10-K REPORT

PUBLISHED 2020

FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 2017

UNITED STATES GOVERNMENTS

PREPARED BY



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As of September 30, 2017, the aggregate value of debt securities issued by the federal, state, and local governments of the United States combined and held by the public was \$16.8 trillion.

United States Governments

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For the Fiscal Year Ended September 30, 2017

Index

		Page
PART I		
	About This Report	1
Item	1. Purpose and Function of Our Government	2
Item	1A. Risk Factors	60
Item	2. <u>Properties</u>	68
Item	3. <u>Legal Proceedings</u>	72
PART II		
Item	5. <u>Selected Financial Data</u>	72
Item	7. Management's Discussion and Analysis of Financial Condition and Results of Operations	73
Item	7A. Quantitative and Qualitative Disclosures about Market Risk	165
Item	3. Financial Statements and Supplementary Data	168
Item	PA. Controls and Procedures	219
PART III		
Item	10. Executive Officers and Governance	219
Item	11. Executive Officer Compensation	220
Item	13. Certain Relationships and Related Transactions, and Director Independence	221
PART IV		
ltem	15. Exhibits	221

Part I

About This Report

Purpose

This report is intended to provide the American people with a comprehensive view of the combined US federal, state, and local governments' (our Government) revenues, expenditures, key metrics that measure progress towards our constitutional objectives, and the factors that may affect future operations of our Government. It is intended to foster a more constructive and reasoned public debate by providing an authoritative and comprehensive set of data from Government sources on certain facets of our Government: how it raises money, for what purpose, and how it spends that money; actions that it takes through its authorities; and related key metrics. Greater transparency will help voters judge the effectiveness of our Government's programs, improving the accountability that is essential to a well-functioning democracy. A more civil and rational public debate will enable us to define our goals as a society and choose the best people and policies to carry out those goals.

This report is not intended to provide our opinion on our Government's efficiency or effectiveness. Rather, it is intended to provide the data necessary for you to develop your own opinions.

Structure and content

Other individuals and groups have created reports with similarities to this one; however, we are not aware of a document for our Government that has the scope and perspective of this one. We have discussed some of the reports with similarities to ours in Exhibit 99.09.

Overall structure and content

This report is modeled on the Form 10-K, which public companies are required to file annually with the US Securities and Exchange Commission (SEC). In preparing the report, we have conceptualized the requirements of the Form 10-K and applied them to our Government. Our goal is to bring the same level of transparency, accuracy, and lack of bias to our Government that public corporations are required to offer their shareholders.

Of course, our Government is not a corporation; its purpose is not to make a profit but to provide services to its citizens that improve the quality of life. But this Form 10-K format does have the advantage of providing a thorough account of government finances, structure, and activities.

In this report, you will find:

- Part I an overview of our Government's structure and operations;
- Part II information regarding financial and other key metrics of our Governments' operations, including:
 - Management's Discussion and Analysis (MD&A), which provides analysis of financial and other information, including trends in revenue, expenditures, and key metrics; and
 - financial statements and the related notes to the financial statements; and
- Part III information regarding our Government's officers and certain relationships and transactions.

We have excluded certain sections of Form 10-K that are not obviously applicable to our Government. We have also excluded certain financial statements normally found in a Form 10-K. See Exhibit 99.10 for a discussion of this excluded content.

Timeliness of data

Information included in each section of this report is generally based on the most current information from government sources for the majority of the data in the particular section.

Part II of this report generally includes information through September 30, 2017, which marks the end of the latest fiscal year for which aggregated state and local income statement data is available. More recent federal data is available, but to provide a consolidated picture of our Government as a whole, we generally limit the financial data we present to the latest period for which both state and local and federal data is available. We acknowledge that this information is not timely. We do, however, believe that there is value in looking at a longer time series of data, as we have presented in this report and on our website, and that the longer-term trends noted in our analyses likely did not change materially between fiscal years 2017 and 2019. We will continue to search for more current data and explore ways that we might aggregate it ourselves to provide more timely information.

In general, Parts I and III of this report include more recent data, with dates depending on availability of the majority of the respective data.

Item 1. Purpose and Function of Our Government

General

Who we are

The United States of America (US) is a federal republic composed of 50 states, a federal district of Washington, D.C., five major and various minor insular areas, as well as over 90,000 local governments, including counties, municipalities, townships, school districts, and special district governments. At 3.8 million square miles and with 325 million people, the US is the world's third-largest country by total area and the third most populous.

Our vision and mission

As documented in the US Constitution, the people of the US, through our Government, seek to form a more perfect union by establishing justice, ensuring domestic tranquility, providing for the common defense, promoting the general welfare, and securing the blessings of liberty to ourselves and our posterity.

Our strategy

To achieve the mission of the people, our Government raises money, spends money, and exercises its authority. Through these actions, it enables, incentivizes, and forces certain behaviors (e.g. saving for retirement through Social Security and Medicare, attending minimum years of school, getting vaccinated) in an effort to maintain or improve various key metrics related to American life.

Raising and spending money

Our Government raises money through taxes and non-tax sources, including businesses it runs. This money is used to pay government expenditures and to transfer money to individuals and others. At the federal level, when the money raised is not sufficient to cover the money spent (most years), the US Department of the Treasury may borrow money to finance the difference. States may borrow funds for projects but may not borrow to fund annual deficits, except Vermont, where its constitution does not preclude it from doing so.

Exercising authority

Our Government exercises its authority directly by regulating, legislating, and issuing executive orders and court orders. It also grants authority to, and rescinds it from, government agencies and state and local governments.

See more at Government operations below.

Government structure

The US is a constitutional republic and representative democracy. Our Government is regulated by a system of checks and balances defined by the US Constitution, which serves as the country's supreme legal document. In the US, citizens are usually subject to three levels of government: federal, state, and local. The original text of the Constitution establishes the structure and responsibilities of the federal government and its relationship with the individual states. The Constitution has been amended 27 times, including the first 10 amendments, the Bill of Rights, which forms the central basis of Americans' individual rights.

Federal government structure

The Constitution divides the federal government into three branches to ensure a central government in which no individual or group gains too much control:

- Legislative Makes laws (Congress)
- Executive Carries out laws (President, Vice President, Cabinet)
- Judicial Evaluates laws (Supreme Court and other courts)

Each branch of government can change acts of the other branches as follows:

- The president can veto legislative bills passed by Congress before they become law (subject to Congressional override).
- Congress confirms or rejects the president's appointments and can remove the president from office in exceptional circumstances.
- The justices of the Supreme Court, who can overturn unconstitutional laws, are appointed by the president and confirmed by the Senate.

Legislative

The legislative branch enacts legislation, confirms or rejects presidential appointments, and has the authority to declare war. This branch comprises Congress (the Senate and House of Representatives) and several agencies that provide support services to Congress.

Executive

The executive branch carries out and enforces laws. It includes the president, vice president, the Cabinet, 15 executive departments, independent agencies, and other boards, commissions, and committees.

Judicial

The judicial branch interprets the meaning of laws, applies laws to individual cases, and decides if laws violate the Constitution. The judicial branch comprises the Supreme Court and other federal courts.

