eight provisions with direct effects on the OASDI program.

Assuming enactment of the proposal, we estimate that the combined Social Security Trust Fund would be fully solvent (able to pay all scheduled benefits in full on a timely basis) throughout the 75-year projection period, under the intermediate assumptions of the 2019 Trustees Report. (Note that section 204 of this proposal would combine the currently separate operations and reserves of the OASI and DI Trust Funds into a single Social Security Trust Fund.) In addition, under this proposal the OASDI program would meet the further conditions for sustainable solvency, because projected combined trust fund reserves would be growing as a percentage of the annual cost of the program at the end of the long-range period.

The proposal includes eight provisions with direct effects on the OASDI program. The following list briefly describes each provision of the proposal:

*Section 101. Increase the first PIA formula factor from 90 percent to 93 percent for all benefits payable for months of entitlement January 2020 and later, including benefits for those becoming newly eligible both before and after January 2020.*

*Section 102. Use the Consumer Price Index for the Elderly (CPI-E) increase rather than the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) increase to calculate the cost-of-living adjustment (COLA), effective for December 2019 and later COLAs. We assume this change would increase the COLA by an average of 0.2 percentage point per year.*

*Section 103. Increase the special minimum PIA, beginning for workers who become newly eligible for retirement or disability benefits or die in 2020 or later. For workers becoming newly eligible or dying in 2020, the minimum PIA for 2020 for workers with 30 or more years of coverage (YOCs) is 125 percent of the annual poverty guideline for a single individual published by the Department of Health and Human Services for 2019, divided by 12. For workers becoming newly eligible or dying after 2020, the minimum PIA for their initial year of eligibility is increased by the growth in the national average wage index (AWI). For all affected workers, the minimum PIA is increased after their year of initial eligibility by the COLA.*

*Section 104. Replace the current-law thresholds for federal income taxation of OASDI benefits with a single set of thresholds at \$50,000 for single filers and \$100,000 for joint filers for taxation of up to 85 percent of OASDI benefits, effective for tax year 2020. These thresholds would be fixed and not indexed to price inflation or average wage increase. The amount of revenue from taxation of OASDI benefits that would be allocated to the HI Trust Fund will be at the same level as if the current-law computation (in the absence of this provision) were applied. The net amount of revenue from taxing OASDI benefits, after the allocation to HI, would be allocated to the combined Social Security Trust Fund.*

*Section 201 and Section 202. Apply the combined OASDI payroll tax rate on covered earnings above \$400,000 paid in 2020 and later. Tax all covered earnings once the current-law taxable maximum exceeds \$400,000. Credit the additional earnings that are taxed for benefit purposes*

by: (a) calculating a second average indexed monthly earnings (“AIME+”) reflecting only additional earnings taxed above the current-law taxable maximum, (b) applying a 2-percent factor on this newly computed “AIME+” to develop a second component of the PIA, and (c) adding this second component to the current-law PIA.

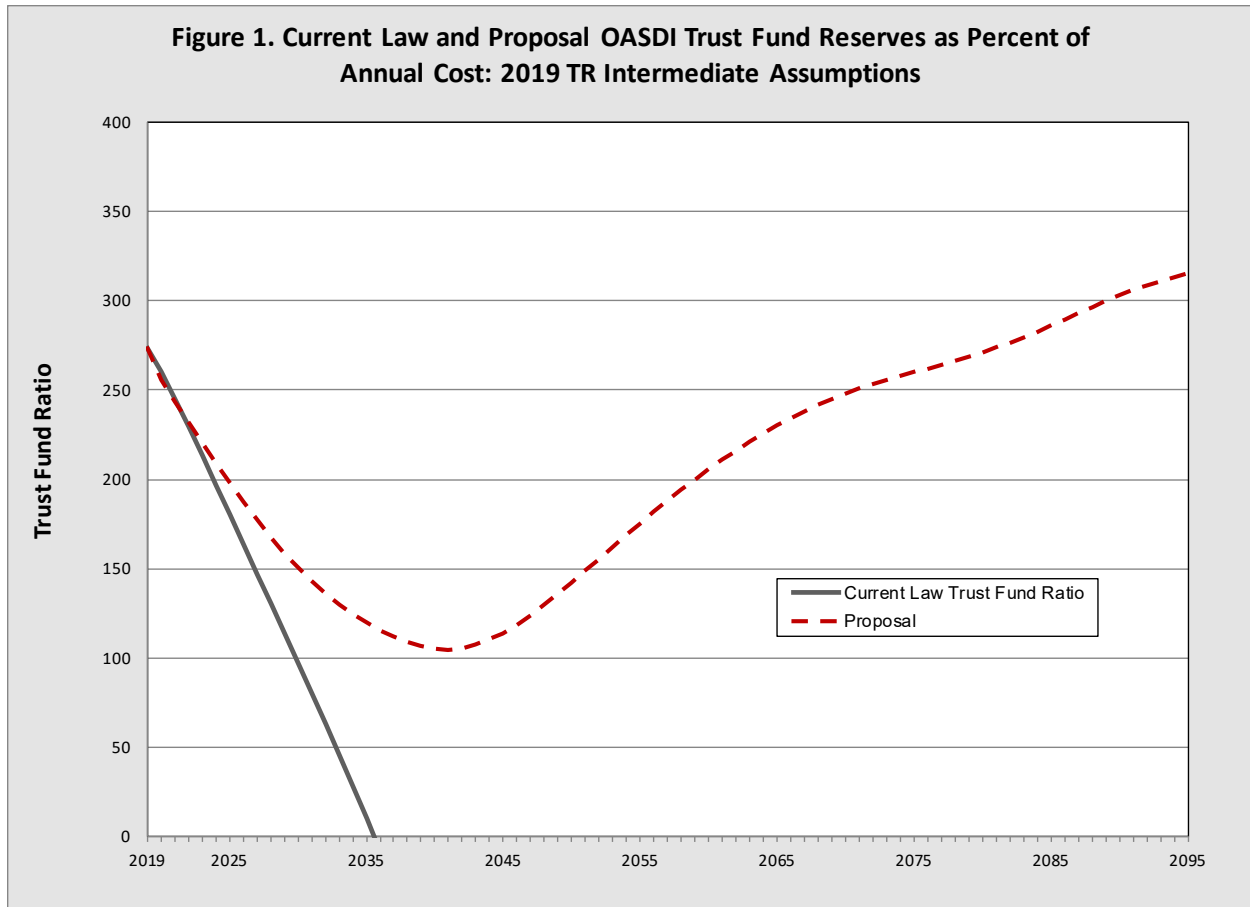
*Section 203. Increase the combined OASDI payroll tax rate to 14.8 percent, fully effective for 2043 and later. The combined rate is increased by 0.1 percentage point each year starting in 2020, reaching the ultimate 14.8 percent rate for 2043 and later.*

*Section 204. Beginning in 2020, establish a new Social Security Trust Fund by combining the reserves of the separate OASI and DI Trust Funds and managing all future financial operations of the program on a combined basis.*

The balance of this letter provides a summary of the effects of the eight provisions on the actuarial status of the OASDI program, our understanding of the specifications and intent of each of the eight provisions, and descriptions of our detailed financial estimates for trust fund operations, benefit levels, and implications for the federal budget. See the “Specification for Provisions of the Proposal” section of this letter for a more detailed description of these eight provisions.

### **Summary of Effects of the Proposal on OASDI Actuarial Status**

Figure 1 illustrates the projected OASDI Trust Fund ratio through 2093 under current law and assuming enactment of the proposal. The trust fund ratio is defined as the combined Social Security Trust Fund reserves expressed as a percent of annual program cost. Assuming enactment of the proposal, the combined Social Security Trust Fund would be fully solvent throughout the 75-year projection period, under the intermediate assumptions of the 2019 Trustees Report. In addition, because the projected trust fund ratio is increasing at the end of the period, the proposal meets the conditions for sustainable solvency.

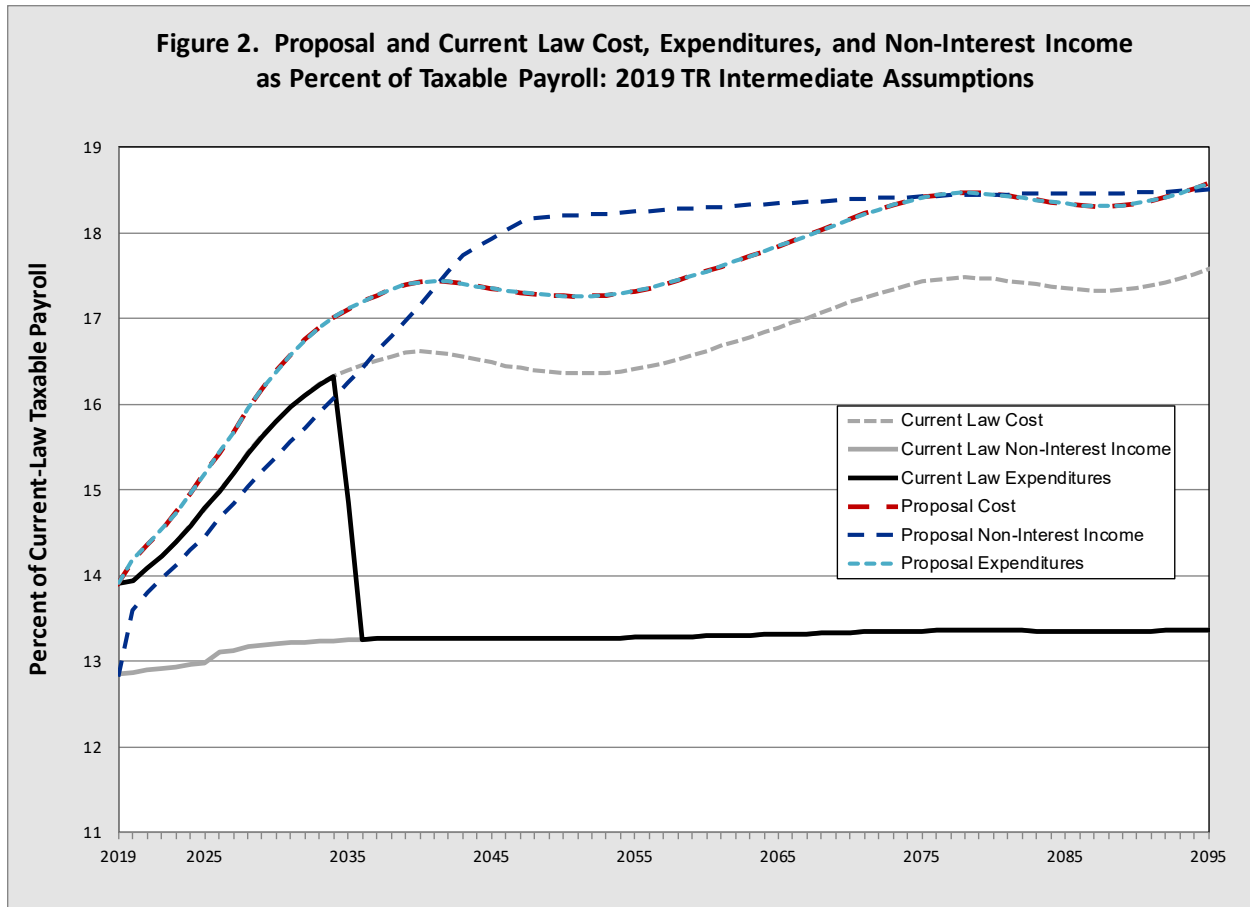


Note: *Trust Fund Ratio* for a given year is the ratio of reserves in the combined Social Security Trust Fund at the beginning of the year to the cost of the program for the year.

Under current law, 80 percent of scheduled benefits are projected to be payable on a timely basis in 2035 after depletion of the combined trust fund reserves, with the percentage payable declining to 75 percent for 2093. Under the proposal, the OASDI program would be solvent throughout the 75-year projection period, and would have the ability to pay 100 percent of scheduled benefits on a timely basis for the foreseeable future.

