Selected Charts on the Long-Term Fiscal Challenges of the United States

August 2023
Federal debt is on an unsustainable path

Debt Held by the Public (% of GDP)


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The growing debt is caused by a structural mismatch between spending and revenues.

Federal Spending and Revenues (% of GDP)


NOTE: Projected data have been adjusted to remove the effects of timing shifts. Certain payments that would ordinarily have been made on the first day of this fiscal year (October 1), but are instead made at the end of September and thus shifted into the previous fiscal year are treated as belonging to the subsequent fiscal year.
Net interest costs are projected to rise sharply

Billions of Dollars

2015 2017 2019 2021 2023 2025 2027 2029 2031 2033

10-Year Interest Costs: $10.6 trillion

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By 2053, interest costs are projected to be nearly three times the amount the federal government has historically spent on R&D, infrastructure, and education combined.

Federal Spending (% of GDP)

<table>
<thead>
<tr>
<th></th>
<th>Average Spending (1973–2022)</th>
<th>2023</th>
<th>2033</th>
<th>2043</th>
<th>2053</th>
</tr>
</thead>
<tbody>
<tr>
<td>R&amp;D</td>
<td>2.5%</td>
<td>2.5%</td>
<td>3.7%</td>
<td>5.0%</td>
<td>7.2%</td>
</tr>
<tr>
<td>Infrastructure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Projected Interest Costs


NOTE: Infrastructure excludes defense.
Over the past decade, the U.S. spent more on interest on the national debt than it did on other national priorities.

Federal Spending From FY2013 to FY2022 (Billions of Dollars)

- **Net Interest Costs**: $3.0 Trillion
- **Education**: $2.0 Trillion
- **Veterans Benefits and Services**: $1.9 Trillion
- **Transportation**: $1.1 Trillion
- **Administration of Justice**: $0.6 Trillion
- **Natural Resources & Environment**: $0.4 Trillion


Note: Education includes education, training, employment, and social services.
Spending for Social Security and Medicare will continue to climb

Federal Spending (% of GDP)

The elderly population is growing rapidly and living longer.

### U.S. Population Age 65+ (Millions)

- **65–74**
- **75–84**
- **85+**

**Baby Boomers Turn 65**

Medical spending increases rapidly with age

Healthcare Spending per Capita by Age Group (Dollars)

0–18: $3,749
19–44: $4,856
45–64: $10,212
65–84: $16,977
85+: $32,903

SOURCE: Centers for Medicare and Medicaid Services, National Health Expenditures by Age and Gender, April 2019.
NOTE: Data are for 2014.
Healthcare costs in the United States have increased drastically over the past several decades.

National Health Expenditures (Percent of GDP)

SOURCE: Centers for Medicare and Medicaid Services, National Health Expenditure Data, June 2023.
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U.S. per capita healthcare spending is over twice the average of other wealthy countries

Healthcare Costs Per Capita (Dollars)

<table>
<thead>
<tr>
<th>Country</th>
<th>Costs Per Capita (Dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>$12,555</td>
</tr>
<tr>
<td>Switzerland</td>
<td>$8,049</td>
</tr>
<tr>
<td>Germany</td>
<td>$8,011</td>
</tr>
<tr>
<td>Netherlands</td>
<td>$7,358</td>
</tr>
<tr>
<td>Belgium</td>
<td>$6,600</td>
</tr>
<tr>
<td>Australia</td>
<td>$6,596</td>
</tr>
<tr>
<td>France</td>
<td>$6,517</td>
</tr>
<tr>
<td>Sweden</td>
<td>$6,438</td>
</tr>
<tr>
<td>Average</td>
<td>$6,414</td>
</tr>
<tr>
<td>Canada</td>
<td>$6,319</td>
</tr>
<tr>
<td>Ireland</td>
<td>$6,047</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>$5,493</td>
</tr>
<tr>
<td>Japan</td>
<td>$5,251</td>
</tr>
<tr>
<td>Italy</td>
<td>$4,291</td>
</tr>
</tbody>
</table>

NOTES: Data are latest available, which was 2022. Average does not include the United States. The five countries with the largest economies and those with both an above median GDP and GDP per capita, relative to all OECD countries, were included. Chart uses purchasing power parities to convert data into U.S. dollars.