THE UNITED STATES GOVERNMENT

THE CONSTITUTION

LEGISLATIVE BRANCH

THE CONGRESS SENATE | HOUSE

100 Senators 435 Representatives

Architect of the Capitol
United States Botanic Garden
Government Accountability Office
Government Printing Office
Library of Congress
Congressional Budget Office
US Capitol Police

EXECUTIVE BRANCH

THE PRESIDENT THE VICE PRESIDENT EXECUTIVE OFFICE OF THE PRESIDENT

15 Cabinet Members

White House Office
Office of the Vice President
Council of Economic Advisers
Council on Environmental Quality
National Security Council
Office of Administration
Office of Management and Budget
Office of National Drug Control Policy
Office of Policy Development
Office of Science and Technology Policy
Office of the US Trade Representative

JUDICIAL BRANCH

THE SUPREME COURT OF THE UNITED STATES

9 Justices

United States Courts of Appeals
United States District Courts
Territorial Courts
United States Court of International Trade
United States Court of Federal Claims
Administrative Office of
the United States Courts
Federal Judicial Center
United States Sentencing Commission

SIGNIFICANT REPORTING ENTITIES (15)

DEPARTMENT OF AGRICULTURE

DEPARTMENT OF COMMERCE

DEPARTMENT OF DEFENSE

DEPARTMENT OF EDUCATION

DEPARTMENT OF ENERGY

DEPARTMENT OF HEALTH

DEPARTMENT OF

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

DEPARTMENT OF THE INTERIOR

DEPARTMENT OF JUSTICE

AND HUMAN SERVICES

DEPARTMENT OF LABOR

HOMELAND SECURITY
DEPARTMENT OF STATE

DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF THE TREASURY

DEPARTMENT OF VETERANS

AFFAIRS

OTHER SIGNIFICANT REPORTING ENTITIES

Environmental Protection Agency General Services Administration National Aeronautics and Space Administration National Science Foundation Office of Personnel Management Small Business Administration Social Security Administration US Agency for International Development US Nuclear Regulatory Commission
Defense Security Cooperation Agency
Export-Import Bank of the United States
Farm Credit System Insurance Corporation
Federal Communications Commission
Federal Deposit Insurance Corporation
General Fund of the US Government
Millennium Challenge Corporation

National Credit Union Administration Overseas Private Investment Corporation Pension Benefit Guaranty Corporation Railroad Retirement Board Securities and Exchange Commission Smithsonian Institution Tennessee Valley Authority US Postal Service

IN CONSERVATORSHIP

Fannie Mae

Freddie Mac

SIGNIFICANT RELATED ENTITIES

The Federal Reserve Federal Home Loan Banks The Farm Credit System

For a discussion of each of the federal government departments and offices, please see *The United States Government Manual* at https://www.govinfo.gov/app/collection/GOVMAN.

State government structure¹

Under the Tenth Amendment to the US Constitution, all powers not granted to the federal government are reserved to the states and the people. All state governments are modeled after the federal government and consist of three branches: executive, legislative, and judicial. The US Constitution mandates that states uphold a "republican form" of government, although the three-branch structure is not required.

Legislative

All 50 states have legislatures made up of elected representatives, who consider matters brought forth by the governor or introduced by its members to create legislation that becomes law. The legislature also approves a state's budget and initiates tax legislation and articles of impeachment. The latter is part of a system of checks and balances among the three branches of government that mirrors the federal system and prevents any branch from abusing its power.

Every state except one has a bicameral legislature made up of two chambers: a smaller upper house and a larger lower house. Together the two chambers make state laws and fulfill other governing responsibilities. The smaller upper chamber is always called the Senate, and its members generally serve longer terms, usually four years. The larger lower chamber is most often called the House of Representatives, but some states call it the Assembly or the House of Delegates. Its members usually serve shorter terms, often two years. Nebraska is the lone state that has just one chamber in its legislature.

Executive

In every state, the executive branch is headed by a governor who is directly elected by the people. In most states, other leaders in the executive branch are also directly elected, including the lieutenant governor, the attorney general, the secretary of state, and auditors and commissioners. States reserve the right to organize in any way, so they often vary greatly with regard to executive structure. No two state executive organizations are identical.

Judicial

Most states have a supreme court that hears appeals from lower-level state courts. Court structures and judicial appointments/elections are determined either by legislation or by the state constitution. The state supreme court usually focuses on correcting errors made in lower courts and therefore holds no trials. Rulings made in state supreme courts are normally binding; however, when questions are raised regarding consistency with the US Constitution, matters may be appealed directly to the United States Supreme Court.



STATE GOVERNMENTS (50)

LEGISLATIVE BRANCH

EXECUTIVE BRANCH

JUDICIAL BRANCH

ELECTED REPRESENTATIVES TO UPPER AND LOWER HOUSES:

SENATE HOUSE (Except Nebraska) GOVERNOR

Most states also elect: LIEUTENANT GOVERNOR ATTORNEY GENERAL SECRETARY OF STATE AUDITORS AND COMMISSIONERS STATE SUPREME COURT

Appellate Courts
Trial Courts

Local government structure²

A government is an organized entity that, in addition to having governmental character, has sufficient discretion in the management of its own affairs to distinguish it as separate from the administrative structure of any other governmental unit.

To be counted as a government, any entity must possess all three of the following attributes:

- Existence as an organized entity the presence of some form of organization and the possession of some corporate powers, such as perpetual succession, the right to sue and be sued, have a name, make contracts, acquire and dispose of property, and the like.
- Governmental character In essence, an organization can only be considered to be a government if it provides services, wields authority, or bears accountability that is of a public nature.
- Substantial autonomy This requirement is met when, subject to statutory limitations and any supervision of local governments by the state, an entity has considerable fiscal and administrative independence.

LOCAL GOVERNMENTS (90,075) GENERAL PURPOSE GOVERNMENTS SPECIAL DISTRICT GOVERNMENTS (51,296)(38,779)Independent School Districts (12,754) County (3,031) Municipality (19,495) Other Special Districts (38,542) Township (16,253) Air transportation Libraries Mortgage credit Cemeteries Corrections Natural resources Electric power Parking facilities Parks and recreation Fire protection Sea and inland port facilities Gas supply Health Sewerage Highways Solid waste management Hospitals Transit Housing and community development Water supply Industrial development

Insular area government structure

The US has many insular areas, or jurisdictions that are neither a state nor a federal district, including any commonwealth, freely associated state, possession, or territory. Five of the insular areas – Puerto Rico, Guam, Northern Mariana Islands, US Virgin Islands, and American Samoa – are self-governing, each with a non-voting member of the House of Representatives and permanent populations. The remaining areas are small islands, atolls, and reefs in the Pacific Ocean and Caribbean Sea. US possession of certain of these areas is disputed by other countries. The population of these areas are excluded from our reported population figures. However, these individuals may contribute to the revenues, expenditures, and other figures included in this report.

American Indian tribal government structure

Our Government officially recognizes 573 Indian tribes in the contiguous 48 states and Alaska. The US observes tribal sovereignty of the American Indian nations to a limited degree, as it does with the states' sovereignty. American Indians are US citizens and tribal lands are subject to the jurisdiction of the US Congress and the federal courts. Like the states, the tribal governments have a great deal of autonomy with respect to their members, including the power to tax, govern, and try them in court, but also like the states, tribes are not allowed to make war, engage in their own foreign relations, or print and issue currency.

Government operations

Our Government has a few tools by which it carries out its mission:

Raises money – taxes, mandates savings, licenses, and charges fees and fines for dedicated and general-purpose
uses;

- Spends money employs people, invests in equipment and infrastructure, contracts services, disburses savings to seniors, transfers money to and subsidizes services for the poor, subsidizes businesses and individuals directly;
- Regulates, legislates, issues executive orders and court orders makes rules, delegates or rescinds authority, incentivizes and forces behavior (e.g. save for retirement through Social Security and Medicare, buy health insurance, attend minimum years of school, get vaccinated); and
- Runs businesses operates post offices, transit systems, hospitals, etc., sometimes at a financial loss.

Our Government performs the above activities in an effort to maintain or improve various key metrics related to American life

Federal government authority to raise money

Tax revenue³

For most taxes, Congress does not need to pass a new law every year authorizing the IRS to collect. They continue to operate as established unless Congress chooses to change the law. Some changes to tax laws can occur in a given year because Congress previously enacted a timeline for the law to change at some specified point in time. For example, Congress often enacts sunset provisions on certain tax breaks or new programs to take effect at some date in the future. That is, they are scheduled to change unless Congress acts again.

Federal individual income tax

The individual income tax is the largest source of revenue for the federal government and the single biggest tax paid by Americans (in aggregate). The federal individual income tax is levied on most sources of individual income with some notable exceptions, such as employer-provided health insurance premiums. Taxes are levied based on a progressive rate structure, with rates that range from 10% to 39.6% for the periods presented in this report and that increase as taxable income increases. People who file tax returns may qualify for some tax credits, such as the child tax credit, the earned income tax credit, and education tax credits, among others. Some credits are refundable, meaning that a filer may receive a refund that is larger than the amount of income tax withheld.

