Federal debt is on an unsustainable path

Debt Held by the Public (% of GDP)

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

**Federal Spending and Revenues (% of GDP)**

- **Actual (1985–2019)**
- **Projected (2020–2050)**

**Average Spending**
- 20%

**Average Revenues**
- 15%

**Spending**
- Increasing trend from 2010 to 2030
- Projected to rise steeply from 2030 onwards

**Revenues**
- Fluctuations with a general trend of stability

Net interest costs are projected to rise sharply

**Net Interest (Billions of Dollars)**

10-Year Interest Costs: $5.9 trillion

Interest costs are projected to outpace important investments in our future.

**Federal Spending (% of GDP)**

<table>
<thead>
<tr>
<th>Average Spending (1969–2018)</th>
<th>2019</th>
<th>2039</th>
<th>2049</th>
</tr>
</thead>
<tbody>
<tr>
<td>R&amp;D</td>
<td>2.5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infrastructure</td>
<td></td>
<td>1.8%</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td>5.7%</td>
</tr>
</tbody>
</table>

**Interest Costs**


NOTE: Infrastructure excludes defense.

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Over the past decade, the U.S. spent more on interest on the national debt than it did on other national priorities.
Spending for the major healthcare programs will continue to climb rapidly over the long term

**Federal Spending (% of GDP)**

---


**NOTE:** The major healthcare programs include Medicare (net), Medicaid, the Children’s Health Insurance Program, and spending to subsidize health insurance purchased through the marketplaces established under the Affordable Care Act and related spending.
The elderly population is growing rapidly and living longer

U.S. POPULATION AGE 65+ (MILLIONS)

100
90
80
70
60
50
40
30
20
10
0

1990  2000  2010  2020  2030  2040  2050  2060

Baby Boomers Turn 65

85+
75–84
65–74


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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.

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Total U.S. health spending (public and private) is projected to rise to nearly one-fifth of the economy by 2025.

**National Health Expenditures (% of GDP)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Actual</th>
<th>Projected</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>9%</td>
<td>9%</td>
</tr>
<tr>
<td>1990</td>
<td>12%</td>
<td>12%</td>
</tr>
<tr>
<td>2000</td>
<td>13%</td>
<td>17%</td>
</tr>
<tr>
<td>2010</td>
<td>17%</td>
<td>18%</td>
</tr>
<tr>
<td>2020</td>
<td>18%</td>
<td>19%</td>
</tr>
<tr>
<td>2025</td>
<td>19%</td>
<td></td>
</tr>
</tbody>
</table>


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United States per capita healthcare spending is more than twice the average of other developed countries.

**Healthcare Costs per Capita (Dollars)**

- Spain: $3,323
- United Kingdom: $4,070
- Japan: $4,766
- France: $4,965
- Canada: $4,974
- Germany: $5,986
- Norway: $6,187
- Switzerland: $7,317
- United States: $10,586
- OECD Average: $3,994


**NOTES:** Data are for 2018. 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.
  - Best: Japan
  - Latvia
  - Mexico
  - Japan

- **Infant Mortality**
  - U.S.
  - Mexico
  - Japan

**Quality of Primary Care**

- **Unmanaged Asthma**
  - U.S.
  - Latvia
  - Mexico

- **Unmanaged Diabetes**
  - U.S.
  - Mexico
  - Iceland

**Quality of Acute Care**

- **Safety During Childbirth**
  - U.S.
  - Canada
  - Poland

- **Heart Attack Mortality**
  - U.S.
  - Mexico
  - Iceland

NOTES: Data are not available for all countries for all metrics. Data are for 2018 or latest available.

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As the population ages, fewer workers will be paying taxes to support each Social Security beneficiary.

**Workers per Beneficiary**

<table>
<thead>
<tr>
<th>Year</th>
<th>Workers per Beneficiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970</td>
<td>3.7</td>
</tr>
<tr>
<td>1990</td>
<td>3.4</td>
</tr>
<tr>
<td>2010</td>
<td>2.9</td>
</tr>
<tr>
<td>2030</td>
<td>2.4</td>
</tr>
</tbody>
</table>


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Social Security will run a cumulative cash deficit of $2.9 trillion between now and 2035.