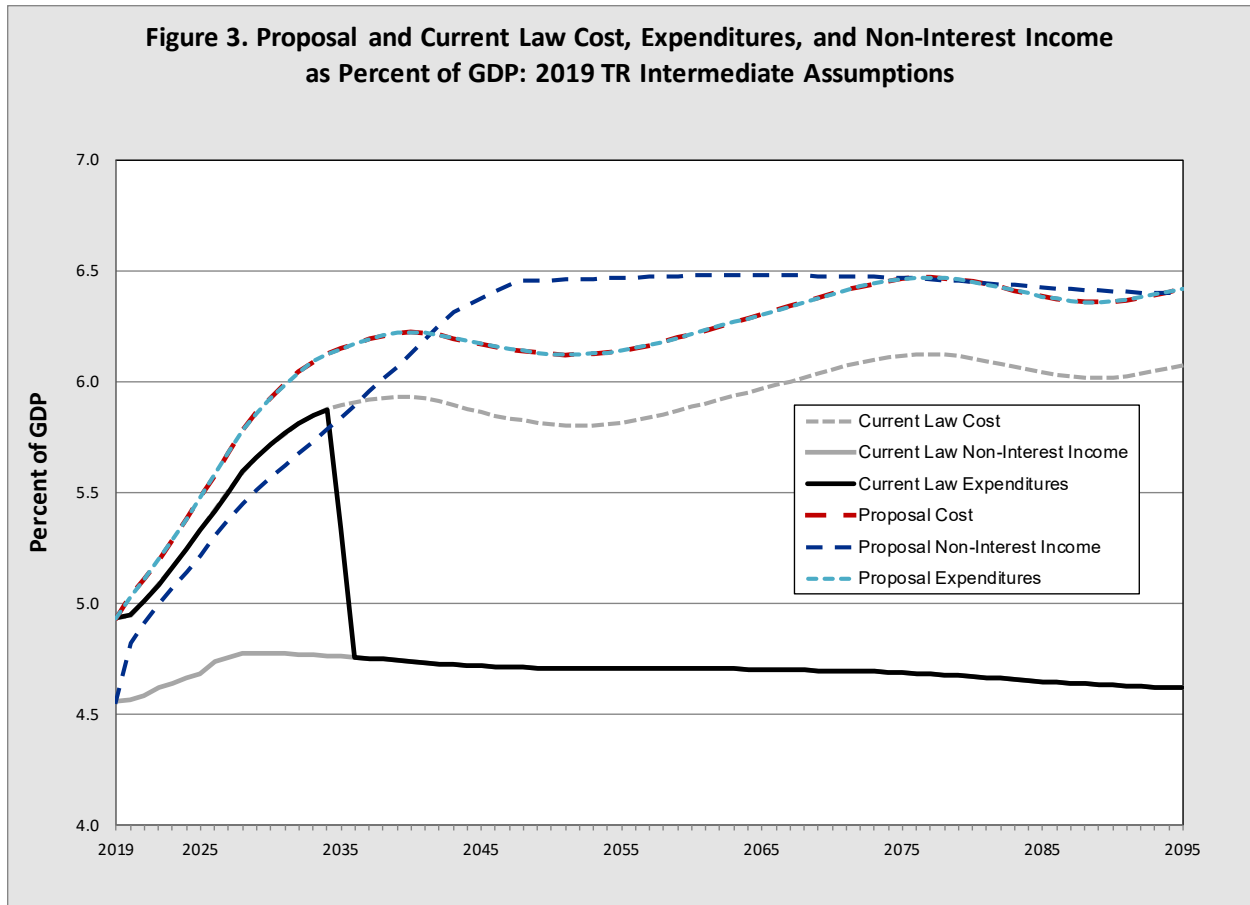
Enactment of the eight provisions of this proposal would change the long-range OASDI actuarial deficit from 2.78 percent of taxable payroll under current law to a positive actuarial balance of 0.39 percent of payroll under the proposal.

Figure 2 illustrates annual projected levels of cost, expenditures, and non-interest income as a percent of the current-law taxable payroll. The projected level of cost reflects the full cost of scheduled benefits under both current law and the proposal. Under the proposal, projected expenditures equal the full cost of scheduled benefits throughout the long-range period.



OASDI program annual cost under the proposal is higher than under current law, starting in 2020. This difference between proposal and current-law cost increases from 0.2 percent of current-law payroll for 2020 to 0.8 percent of current-law payroll for 2040, and thereafter increases more gradually, reaching 1.0 percent of current-law payroll for 2093. Beginning in 2020, non-interest income under the proposal is projected to be higher than under current law. This difference between proposal and current-law income increases from 0.7 percent of current-law payroll for 2020 to 4.9 percent of current-law payroll for 2050, and thereafter increases more gradually, reaching 5.1 percent of current-law payroll for 2093. For 2020 and later, the proposal improves the annual balance (non-interest income minus program cost).

It is also useful to consider the projected cost, expenditures, and income for the OASDI program expressed as a percentage of Gross Domestic Product (GDP). Figure 3 illustrates these levels under both current law and the proposal.



**Specification for Provisions of the Proposal**

Section 101. *Increase the first PIA factor to 93 percent for all beneficiaries beginning in 2020.*

This provision increases the first factor in the PIA formula from 90 to 93 percent for all benefits payable for months of eligibility January 2020 and later, including benefits for those becoming newly eligible both before and after January 2020.

We estimate that enactment of this provision alone would *increase* the long-range OASDI actuarial deficit by 0.24 percent of taxable payroll and would *increase* the annual deficit for the 75<sup>th</sup> projection year (2093) by 0.26 percent of payroll.

Section 102. *Use the CPI-E increase rather than the CPI-W increase to calculate the COLA, effective for December 2019 and later COLAs.*

Under current law, the annual cost-of-living adjustment (COLA) applied to Social Security benefits is calculated using the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W). We estimate that using the Consumer Price Index for the Elderly (CPI-E) increase rather than the CPI-W increase in each year beginning with the December 2019 COLA would increase the effective COLA by 0.2 percentage points per year on average.

We estimate that enactment of this provision alone would *increase* the long-range OASDI actuarial deficit by 0.41 percent of taxable payroll and would *increase* the annual deficit for the 75<sup>th</sup> projection year (2093) by 0.53 percent of payroll.

*Section 103. Increase the special minimum PIA for workers who become newly eligible for retirement or disability benefits or die in 2020 or later.*

Under this provision, the minimum initial PIA for workers becoming newly eligible or dying in 2020 with 30 or more years of coverage (YOCs) would be 125 percent of the annual poverty guideline for a single individual published by the Department of Health and Human Services for 2019, divided by 12. For those with less than 30 YOCs, the minimum PIA per YOC in excess of 10 YOCs is the minimum PIA for workers with 30 or more YOCs, divided by 20. Any year in which a worker earns 4 quarters of coverage is determined to be a YOC. For workers becoming newly eligible or dying after 2020, the initial PIA per YOC in excess of 10 YOCs is indexed by growth in the national average wage index (AWI) to determine the minimum PIA applicable for the year of initial eligibility. After the year of initial eligibility, the minimum benefit is increased by the COLA for each cohort. The 30 and 10 YOC levels apply for all workers, including those who die or become disabled under age 62.

We estimate that enactment of this provision alone would *increase* the long-range OASDI actuarial deficit by 0.15 percent of taxable payroll and would *increase* the annual deficit for the 75<sup>th</sup> projection year (2093) by 0.22 percent of payroll.

*Section 104. Replace the current-law thresholds for federal income taxation of OASDI benefits with a single set of thresholds at \$50,000 for single filers and \$100,000 for joint filers, for taxation of up to 85 percent of OASDI benefits, effective for tax years 2020 and later.*

Under current law, single tax filers with combined “income” (approximately equal to adjusted gross income plus non-taxable interest income and one-half of their Social Security benefit) greater than \$25,000 may have to pay income tax on up to 50 percent of their Social Security benefits. If combined “income” exceeds \$34,000, up to 85 percent of benefits may be taxable. The income tax revenue for taxing up to 50 percent of Social Security benefits is credited to the OASI and DI Trust Funds. The additional income tax revenue derived from taxing benefits in excess of 50 percent, up to 85 percent, is credited to the Hospital Insurance (HI) Trust Fund. The process is similar for joint tax filers, with \$32,000 and \$44,000 thresholds applying for possible taxation of up to 50 percent or 85 percent of the Social Security benefits, respectively. All threshold levels are fixed amounts and not indexed to price inflation or average wage increase.

Under the proposal, both sets of the current-law thresholds would be replaced with a single set of thresholds, \$50,000 and \$100,000 for single and joint filers, respectively, for taxing up to 85 percent of OASDI benefits, beginning for tax year 2020. These new thresholds would be unchanged for tax years after 2020. The amount of revenue from taxation of OASDI benefits that would be allocated to the HI Trust Fund would be at the same level as if the current-law computation (in the absence of this provision) were applied. The net amount of revenue from

taxing OASDI benefits, after the allocation to HI, would be allocated to the combined Social Security Trust Fund.

We estimate that enactment of this provision alone would *increase* the long-range OASDI actuarial deficit by 0.14 percent of taxable payroll and would *increase* the annual deficit for the 75<sup>th</sup> projection year (2093) by 0.01 percent of payroll.

*Section 201 and Section 202. Apply OASDI payroll tax rate on covered earnings above \$400,000 paid in 2020 and later. Reflect additional earnings subject to tax in computing the PIA.*

These provisions apply the OASDI payroll tax rate to covered earnings above \$400,000 paid in 2020 and later. The \$400,000 level is a fixed amount after 2020 and not indexed to price inflation or average wage increase. All covered earnings would be taxed once the current-law taxable maximum exceeds \$400,000, which is projected to occur in 2048. Any covered earnings above the higher of \$400,000 or the current-law taxable maximum in a given year would be counted as “excess wages” and would be credited for benefit purposes by:

- a. Calculating a second average indexed monthly earnings (“AIME+”) reflecting only additional earnings taxed under this provision,
- b. Applying a 2-percent PIA factor to this newly computed “AIME+” to develop a second component of the PIA, and
- c. Adding this second PIA component to the current-law PIA.

We estimate that enactment of these two provisions alone would reduce the long-range OASDI actuarial deficit by 1.93 percent of taxable payroll and would reduce the annual deficit for the 75<sup>th</sup> projection year (2093) by 2.32 percent of payroll.

*Section 203. Increase the OASDI payroll tax rate to 14.8 percent, fully effective for 2043 and later.*

The increase in the OASDI payroll tax rate is phased in by increasing the payroll tax rate by 0.05 percentage point for employers and 0.05 percentage point for employees (0.10 percentage point total), every year from 2020 through 2043. For years 2043 and later, the OASDI payroll tax rate is 7.4 percent for employers and 7.4 percent for employees (14.8 percent total), up from 6.2 percent each (12.4 percent total) under current law.

We estimate that enactment of this provision alone would reduce the long-range OASDI actuarial deficit by 1.87 percent of taxable payroll and would reduce the annual deficit for the 75<sup>th</sup> projection year (2093) by 2.38 percent of payroll.

*Section 204. Combine the separate OASI and DI Trust Funds effective in 2020.*

Beginning in 2020, establish a new Social Security Trust Fund by combining the reserves of the separate OASI and DI Trust Funds and managing all future financial operations of the program on a combined basis. This provision alone would not change scheduled benefits or income in the law.



Enactment of this provision alone would have a negligible effect (between -0.005 and 0.005 percent of taxable payroll) on the long-range OASDI annual balance and on the annual deficit for the 75<sup>th</sup> projection year (2093).

## **Detailed Financial Results for the Provisions of the Proposal**

### **Summary Results by Provision**

**Table A** provides estimates of the effects on the OASDI long-range actuarial balance of the eight provisions of the proposal separately and on a combined basis. The table also includes estimates of the effect of the provisions on the annual balance (the difference between income rate and the cost rate, expressed as a percent of current-law taxable payroll) for the 75<sup>th</sup> projection year, 2093. Interaction among individual provisions is reflected only in the total estimates for the combined provisions.

### **Benefit Illustrations**

**Tables B1 and B2** provide illustrative examples of the projected change in benefit levels under the provisions of the proposal for beneficiaries retiring and starting benefit receipt at age 65 in future years at six selected earnings levels, with selected numbers of years of work. The “Maximum-AIME Steady Earner” is assumed to have earnings at ages 22 through 64 that equal the current-law taxable maximum level (equivalent to \$132,900 for 2019) and the “Twice Maximum-AIME Steady Earner” is assumed to have earnings at ages 22 through 64 that equal twice the current-law taxable maximum level (equivalent to \$265,800 for 2019). As a result, the provision to tax and credit earnings above the current-law taxable maximum affects only the “Twice Maximum-AIME Steady Earner” benefit level. **Table B3** provides additional important information on characteristics of retired workers represented by these illustrations for the year 2007.