Beginning in 2013, an additional income tax is levied on individuals – the Unearned Income Medicare Contribution Tax, which provides for a 3.8% tax on net investment income for those whose earnings exceed certain levels. This provision was enacted as part of the Affordable Care Act and went into effect January 1, 2013. Despite its name, this tax revenue is not legally earmarked to the Medicare trust funds; rather, it is used for general government purposes. In this report, this tax is included in individual income tax revenue.

On December 22, 2017, H.R.1, also known as the Tax Cuts and Jobs Act, became law. Effective January 1, 2018, H.R. 1 reduces the top individual income tax rate from 39.6% to 37%, changes the income tax brackets associated with each tax rate, increases the child tax credit, and provides for a 20% deduction of qualified business income and certain dividends for individuals.

Federal corporate income tax

The federal corporate income tax is levied on the net incomes of C-corporations (corporations recognized as separate taxpaying entities). C-corporations are allowed deductions for normal business expenditures that are typical of accounting for net income as well as some special provisions inserted by Congress. The federal statutory corporate income tax rate in the US was 35% until January 1, 2018. For companies headquartered in the US that earn income from overseas sources, such income was taxed only when repatriated back to the US. Effective January 1, 2018, H.R. 1 reduces the federal statutory income tax rate from 35% to 21%. H.R. 1 also requires foreign income of US businesses to be taxed at 21% but provides one-time reduced tax rates for foreign profits accumulated in the form liquid assets (15.5% tax rate) and illiquid assets (8% tax rate) if the assets are brought to the US.

PART I Item 1

Not all business profits are subject to the corporate income tax. Income derived from S-corporations (closely-held corporations), partnerships, sole proprietorships, and real estate investment trusts is only subject to tax under the federal individual income tax.

Federal payroll taxes

Federal payroll taxes to finance Social Security and Medicare are levied on both employees and employers.

Social Security tax revenues

Social Security tax revenues are earmarked for the Social Security Trust Fund, which funds both Old-Age Survivors Insurance (OASI) and Disability Insurance (DI). See discussion of OASI and DI in *Major Government Programs, Social Security* below. Individuals and employers each pay a 6.2% tax (5.3% for OASI and 0.9% for DI) on payrolls (wages and salaries and self-employment income) up to the payroll tax cap, for a total of 12.4%. Beyond the payroll tax cap, there is no Social Security tax. In tax year 2019, the payroll tax cap was \$132,900 per employee. In the case of self-employed individuals, a tax equal to the employee plus the employer portion (12.4%) is levied.

Medicare tax revenues

Medicare tax revenues are earmarked to the Hospital Insurance Trust Fund portion of Medicare (HI Trust Fund). Employees and employers each pay a 1.45% tax on payrolls (wages and salaries) with no cap. People who are self-employed pay both the employee and the employer portion for a total of 2.9%. In addition, beginning in 2013, individuals pay an additional 0.9% Medicare tax on their wages, compensation, or self-employment income exceeding \$200,000 for single filers (\$250,000 for married filing jointly, \$125,000 for married filing separately).

Unemployment tax revenues

Together with state unemployment tax systems, the Federal Unemployment Tax Act (FUTA) tax provides funds to pay unemployment compensation to workers who have lost their jobs. Only employers pay a FUTA tax, and most pay both a federal and a state unemployment tax. Generally, employers can take a credit against FUTA tax amounts they have paid to state unemployment funds. For 2019, the FUTA tax rate is 6% on the first \$7,000 paid to each employee as wages during the year.

Other taxes

The federal government levies other taxes including:

- excise taxes on select products such as motor fuel, airport usage, tobacco, and alcohol, among others;
- tariffs and duties charged for certain products imported from certain other countries;
- special taxes on some participants in the medical industry, such as medical device manufacturers, pharmaceutical companies, and health insurers, as well as penalties related to health insurance mandates on employers and individuals; and
- taxes on the estates of high net-worth individuals after they die.

Non-tax revenue

Federal non-tax revenue comprises mainly earnings of the Federal Reserve and sales of government resources.

Federal Reserve earnings

The residual earnings of each of the 12 Federal Reserve member banks are distributed to the Treasury after providing for the costs of operations, payment of dividends, and transfers to surplus (the amount necessary to equate surplus with capital paid-in, limited to \$6,825,000,000).⁴ See additional discussion of the Federal Reserve in *Other related entities, The Federal Reserve* below.

Sales of government resources

The largest portion of revenue from sales of government resources is made up of rents and royalties on leases of oil, gas, and other marine minerals on the outer continental shelf. Our Government also receives proceeds from auctions of licenses for the rights to transmit signals over the electromagnetic spectrum.

Receipts that offset expenses

Our Government records money collected in one of two ways, either as revenue or as a reduction of expenditures. Those recorded as revenue are discussed under *Tax revenue* and *Non-tax revenue* above. Those recorded as reductions of expenditures derive mainly from business-like transactions with the public. Unlike revenues, which are derived from our Government's exercise of its sovereign power, these collections arise primarily from voluntary payments from the public for goods or services provided by our Government. The collections are classified as offsets to government outlays for the cost of producing, marketing, and delivering the goods or services for sale. These activities include the sale of postage stamps, land, timber, electricity, and services to the public (e.g. admission to national parks), as well as premiums for healthcare benefits (e.g. Medicare Parts B and D).

We have shown all significant offsetting amounts that are known to us in *Note 24 – Offsetting amounts* in *Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements* within this annual report. Certain amounts have already been offset in the federal financial data before we sourced it and therefore the related gross amounts are not available to us for disclosure in *Note 24 – Offsetting amounts*.

Federal government authority to spend money

To understand federal authority to spend money, the first step is to divide spending laws into two different categories: those that do not require action every year (mandatory, generally) and those that do (discretionary, generally).

Mandatory spending

For most mandatory spending programs, as with most taxes, Congress does not need to pass a new law every year authorizing major programs like Medicare and Social Security to continue sending out checks. They continue to run as established unless Congress chooses to change the law. Some changes to mandatory spending programs can occur in a given year because Congress previously enacted a timeline for the law to change at some specified point in time.

For mandatory spending programs, unlike discretionary programs which are discussed next, it is important to note that the amount to be spent is unknown at the beginning of the year. For example, the amount that is spent on SNAP (food stamps) or unemployment insurance in a given year depends on the number of people who qualify based upon the program's rules and then decide to make claims for benefits. This will vary depending on conditions such as inflation, economic growth, and shifting demographics, among other factors. There is no upper limit in the law on how much can be spent on these mandatory programs, and in fiscal year 2017, they accounted for approximately 70% of outlays (including interest on federal debt), limiting the flexibility of Congress and the president to decide spending and policy priorities.

Discretionary spending

For discretionary spending, Congress must first create a program and then fund it on a regular basis; otherwise, the program ceases to exist. The funding of discretionary programs is called the appropriations process. Appropriations passed by Congress and signed into law by the president grant agencies budget authority to spend some fixed amount of money for a specific purpose over a specified period (one year to indefinitely, with the majority within three years). When those funds are exhausted, no more money can be spent for that purpose by that department unless Congress acts again.

State and local government authority to raise money

Tax revenue

Like the federal government, state governments do not need to pass a new law every year authorizing the state departments of revenue to collect. They continue to run as established until changes are approved, generally either through committee review followed by approval by the governor or a vote by the citizens. Certain states have constitutional restrictions on their authority to tax. For example, seven states have no individual income tax, while other states have caps on the taxes that can be levied, such as Proposition 13 in California, which limits real property taxes in California. Some changes to tax laws can occur in a given year because a state government previously enacted a timeline for the law to change at some specified point in time.

A local government's authority to tax must be granted to it by its state government.

State and local individual income tax

Individual income taxes are levied by most states with the tax base generally defined by federal income tax regulations (with some exceptions). State income tax rates are generally lower and less progressive than the federal income tax. Seven states do not have an individual income tax, while the other states differ in terms of their individual income tax rate levels and the degree of progressivity. The Wisconsin Legislative Fiscal Bureau published an informational paper in 2019, which reports that for tax year 2017: "The highest marginal tax rate used by a state was 12.3% in California. Missouri had the greatest number of tax brackets at 10. Nine states imposed a single (flat) tax rate on all taxable income, while one state (Massachusetts) had two flat tax rates, each of which applied to different types of income." You can see more detail by state at the source provided.