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Although the United States spends more on healthcare than other developed countries, its health outcomes are generally not any better.

**Health Status**
- **Life Expectancy at Birth**
  - Worst: U.S., Latvia
  - Best: Japan
- **Infant Mortality**
  - Worst: U.S., Colombia
  - Best: Japan

**Quality of Primary Care**
- **Unmanaged Asthma**
  - Worst: Turkiye
  - Best: Japan
- **Unmanaged Diabetes**
  - Worst: Turkiye
  - Best: Japan

**Quality of Acute Care**
- **Safety During Childbirth**
  - Worst: Canada, U.S., Colombia
  - Best: Mexico, Costa Rica
- **Heart Attack Mortality**
  - Worst: U.S.
  - Best: Mexico, Costa Rica


**NOTES:** Data are not available for all countries for all metrics. Data are for 2022 or latest available.
As the population ages, fewer workers will be paying taxes to support each Social Security beneficiary.

Workers per Beneficiary Ratio

- 1963: 4.1
- 1983: 3.1
- 2003: 3.3
- 2023: 2.7
- 2043: 2.3


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Social Security is facing significant cash shortfalls

Social Security Surpluses/Deficits (% of GDP)

-2.0% -1.5% -1.0% -0.5% 0.0% 0.5% 1.0%


Actual Projected

Combined Trust Funds Depleted in 2034


NOTES: Surplus/deficit numbers exclude interest income. The Old-Age & Survivors Insurance trust fund is projected to be depleted in 2033 and lead to a 23 percent cut in benefits that year; the Disability Insurance trust fund is not projected to become depleted during the 75-year period ending in 2097.

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Low-income seniors rely on Social Security benefits for a major share of their retirement income.

Social Security Benefits (% of Total Income)

- **Lowest Quintile** (Under $13,499): 81%
- **Second Quintile** ($13,499–$23,592): 81%
- **Middle Quintile** ($23,592–$39,298): 61%
- **Fourth Quintile** ($39,298–$72,129): 39%
- **Highest Quintile** (Over $72,129): 15%


**NOTE:** A quintile is one-fifth of the population. Data are for 2014.

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Discretionary spending is projected to remain below its historical average.

Percent of Federal Spending

- 2013: 65%
- 2023: 73%
- 2033: 76%

Mandatory Spending and Net Interest Costs

- 2013: 35%
- 2023: 27%
- 2033: 24%

Discretionary Spending

- 2013: 76%
- 2023: 65%
- 2033: 73%

Percent of GDP

- Actual (2003–2022)
- Projected (2023–2033)


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Defense spending accounts for nearly half of total discretionary spending.

2023 Discretionary Outlays: $1,712 Billion

- Defense
- Transportation
- Veterans' Benefits and Services
- Health
- Education
- International Affairs
- General Government
- Administration of Justice
- Natural Resources and Environment
- Housing Assistance
- General Science, Space, and Technology
- Community and Regional Development
- Training, Employment, and Social Services

NOTES: Health includes funding for agencies that provide healthcare services or engage in health research, such as the National Institutes of Health, Centers for Disease Control and Prevention, and Indian Health Service. General government includes central executive and legislative functions as well as the administrative costs of Social Security, Medicare, and income security programs. Energy is included in Transportation and Agriculture is included in Natural Resources and Environment. Veterans’ benefits primarily consists of medical and hospital care.
The United States spends more on defense than the next 10 countries combined.