The first several columns of Table B1 compare the initial scheduled benefit levels, assuming retirement at age 65 under the provisions of the proposal, to scheduled current-law benefit levels. All scheduled benefit amounts under the proposal are higher than those scheduled in current law, with the largest increases for the very-low and low hypothetical earners with at least 30 years of earnings (due largely to the minimum benefit provision). The final three columns of this table show the level of scheduled benefits under the proposal as a percentage of current-law scheduled benefits, the level of scheduled benefits under the proposal as a percentage of current-law payable benefits, and the level of payable benefits under the proposal as a percentage of current-law payable benefits, respectively.

Table B2 provides two comparisons: (1) the percentage change in scheduled benefit levels at ages 65, 75, 85, and 95 under the proposal compared to scheduled benefits under current law; and (2) the percentage change in payable benefit levels at the same four ages under the proposal compared to payable benefits under current law. Each comparison assumes retirement and start of benefit receipt at age 65. Table B2 shows that both scheduled and payable benefit levels increase under the provisions of the proposal in relation to current-law scheduled and payable

benefit levels. The magnitude of the increases rises between ages 65 and 95, because of the proposed change in the computation of the COLA.

The hypothetical workers represented in these tables reflect average career-earnings patterns of workers who started receiving retirement benefits under the Social Security program in recent years. The tables subdivide workers with very-low, low, and medium career-average earnings levels by their numbers of years of non-zero earnings.

Table B3 provides information helpful in interpreting the benefit illustrations in Tables B1 and B2. Percentages in Table B3 are based on tabulations from a 10-percent sample of newly-entitled retired workers in 2007. Table B3 displays the percentages of these newly-entitled retired workers in 2007 that are closest to each of the illustrative examples and are:

- 1) “Dually Entitled”, meaning they received a higher spouse or widow(er) benefit based on the career earnings of their husband or wife,
- 2) “WEP” (Windfall Elimination Provision), meaning that they received a reduced benefit due to having a pension based on earnings that were not covered under the OASDI program (primarily certain government workers), and they had less than 30 years of substantial earnings that were taxable under the OASDI program,
- 3) “Foreign Born”, meaning that they entered the Social Security coverage area after birth (and generally after entering working ages), and
- 4) “All Others”, meaning they had none of the three characteristics listed above.

The extent to which retired-worker beneficiaries represented by each of the illustrative examples have any of the characteristics listed above (dually entitled, WEP, foreign born) is important because such individuals are less dependent on the OASDI benefit that relates to their own career-average earnings level. It should be noted that the distributions shown in Table B3 for retirees in 2007 will be changing somewhat for beneficiaries becoming entitled as retired-worker beneficiaries in the future.

### **Payroll Tax Effects**

**Table T** compares the scheduled payroll tax levels under the provisions of the proposal to scheduled current-law payroll tax levels. Under the proposal, the currently scheduled payroll tax rate of 12.4 percent would be gradually increased starting in 2020, reaching 14.8 percent for 2043 and later. Taken alone, this provision would increase the amount of payroll tax paid by all example workers in the table by 8.9 percent for 2030 and by 19.4 percent for 2050 and 2080. Taken alone, the application of the current-law 12.4 percent payroll tax on earnings in excess of \$400,000 would increase the payroll tax liability of the twice-maximum earner by 7 percent for 2030 and 100 percent for 2050 and 2080. For the combined effect of these two provisions, shown in the “Total” column in the table, all earnings would, by 2048, be subject to the 14.8 percent payroll tax rate, including any earnings above the current-law taxable maximum. As a result, the example worker with earnings at twice the current-law taxable maximum would have total payroll tax liability increased by 16.5 percent for 2030 and by 138.7 percent for 2050 and 2080.

## Detailed Tables Containing Annual and Summary Projections

Enclosed with this letter are **tables 1, 1a, 1b, 1b.n, 1c, 1d, and 1d.n**, which provide annual and summary projections for the proposal.

### Trust Fund Operations

**Table 1** provides projections of the financial operations of the OASDI program under the proposal and shows that the combined Social Security Trust Fund would be fully solvent throughout the 75-year projection period. The OASDI program would also be solvent for the foreseeable future (sustainably solvent), because the trust fund ratio is projected to rise by the end of the period, 2093.

The table shows the annual cost and income rates, annual balances, and trust fund ratios (reserves as percent of annual program cost) for OASDI, as well as the change from current law in these cost rates, income rates, and annual balances. Included at the bottom of this table are summarized rates for the 75-year (long-range) period.

For 2020 and later, the proposal improves the annual balance (non-interest income minus program cost). The improvement in the annual balance increases from 0.5 percent of current-law payroll for 2020 to 4.0 percent for 2050, and thereafter increases slightly to 4.1 percent for 2093. Under the proposal, the annual deficit declines from 1.1 percent of current-law payroll for 2019 to 0.6 percent for 2021, increases to 1.0 percent for 2031, and then declines until the annual balance turns positive for 2042. The annual balance increases to 1.0 percent for 2052 and then declines steadily through 2076, at which point the annual balance becomes negative. The annual balance turns positive again in 2081, increases to 0.2 percent for 2088, and declines thereafter, ultimately reaching a positive annual balance of less than 0.1 percent of current-law payroll for 2093. Under current law, the projected annual deficit for 2093 is 4.1 percent of payroll.

The actuarial balance for the OASDI program over the 75-year projection period is improved by 3.18 percent of taxable payroll, from an actuarial deficit of 2.78 percent of payroll under current law to a positive actuarial balance of 0.39 percent of taxable payroll under the proposal.

### Program Transfers and Trust Fund Reserves

Column 4 of **Table 1a** provides a projection of the level of reserves for the combined Social Security Trust Fund, assuming enactment of the eight Social Security provisions of the proposal. These trust fund reserve amounts are expressed in present value dollars discounted to January 1, 2019. The table indicates that the provisions include no new specified transfers of general revenue to the combined Social Security Trust Fund. For purpose of comparison, the OASDI Trust Fund reserves, expressed in present value dollars, are also shown for the current-law Social Security program both without and with the added proposal general fund transfers (zero in this case) in columns 6 and 7.

Note that negative values in columns 6 and 7 represent the “unfunded obligation” for the program through the year. The unfunded obligation is the present value of the shortfall of revenue needed to pay full scheduled benefits on a timely basis from the date of trust fund

reserve depletion through the end of the indicated year. Gross Domestic Product (GDP), expressed in present value dollars, is shown in column 5 for comparison with other values in the table.

#### Effect of the Social Security Provisions on the Federal Budget

**Table 1b** shows the projected effect, in present value discounted dollars, on the federal budget (unified-budget and on-budget) annual cash flows and balances, assuming enactment of the eight Social Security provisions of the proposal. We note that section 105 of the Bill provides for “holding SSI, Medicaid, and CHIP beneficiaries harmless” from potential implications of the other sections in the Bill. Our analysis provided in these tables does not reflect the effects on these programs under the on-budget operations of the federal government. **Table 1b.n** provides the estimated nominal dollar effect of enactment of the proposal on annual budget balances for years 2019 through 2029. All values in these tables represent the amount of *change* from the level projected under current law. In addition, changes reflect the *budget scoring convention* that presumes benefits, not payable under the law after depletion of trust fund reserves, would still be paid using revenue provided from the General Fund of the Treasury. The reader should be cautioned that this presumption of payment of benefits beyond the resources of the trust funds is prohibited under current law and is also inconsistent with all past experience under the Social Security program.

Column 1 of Table 1b shows the added proposal general fund transfers (zero for this proposal). Column 2 shows the net changes in OASDI cash flow from all provisions of the proposal.

We project the net effect of the proposal on unified budget cash flow (column 3) to be positive in years 2020 and later, primarily due to the payroll tax rate increase in provision 6 and the payroll tax newly applied to earnings above \$400,000 in provision 5.

Column 4 of Table 1b indicates that the effect of implementing the proposal is a reduction of the theoretical federal debt held by the public, reaching about \$16.9 trillion in present value at the end of the 75-year projection period. Column 5 provides the projected effect of the proposal on the annual unified budget balances, including both the cash flow effect in column 3 and the additional interest on the accumulated debt in column 4. Columns 6 and 7 indicate that the provisions of this proposal would have no expected direct effects on the on-budget cash flow, or on the total federal debt, in the future.

It is important to note that we base these estimates on the intermediate assumptions of the 2019 Trustees Report, so these estimates are not consistent with estimates made by the Office of Management and Budget or the Congressional Budget Office based on their assumptions. In particular, all present values are discounted using trust fund yield assumptions under the intermediate assumptions of the 2019 Trustees Report.

#### Annual Trust Fund Operations as a Percent of GDP

**Table 1c** provides annual cost, annual expenditures (amount that would be payable), and annual tax income for the OASDI program expressed as a percentage of GDP for both current law and assuming enactment of the eight Social Security provisions of the proposal. Showing the annual

trust fund cash 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. The relationship between income and cost is similar when expressed as a percent of GDP to that when expressed as a percent of taxable payroll (Table 1). Under this proposal, expenditures are estimated to equal total cost for all projection years because proposal income is estimated to be sufficient to pay full scheduled benefits throughout the period.

#### Effects on Trust Fund Reserves and Unfunded Obligations

**Table 1d** provides estimates of the changes in trust fund reserves and unfunded obligations on an annual basis, expressed in present value dollars discounted to January 1, 2019. **Table 1d.n** provides the same estimates, expressed in nominal dollars, for years 2019 through 2029.

For the 75-year (long-range) period as a whole, the current-law unfunded obligation of \$13.9 trillion is replaced by a positive trust fund reserve at the end of 2093 of \$3.1 trillion in present value assuming enactment of the proposal. This change of \$16.9 trillion results from:

- A \$21.2 trillion net increase in revenue (column 2), primarily from additional payroll tax, *minus*
- A \$4.3 trillion net increase in cost (column 3), primarily from the special minimum PIA provision, the change in computing the COLA, increases in current and future benefits from replacing the 90 percent factor in the PIA formula with 93 percent, and additional benefits from earnings taxed above the current-law taxable maximum.

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

Sincerely,



Stephen C. Goss, ASA, MAAA  
Chief Actuary

Enclosures

**Table A—Estimated Long-Range OASDI Financial Effects of the  
“Social Security 2100 Act” (116<sup>th</sup> Congress),  
Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

<u>Provision</u>	<u>Estimated Change in Long-Range OASDI Actuarial Balance <sup>1</sup> (as a percent of payroll)</u>	<u>Estimated Change in Annual Balance for 75<sup>th</sup> year <sup>2</sup> (as a percent of payroll)</u>
Section 101) Increase the first PIA formula factor from 90 percent to 93 percent for all benefits payable for months of entitlement January 2020 and later, including benefits for those becoming newly eligible both before and after January 2020 .....	-0.24	-0.26
Section 102) Use the increase in the Consumer Price Index for the Elderly (CPI-E) rather than the increase in the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) to calculate the cost-of-living adjustment (COLA), effective for December 2019 and later COLAs. We estimate this new computation would increase the annual COLA by about 0.2 percentage point, on average .....	-0.41	-0.53
Section 103) Beginning in 2020, reconfigure the special minimum PIA for workers becoming newly eligible or dying after 2019: (a) A year of coverage (YOC) is defined as a year in which 4 quarters of coverage are earned. (b) For those becoming newly eligible or dying in 2020 with 30 or more YOCs, set the minimum PIA equal to 125 percent of the 2019 Department of Health and Human Services (HHS) monthly poverty level. For those with under 30 YOCs, the PIA per YOC in excess of 10 YOCs is 125 percent of this poverty level calculation, divided by 20. (c) For workers becoming newly eligible or dying after 2020, index the initial PIA per YOC by growth in the national average wage index (AWI). The 30 and 10 YOC levels apply for all workers, including those who die or become disabled under age 62.....	-0.15	-0.22
Section 104) Increase the thresholds for taxation of up to 85 percent of OASDI benefits, to \$50,000 for single filers and \$100,000 for joint filers, effective for tax year 2020. These thresholds would be fixed and not indexed to price inflation or average wage increase. The amount of revenue from taxation of OASDI benefits that would be allocated to the HI Trust Fund would be the same as if the current-law computation (in the absence of this provision) applied. The net amount of revenue from taxing OASDI benefits, after the allocation to HI, would be allocated to the combined Social Security Trust Fund.....	-0.14	-0.01

**Table A—Estimated Long-Range OASDI Financial Effects of the  
“Social Security 2100 Act” (116<sup>th</sup> Congress),  
Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

<u>Provision</u>	<u>Estimated Change in Long-Range OASDI Actuarial Balance <sup>1</sup> (as a percent of payroll)</u>	<u>Estimated Change in Annual Balance for 75<sup>th</sup> year <sup>2</sup> (as a percent of payroll)</u>
Section 201 and Section 202) Apply the OASDI payroll tax rate on covered earnings above \$400,000 paid in 2020 and later, and tax all covered earnings once the current-law taxable maximum exceeds \$400,000. Credit the additional earnings taxed for benefit purposes by: (a) calculating a second average indexed monthly earnings (“AIME+”) reflecting only earnings taxed above the current-law taxable maximum, (b) applying a 2 percent factor on this newly computed “AIME+” to develop a second component of the PIA, and (c) adding this second component to the current-law PIA.....	1.93	2.32
Section 203) Increase the combined OASDI payroll tax rate to 14.8 percent, fully effective for 2043 and later. The combined rate is increased by 0.1 percentage point each year starting in 2020, reaching the ultimate 14.8 percent rate for 2043 and later.....	1.87	2.38
Section 204) Beginning in 2020, establish a new Social Security Trust Fund by combining the reserves of the separate OASI and DI Trust Funds and managing all future operations of the program on a combined basis.....	3	3
<b>Total for all provisions, including interaction.....</b>	<b>3.18</b>	<b>4.13</b>

<sup>1</sup>Under current law, the estimated long-range OASDI actuarial balance is -2.78 percent of taxable payroll.