With respect to the impact of combined state and local government taxation of individual income, the government of the District of Columbia performs a nationwide study of the tax burdens of 51 US cities. For 2018, it found: "In twenty-three of the cities that are in states that levy an income tax, the percentage of income paid in individual income taxes by the family earning \$25,000 per year is zero percent (or less than zero due to refundable credits). Notably, residents of Burlington, Vermont would receive a refundable income tax credit of \$4,207, making it by far the lowest income tax burden on a family earning \$25,000 per year. The highest income tax burden at this lower income level is 6.95% in Philadelphia, Pennsylvania, and next at 4.9% in Louisville, Kentucky. At the \$150,000 income level, the burden ranges from a low of 1.3% of income in Fargo, North Dakota, to 7.8% in New York City, New York. (The New Hampshire and Tennessee income taxes are applicable only to interest and dividend income and the exemptions are high enough to eliminate individual income taxes at all income levels used in the study)."⁶

State and local corporate income tax

Most states levy corporate income taxes that are significantly lower than federal income taxes. State corporate income taxes vary in two key dimensions: (1) rates and (2) apportionment factors. In 2018, Iowa, Pennsylvania, Minnesota, Illinois, Alaska, and New Jersey had the highest statutory corporate income tax rates, each at 9% or higher. Because major corporations operate across state lines, each must apportion its net income to each state. However, states have different rules as to how companies must apportion their income between states. Generally, there are three factors whose weights differ across states, with weight attributed to a state based on: property held in the state, payroll paid to employees in the state, and sales to customers in the state.

Property taxes

Local governments levy property taxes on real estate and business property (and in some states, on personal property such as automobiles). Nationally, for owner-occupied housing, the typical real estate tax rate paid is approximately 1% of the home value. In 2018, for the largest city in each state as a group, the median effective residential property tax rate was 1.38%, while the unweighted average rate was 1.56%. These tax rates vary widely by city and state. In 2018, the highest effective residential property tax rate, among the largest cities in each state, was in Detroit, MI at 3.58%, while the lowest was in Honolulu, HI at 0.35%.

General sales taxes

General sales taxes, or taxes that are applied at a consistent rate to purchases of all non-exempted items, are a key source of revenue for most states and many localities. Arkansas, Louisiana, Colorado, and Arizona have the highest combined state and local general sales tax rates. New Hampshire, Alaska, Delaware, Oregon, and Montana have no statewide general sales tax. In most states, items such as food and medical products are either exempt from general sales taxes or are taxed at a lower rate. Services such as housing, healthcare, and education are generally exempt. Sales taxes tend to be regressive, meaning that low-income households tend to pay a higher percentage of their income in sales taxes than high-income households. However, because of the exemptions or preferential treatment for many household necessities in most general sales taxes, sales taxes are not as regressive as a broad-based consumption tax. Furthermore, goods and services provided by our Government to low-income households, such as food assistance benefits, those transactions are tax exempt.

Other taxes

State governments levy other taxes including:

- selective sales taxes on specific products, both on a per unit basis and based on the value of the product, including taxes on alcoholic beverages, tobacco products, insurance receipts, public utilities, motor fuels, gambling, and others;
- licenses, including those for motor vehicle and operator registration, hunting and fishing, general business, occupational, alcoholic beverage, and gambling; and
- severance taxes on the extraction of specified natural resources, including oil, coal, and gas in states such as Alaska, Louisiana, and West Virginia, and timber in states such as Washington and Oregon.

Non-tax revenue

State non-tax revenue comprises mainly earnings and losses on investments, mostly investments of Public Employee Retirement Systems assets. State non-tax revenue also includes: proceeds from sales of government resources, including rents and royalties primarily from commercial activity on state land such as leasing of state-owned office buildings and mineral extraction on state-owned land; donations to our Government; and fines and forfeitures.

State and local government authority to spend money⁷

State budgets are approved anew each year. Certain items carry over but must be reauthorized as a part of the full budget. According to a survey by the National Association of State Budget Officers (NASBO), 30 states report using an annual budget cycle and 20 states report using a biennial budget cycle, while in practice a number use a combination of annual and biennial budgeting.

The state budget cycle typically begins with the state budget office providing guidance, including financial assumptions such as spending targets, inflation, and the governor's priorities, to state agencies. Agencies submit requests back to the state budget office. After review and analysis of the agencies' budget requests, the budget office staff make recommendations to the governor on the overall budget proposal. The governor reviews the recommendations and often provides additional direction, which the budget office uses to compile the governor's proposed budget. The governor then usually presents the proposed budget to the legislature for review. Typically, each chamber of the legislature approves its own version of the budget, and a conference committee is appointed to resolve the differences between the two versions.

Once the legislature passes the budget, generally the governor must sign it in order for it to become law. If the governor does not approve of the budget, he or she may veto the bill(s). The legislature generally has the power to override the governor's veto, though this usually requires a super-majority vote.

According to NASBO, "The governor is required to submit a balanced budget in 44 states, the legislature is required to enact a balanced budget in 41 states, and the budget signed by the governor is required to be balanced in 40 states. Eleven states indicated that they are permitted to carry over a budget deficit in certain conditions."

A local government's authority to spend must be granted to it by its state government.

Other related entities

The entities discussed in this section are legally separate from our Government but are related to it in important ways, generally through subsidies or other transactions with our Government and either explicit or implicit guarantees of these organizations by our Government. Transactions between these entities and our Government are included in our financial statements, while the financial statements of these entities themselves are excluded.

The Federal Reserve⁸

The Federal Reserve System, created by Congress in 1913, is the US central bank. Although the Federal Reserve is supervised by Congress, its monetary policy decisions aren't subject to approval either by Congress or the president. It carries out the following functions:

- conducts monetary policy with the twin goals of ensuring full employment and low and stable inflation;
- supervises and regulates commercial banks to ensure the safety and soundness of the financial system and to protect the credit rights of consumers;
- maintains the stability of the financial system and contains so-called systemic risk; and
- provides financial services to banks and the federal government.

The Federal Reserve aims to keep US employment at the highest level consistent with low and stable inflation. It currently has an inflation goal of 2%. It seeks to meet its goals by influencing the level of interest rates, or the cost of borrowing money, across the economy. Lower interest rates stimulate the economy by encouraging consumers to buy goods and employers to invest in equipment. Higher rates cool the economy by discouraging consumption and investment.

The Federal Reserve influences borrowing costs by using tools to maintain a target range for the federal funds rate, or the rate that banks pay to borrow from one another in the overnight money markets. (Banks must borrow overnight funds if the amount of money they hold in reserve at the Federal Reserve falls short of the level required by the central bank.) The federal funds rate, in turn, influences a broad array of interest rates for consumer and business credit, from corporate loans to mortgages. The Federal Reserve uses the following tools to target the federal funds rate:

- Open-market operations The central bank buys and sells short-term Treasury securities from banks. In doing
 so, it influences the overall level of reserves in the banking system, which in turn affects the price of reserves, or
 the federal funds rate.
- Interest on excess reserves The Federal Reserve is empowered by Congress to pay interest on the reserves that
 banks hold at the central bank in excess of the required level. By paying interest on excess reserves, the Federal
 Reserve encourages banks to keep that money on deposit at the central bank, rather than lend it out to
 consumers or businesses.

The Federal Reserve has other tools for influencing longer-term interest rates. These include:

- Large-scale asset purchases During the 2008 financial crisis, the Federal Reserve cut the federal funds rate almost to zero, but longer-term rates remained higher than it wanted. In response, the Federal Reserve started buying trillions of dollars of longer-term Treasury securities and housing debt, pushing down the yields on those securities.
- Forward guidance After each policy meeting, the Federal Reserve issues a statement describing its view of the economy and explaining its current policy stance. These statements may contain language about the outlook for the federal funds rate, which can influence the level of longer-term rates.
- Quarterly forecasts In addition to its policy statements, the Federal Reserve announces policy makers' forecasts for the federal funds rate and the pace of economic growth, inflation, and the unemployment rate. These quarterly forecasts affect investor perceptions of the future path of interest rates.