**Social Security Surpluses/Deficits (% of GDP)**

- **Actual**
- **Projected**
  - 2019–2035
  - Deficit: $2.9 Trillion
  - Trust Fund depleted in 2035


**Note:** Surplus/deficit numbers exclude interest income. The total deficit of $2.9 trillion is the present value of the cash deficits between 2019 and 2035. The Old-Age & Survivors Insurance trust fund is projected to be depleted in 2034 and lead to a 23 percent cut in benefits that year; the Disability Insurance trust fund is projected to be depleted in 2052 at which time benefits would be reduced by nine percent.
Low-income seniors rely on Social Security benefits for a major share of their retirement income.

**SOCIAL SECURITY BENEFITS (% OF TOTAL INCOME)**

<table>
<thead>
<tr>
<th>Quintile</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lowest Quintile (Under $13,499)</td>
<td>81%</td>
</tr>
<tr>
<td>Second Quintile ($13,499–$23,592)</td>
<td>81%</td>
</tr>
<tr>
<td>Middle Quintile ($23,592–$39,298)</td>
<td>61%</td>
</tr>
<tr>
<td>Fourth Quintile ($39,298–$72,129)</td>
<td>39%</td>
</tr>
<tr>
<td>Highest Quintile (Over $72,129)</td>
<td>15%</td>
</tr>
</tbody>
</table>


**NOTE:** A quintile is one-fifth of the population. Data are for 2014.
Defense spending accounts for about half of total discretionary spending

2019 Discretionary Outlays: $1,338 Billion

- Defense
- Transportation
- Veterans' Benefits and Services
- Education
- Health
- Administration of Justice
- International Affairs
- General Government
- Housing Assistance
- Natural Resources and Environment
- 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 ($5 billion) is included in Transportation. Agriculture ($6 billion) 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 seven countries combined.

**Defense Spending (Billions of Dollars)**

- **China**: $609 Billion
- **Saudi Arabia**: $300 Billion
- **India**: $200 Billion
- **France**: $200 Billion
- **Russia**: $100 Billion
- **United Kingdom**: $100 Billion
- **Germany**: $100 Billion
- **United States**: $649 Billion


NOTES: Figures are in U.S. dollars, converted from local currencies using market exchange rates. Data for the United States are for fiscal year 2018, which ran from October 1, 2017 through September 30, 2018. Data for the other countries are for calendar year 2018.

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Non-defense discretionary spending funds a wide range of programs

Non-defense Discretionary Outlays in 2019 (Billions of Dollars): $661 Billion

<table>
<thead>
<tr>
<th>Category</th>
<th>Outlay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation</td>
<td>$100</td>
</tr>
<tr>
<td>Education</td>
<td>$72</td>
</tr>
<tr>
<td>Administration of Justice</td>
<td>$59</td>
</tr>
<tr>
<td>General Government</td>
<td>$51</td>
</tr>
<tr>
<td>Housing Assistance</td>
<td>$49</td>
</tr>
<tr>
<td>Veterans' Benefits and Services</td>
<td>$85</td>
</tr>
<tr>
<td>Health</td>
<td>$66</td>
</tr>
<tr>
<td>International Affairs</td>
<td>$52</td>
</tr>
<tr>
<td>Natural Resources and Environment</td>
<td>$44</td>
</tr>
<tr>
<td>General Science, Space, and Technology</td>
<td>$32</td>
</tr>
<tr>
<td>Community and Regional Development</td>
<td>$27</td>
</tr>
<tr>
<td>Training, Employment, and Social Services</td>
<td>$23</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. General government includes central executive and legislative functions as well as the administrative costs of Social Security, Medicare, and income security programs. Energy ($5 billion) is included in Transportation. Agriculture ($6 billion) is included in Natural Resources and Environment. Veterans’ benefits primarily consists of medical and hospital care.
Discretionary spending is projected to remain below its historical average

% of Federal Spending

<table>
<thead>
<tr>
<th>Year</th>
<th>Discretionary Spending</th>
<th>Mandatory Spending and Net Interest Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>24%</td>
<td>39%</td>
</tr>
<tr>
<td>2020</td>
<td>30%</td>
<td>70%</td>
</tr>
<tr>
<td>2030</td>
<td>24%</td>
<td>76%</td>
</tr>
</tbody>
</table>

% of GDP


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The federal government collects revenues from a variety of sources

- **2019 Total Revenues**
  - $3,464 Billion

- **Corporate Income Taxes**: 7%
- **Excise Taxes**: 3%
- **Other**: 3%
- **Customs Duties**: 2%
- **Payroll Taxes**: 36%
- **Individual Income Taxes**: 50%