<sup>2</sup>Under current law, the estimated 75<sup>th</sup> year annual balance is -4.11 percent of taxable payroll.

<sup>3</sup>Negligible; that is, between -0.005 and 0.005 percent of taxable payroll.

Notes: All estimates are based on the intermediate assumptions of the 2019 OASDI Trustees Report.

Estimates of individual provisions appear on a stand-alone basis relative to current law, unless otherwise stated.

**Table B1. Changes in Benefits for Hypothetical Workers Beginning Benefit Receipt at age 65**  
**"Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

Year Attain Age 65	<u>Scheduled Benefit Level Percent Change at age 65</u>						<u>Benefit Ratios</u>		
	<u>Current Law Scheduled Monthly Benefits<sup>4</sup></u>		<u>COLA<sup>5</sup></u>	<u>Benefit Formula<sup>6</sup></u>	<u>Minimum Benefit<sup>7</sup></u>	<u>Total</u>	<u>Proposal</u>	<u>Proposal</u>	<u>Proposal</u>
	<u>(Wage-Indexed 2019 Dollars)</u>	<u>(CPI-Indexed 2019 Dollars)</u>					<u>Scheduled Current Law</u>	<u>Scheduled to Current Law</u>	<u>Payable Current Law</u>
<b>Very-Low-AIME (\$13,466 for 2019<sup>1</sup>) 30-Year Scaled Earner (11.2% of Retirees<sup>2</sup>)</b>									
2019	793	793	0.0	0.0	0.0	0.0	100	100	100
2030	719	851	0.6	3.2	39.1	44.4	144	144	144
2050	726	1,094	0.6	3.2	39.1	44.4	144	181	181
2080	729	1,563	0.6	3.2	39.1	44.4	144	192	192
<b>Very-Low-AIME (\$13,466 for 2019<sup>1</sup>) 20-Year Scaled Earner (5.3% of Retirees<sup>2</sup>)</b>									
2019	793	793	0.0	0.0	0.0	0.0	100	100	100
2030	719	851	0.6	3.2	0.0	3.8	104	104	104
2050	726	1,094	0.6	3.2	0.0	3.8	104	130	130
2080	729	1,563	0.6	3.2	0.0	3.8	104	138	138
<b>Very-Low-AIME (\$13,466 for 2019<sup>1</sup>) 14-Year Scaled Earner (4.0% of Retirees<sup>2</sup>)</b>									
2019	793	793	0.0	0.0	0.0	0.0	100	100	100
2030	719	851	0.6	3.2	0.0	3.8	104	104	104
2050	726	1,094	0.6	3.2	0.0	3.8	104	130	130
2080	729	1,563	0.6	3.2	0.0	3.8	104	138	138
<b>Low-AIME (\$24,239 for 2019<sup>1</sup>) 44-Year Scaled Earner (18.0% of Retirees<sup>2</sup>)</b>									
2019	1,037	1,037	0.0	0.0	0.0	0.0	100	100	100
2030	941	1,114	0.6	2.4	7.0	10.3	110	110	110
2050	951	1,432	0.6	2.4	7.1	10.3	110	138	138
2080	954	2,045	0.6	2.4	7.1	10.3	110	147	147
<b>Low-AIME (\$24,239 for 2019<sup>1</sup>) 30-Year Scaled Earner (3.9% of Retirees<sup>2</sup>)</b>									
2019	1,037	1,037	0.0	0.0	0.0	0.0	100	100	100
2030	941	1,114	0.6	2.4	7.0	10.3	110	110	110
2050	951	1,432	0.6	2.4	7.1	10.3	110	138	138
2080	954	2,045	0.6	2.4	7.1	10.3	110	147	147
<b>Low-AIME (\$24,239 for 2019<sup>1</sup>) 20-Year Scaled Earner (1.6% of Retirees<sup>2</sup>)</b>									
2019	1,037	1,037	0.0	0.0	0.0	0.0	100	100	100
2030	941	1,114	0.6	2.4	0.0	3.0	103	103	103
2050	951	1,432	0.6	2.4	0.0	3.0	103	129	129
2080	954	2,045	0.6	2.4	0.0	3.0	103	137	137
<b>Medium-AIME (\$53,864 for 2019<sup>1</sup>) 44-Year Scaled Earner (26.7% of Retirees<sup>2</sup>)</b>									
2019	1,709	1,709	0.0	0.0	0.0	0.0	100	100	100
2030	1,551	1,838	0.6	1.5	0.0	2.1	102	102	102
2050	1,568	2,361	0.6	1.5	0.0	2.1	102	128	128
2080	1,573	3,373	0.6	1.5	0.0	2.1	102	136	136
<b>Medium-AIME (\$53,864 for 2019<sup>1</sup>) 30-Year Scaled Earner (2.1% of Retirees<sup>2</sup>)</b>									
2019	1,709	1,709	0.0	0.0	0.0	0.0	100	100	100
2030	1,551	1,838	0.6	1.5	0.0	2.1	102	102	102
2050	1,568	2,361	0.6	1.5	0.0	2.1	102	128	128
2080	1,573	3,373	0.6	1.5	0.0	2.1	102	136	136
<b>High-AIME (\$86,182 for 2019<sup>1</sup>) 44-Year Scaled Earner (19.5% of Retirees<sup>2</sup>)</b>									
2019	2,264	2,264	0.0	0.0	0.0	0.0	100	100	100
2030	2,053	2,432	0.6	1.1	0.0	1.7	102	102	102
2050	2,075	3,126	0.6	1.1	0.0	1.7	102	127	127
2080	2,082	4,465	0.6	1.1	0.0	1.7	102	135	135
<b>Maximum-Current-Law-AIME (\$132,900 for 2019<sup>1</sup>) 43-Year Steady Earner (7.8% of Retirees<sup>2</sup>)</b>									
2019	2,758	2,758	0.0	0.0	0.0	0.0	100	100	100
2030	2,512	2,976	0.6	0.9	0.0	1.5	101	101	101
2050	2,537	3,822	0.6	0.9	0.0	1.5	102	127	127
2080	2,537	5,441	0.6	0.9	0.0	1.5	102	135	135
<b>Twice Maximum-Current-Law-AIME (\$265,800 for 2019<sup>1</sup>) 43-Year Steady Earner<sup>3</sup></b>									
2019	2,758	2,758	0.0	0.0	0.0	0.0	100	100	100
2030	2,512	2,976	0.6	0.9	0.0	1.5	102	102	102
2050	2,537	3,822	0.6	3.4	0.0	4.0	104	130	130
2080	2,537	5,441	0.6	7.7	0.0	8.3	108	144	144

<sup>1</sup> Average of highest 35 years of taxable earnings wage indexed to 2019. For the Maximum and Twice Maximum-Current-Law-AIME workers, we show one times and two times the 2019 taxable maximum, respectively.

<sup>2</sup> Projected percent of new retired worker awards in 2050 with current-law AIME levels and years of covered earnings closest to AIME levels and years of covered earnings shown.

<sup>3</sup> Of the 7.8 percent of retirees with current-law AIME closest to the Maximum-Current-Law level, about 33 percent (or 2.6 percent of all retirees) would have an AIME closer to the Twice Maximum-Current-Law level if their earnings were not limited by annual taxable maximums.

<sup>4</sup> After the trust fund reserves deplete under current law continuing taxes are expected to be enough to pay about three fourths of scheduled benefits.

<sup>5</sup> Starting Dec 2019, compute the COLA using a CPI-E, producing 0.2% higher annual COLAs on average.

<sup>6</sup> For benefits payable beginning in 2020, increase the 90 percent PIA factor to 93 percent. Starting in 2020, apply the OASDI payroll tax rate on earnings above \$400,000, and tax all earnings once the current-law taxable maximum exceeds \$400,000. Credit the additional earnings for benefit purposes by: (a) calculating a second average indexed monthly earnings ("AIME+") reflecting only earnings taxed above the current law taxable maximum, (b) applying a 2 percent factor on this newly computed "AIME+" to develop a second component of the PIA, and (c) adding this second component to the first PIA component.

<sup>7</sup> For beneficiaries newly eligible in 2020, establish a minimum PIA level such that a worker with 30/10 years of coverage would receive a minimum PIA for 2020 of at least 125%/0% of the monthly poverty level for 2019. For beneficiaries newly eligible after 2020, the minimum PIA level for their initial year of eligibility would be adjusted for average wage growth. The minimum PIA is increased after the year of initial eligibility by the COLA. The Minimum Benefit Percent change is calculated after all other provisions, so that the Proposed Benefit Amount is at least the Minimum Benefit, where applicable.

This analysis reflects only the provisions of the proposal identified in this table and described in the footnotes above.

All estimates based on the intermediate assumptions of the 2019 Trustees Report.



**Table B2. Changes in Benefits for Hypothetical Workers Beginning Benefit Receipt at age 65  
"Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