The Federal Reserve System is composed of the seven-person Board of Governors, which is based in Washington, D.C., and 12 regional Federal Reserve Banks based in major cities across the country, from Boston to San Francisco. Together, the members of the Board of Governors and five presidents of regional Federal Reserve Banks make up the Federal Open Market Committee (FOMC), which conducts monetary policy.

The Federal Reserve receives no appropriations from Congress, and its income consists primarily of interest earned on its holdings of Treasury and other US government agency securities. By law, national banks are members of the Federal Reserve System. State-chartered banks that meet certain requirements may also choose to join. Member banks must subscribe to stock in the regional Reserve Banks. The profits of the Federal Reserve are contributed to the Treasury and are included in non-tax revenues in our income statements.

Federal Reserve balance sheets

(In billions)			
December 31,	2016	2017	2018
Assets			
Treasury securities	\$ 2,641	\$ 2,633	\$ 2,338
Agency- and GSE-backed securities	1,805	1,815	1,645
Debt securities	4,446	4,448	3,983
Other assets	288	283	253
Total assets	\$ 4,734	\$ 4,731	\$ 4,236
Liabilities and net worth			
Depository institution reserves	\$ 1,754	\$ 1,949	\$ 1,556
Deposits and currency	1,957	1,897	2,160
Security repurchase agreements	725	564	304
Other liabilities	120	130	114
Total liabilities	4,556	4,540	4,134
Net worth	178	191	102
Total liabilities and net worth	\$ 4,734	\$ 4,731	\$ 4,236

Government-sponsored enterprises

A government-sponsored enterprise (GSE) is a financial services corporation created by the US Congress for public policy purposes. Its intended function is to enhance the availability, and reduce the cost of, credit to the targeted borrowing sectors, primarily agriculture, home finance, and education.

Government-sponsored enterprise financial statements are not included in our financial statements because GSEs are private companies. However, because of their public purpose, we discuss them here. In addition, though they are not government entities, our Government may help determine policy, provide oversight, and appoint board members to the organizations. Even though GSE securities are not explicitly backed by the federal government, their importance to our Government may lead them to be implicitly backed; our Government may bail them out if they are in financial distress, as was done in 2008 with Fannie Mae and Freddie Mac (see Conservatorship below). Within our combined income statements, payments for these bailouts are included in economy and infrastructure within *Promote the general welfare expenditures* if they are general purpose bailouts made directly to financial institutions or in each respective segment's expenditures if the bailout relates to a specific area. For example, housing bailouts are in general housing support expenditures, while student loan bailouts are in education expenditures, both within *Secure the blessings of liberty to ourselves and our posterity expenditures*. In addition, certain of these GSEs receive considerable federal and state and local tax benefits.

GSEs consist of Federal Home Loan Banks, the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation, the Federal Agricultural Mortgage Corporation, the Farm Credit System, the Financing Corporation, and the Resolution Funding Corporation. They also included the Student Loan Marketing Association until it was fully privatized in the fourth quarter of 2004. The most significant of these GSEs are described below.

Federal Home Loan Banks⁹

The 11 Federal Home Loan Banks (FHLBanks) are federally-chartered but privately capitalized and independently managed. The FHLBanks serve the public by providing a readily available, low-cost source of funds to FHLBank member banks through advances, which in turn loan money to local institutions that lend directly to borrowers. These funds may be used for residential mortgages, community investments, and other services for housing and community development. In addition, some of the banks provide member banks with a means of enhancing liquidity by purchasing home mortgages through mortgage programs developed for their member banks. Member banks can also borrow from an FHLBank to fund low-income housing. As of December 31, 2017, the FHLBanks had \$732 billion in outstanding advances.

The Federal Housing Finance Agency (FHFA), an independent agency in the executive branch of the US government, supervises and regulates the FHLBanks. The Housing Act created the FHFA with regulatory authority over FHLBank issues such as: board of director composition, executive compensation, risk-based capital standards and prompt corrective action enforcement provisions, membership eligibility for community development financial institutions, and low-income housing goals. The FHFA's mission, with respect to the FHLBanks, is to ensure that the FHLBanks operate in a safe and sound manner so that the FHLBanks serve as a reliable source of liquidity and funding for housing finance and community investment.

The FHLBanks are exempt from all corporate federal, state, and local taxation, except for local real estate tax. However, by regulation, the FHLBanks must annually set aside for the Affordable Housing Program (AHP) the greater of the aggregate of \$100 million or 10% of each individual FHLBank's income subject to assessment. An AHP subsidizes the cost of owner-occupied housing provided that the household's income may not exceed 80% of the area median income, and in the case of rental housing, the household's income in at least 20% of the units may not exceed 50% of the area median income. The subsidy may be in the form of a grant or an advance with a reduced interest rate. AHP funds are primarily available through a competitive application program at each of the FHLBanks. AHP assessments were \$384 million, \$392 million, and \$332 million for the years ended December 31, 2017, 2016, and 2015, respectively.

Fannie Mae and Freddie Mac

Fannie Mae¹⁰

The Federal National Mortgage Association (Fannie Mae) is a GSE that was chartered by Congress in 1938, and in 1968 became a publicly traded company. Its public mission is to support liquidity and stability in the secondary mortgage market, where existing mortgage-related assets are purchased and sold, and to increase the supply of affordable housing. Its charter does not permit it to originate loans or lend money directly to consumers in the primary mortgage market.

Fannie Mae provides reliable, large-scale access to affordable mortgage credit and indirectly enables families to buy, refinance, or rent homes. Fannie Mae securitizes mortgage loans originated by lenders by placing the loans in a trust and issuing Fannie Mae mortgage-backed securities (MBS) comprising these securitized loans, which it then guarantees (Fannie Mae MBS). One of its key functions is to evaluate, price, and manage the credit risk on the loans and securities that it guarantees.

Mortgage loans purchased or securitized by Fannie Mae must meet minimum standards required by its charter:

- conform to maximum original principal limits, known as "conforming loan limits," which are established each year based on the average prices of one-family residences; and
- include credit enhancement on any single-family conventional mortgage loan if the loan-to-value ratio is greater than 80% at the time of purchase. Credit enhancement can take one or more of the following forms: (1) insurance or guarantee by a qualified insurer of the over-80% portion of the unpaid principal balance of the

PART I

mortgage; (2) a seller's agreement to repurchase or replace the mortgage in the event of default; or (3) retention by the seller of at least a 10% participation interest in the mortgage. Regardless of the loan-to-value ratio, the Fannie Mae charter does not require credit enhancement to purchase or securitize loans insured by Federal Housing Administration or guaranteed by the US Department of Veterans Affairs.

Fannie Mae has two primary sources of revenue: (1) the guarantee fees received for managing the credit risk on loans underlying Fannie Mae MBS held by third parties, and (2) the difference between interest income earned on the assets in the retained mortgage portfolio and the interest expense associated with the debt that funds those assets. It also obtains funds to support its business activities by issuing a variety of debt securities in the domestic and international capital markets, which attract global capital to the US housing market.

Fannie Mae is subject to the GSE Act, including government regulation and oversight. The FHFA has general supervisory and regulatory authority over Fannie Mae.

Freddie Mac¹¹

The Federal Home Loan Mortgage Corporation (Freddie Mac) is a publicly-traded GSE chartered by Congress in 1970 with a public mission to provide liquidity, stability, and affordability to the US housing market. Freddie Mac does this primarily by purchasing residential mortgages originated by mortgage lenders. In most instances, Freddie Mac will package these mortgage loans into MBS, which are guaranteed by Freddie Mac and sold in the global capital markets. In addition to selling MBS, Freddie Mac also invests in mortgage loans and mortgage-related securities. Freddie Mac's charter does not permit it to originate mortgage loans or lend money directly to consumers in the primary mortgage market.

Freddie Mac supports the US housing market and the overall economy by: (1) providing America's families with access to mortgage funding at lower rates; (2) helping distressed borrowers keep their homes and avoid foreclosure; and (3) providing consistent liquidity to the multifamily mortgage market, which includes providing financing for affordable rental housing. Freddie Mac is also working with FHFA, its customers and the industry to build a stronger housing finance system for the nation.