Defense Spending (Billions of Dollars)

- **China**: $849 Billion
- **Russia**: $600 Billion
- **India**: $500 Billion
- **Saudi Arabia**: $300 Billion
- **United Kingdom**: $300 Billion
- **Germany**: $300 Billion
- **France**: $200 Billion
- **South Korea**: $200 Billion
- **Japan**: $200 Billion
- **Ukraine**: $100 Billion
- **United States**: $877 Billion

**Source:** Stockholm International Peace Research Institute, SIPRI Military Expenditure Database, April 2023.

**Notes:** Figures are in U.S. dollars converted from local currencies using market exchange rates. Data for the United States are for fiscal year 2022, which ran from October 1, 2021 through September 30, 2022. Data for the other countries are for calendar year 2022. The source for this chart uses a definition of defense spending that is more broad than budget function 050 and defense discretionary spending.
Non-defense discretionary spending funds a wide range of programs

Non-defense Discretionary Outlays in 2022 (Billions of Dollars): $912 Billion

<table>
<thead>
<tr>
<th>Category</th>
<th>Outlays ($ in billions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health and Services</td>
<td>$141</td>
</tr>
<tr>
<td>Veterans' Benefits</td>
<td>$113</td>
</tr>
<tr>
<td>Income Security</td>
<td>$93</td>
</tr>
<tr>
<td>International Affairs</td>
<td>$71</td>
</tr>
<tr>
<td>Education</td>
<td>$134</td>
</tr>
<tr>
<td>Transportation</td>
<td>$112</td>
</tr>
<tr>
<td>Administration of Justice</td>
<td>$68</td>
</tr>
<tr>
<td>Natural Resources and Environment</td>
<td>$67</td>
</tr>
<tr>
<td>General Government</td>
<td>$19</td>
</tr>
<tr>
<td>Community and Regional Development</td>
<td>$45</td>
</tr>
<tr>
<td>General Science, Space, and Technology</td>
<td>$37</td>
</tr>
<tr>
<td>Other</td>
<td>$11</td>
</tr>
</tbody>
</table>


**NOTES:** Health includes funding for agencies that provide healthcare services or engage in health research, such as the National Institutes of Health, Centers for Disease Control and Prevention, and Indian Health Service. Education also includes Training, Employment, and Social Services ($26 billion). Agriculture ($11 billion) and Energy ($7 billion) are included in Natural Resources and Environment. Income Security includes Housing Assistance ($58 billion). Other includes Commerce and housing credit as well as the administrative costs of Social Security and Medicare.

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The federal government collects revenues from a variety of sources.

Projected 2023 Revenues
$4,815 Billion

- Individual Income: 52%
- Payroll: 33%
- Corporate Income: 10%
- Other: 1%
- Excise: 2%
- Customs Duties: 2%

NOTE: Other includes estate and gift taxes, income from the Federal Reserve, and miscellaneous fees and fines.
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The U.S. tax system is progressive, with higher-income taxpayers facing higher tax rates.

Effective Federal Tax Rates By Type (% of Expanded Cash Income in 2022)

- Excise Tax
- Estate Tax
- Corporate Income Tax
- Payroll Tax
- Individual Income Tax

The U.S. tax system is progressive, with higher-income taxpayers facing higher tax rates.

Effective Federal Tax Rates By Type (% of Expanded Cash Income in 2022)

NOTES: Individual income tax rates for the lowest and second quintiles are negative and are netted against the payroll tax rate. A quintile is one-fifth of the population. In 2022 dollars, the income breaks are: 20% $30,600; 40% $59,700; 60% $105,900; 80% $193,600; 90% $281,800; 95% $409,800; 99% $991,000; 99.9% $4,409,300.

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The top 1 percent of taxpayers generate 24 percent of total federal tax revenues

Share of Federal Tax Revenues

- Top 1 Percent: 24%
- All Other Taxpayers: 76%

NOTES: Federal tax revenues include revenues from the excise tax, estate tax, corporate income tax, payroll tax, and individual income tax. Data are for 2023. Income percentile classes are based on 2022 dollars; a tax unit was in the top 1 percent if its income was $991,000 or higher, as measured by expanded cash income.
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Income growth since 1979 has been larger for high-income earners, even when including transfers and taxes.