Year Attain Age 65	<u>Proposal Scheduled Benefit as Percent of Current Law Scheduled Benefit</u>				<u>Proposal Payable Benefit as Percent of Current Law Payable Benefit</u>			
	Age 65	Age 75	Age 85	Age 95	Age 65	Age 75	Age 85	Age 95
<b>Very-Low-AIME (\$13,466 for 2019<sup>1</sup>) 30-Year Scaled Earner (11.2% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	144.4	147.2	150.1	153.0	144.4	186.9	187.7	194.2
2050	144.4	147.2	150.1	153.1	180.5	186.9	196.9	203.8
2080	144.4	147.2	150.1	153.1	192.3	194.9	4	4
<b>Very-Low-AIME (\$13,466 for 2019<sup>1</sup>) 20-Year Scaled Earner (5.3% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	103.8	105.8	107.9	110.0	103.8	134.4	134.9	139.6
2050	103.8	105.8	107.9	110.0	129.8	134.3	141.5	146.5
2080	103.8	105.8	107.9	110.0	138.2	140.0	4	4
<b>Very-Low-AIME (\$13,466 for 2019<sup>1</sup>) 14-Year Scaled Earner (4.0% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	103.8	105.8	107.9	110.0	103.8	134.4	134.9	139.6
2050	103.8	105.8	107.9	110.0	129.8	134.3	141.5	146.5
2080	103.8	105.8	107.9	110.0	138.2	140.0	4	4
<b>Low-AIME (\$24,239 for 2019<sup>1</sup>) 44-Year Scaled Earner (18.0% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	110.3	112.4	114.7	116.9	110.3	142.8	143.4	148.4
2050	110.3	112.5	114.7	117.0	137.9	142.8	150.4	155.7
2080	110.3	112.5	114.7	117.0	146.9	148.9	4	4
<b>Low-AIME (\$24,239 for 2019<sup>1</sup>) 30-Year Scaled Earner (3.9% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	110.3	112.4	114.7	116.9	110.3	142.8	143.4	148.4
2050	110.3	112.5	114.7	117.0	137.9	142.8	150.4	155.7
2080	110.3	112.5	114.7	117.0	146.9	148.9	4	4
<b>Low-AIME (\$24,239 for 2019<sup>1</sup>) 20-Year Scaled Earner (1.6% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	103.0	105.1	107.1	109.2	103.0	133.4	133.9	138.6
2050	103.0	105.1	107.1	109.2	128.8	133.3	140.5	145.4
2080	103.0	105.1	107.1	109.2	137.2	139.0	4	4
<b>Medium-AIME (\$53,864 for 2019<sup>1</sup>) 44-Year Scaled Earner (26.7% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	102.1	104.1	106.1	108.2	102.1	132.2	132.7	137.3
2050	102.1	104.1	106.1	108.2	127.6	132.1	139.2	144.1
2080	102.1	104.1	106.1	108.2	135.9	137.7	4	4
<b>Medium-AIME (\$53,864 for 2019<sup>1</sup>) 30-Year Scaled Earner (2.1% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	102.1	104.1	106.1	108.2	102.1	132.2	132.7	137.3
2050	102.1	104.1	106.1	108.2	127.6	132.1	139.2	144.1
2080	102.1	104.1	106.1	108.2	135.9	137.7	4	4
<b>High-AIME (\$86,182 for 2019<sup>1</sup>) 44-Year Scaled Earner (19.5% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	101.7	103.7	105.7	107.8	101.7	131.7	132.2	136.8
2050	101.7	103.7	105.7	107.8	127.2	131.6	138.7	143.6
2080	101.7	103.7	105.7	107.8	135.4	137.2	4	4
<b>Maximum-Current-Law-AIME (\$132,900 for 2019<sup>1</sup>) 43-Year Steady Earner (7.8% of Retirees<sup>2</sup>)</b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	101.5	103.5	105.5	107.6	101.5	131.4	131.9	136.6
2050	101.5	103.5	105.5	107.6	126.9	131.4	138.4	143.3
2080	101.5	103.5	105.5	107.6	135.1	137.0	4	4
<b>Twice Maximum-Current-Law-AIME (\$265,800 for 2019<sup>1</sup>) 43-Year Steady Earner<sup>3</sup></b>								
2019	100.0	102.0	104.0	106.0	100.0	102.0	132.0	132.7
2030	101.5	103.5	105.5	107.6	101.5	131.4	131.9	136.6
2050	104.0	106.0	108.1	110.2	130.0	134.5	141.8	146.8
2080	108.3	110.5	112.6	114.9	144.2	146.2	4	4

<sup>1</sup> Average of highest 35 years of taxable earnings wage indexed to 2019. For the Maximum and Twice Maximum-Current-Law-AIME workers, we show one times and two times the 2019 taxable maximum, respectively.

<sup>2</sup> Projected percent of new retired worker awards in 2050 with current-law AIME levels and years of covered earnings closest to AIME levels and years of covered earnings shown.

<sup>3</sup> Of the 7.8 percent of retirees with current-law AIME closest to the Maximum-Current-Law level, about 33 percent (or 2.6 percent of all retirees) would have an AIME closer to the Twice Maximum-Current-Law level if their earnings were not limited by annual taxable maximums.

<sup>4</sup> The proposal payable benefit as percent of current law payable benefit is not presented for years of payment beyond the 75-year projection period.

Note:

- Starting Dec 2019, compute the COLA using a CPI-E, producing 0.2% higher annual COLAs on average.
- For benefits payable beginning in 2020, increase the 90 percent PIA factor to 93 percent. Starting in 2020, apply the OASDI payroll tax rate on earnings above \$400,000, and tax all earnings once the current-law taxable maximum exceeds \$400,000. Credit the additional earnings for benefit purposes by: (a) calculating a second average indexed monthly earnings ("AIME+") reflecting only earnings taxed above the current law taxable maximum, (b) applying a 2 percent factor on this newly computed "AIME+" to develop a second component of the PIA, and (c) adding this second component to the first PIA component.
- For beneficiaries newly eligible in 2020, establish a minimum PIA level such that a worker with 30/10 years of coverage would receive a minimum PIA for 2020 of at least 125%/0% of the monthly poverty level for 2019. For beneficiaries newly eligible after 2020, the minimum PIA level for their initial year of eligibility would be adjusted for average wage growth. The minimum PIA is increased after the year of initial eligibility by the COLA.
- This analysis reflects only the provisions of the proposal identified in Table B1 and described in the notes above.

All estimates based on the intermediate assumptions of the 2019 Trustees Report.

**Table B3. Important Characteristics of Hypothetical Workers in 2007**

<u>Category</u>	<u>Percent of Beneficiaries Within Each Category That Are:</u>			
	<u>Dually Entitled</u> <sup>2</sup>	<u>WEP</u> <sup>3</sup>	<u>Foreign Born</u>	<u>All Others</u> <sup>4</sup>
<b>Very-Low-AIME (\$10,101 for 2007<sup>1</sup>):</b>				
30-Year Scaled Earner (9.3% of Retirees)	47	6	11	40
20-Year Scaled Earner (5.8% of Retirees)	38	16	21	31
14-Year Scaled Earner (5.3% of Retirees)	22	21	45	20
<b>Low-AIME (\$18,182 for 2007<sup>1</sup>):</b>				
44-Year Scaled Earner (13.1% of Retirees)	15	2	6	78
30-Year Scaled Earner (5.9% of Retirees)	16	9	18	59
20-Year Scaled Earner (3.1% of Retirees)	10	23	35	37
<b>Medium-AIME (\$40,405 for 2007<sup>1</sup>):</b>				
44-Year Scaled Earner (23.0% of Retirees)	1	1	5	93
30-Year Scaled Earner (4.4% of Retirees)	1	8	26	67
<b>High-AIME (\$64,649 for 2007<sup>1</sup>):</b>				
44-Year Scaled Earner (20.5% of Retirees)	0	0	6	93
<b>Maximum-Current-Law-AIME (\$82,224 for 2007<sup>1</sup>):</b>				
Steady Earner (9.4% of Retirees)	0	0	7	93

Note 1: Table B3 displays the percentages of these newly-entitled retired workers in 2007 that are closest to each of the illustrative examples.

Note 2: The percents in each category are based on tabulations of a 10-percent sample of newly entitled retired-worker beneficiaries in 2007 (169,725 records). We can be 95 percent confident that each of the values shown above is within 1.4 percentage points of the value we would find using 100 percent of the retirees in 2007.

Note 3: The sum of the percentages for each category (sum across rows) could be greater than 100 percent because some beneficiaries can be classified in more than one of the following groups: dually entitled, WEP, and foreign born.

<sup>1</sup> Average of highest 35 years of taxable earnings wage indexed to 2007.

<sup>2</sup> Under current law, entitled to an additional benefit based on someone else's account. The dually entitled percent is a minimum value. Some beneficiaries that are not currently dually entitled could become dually entitled in the future.

<sup>3</sup> Covered by pension from government employment and are subject to the windfall elimination provision (WEP).

<sup>4</sup> Neither foreign born, subject to WEP, or dually entitled.

**Table T. Changes in Payroll Tax Contributions (Employee + Employer) for Workers with OASDI Covered Earnings in the Year "Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

Earnings in Year	Current Law Scheduled Monthly Total Payroll Taxes		Scheduled Payroll Taxes Percent Change			Proposal Scheduled Payroll Taxes Percent of Current Law
	(Wage-Indexed 2019 Dollars)	(CPI-Indexed 2019 Dollars)	Payroll Tax Rate <sup>2</sup>	Taxable Maximum <sup>3</sup> (Percent change)	Total	(Percents)
<b>26th Percentile Earner<sup>1</sup> in Year (\$13,466 in 2019)</b>						
2019	139	139	0.0	0.0	0.0	100
2030	139	165	8.9	0.0	8.9	109
2050	139	210	19.4	0.0	19.4	119
2080	139	298	19.4	0.0	19.4	119
<b>40th Percentile Earner<sup>1</sup> in Year (\$24,239 in 2019)</b>						
2019	250	250	0.0	0.0	0.0	100
2030	250	297	8.9	0.0	8.9	109
2050	250	377	19.4	0.0	19.4	119
2080	250	537	19.4	0.0	19.4	119
<b>69th Percentile Earner<sup>1</sup> in Year (\$53,864 in 2019)</b>						
2019	557	557	0.0	0.0	0.0	100
2030	557	659	8.9	0.0	8.9	109
2050	557	838	19.4	0.0	19.4	119
2080	557	1,193	19.4	0.0	19.4	119
<b>85th Percentile Earner<sup>1</sup> in Year (\$86,182 in 2019)</b>						
2019	891	891	0.0	0.0	0.0	100
2030	891	1,055	8.9	0.0	8.9	109
2050	891	1,341	19.4	0.0	19.4	119
2080	891	1,909	19.4	0.0	19.4	119
<b>94th Percentile Earner<sup>1</sup> in Year (\$132,900 in 2019) Current-Law Maximum Earnings Level</b>						
2019	1,373	1,373	0.0	0.0	0.0	100
2030	1,373	1,627	8.9	0.0	8.9	109
2050	1,373	2,069	19.4	0.0	19.4	119
2080	1,373	2,945	19.4	0.0	19.4	119
<b>99th Percentile Earner<sup>1</sup> in Year (\$265,800 in 2019) Twice Current-Law Maximum Earnings Level</b>						
2019	1,373	1,373	0.0	0.0	0.0	100
2030	1,373	1,627	8.9	7.0	16.5	117
2050	1,373	2,069	19.4	100.0	138.7	239
2080	1,373	2,945	19.4	100.0	138.7	239

<sup>1</sup> Percentile among all workers with any covered earnings in 2019 (including earnings both above and below the current-law maximum earnings level). We include those who will die or become disabled before reaching retirement age, and those who will not earn enough in their career to become fully insured for retired worker benefits. Thus, these percentiles are not directly comparable to the percentages in the B tables, which are based on lifetime earnings, and include only those who survive and become eligible for retirement benefits.

<sup>2</sup> Increase the payroll tax rate by 0.1% each year from 2020 until it reaches 14.8% in 2043.

<sup>3</sup> Apply the OASDI payroll tax rate on earnings above \$400,000 starting in 2020, and tax all earnings once the current-law taxable maximum exceeds \$400,000.

This analysis reflects only the provisions of the proposal identified in this table and described in the footnotes above.

All estimates based on the intermediate assumptions of the 2019 Trustees Report.

**Table 1 - OASDI Cost Rate, Income Rate, Annual Balance, and Trust Fund Ratio**  
**"Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