Net interest income, comprising interest income (which includes income from loan guarantee fees) less interest expense, is Freddie Mac's primary source of revenue.

Conservatorship¹²

On September 6, 2008, the FHFA used its authority to place Fannie Mae and Freddie Mac into conservatorship. This was in response to a substantial deterioration in the housing markets that severely damaged Fannie Mae's and Freddie Mac's financial condition and left them unable to fulfill their mission without government intervention.

A key component of the conservatorships is the commitment of the Treasury to provide financial support to Fannie Mae and Freddie Mac to enable them to continue to provide liquidity and stability to the mortgage market. The Treasury has provided \$190 billion in support.

In accordance with the Federal Housing Enterprises Financial Safety and Soundness Act of 1992 as amended, FHFA is authorized to "take such action as may be: (i) necessary to put the regulated entity in a sound and solvent condition; and (ii) appropriate to carry on the business of the regulated entity and preserve and conserve the assets and property of the regulated entity."

While FHFA has broad authority over Fannie Mae and Freddie Mac, the focus of the conservatorships is not to manage every aspect of their operations. Instead, FHFA leadership reconstituted Fannie Mae's and Freddie Mac's boards of directors in 2008 and charged them with ensuring that normal corporate governance practices and procedures are in place. The boards are responsible for carrying out normal board functions, which are subject to FHFA review and approval on critical matters. Fannie Mae and Freddie Mac continue to operate legally as business corporations and must follow the laws and regulations governing financial disclosure, including the requirements of the SEC.

According to FHFA, long-term, continued operation in a government-run conservatorship is not sustainable for Fannie Mae and Freddie Mac because each company lacks capital, cannot rebuild its capital base, and is operating on a remaining, finite line of capital from taxpayers. Until Congress determines the future of Fannie Mae and Freddie Mac and the housing finance market, FHFA will continue to carry out its responsibilities as Conservator.

Farm Credit System¹³

The Farm Credit System (Farm Credit) is a nationwide network of 72 independent customer-owned lending institutions, providing more than \$272 billion in loans, leases, and related services to more than 500,000 customers. Farm Credit helps rural communities and agriculture grow and thrive by providing reliable, consistent credit and financial services, including loans, leases, and financial services to farmers, ranchers, and rural businesses across the US and in Puerto Rico.

Farm Credit raises funds by selling debt securities on the nation's money markets through the Federal Farm Credit Banks Funding Corporation. Farm Credit debt is insured by the Farm Credit System Insurance Corporation, a self-funded insurance entity. Once the Funding Corporation issues debt securities on behalf of all Farm Credit institutions, Farm Credit's four regional wholesale banks, AgFirst, AgriBank, CoBank, and Farm Credit Bank of Texas then fund the individual Farm Credit associations who support farmers, ranchers, and rural homebuyers. In addition to funding local retail associations, CoBank also uses the proceeds from Farm Credit debt securities to make loans directly to farmer-owned cooperatives, rural infrastructure providers, and other agribusinesses.

Farmer Mac¹⁴

The Federal Agricultural Mortgage Corporation (Farmer Mac) is designated by statute as a Farm Credit institution but is different from other Farm Credit institutions in several respects. In general, most Farm Credit institutions are primary lenders to farmers and ranchers and other borrowers in rural America. In contrast, Farmer Mac serves as a secondary market for lenders that extend credit in rural America. Also, Farmer Mac is a stockholder-owned company while the other Farm Credit institutions are organized as cooperatives.

Farmer Mac is a stockholder-owned, federally chartered corporation that combines private capital and public sponsorship to serve a public purpose: providing a secondary market for a variety of loans made to borrowers in rural America. In a secondary market, the owners of financial assets, such as the originators of loans, may sell all or part of those assets or pay a fee to otherwise offset some or all of the inherent risks of holding the assets. This secondary market is designed to increase the availability of credit at stable interest rates to America's rural communities and to provide rural borrowers with the benefits of capital markets pricing and product innovation.

Farmer Mac's main secondary market activities are:

- purchasing eligible loans directly from lenders;
- providing advances against eligible loans by purchasing obligations secured by those loans;
- securitizing assets and guaranteeing the payment of principal and interest on the resulting securities that represent interests in, or obligations secured by, pools of eligible loans; and
- issuing long-term standby purchase commitments for eligible loans.

Farmer Mac funds its purchases of eligible loans (including participation interests in eligible loans) and guaranteed securities primarily by issuing debt obligations in the public capital markets. As of December 31, 2019, its total outstanding business volume was \$21 billion.

Major government programs

These summaries are provided as background for this report and should not be used to determine eligibility for any government program.

Social Security

Fiscal year	1980	1990	2000	2010	2016	2017	2018	2019
Old Age and Survivors Insurance								
Total benefits paid (in millions)	\$ 105,074	\$ 222,993	\$ 352,706	\$ 577,448	\$ 768,633	\$ 798,722	\$ 844,924	na
Number of recipients	30,843,914	35,558,711	38,741,343	43,846,211	50,297,237	51,492,108	52,743,734	54,139,028
Average monthly benefit per recipient	\$ 305	\$ 554	\$ 788	\$ 1,110	\$ 1,292	\$ 1,334	1,389	1,429
Disability Insurance								
Total benefits paid (in millions)	\$ 15,437	\$ 24,803	54,938	\$ 124,191	\$ 142,703	\$ 142,740	\$ 143,656	na
Number of recipients	4,682,172	4,265,981	6,673,362	10,185,886	10,610,070	10,411,252	10,162,488	9,925,468
Average monthly benefit per recipient	\$ 269	\$ 462	\$ 649	\$ 922	\$ 1,032	\$ 1,060	\$ 1,097	\$ 1,122
Total Social Security								
Total benefits paid (in millions)	\$ 120,511	\$ 247,796	\$ 407,644	\$ 701,639	\$ 911,336	\$ 941,462	988,580	na
Number of recipients	35,526,086	39,824,692	45,414,705	54,032,097	60,907,307	61,903,360	62,906,222	64,064,496
Average monthly benefit per recipient	\$ 301	\$ 544	\$ 767	\$ 1,074	\$ 1,246	\$ 1,288	\$ 1,342	\$ 1,382

^{*} We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail" to access it.

Social Security is a federal government program that provides a source of income for individuals or their legal dependents (spouse, children, or parents) if they qualify for benefits. The program collects taxes from employees and employers and deposits the receipts into the two Social Security trust funds – the Old Age and Survivors Insurance (OASI) fund and the Disability Insurance (DI) fund. While the two are legally separate, they are often referred to together as OASDI.

In 2017, Social Security payments were \$945 billion or 16% of our Government's aggregate expenditures. Partially offsetting Social Security expenditures (but shown separately as revenue in our income statement), is \$868 billion of Social Security tax receipts, which comprised 16% of our Government's aggregate revenue.

Eligibility and enrollment¹⁵

The Social Security program pays benefits to qualified individuals out of the trust funds. Qualified individuals include, among others, disabled workers, retirees and their surviving spouses, and surviving children of deceased workers. Social Security benefits are subject to federal income taxes using a two-tiered scheme if the recipient's income exceeds certain thresholds. According to the Wisconsin Fiscal Legislative Bureau, in 2017: "A total of 30 states...exempted social security income from taxation. Fourteen states taxed social security benefits in 2017, including five states that followed current federal practice and taxed up to 85% of benefits and nine states provided their own taxation treatment." 5

Disability

The Social Security Administration uses a five-step process to decide if a person is disabled, including verifying that:

- the applicant's earnings average less than a certain amount each month;
- the applicant's medical condition significantly limits his or her ability to do basic work activities such as lifting, standing, walking, sitting, and remembering for at least 12 months;
- the applicant's medical condition is of at least a certain severity, preventing the applicant from completing substantial gainful activity, regardless of age, education, or work experience;
- the applicant's medical impairment(s) prevents him or her from performing any of his or her past work; and
- there is no other work the applicant can do despite his or her impairment(s) given his or her age, education, past work experience, and skills.

In general, to get disability benefits, an applicant must also meet two earnings tests, one related to how recently the applicant has worked and the other related to the duration of the applicant's work history.