**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 Rate by Type (% of Cash Income in 2018)**

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

<table>
<thead>
<tr>
<th>Quintile</th>
<th>Lowest Quintile</th>
<th>Second Quintile</th>
<th>Middle Quintile</th>
<th>Fourth Quintile</th>
<th>80–90th Percentile</th>
<th>90–95th Percentile</th>
<th>95–99th Percentile</th>
<th>Top 1 Percent</th>
<th>Top 0.1 Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Tax Rate</td>
<td>3%</td>
<td>8%</td>
<td>12%</td>
<td>16%</td>
<td>18%</td>
<td>20%</td>
<td>22%</td>
<td>30%</td>
<td>31%</td>
</tr>
</tbody>
</table>


**NOTE:** Individual income tax rates for the lowest and second lowest quintiles are negative and are netted against the payroll tax rate. A quintile is one-fifth of the population. In 2018 dollars, the income breaks are: 20% $25,100; 40% $49,300; 60% $85,900; 80% $153,300; 90% $222,900; 95% $319,100; 99% $754,800; 99.9% $3,318,600. Includes both filing and non-filing units but excludes those that are dependents of other tax units.

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The top 1 percent of taxpayers generate 26 percent of total federal tax revenues

NOTES: Data are for 2018. In 2018, a tax unit was in the top 1 percent if its income was $754,800 or higher.
Income growth since 1979 is larger for high-income earners, even when including transfers and taxes

**Average Annual Income After Transfers and Taxes (2016 Dollars)**

- **Top 1 Percent** (incomes up 226%)
- **Top Quintile** (incomes up 100%)
- **Middle Quintile** (incomes up 42%)
- **Lowest Quintile** (incomes up 84%)


NOTES: Increases calculated for 1979–2016. 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. The top quintile includes households that are also in the top 1 percent.

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Total tax expenditures are large in comparison to annual income taxes collected and to the government’s major programs.

**Budgetary Cost in 2019 (Billions of Dollars)**

- **All Tax Expenditures**: $1.5 Trillion
- **Individual & Corporate Income Tax Revenues**: $1.9 Trillion
- **Social Security**: $1.0 Trillion
- **Defense**: $676 Billion
- **Medicare**: $644 Billion


**Notes:** Tax expenditures are deductions, credits, exclusions, and preferential rates. The estimates for tax expenditures 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.

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### Six popular tax provisions accounted for a large majority of annual tax expenditures for individuals

<table>
<thead>
<tr>
<th>Major Individual Tax Expenditures</th>
<th>Budgetary Costs (2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exclusion of pension contributions and earnings*</td>
<td>$250 billion</td>
</tr>
<tr>
<td>Reduced rates of tax on dividends and long-term capital gains</td>
<td>$177 billion</td>
</tr>
<tr>
<td>Exclusion of employer contributions for medical insurance and care**</td>
<td>$153 billion</td>
</tr>
<tr>
<td>Child Tax Credit</td>
<td>$118 billion</td>
</tr>
<tr>
<td>Earned Income Tax Credit (EITC)</td>
<td>$70 billion</td>
</tr>
<tr>
<td>Subsidies for insurance purchased through health benefit exchanges</td>
<td>$53 billion</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$821 billion</strong></td>
</tr>
</tbody>
</table>


**NOTE:** *Includes defined benefit plans, defined contribution plans, plans covering partners and sole proprietors, and IRAs. **Estimate includes employer-provided health insurance purchased through cafeteria plans and TRICARE medical insurance.

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The top 1 percent of taxpayers receive 24 percent of the benefit from individual income tax expenditures.

Distribution of Individual Income Tax Expenditures

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

NOTES: Data are projected for 2019. Data only includes non-business tax expenditures that are claimed on individual tax returns.

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The growing federal debt is projected to reduce family incomes substantially.

**INCOME LOSS FOR A FOUR-PERSON FAMILY, ON AVERAGE (2019 DOLLARS)**

- 2028: -$4,000
- 2038: -$8,000
- 2048: -$16,000


**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 2020: 1.8%
- If Fiscal Reforms Begin in 2025: 2.2%
- If Fiscal Reforms Begin in 2030: 2.7% (50% larger than 2020)

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Solutions Initiative 2019: Projected federal debt

DEBT HELD BY THE PUBLIC (% OF GDP)