Year	Proposal			Trust Fund Ratio	Change from Current Law		
	Expressed as a percentage of current-law taxable payroll				Expressed as a percentage of current-law taxable payroll		
	Cost Rate	Income Rate	Annual Balance	1-1-year	Cost Rate	Income Rate	Annual Balance
2019	13.91	12.85	-1.06	273	0.00	0.00	0.00
2020	14.19	13.60	-0.58	256	0.24	0.73	0.49
2021	14.36	13.81	-0.55	244	0.28	0.91	0.64
2022	14.54	13.97	-0.56	232	0.31	1.05	0.74
2023	14.74	14.13	-0.61	220	0.34	1.19	0.85
2024	14.96	14.30	-0.66	209	0.38	1.33	0.95
2025	15.20	14.46	-0.74	198	0.41	1.48	1.06
2026	15.44	14.67	-0.77	187	0.45	1.56	1.11
2027	15.68	14.84	-0.83	177	0.48	1.71	1.23
2028	15.95	15.04	-0.91	167	0.52	1.86	1.34
2029	16.18	15.21	-0.97	159	0.55	2.02	1.47
2030	16.39	15.39	-1.00	150	0.58	2.18	1.60
2031	16.58	15.56	-1.02	143	0.61	2.34	1.73
2032	16.75	15.73	-1.02	136	0.64	2.50	1.86
2033	16.90	15.91	-1.00	130	0.67	2.67	2.00
2034	17.02	16.08	-0.94	125	0.70	2.84	2.14
2035	17.12	16.26	-0.86	120	0.72	3.00	2.29
2036	17.20	16.43	-0.77	116	0.74	3.18	2.44
2037	17.28	16.61	-0.66	112	0.76	3.35	2.59
2038	17.34	16.80	-0.55	109	0.78	3.53	2.75
2039	17.40	16.98	-0.42	107	0.80	3.71	2.91
2040	17.43	17.17	-0.26	105	0.81	3.89	3.08
2041	17.44	17.36	-0.08	105	0.83	4.08	3.25
2042	17.43	17.55	0.12	105	0.84	4.27	3.43
2043	17.41	17.74	0.33	107	0.85	4.47	3.62
2044	17.38	17.83	0.45	110	0.86	4.56	3.70
2045	17.36	17.93	0.57	114	0.87	4.66	3.79
2046	17.33	18.02	0.70	118	0.87	4.75	3.88
2047	17.31	18.13	0.82	124	0.88	4.86	3.97
2048	17.29	18.18	0.89	129	0.89	4.91	4.02
2049	17.27	18.19	0.91	136	0.89	4.92	4.03
2050	17.26	18.20	0.94	142	0.90	4.93	4.03
2051	17.26	18.21	0.95	149	0.90	4.94	4.04
2052	17.27	18.22	0.95	155	0.90	4.95	4.04
2053	17.28	18.23	0.95	162	0.91	4.95	4.05
2054	17.29	18.24	0.94	169	0.91	4.96	4.05
2055	17.32	18.25	0.93	175	0.91	4.97	4.06
2056	17.36	18.26	0.90	182	0.92	4.98	4.06
2057	17.40	18.27	0.87	188	0.92	4.98	4.06
2058	17.45	18.28	0.83	194	0.92	4.99	4.07
2059	17.50	18.29	0.79	200	0.93	5.00	4.07
2060	17.56	18.30	0.74	205	0.93	5.00	4.07
2061	17.61	18.31	0.70	211	0.93	5.01	4.07
2062	17.67	18.32	0.65	216	0.94	5.01	4.08
2063	17.73	18.33	0.60	221	0.94	5.02	4.08
2064	17.79	18.34	0.55	226	0.95	5.02	4.08
2065	17.85	18.35	0.50	230	0.95	5.03	4.08
2066	17.91	18.36	0.45	234	0.95	5.03	4.08
2067	17.97	18.36	0.39	238	0.96	5.04	4.08
2068	18.04	18.37	0.34	242	0.96	5.04	4.08
2069	18.10	18.38	0.28	245	0.97	5.05	4.08
2070	18.16	18.39	0.23	248	0.97	5.05	4.08
2071	18.22	18.40	0.17	251	0.97	5.06	4.08
2072	18.28	18.41	0.13	253	0.98	5.06	4.08
2073	18.33	18.41	0.09	256	0.98	5.06	4.09
2074	18.37	18.42	0.05	258	0.98	5.07	4.09
2075	18.41	18.43	0.01	260	0.98	5.07	4.09
2076	18.45	18.43	-0.01	262	0.99	5.08	4.09
2077	18.46	18.44	-0.02	264	0.99	5.08	4.09
2078	18.47	18.44	-0.03	266	0.99	5.08	4.09
2079	18.47	18.45	-0.02	269	0.99	5.09	4.10
2080	18.45	18.45	0.00	271	0.99	5.09	4.10
2081	18.43	18.45	0.02	274	0.99	5.09	4.10
2082	18.41	18.45	0.04	277	0.99	5.10	4.11
2083	18.39	18.46	0.07	280	0.99	5.10	4.11
2084	18.37	18.46	0.09	283	0.99	5.10	4.11
2085	18.34	18.46	0.12	286	0.99	5.11	4.12
2086	18.33	18.46	0.14	290	0.99	5.11	4.12
2087	18.31	18.46	0.15	293	0.99	5.11	4.12
2088	18.31	18.47	0.15	297	0.99	5.11	4.13
2089	18.32	18.47	0.15	300	0.99	5.12	4.13
2090	18.35	18.47	0.13	303	0.99	5.12	4.13
2091	18.38	18.48	0.10	306	0.99	5.12	4.13
2092	18.42	18.48	0.06	309	0.99	5.13	4.13
2093	18.47	18.49	0.02	311	0.99	5.13	4.13
2094	18.52	18.50	-0.02	313	1.00	5.13	4.13

Summarized Rates: OASDI				
	Cost Rate	Income Rate	Actuarial Balance	Year of reserve depletion <sup>1</sup>
2019 - 2093	17.41%	17.80%	0.39%	N/A

Summarized Rates: OASDI		
Change in Cost rate	Change in Income Rate	Change in Actuarial Balance
0.81%	3.99%	3.18%

Based on Intermediate Assumptions of the 2019 Trustees Report.  
<sup>1</sup>Under current law the year of combined Trust Fund reserve depletion is 2035.

**Table 1a - General Fund Transfers, OASDI Trust Fund Reserves, and Theoretical OASDI Reserves**  
**"Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

Calendar Year	Proposal General Fund Transfers			Billions of Present Value Dollars as of 1-1-2019				
	Percentage of Payroll	Billions of Present Value Dollars as of 1-1-2019		Proposal Total OASDI Trust Fund Reserves at End of Year	Gross Domestic Product	Theoretical Social Security <sup>1</sup> with Borrowing Authority		
		Annual Amounts	Accumulated as of End of Year			Net OASDI Trust Fund Reserves at End of Year		
						Without General Fund Transfers	With Plan General Fund Transfers	
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
2019	0.0	0.0	0.0	2,815.5	21,185.1	2,815.5	2,815.5	
2020	0.0	0.0	0.0	2,771.3	21,595.0	2,734.1	2,734.1	
2021	0.0	0.0	0.0	2,728.5	21,970.9	2,641.5	2,641.5	
2022	0.0	0.0	0.0	2,684.0	22,337.8	2,537.6	2,537.6	
2023	0.0	0.0	0.0	2,634.9	22,723.2	2,419.4	2,419.4	
2024	0.0	0.0	0.0	2,580.4	23,102.0	2,285.6	2,285.6	
2025	0.0	0.0	0.0	2,518.8	23,444.8	2,134.2	2,134.2	
2026	0.0	0.0	0.0	2,453.9	23,747.4	1,974.0	1,974.0	
2027	0.0	0.0	0.0	2,382.5	24,006.2	1,795.8	1,795.8	
2028	0.0	0.0	0.0	2,303.3	24,217.3	1,598.6	1,598.6	
2029	0.0	0.0	0.0	2,219.2	24,367.0	1,384.7	1,384.7	
2030	0.0	0.0	0.0	2,131.8	24,429.3	1,156.1	1,156.1	
2031	0.0	0.0	0.0	2,043.0	24,417.6	914.8	914.8	
2032	0.0	0.0	0.0	1,955.0	24,329.9	663.3	663.3	
2033	0.0	0.0	0.0	1,869.9	24,164.3	404.1	404.1	
2034	0.0	0.0	0.0	1,790.4	23,965.3	139.9	139.9	
2035	0.0	0.0	0.0	1,718.5	23,763.9	-127.4	-127.4	
2036	0.0	0.0	0.0	1,655.5	23,559.3	-396.7	-396.7	
2037	0.0	0.0	0.0	1,601.6	23,356.0	-667.7	-667.7	
2038	0.0	0.0	0.0	1,557.9	23,155.0	-939.5	-939.5	
2039	0.0	0.0	0.0	1,525.1	22,959.6	-1,211.6	-1,211.6	
2040	0.0	0.0	0.0	1,505.4	22,774.8	-1,481.9	-1,481.9	
2041	0.0	0.0	0.0	1,500.4	22,590.2	-1,749.4	-1,749.4	
2042	0.0	0.0	0.0	1,511.4	22,410.5	-2,012.8	-2,012.8	
2043	0.0	0.0	0.0	1,539.4	22,241.6	-2,271.5	-2,271.5	
2044	0.0	0.0	0.0	1,576.6	22,075.0	-2,525.4	-2,525.4	
2045	0.0	0.0	0.0	1,622.7	21,911.5	-2,774.7	-2,774.7	
2046	0.0	0.0	0.0	1,678.3	21,752.3	-3,019.4	-3,019.4	
2047	0.0	0.0	0.0	1,742.8	21,594.1	-3,260.2	-3,260.2	
2048	0.0	0.0	0.0	1,811.9	21,434.8	-3,497.5	-3,497.5	
2049	0.0	0.0	0.0	1,882.6	21,279.4	-3,731.4	-3,731.4	
2050	0.0	0.0	0.0	1,954.4	21,126.6	-3,962.3	-3,962.3	
2051	0.0	0.0	0.0	2,026.6	20,969.2	-4,190.9	-4,190.9	
2052	0.0	0.0	0.0	2,098.4	20,812.1	-4,418.0	-4,418.0	
2053	0.0	0.0	0.0	2,169.6	20,658.2	-4,643.7	-4,643.7	
2054	0.0	0.0	0.0	2,239.8	20,501.9	-4,868.5	-4,868.5	
2055	0.0	0.0	0.0	2,308.1	20,342.5	-5,093.1	-5,093.1	
2056	0.0	0.0	0.0	2,374.1	20,181.6	-5,318.0	-5,318.0	
2057	0.0	0.0	0.0	2,437.3	20,020.8	-5,543.5	-5,543.5	
2058	0.0	0.0	0.0	2,497.3	19,859.6	-5,770.0	-5,770.0	
2059	0.0	0.0	0.0	2,553.7	19,697.2	-5,997.9	-5,997.9	
2060	0.0	0.0	0.0	2,606.5	19,534.4	-6,227.1	-6,227.1	
2061	0.0	0.0	0.0	2,655.7	19,371.4	-6,457.5	-6,457.5	
2062	0.0	0.0	0.0	2,701.2	19,207.9	-6,689.3	-6,689.3	
2063	0.0	0.0	0.0	2,743.1	19,044.6	-6,922.4	-6,922.4	
2064	0.0	0.0	0.0	2,781.3	18,881.7	-7,156.7	-7,156.7	
2065	0.0	0.0	0.0	2,815.8	18,720.1	-7,392.3	-7,392.3	
2066	0.0	0.0	0.0	2,846.6	18,560.1	-7,629.2	-7,629.2	
2067	0.0	0.0	0.0	2,873.6	18,401.9	-7,867.5	-7,867.5	
2068	0.0	0.0	0.0	2,896.8	18,245.9	-8,107.3	-8,107.3	
2069	0.0	0.0	0.0	2,916.2	18,092.4	-8,348.5	-8,348.5	
2070	0.0	0.0	0.0	2,931.9	17,941.0	-8,591.1	-8,591.1	
2071	0.0	0.0	0.0	2,944.3	17,792.2	-8,834.8	-8,834.8	
2072	0.0	0.0	0.0	2,953.7	17,646.4	-9,079.2	-9,079.2	
2073	0.0	0.0	0.0	2,960.5	17,503.6	-9,324.2	-9,324.2	
2074	0.0	0.0	0.0	2,964.8	17,364.2	-9,569.5	-9,569.5	
2075	0.0	0.0	0.0	2,967.1	17,227.7	-9,814.8	-9,814.8	
2076	0.0	0.0	0.0	2,967.8	17,093.8	-10,059.6	-10,059.6	
2077	0.0	0.0	0.0	2,967.8	16,962.4	-10,303.3	-10,303.3	
2078	0.0	0.0	0.0	2,967.5	16,832.8	-10,545.2	-10,545.2	
2079	0.0	0.0	0.0	2,967.7	16,704.8	-10,784.7	-10,784.7	
2080	0.0	0.0	0.0	2,969.0	16,577.9	-11,021.5	-11,021.5	
2081	0.0	0.0	0.0	2,971.4	16,452.9	-11,255.2	-11,255.2	
2082	0.0	0.0	0.0	2,975.2	16,329.0	-11,485.8	-11,485.8	
2083	0.0	0.0	0.0	2,980.3	16,206.0	-11,713.4	-11,713.4	
2084	0.0	0.0	0.0	2,986.8	16,083.6	-11,937.7	-11,937.7	
2085	0.0	0.0	0.0	2,994.6	15,961.3	-12,159.1	-12,159.1	
2086	0.0	0.0	0.0	3,003.3	15,838.8	-12,377.7	-12,377.7	
2087	0.0	0.0	0.0	3,012.7	15,716.1	-12,593.9	-12,593.9	
2088	0.0	0.0	0.0	3,022.3	15,593.0	-12,808.2	-12,808.2	
2089	0.0	0.0	0.0	3,031.4	15,469.3	-13,021.1	-13,021.1	
2090	0.0	0.0	0.0	3,039.4	15,345.2	-13,233.2	-13,233.2	
2091	0.0	0.0	0.0	3,046.0	15,221.0	-13,445.0	-13,445.0	
2092	0.0	0.0	0.0	3,050.6	15,096.5	-13,656.8	-13,656.8	
2093	0.0	0.0	0.0	3,052.9	14,972.1	-13,869.0	-13,869.0	
2094	0.0	0.0	0.0	3,052.9	14,847.6	-14,081.7	-14,081.7	
Total 2019-2093		0.0						

Based on the Intermediate Assumptions of the 2019 Trustees Report.  
 Ultimate Real Trust Fund Yield of 2.5%.