There are special rules for people who are blind.

An "na" reference in the table means the data is not available.

Retirement

Those who pay Social Security taxes earn "credits" toward Social Security benefits. The number of credits needed to qualify for retirement benefits depends on one's birthdate. People born in 1929 or later need 40 credits (10 years of work).

The more a recipient has earned during a working career, the greater the retirement benefit. Retirement age also affects the size of benefit payments. Age 62 is the earliest possible Social Security retirement age, and those who retire at this age will have reduced benefits. Age 66 is the earliest age at which one can retire with full benefits. Each extra year of work thereafter adds another year of earnings to your Social Security record, increasing your benefits until you start receiving benefits or you reach age 70.

Spouses who never worked or have low earnings can get up to half of a retired worker's full benefit. Those who are eligible for both their own retirement benefits and spousal benefits are paid their own benefits first. Those whose spousal benefit is higher than their own retirement benefit will get a combination of benefits equaling the higher spousal benefit. Divorced people aged 62 and older whose marriage lasted 10 years or longer may be able to receive benefits on their exspouse's record even if the ex-spouse has remarried.

Social Security replaces a percentage of a worker's pre-retirement income based on their lifetime earnings. The amount of average wages that Social Security retirement benefits replaces varies depending on one's earnings and when one chooses to start receiving benefits. According to the Social Security Administration, if benefits start at age 67, this percentage ranges from as much as 75% for very low earners, to about 40% for medium earners, and about 27% for high earners. If benefits start earlier than age 67, these percentages would be lower, and after age 67 they'd be higher.

Survivor benefits

Widows and widowers may be eligible to receive Social Security benefits at age 60, or at age 50 if suffering from a disability that started before or within seven years of the spouse's death. Widows and widowers can take reduced benefits on one record, and then switch to full benefits on another record later. For example, a woman can take a reduced widow's benefit at 60 or 62, and switch to her own full retirement benefit at full retirement age.

Children's benefits

Children whose parents are disabled, retired, or deceased may be eligible for Social Security benefits. Biological children, adopted children, and dependent stepchildren of the worker are eligible. To get benefits, a child must have:

- A parent who is disabled or retired and entitled to Social Security benefits; or
- A parent who died after having worked long enough in a job where the parent paid Social Security taxes.

The child must also be any of the following:

- Unmarried;
- Younger than age 18;
- 18-19 years old and a full-time student (no higher than grade 12); or
- 18 or older and disabled. (The disability must have started before age 22.)

Enrollment

A person needs a Social Security number to get a job legally, and this nine-digit number remains one's first and continuous link with Social Security. Information on how to apply for a new or replacement Social Security number and card can be found at https://www.ssa.gov/. Having this number and beginning work at a job that participates in the Social Security program enrolls one in the program. When an individual is ready to make a claim, he or she can apply to receive Social Security retirement benefits on the above-referenced site.

Funding and financial condition of the program¹⁶

Funding

The Social Security program is funded primarily by a 12.4% payroll tax levied on employers and workers (each pay 6.2%, self-employed individuals pay the entire 12.4%). During the periods discussed in this report, there were two temporary tax rate reductions. For calendar year 2010, most employers were exempt from paying the employer share of OASDI tax on wages paid to certain qualified individuals hired after February 3. For calendar years 2011 and 2012, the OASDI tax rate was reduced by 2 percentage points for employees and for self-employed workers, resulting in a 4.2% effective tax rate for employees and a 10.4% effective tax rate for self-employed workers. Reductions in tax revenue due to these lower tax rates were made up by transfers from the general fund of the Treasury to the OASI and DI trust funds.

The payroll tax is levied on employee earnings up to a maximum taxable amount, which varies each year. Recent maximum taxable earnings were:

1980	\$ 25,900	1990	\$ 51,300	2000	\$ 76,200	2005	\$ 90,000
2010	\$ 106,800	2016	\$ 118,500	2017	\$ 127,200	2018	\$ 128,400
2019	\$ 132,900						

When the Social Security trust funds have surpluses, our Government generally uses the excess funds to purchase Treasury securities. Therefore, the trust funds earn some interest income.

Financial condition

Social Security funds are deposited in trust funds. The table below shows that at the end of 2017, the OASDI trust funds had an aggregate balance of \$2.9 trillion.

Old-Age and Survivors Insurance and Disability Insurance trust funds

Fiscal year (in millions)	1980	1990	2000	2010	2016	2017	2018	2019
Total cash income ¹	\$ 117,439	\$ 307,921	\$ 561,321	\$ 788,061	\$ 950,223	\$ 992,091	\$ 992,568	\$ 1,051,120
Social insurance and retirement								
receipts (payroll taxes)	113,209	281,656	480,584	631,687	810,180	850,618	854,747	914,303
Intergovernmental receipts:	4,230	26,265	80,685	156,281	139,971	141,396	137,745	136,690
Government employer share								
of employee retirement	1,204	5,567	7,637	14,936	16,936	17,499	18,193	18,055
Interest	2,340	15,991	59,796	118,502	90,575	86,512	83,809	82,504
Other	686	4,707	13,252	22,843	32,460	37,385	35,743	36,131
Other cash income	_	_	52	93	72	77	76	127
Total cash outgo 1	\$ 118,559	\$ 249,705	\$ 409,473	\$ 706,351	\$ 916,073	\$ 944,904	\$ 987,904	\$ 1,044,606
Benefit payments	115,514	243,263	402,104	695,459	905,084	933,897	976,566	1,032,919
Payments to railroad retirement	1,442	3,049	3,697	4,392	4,663	4,523	4,943	4,946
Interest payments	_	1,082	_	_	_	_	_	_
Administrative expenses	1,494	2,273	3,606	6,390	6,198	6,246	6,423	6,626
Beneficiary services and other	109	38	66	110	128	238	(28)	115
Surplus (deficit)	\$ (1,120)	\$ 58,216	\$ 151,848	\$ 81,710	\$ 34,150	\$ 47,187	\$ 4,664	\$ 6,514
Adjustment to balances	_	_	_	3	_	(2)	(1)	(1)
Fund balance, end of year:	\$ 32,259	\$ 214,900	\$ 1,006,852	\$ 2,585,484	\$ 2,842,360	\$ 2,889,545	\$ 2,894,208	\$ 2,900,721
Invested balance	31,251	215,222	1,007,226	2,586,333	2,842,592	2,889,869	2,894,655	2,900,916
Uninvested balance	1,008	(322)	(374)	(849)	(232)	(324)	(447)	(195)

bollar amounts in this table may not agree to amounts for the same program in our financial statements or narrative discussion as 1) the data in this table may be on a different year (e.g. fiscal vs. calendar) basis and 2) the data in this table may be drawn from a source that prepares the data on an accrual rather than a cash basis.

The Board of Trustees of OASI and DI Trust Funds projects the OASDI trust funds may become depleted as early as 2030. You can see their projections in Exhibit 99.06.

Source: Office of Management and Budget.
 Our website shows the OASI and DI trust fund financials separately. You can find them here.

Offsetting collections from Federal sources that are credited to the OASI account are treated as offsets to cash outgo rather than as cash income.

Medicare¹⁷

Fiscal year (in thousands)	1980	1990	2000	2010	2016	2017	2018
Total enrollment by part: 1	28,433	34,251	39,688	47,720	57,073	58,517	59,920
Part A (Hospital Insurance)	28,002	33,747	39,257	47,365	56,729	58,173	59,577
Part B (Medical Insurance)	27,278	32,567	37,335	43,882	52,094	53,369	54,575
Part C (Private Insurer-Provided Medicare)	na	2,017	6,856	11,693	18,392	19,815	21,331
Part D (Outpatient Prescription Drug Insurance)	na	na	na	34,772	43,217	44,480	45,759

Dollar amounts in this table may not agree to amounts for the same program in our financial statements or narrative discussion as 1) the data in this table may be on a different year (e.g. fiscal vs. calendar) basis and 2) the data in this table may be drawn from a source that prepares the data on an accrual rather than a cash basis.

** Source: Office of Management and Budget.

An "na" reference in the table means the data is not available.