Cumulative Growth in Average Income After Transfers and Taxes (2019 Dollars)


Notes: Income after transfers and taxes is comprised of market income plus income from social insurance programs (i.e. Social Security), plus means-tested transfers received (i.e. Medicaid), minus federal taxes.
Tax breaks cost more than any individual government spending program

Budgetary Cost in 2022 (Billions of Dollars)

- **Total Tax Expenditures**: $1.7 Trillion
- **Individual & Corporate Income Tax Revenues**: $3.1 Trillion
- **Social Security**: $1.2 Trillion
- **Defense**: $751 Billion
- **Medicare**: $747 Billion


NOTES: Tax expenditures are deductions, credits, exclusions, and preferential rates. The estimates for tax expenditures reflect the total in the individual and corporate income tax systems; they do not account for any interactive effects of combining various provisions. Medicare spending is net of premiums and payments from the states. Defense represents discretionary defense spending.
### Eight popular tax provisions account for nearly half of annual tax expenditures

<table>
<thead>
<tr>
<th>Major Tax Expenditures</th>
<th>Budgetary Costs (2022)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exclusion of pension contributions and earnings*</td>
<td>$337 billion</td>
</tr>
<tr>
<td>Reduced rates of tax on dividends and long-term capital gains**</td>
<td>$239 billion</td>
</tr>
<tr>
<td>Exclusion of employer contributions for medical insurance and care</td>
<td>$187 billion</td>
</tr>
<tr>
<td>Child Tax Credit (CTC)</td>
<td>$185 billion</td>
</tr>
<tr>
<td>Subsidies for insurance purchased through health benefit exchanges</td>
<td>$76 billion</td>
</tr>
<tr>
<td>Earned Income Tax Credit (EITC)</td>
<td>$69 billion</td>
</tr>
<tr>
<td>Step-up basis of capital gains at death</td>
<td>$55 billion</td>
</tr>
<tr>
<td>20-Percent deduction for certain Pass-through income</td>
<td>$54 billion</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1.2 trillion</strong></td>
</tr>
</tbody>
</table>


**NOTES:** *Estimate includes defined benefit plans and defined contribution plans. **Estimate includes qualified dividends, home sales, and exclusion of small corporate stock. Entries do not sum due to rounding.

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The top 1 percent of taxpayers receive 19 percent of the benefit from individual income tax expenditures.

Distribution of Individual Income Tax Expenditures

- Top 1 Percent: 19%
- All Other Taxpayers: 81%


NOTES: Data are for 2019. Data only include major non-business and non-payroll tax expenditures that are claimed on individual tax returns.
The growing federal debt is projected to reduce family incomes substantially.

Income Loss For a Four-Person Family, on Average (2019 Dollars)

<table>
<thead>
<tr>
<th>Year</th>
<th>Income Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>2028</td>
<td>-$4,000</td>
</tr>
<tr>
<td>2038</td>
<td>-$8,000</td>
</tr>
<tr>
<td>2048</td>
<td>-$16,000</td>
</tr>
</tbody>
</table>


NOTE: The income measures are based on CBO’s projections of real gross national product per person. The income loss is the difference between the income level if debt rises as it does under current law and the income level if debt remains near its current share of gross domestic product.

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Waiting to act raises the cost of stabilizing the debt

Size of Annual Budget Changes Needed to Stabilize the Debt (% of GDP)

If Fiscal Reforms Begin in...

- **2027**: 3.5%
- **2032**: 4.3%
- **2037**: 5.7%

Waiting to act raises the cost of stabilizing the debt

*Note: Data reflect changes needed to stabilize the debt at 80 percent of gross domestic product by 2052.*