<sup>1</sup> Theoretical Social Security is the current Social Security program with the assumption that the law is modified to permit borrowing from the General Fund of the Treasury.

**Table 1b - OASDI Changes & Implications for Federal Budget and Debt of Specified Plan Provision Effects on OASDI<sup>1</sup> (Present Value Dollars)**  
**"Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

*Billions of Present Value Dollars as of 1-1-2019*

Year	Specified General Fund Transfers	Basic Changes in OASDI Cash Flow	Change in Annual Unified Budget Cash Flow	Change in Debt Held by Public at End of Year	Change in Annual Unified Budget Balance	Change in Annual On Budget Cash Flow	Change in Total Federal Debt Subject to Limit End Of Year	Change in Annual On Budget Balance
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020	0.0	37.2	37.2	-37.2	37.2	0.0	0.0	0.0
2021	0.0	49.8	49.8	-87.0	50.8	0.0	0.0	0.0
2022	0.0	59.4	59.4	-146.3	61.7	0.0	0.0	0.0
2023	0.0	69.1	69.1	-215.5	73.1	0.0	0.0	0.0
2024	0.0	79.3	79.3	-294.7	85.3	0.0	0.0	0.0
2025	0.0	89.8	89.8	-384.6	98.4	0.0	0.0	0.0
2026	0.0	95.3	95.3	-479.9	107.1	0.0	0.0	0.0
2027	0.0	106.7	106.7	-586.7	122.3	0.0	0.0	0.0
2028	0.0	118.1	118.1	-704.7	138.2	0.0	0.0	0.0
2029	0.0	129.7	129.7	-834.5	156.0	0.0	0.0	0.0
2030	0.0	141.2	141.2	-975.7	174.9	0.0	0.0	0.0
2031	0.0	152.5	152.5	-1,128.2	194.8	0.0	0.0	0.0
2032	0.0	163.5	163.5	-1,291.7	215.8	0.0	0.0	0.0
2033	0.0	174.2	174.2	-1,465.9	237.6	0.0	0.0	0.0
2034	0.0	184.7	184.7	-1,650.6	256.7	0.0	0.0	0.0
2035	0.0	195.4	195.4	-1,845.9	276.5	0.0	0.0	0.0
2036	0.0	206.2	206.2	-2,052.2	296.9	0.0	0.0	0.0
2037	0.0	217.1	217.1	-2,269.3	317.9	0.0	0.0	0.0
2038	0.0	228.1	228.1	-2,497.4	339.6	0.0	0.0	0.0
2039	0.0	239.3	239.3	-2,736.7	361.9	0.0	0.0	0.0
2040	0.0	250.7	250.7	-2,987.4	385.1	0.0	0.0	0.0
2041	0.0	262.4	262.4	-3,249.8	409.1	0.0	0.0	0.0
2042	0.0	274.4	274.4	-3,524.2	434.0	0.0	0.0	0.0
2043	0.0	286.7	286.7	-3,810.9	459.8	0.0	0.0	0.0
2044	0.0	291.1	291.1	-4,102.0	478.3	0.0	0.0	0.0
2045	0.0	295.4	295.4	-4,397.5	496.9	0.0	0.0	0.0
2046	0.0	300.2	300.2	-4,697.7	516.2	0.0	0.0	0.0
2047	0.0	305.2	305.2	-5,002.9	536.0	0.0	0.0	0.0
2048	0.0	306.4	306.4	-5,309.3	552.1	0.0	0.0	0.0
2049	0.0	304.6	304.6	-5,614.0	565.4	0.0	0.0	0.0
2050	0.0	302.7	302.7	-5,916.7	578.5	0.0	0.0	0.0
2051	0.0	300.8	300.8	-6,217.5	591.4	0.0	0.0	0.0
2052	0.0	298.8	298.8	-6,516.4	604.2	0.0	0.0	0.0
2053	0.0	296.9	296.9	-6,813.3	617.0	0.0	0.0	0.0
2054	0.0	295.0	295.0	-7,108.3	629.6	0.0	0.0	0.0
2055	0.0	292.9	292.9	-7,401.2	642.1	0.0	0.0	0.0
2056	0.0	290.9	290.9	-7,692.1	654.4	0.0	0.0	0.0
2057	0.0	288.7	288.7	-7,980.8	666.5	0.0	0.0	0.0
2058	0.0	286.5	286.5	-8,267.3	678.5	0.0	0.0	0.0
2059	0.0	284.3	284.3	-8,551.6	690.3	0.0	0.0	0.0
2060	0.0	282.0	282.0	-8,833.6	702.0	0.0	0.0	0.0
2061	0.0	279.7	279.7	-9,113.3	713.5	0.0	0.0	0.0
2062	0.0	277.3	277.3	-9,390.6	724.9	0.0	0.0	0.0
2063	0.0	274.9	274.9	-9,665.5	736.1	0.0	0.0	0.0
2064	0.0	272.5	272.5	-9,938.0	747.2	0.0	0.0	0.0
2065	0.0	270.1	270.1	-10,208.1	758.2	0.0	0.0	0.0
2066	0.0	267.7	267.7	-10,475.8	769.0	0.0	0.0	0.0
2067	0.0	265.3	265.3	-10,741.1	779.8	0.0	0.0	0.0
2068	0.0	262.9	262.9	-11,004.0	790.5	0.0	0.0	0.0
2069	0.0	260.6	260.6	-11,264.7	801.1	0.0	0.0	0.0
2070	0.0	258.3	258.3	-11,523.0	811.6	0.0	0.0	0.0
2071	0.0	256.1	256.1	-11,779.1	822.0	0.0	0.0	0.0
2072	0.0	253.9	253.9	-12,032.9	832.4	0.0	0.0	0.0
2073	0.0	251.7	251.7	-12,284.7	842.7	0.0	0.0	0.0
2074	0.0	249.6	249.6	-12,534.3	853.0	0.0	0.0	0.0
2075	0.0	247.6	247.6	-12,781.9	863.2	0.0	0.0	0.0
2076	0.0	245.5	245.5	-13,027.4	873.3	0.0	0.0	0.0
2077	0.0	243.6	243.6	-13,271.0	883.4	0.0	0.0	0.0
2078	0.0	241.7	241.7	-13,512.7	893.4	0.0	0.0	0.0
2079	0.0	239.8	239.8	-13,752.5	903.5	0.0	0.0	0.0
2080	0.0	238.0	238.0	-13,990.4	913.4	0.0	0.0	0.0
2081	0.0	236.2	236.2	-14,226.6	923.3	0.0	0.0	0.0
2082	0.0	234.4	234.4	-14,461.0	933.1	0.0	0.0	0.0
2083	0.0	232.6	232.6	-14,693.6	942.9	0.0	0.0	0.0
2084	0.0	230.9	230.9	-14,924.5	952.5	0.0	0.0	0.0
2085	0.0	229.1	229.1	-15,153.6	962.1	0.0	0.0	0.0
2086	0.0	227.4	227.4	-15,381.0	971.6	0.0	0.0	0.0
2087	0.0	225.6	225.6	-15,606.6	981.0	0.0	0.0	0.0
2088	0.0	223.8	223.8	-15,830.4	990.3	0.0	0.0	0.0
2089	0.0	222.0	222.0	-16,052.5	999.5	0.0	0.0	0.0
2090	0.0	220.2	220.2	-16,272.7	1,008.6	0.0	0.0	0.0
2091	0.0	218.3	218.3	-16,491.0	1,017.5	0.0	0.0	0.0
2092	0.0	216.4	216.4	-16,707.4	1,026.4	0.0	0.0	0.0
2093	0.0	214.5	214.5	-16,922.0	1,035.1	0.0	0.0	0.0
Total 2019-2093	0.0	16,922.0	16,922.0					

Based on Intermediate Assumptions of the 2019 Trustees Report.  
 Ultimate Real Trust Fund Yield of 2.5%.

Note: Changes reflect the budget scoring convention that presumes benefits not payable after reserve depletion would nonetheless be paid, based on transfers from the General Fund of the Treasury resulting in additional borrowing from the public.

<sup>1</sup> Effects of tax provisions on the On-Budget are not reflected in this table.

Office of the Chief Actuary  
 Social Security Administration  
 September 18, 2019

**Table 1b.n - OASDI Changes & Implications for Federal Budget and Debt of Specified Plan Provision Effects on OASDI<sup>1</sup> (Nominal Dollars)  
 "Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

<i>Billions of Nominal Dollars</i>									
<u>Year</u>	Specified General Fund Transfers (1)	Basic Changes in OASDI Cash Flow (2)	Change in Annual Unified Budget Cash Flow (3)	Change in Debt Held by Public at End of Year <sup>2</sup> (4)	Change in Annual Unified Budget Balance <sup>2</sup> (5)	Change in Annual On Budget Cash Flow (6)	Change in Total Federal Debt Subject to Limit End Of Year <sup>2</sup> (7)	Change in Annual On Budget Balance <sup>2</sup> (8)	
2019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2020	0.0	38.9	38.9	-39.4	39.4	0.0	0.0	0.0	
2021	0.0	53.4	53.4	-94.6	55.3	0.0	0.0	0.0	
2022	0.0	65.5	65.5	-163.7	69.1	0.0	0.0	0.0	
2023	0.0	78.3	78.3	-247.9	84.2	0.0	0.0	0.0	
2024	0.0	92.3	92.3	-349.1	101.2	0.0	0.0	0.0	
2025	0.0	107.7	107.7	-469.4	120.3	0.0	0.0	0.0	
2026	0.0	117.8	117.8	-604.6	135.2	0.0	0.0	0.0	
2027	0.0	136.2	136.2	-764.2	159.6	0.0	0.0	0.0	
2028	0.0	155.9	155.9	-950.9	186.7	0.0	0.0	0.0	
2029	0.0	177.6	177.6	-1,169.7	218.8	0.0	0.0	0.0	

Based on Intermediate Assumptions of the 2019 Trustees Report.

Note: Changes reflect the budget scoring convention that presumes benefits not payable after reserve depletion would nonetheless be paid, based on transfers from the General Fund of the Treasury resulting in additional borrowing from the public.

<sup>1</sup> Effects of tax provisions on the On-Budget are not reflected in this table.

<sup>2</sup> Includes the effect of accumulated interest income.

Office of the Chief Actuary  
 Social Security Administration  
 September 18, 2019

**Table 1c - Current Law and Proposal Cost, Expenditures, and Income: As Percent of Gross Domestic Product  
 "Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

Calendar Year	Current Law OASDI			Proposal OASDI		
	Cost (1)	Expenditures (Payable) (2)	Non-Interest Income (3)	Cost (4)	Expenditures (Payable) (5)	Non-Interest Income (6)
2019	4.93	4.93	4.56	4.93	4.93	4.56
2020	4.94	4.94	4.57	5.03	5.03	4.82
2021	5.01	5.01	4.59	5.11	5.11	4.91
2022	5.09	5.09	4.62	5.20	5.20	5.00
2023	5.16	5.16	4.64	5.29	5.29	5.07
2024	5.25	5.25	4.66	5.38	5.38	5.14
2025	5.33	5.33	4.68	5.48	5.48	5.21
2026	5.42	5.42	4.74	5.58	5.58	5.30
2027	5.50	5.50	4.76	5.68	5.68	5.38
2028	5.59	5.59	4.78	5.78	5.78	5.45
2029	5.66	5.66	4.78	5.86	5.86	5.51
2030	5.72	5.72	4.78	5.93	5.93	5.56
2031	5.77	5.77	4.77	5.99	5.99	5.62
2032	5.81	5.81	4.77	6.04	6.04	5.68
2033	5.85	5.85	4.77	6.09	6.09	5.73
2034	5.87	5.87	4.77	6.12	6.12	5.79
2035	5.89	5.34	4.76	6.15	6.15	5.84
2036	5.91	4.76	4.76	6.17	6.17	5.90
2037	5.92	4.75	4.75	6.19	6.19	5.95
2038	5.93	4.75	4.75	6.21	6.21	6.01
2039	5.93	4.74	4.74	6.22	6.22	6.07
2040	5.93	4.74	4.74	6.22	6.22	6.13
2041	5.92	4.73	4.73	6.22	6.22	6.19
2042	5.91	4.73	4.73	6.21	6.21	6.25
2043	5.89	4.72	4.72	6.20	6.20	6.31
2044	5.88	4.72	4.72	6.18	6.18	6.34
2045	5.86	4.72	4.72	6.17	6.17	6.37
2046	5.85	4.71	4.71	6.16	6.16	6.40
2047	5.83	4.71	4.71	6.15	6.15	6.44
2048	5.82	4.71	4.71	6.14	6.14	6.45
2049	5.81	4.71	4.71	6.13	6.13	6.45
2050	5.81	4.71	4.71	6.12	6.12	6.46
2051	5.80	4.71	4.71	6.12	6.12	6.46
2052	5.80	4.71	4.71	6.12	6.12	6.46
2053	5.80	4.71	4.71	6.13	6.13	6.46
2054	5.81	4.71	4.71	6.13	6.13	6.46
2055	5.82	4.71	4.71	6.14	6.14	6.47
2056	5.83	4.71	4.71	6.15	6.15	6.47
2057	5.84	4.71	4.71	6.16	6.16	6.47
2058	5.85	4.71	4.71	6.18	6.18	6.47
2059	5.87	4.71	4.71	6.20	6.20	6.48
2060	5.89	4.71	4.71	6.21	6.21	6.48
2061	5.90	4.71	4.71	6.23	6.23	6.48
2062	5.92	4.71	4.71	6.25	6.25	6.48
2063	5.93	4.71	4.71	6.27	6.27	6.48
2064	5.95	4.70	4.70	6.29	6.29	6.48
2065	5.97	4.70	4.70	6.30	6.30	6.48
2066	5.98	4.70	4.70	6.32	6.32	6.48
2067	6.00	4.70	4.70	6.34	6.34	6.48
2068	6.02	4.70	4.70	6.36	6.36	6.48
2069	6.04	4.70	4.70	6.38	6.38	6.48
2070	6.05	4.70	4.70	6.40	6.40	6.48
2071	6.07	4.70	4.70	6.41	6.41	6.47
2072	6.08	4.69	4.69	6.43	6.43	6.47
2073	6.10	4.69	4.69	6.44	6.44	6.47
2074	6.11	4.69	4.69	6.45	6.45	6.47
2075	6.12	4.69	4.69	6.46	6.46	6.47
2076	6.12	4.68	4.68	6.47	6.47	6.46
2077	6.12	4.68	4.68	6.47	6.47	6.46
2078	6.12	4.68	4.68	6.47	6.47	6.46
2079	6.11	4.67	4.67	6.46	6.46	6.45
2080	6.10	4.67	4.67	6.45	6.45	6.45
2081	6.09	4.67	4.67	6.44	6.44	6.44
2082	6.08	4.66	4.66	6.42	6.42	6.44
2083	6.07	4.66	4.66	6.41	6.41	6.43
2084	6.05	4.65	4.65	6.40	6.40	6.43
2085	6.04	4.65	4.65	6.38	6.38	6.42
2086	6.03	4.64	4.64	6.37	6.37	6.42
2087	6.02	4.64	4.64	6.36	6.36	6.42
2088	6.02	4.64	4.64	6.36	6.36	6.41
2089	6.02	4.63	4.63	6.36	6.36	6.41
2090	6.02	4.63	4.63	6.36	6.36	6.41
2091	6.03	4.63	4.63	6.37	6.37	6.40
2092	6.03	4.63	4.63	6.38	6.38	6.40
2093	6.05	4.62	4.62	6.39	6.39	6.40

Based on Intermediate Assumptions of the 2019 Trustees Report.

Office of the Chief Actuary  
 Social Security Administration  
 September 18, 2019



**Table 1d - Change in Long-Range Trust Fund Reserves / Unfunded Obligation (Present Value Dollars)**  
**"Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

Billions of Present Value Dollars as of 1-1-2019

Year	Current Law OASDI Trust Fund Reserves / Unfunded Obligation Through End of Year (1)	Changes in OASDI Income (2)	Changes in OASDI Cost (3)	Basic Changes in OASDI Cash Flow (4) = (2)-(3)	Total Change Through End of Year (5) = cumulative sum(4)	Proposal OASDI Trust Fund Reserves / Unfunded Obligation Through End of Year (6) = (1)+(5)
2019	2,815.5	0.0	0.0	0.0	0.0	2,815.5
2020	2,734.1	56.0	18.7	37.2	37.2	2,771.3
2021	2,641.5	71.4	21.7	49.8	87.0	2,728.5
2022	2,537.6	84.1	24.8	59.4	146.3	2,684.0
2023	2,419.4	97.1	28.0	69.1	215.5	2,634.9
2024	2,285.6	110.7	31.4	79.3	294.7	2,580.4
2025	2,134.2	124.8	35.0	89.8	384.6	2,518.8
2026	1,974.0	133.9	38.5	95.3	479.9	2,453.9
2027	1,795.8	148.9	42.1	106.7	586.7	2,382.5
2028	1,598.6	163.7	45.6	118.1	704.7	2,303.3
2029	1,384.7	178.5	48.8	129.7	834.5	2,219.2
2030	1,156.1	192.9	51.6	141.2	975.7	2,131.8
2031	914.8	206.7	54.2	152.5	1,128.2	2,043.0
2032	663.3	220.0	56.5	163.5	1,291.7	1,955.0
2033	404.1	232.5	58.4	174.2	1,465.9	1,869.9
2034	139.9	244.7	60.0	184.7	1,650.6	1,790.4
2035	-127.4	256.7	61.3	195.4	1,845.9	1,718.5
2036	-396.7	268.8	62.6	206.2	2,052.2	1,655.5
2037	-667.7	280.8	63.7	217.1	2,269.3	1,601.6
2038	-939.5	292.7	64.6	228.1	2,497.4	1,557.9
2039	-1,211.6	304.7	65.5	239.3	2,736.7	1,525.1
2040	-1,481.9	316.9	66.2	250.7	2,987.4	1,505.4
2041	-1,749.4	329.1	66.7	262.4	3,249.8	1,500.4
2042	-2,012.8	341.5	67.1	274.4	3,524.2	1,511.4
2043	-2,271.5	354.0	67.3	286.7	3,810.9	1,539.4
2044	-2,525.4	358.6	67.5	291.1	4,102.0	1,576.6
2045	-2,774.7	363.0	67.6	295.4	4,397.5	1,622.7
2046	-3,019.4	367.9	67.6	300.2	4,697.7	1,678.3
2047	-3,260.2	372.8	67.6	305.2	5,002.9	1,742.8
2048	-3,497.5	373.9	67.5	306.4	5,309.3	1,811.9
2049	-3,731.4	371.9	67.3	304.6	5,614.0	1,882.6
2050	-3,962.3	369.9	67.1	302.7	5,916.7	1,954.4
2051	-4,190.9	367.7	66.9	300.8	6,217.5	2,026.6
2052	-4,418.0	365.5	66.7	298.8	6,516.4	2,098.4
2053	-4,643.7	363.3	66.4	296.9	6,813.3	2,169.6
2054	-4,868.5	361.1	66.1	295.0	7,108.3	2,239.8
2055	-5,093.1	358.7	65.8	292.9	7,401.2	2,308.1
2056	-5,318.0	356.3	65.5	290.9	7,692.1	2,374.1
2057	-5,543.5	353.9	65.2	288.7	7,980.8	2,437.3
2058	-5,770.0	351.4	64.9	286.5	8,267.3	2,497.3
2059	-5,997.9	348.9	64.6	284.3	8,551.6	2,553.7
2060	-6,227.1	346.3	64.3	282.0	8,833.6	2,606.5
2061	-6,457.5	343.7	64.0	279.7	9,113.3	2,655.7
2062	-6,689.3	341.0	63.7	277.3	9,390.6	2,701.2
2063	-6,922.4	338.4	63.4	274.9	9,665.5	2,743.1
2064	-7,156.7	335.6	63.1	272.5	9,938.0	2,781.3
2065	-7,392.3	332.9	62.8	270.1	10,208.1	2,815.8
2066	-7,629.2	330.2	62.5	267.7	10,475.8	2,846.6
2067	-7,867.5	327.5	62.2	265.3	10,741.1	2,873.6
2068	-8,107.3	324.8	61.9	262.9	11,004.0	2,896.8
2069	-8,348.5	322.2	61.6	260.6	11,264.7	2,916.2
2070	-8,591.1	319.6	61.3	258.3	11,523.0	2,931.9
2071	-8,834.8	317.0	60.9	256.1	11,779.1	2,944.3
2072	-9,079.2	314.5	60.6	253.9	12,032.9	2,953.7
2073	-9,324.2	312.0	60.2	251.7	12,284.7	2,960.5
2074	-9,569.5	309.5	59.9	249.6	12,534.3	2,964.8
2075	-9,814.8	307.1	59.5	247.6	12,781.9	2,967.1
2076	-10,059.6	304.7	59.1	245.5	13,027.4	2,967.8
2077	-10,303.3	302.3	58.7	243.6	13,271.0	2,967.8
2078	-10,545.2	300.0	58.3	241.7	13,512.7	2,967.5
2079	-10,784.7	297.6	57.8	239.8	13,752.5	2,967.7
2080	-11,021.5	295.3	57.3	238.0	13,990.4	2,969.0
2081	-11,255.2	293.0	56.9	236.2	14,226.6	2,971.4
2082	-11,485.8	290.8	56.4	234.4	14,461.0	2,975.2
2083	-11,713.4	288.5	55.9	232.6	14,693.6	2,980.3
2084	-11,937.7	286.3	55.4	230.9	14,924.5	2,986.8
2085	-12,159.1	284.0	54.9	229.1	15,153.6	2,994.6
2086	-12,377.7	281.8	54.4	227.4	15,381.0	3,003.3
2087	-12,593.9	279.5	53.9	225.6	15,606.6	3,012.7
2088	-12,808.2	277.3	53.5	223.8	15,830.4	3,022.3
2089	-13,021.1	275.1	53.0	222.0	16,052.5	3,031.4
2090	-13,233.2	272.8	52.6	220.2	16,272.7	3,039.4
2091	-13,445.0	270.6	52.2	218.3	16,491.0	3,046.0
2092	-13,656.8	268.3	51.9	216.4	16,707.4	3,050.6
2093	-13,869.0	<u>266.1</u>	<u>51.5</u>	<u>214.5</u>	16,922.0	3,052.9
Total 2019-2093		21172.3	4250.3	16922.0		

Based on Intermediate Assumptions of the 2019 Trustees Report.

Ultimate Real Trust Fund Yield of 2.5%.

Office of the Chief Actuary  
 Social Security Administration  
 September 18, 2019

**Table 1d.n - Change in Long-Range Trust Fund Reserves / Unfunded Obligation (Nominal Dollars)**  
**"Social Security 2100 Act," Introduced by Chairman Larson, Senator Blumenthal, and Senator Van Hollen**

*Billions of Nominal Dollars*

<u>Year</u>	Current Law OASDI Trust Fund Reserves / Unfunded Obligation Through End of Year (1)	Changes in Noninterest OASDI Income (2)	Changes in OASDI Cost (3)	Basic Changes in OASDI Cash Flow (4) = (2)-(3)	Total Change Through End of Year <sup>1</sup> (5)	Proposal OASDI Trust Fund Reserves / Unfunded Obligation Through End of Year (6) = (1)+(5)
2019	2,895.9	0.0	0.0	0.0	0.0	2,895.9
2020	2,891.6	58.4	19.5	38.9	39.4	2,930.9
2021	2,871.6	76.6	23.2	53.4	94.6	2,966.3
2022	2,834.7	92.7	27.3	65.5	163.7	2,998.4
2023	2,778.0	110.0	31.7	78.3	247.9	3,025.9
2024	2,700.2	128.9	36.6	92.3	349.1	3,049.3
2025	2,596.9	149.6	41.9	107.7	469.4	3,066.3
2026	2,478.0	165.5	47.6	117.8	604.6	3,082.6
2027	2,330.0	190.0	53.7	136.2	764.2	3,094.2
2028	2,147.5	216.1	60.2	155.9	950.9	3,098.4
2029	1,932.3	244.4	66.8	177.6	1,169.7	3,102.0

Based on Intermediate Assumptions of the 2019 Trustees Report.

Ultimate Real Trust Fund Yield of 2.5%.

<sup>1</sup> Includes the effect of accumulated interest income.

Office of the Chief Actuary  
 Social Security Administration  
 September 18, 2019