¹ Starting in 1983, includes amounts from Postal Service.

Medicare is our country's health insurance program for people age 65 or older. People younger than age 65 with certain disabilities, permanent kidney failure, or amyotrophic lateral sclerosis (Lou Gehrig's disease) can also qualify for Medicare. The program helps with the cost of healthcare, but it does not cover all medical expenses or the cost of most long-term care. As of 2013, on average, Medicare covered about 66%¹⁸ of the healthcare charges for those enrolled. A person can buy a Medicare supplement policy from a private insurance company to cover some of the costs that Medicare does not. Medicaid may also cover a portion of costs for those who are eligible.

In 2018, Medicare provided benefits to 60 million Americans, 85% (51 million) of whom were age 65 and older and 15% (9 million) of whom were disabled.

In 2017, Medicare payments (net of premiums of \$100 billion) were \$597 billion or 10% of our Government's aggregate expenditures. Partially offsetting these expenditures (but shown separately as a payroll tax revenue in our income statement) were \$260 billion of Medicare tax receipts, which comprised 5% of our Government's aggregate revenue.

Programs

Medicare is the combination of two separate programs with three parts:

- the Hospital Insurance (HI) program, also known as Medicare Part A:
 - Part A covers in-patient hospital treatment along with some other medical services, with 58 million enrollees as of 2017; and
- the Supplemental Medical Insurance (SMI) program, also known as Medicare Parts B and D:
 - Part B covers much of what Part A does not, such as physician visits, out-patient hospital treatments, and some drugs, with 53 million enrollees as of 2017; and
 - Part D is the newest addition to the Medicare program (introduced January 1, 2006) and provides subsidies for prescription drugs, with 44 million enrollees as of 2017.

Medicare Part C (aka Medicare Advantage) is a privately-run health insurance option available via Medicare, with 20 million enrollees as of 2017. Part C enrollees pay premiums for their Part B, as well as additional fees to the private insurer, while the federal government covers an amount similar to what it would pay for the person to be enrolled in traditional Medicare.

Eligibility and enrollment

Part A

People age 65 or older, who are citizens or permanent residents of the US, are eligible for Medicare Part A at no cost if they:

- or their spouse receives or is eligible to receive Social Security benefits or railroad retirement benefits;
- or their spouse worked long enough in a government job through which they paid Medicare taxes; or
- are the dependent parent of a fully insured deceased child.

[&]quot;" We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail" to access it.

If they don't meet these requirements, they may be able to get Medicare Part A by paying a monthly premium. People who are already receiving Social Security retirement or disability benefits will be automatically enrolled in Medicare Parts A and B when they turn 65. Those who aren't yet receiving Social Security benefits should enroll in Medicare Part A even if they don't plan to retire at age 65. The enrollment period begins three months before the month of an applicant's 65th birthday and continues for three months after the month he or she turns 65. One can enroll online at https://www.ssa.gov/, by phone, or by visiting a local Social Security Administration office.

Part B

Individuals eligible for Medicare Part A at no cost can enroll in Medicare Part B by paying a monthly premium. Some people with higher incomes will pay a higher monthly Part B premium. A person who is not eligible for Part A at no cost, can purchase Part B without having to buy Part A, if the person is 65 or older and is a US citizen or a lawfully admitted noncitizen who has lived in the US for at least five years. Those who fail to enroll in Part B when they are first eligible may be subject to a penalty if they enroll later. If, however, they are active employees past the age of 65 and are eligible for health insurance that their employer subsidizes, it may not be in their interest to enroll in Parts B or D until they retire.

Part C (Medicare Advantage)

Individuals who receive Part A and Part B benefits directly from our Government have original Medicare. Individuals who receive benefits from a Medicare Advantage organization or other company approved by Medicare have Medicare Advantage plans, which are offered by Medicare-approved private companies. Many of these plans provide extra coverage and may lower out-of-pocket costs. Individuals who have Medicare Parts A and B can join a Medicare Advantage plan.

Part D

Anyone who has Medicare Part A or Part B is eligible for Part D (Medicare prescription drug coverage). Joining a Medicare prescription drug plan, which charges an extra monthly premium, is voluntary. Some beneficiaries with higher incomes will pay a higher monthly Part D premium.

Participant costs

No part of Medicare pays for all of a beneficiary's covered medical costs, and many costs are not covered at all. The program contains premiums, deductibles, and coinsurance, which the covered individual must pay out-of-pocket. Some people may qualify to have other governmental programs (such as Medicaid) pay premiums and some or all of the costs associated with Medicare. Deductibles and coinsurance are paid directly to providers and are excluded from this report. Premiums are reported in the financial statements within this report as reductions of Medicare expenditures rather than as revenues. See the overall discussion of what revenues are netted against expenses and why at *Receipts that offset expenses* above.

Most Medicare enrollees do not pay a monthly Part A premium, because they (or a spouse) have had 40 or more 3-month quarters in which they paid Federal Insurance Contributions Act (FICA) taxes. The benefit is the same no matter how much or how little the beneficiary paid as long as the minimum number of quarters is reached. Medicare-eligible persons who do not have 40 or more quarters of Medicare-covered employment (or a spouse who does) may buy into Part A for a monthly premium of:

- \$252 per month (as of 2020) for those with 30 39 quarters of Medicare-covered employment, or
- \$458 per month (as of 2020) for those with fewer than 30 quarters of Medicare-covered employment and who are not otherwise eligible for premium-free Part A coverage.

Most Medicare Part B enrollees pay an insurance premium for this coverage. Part B premiums for 2020 are \$144.60 to \$491.60 per month, depending on the enrollee's yearly income, with the highest premium paid by individuals earning more than \$500,000 or married couples earning more than \$750,000.

Premiums for Parts C and D vary by plan, and some Part C plans do not charge premiums.

Funding and financial condition of the program

Funding

Each part of Medicare relies on different funding mechanisms:

- Part A is largely funded by a 2.9% payroll tax levied on employers and workers (each pay 1.45%; self-employed individuals pay the entire 2.9%). Beginning in 2013, the rate of Part A tax on earned income exceeding \$200,000 for individuals (\$250,000 for married couples filing jointly) rose to 3.8% (paid 2.35% by employee and 1.45% by employer, or 3.8% by a self-employed individual), in order to pay part of the cost of the subsidies mandated by the Patient Protection and Affordable Care Act (PPACA).
- Part B is funded primarily by revenue from the federal government general fund and by premiums paid by Medicare enrollees.
- Part C is funded by the Medicare Trust Funds at a fixed amount per month, plus any additional premiums paid by Part C plan members.
- Part D is financed primarily by revenue from the federal government general fund with small amounts coming from enrollee premiums (17% of funding in 2018) and transfers from states (12% of funding in 2018). In 2006, a surtax was added to Part B premiums for higher-income seniors to partially fund Part D.

Financial condition

Each of the three primary parts of Medicare (Parts A, B, and D) has its own account managed by trustees (a trust fund account). Part C does not have a trust fund.

Medicare trust funds financials

At the end of fiscal year 2017, the HI (Part A) trust fund had a balance of \$198 billion and the SMI (Parts B and D) trust fund had a balance of \$68 billion, for a combined balance of \$272 billion.

Fiscal year (in millions)	1980	199	0 200	0	2010	2016	2017	2018		2019
Total cash income	\$ 35,690	\$ 125,69	7 \$ 248,92	1 \$	505,217 \$	688,714	\$ 718,533	\$ 746,142	\$	785,384
Social insurance and retirement receipts (payroll taxes)	23,217	68,55	6 135,52	29	180,068	246,812	255,930	260,659		277,572
Excise taxes (SMI)		45.50		_		2,853	4,147	4,095		2,437
Intergovernmental receipts:	9,529	45,53	1 91,33	33	250,528	334,121	347,119	358,230		373,067
Government employer share for government employee retirement ¹	249	2,15			4,042	4,285	4,416	4,478		4,479
Interest	1,477	9,37			17,602	10,063	9,769	9,733		9,673
Federal payment (OASDI taxes)			- 8,78		13,760	23,022	24,206	24,192		23,781
Federal contributions and other	7,803	34,00			215,124	296,751	308,728	319,827		335,134
Premium income	2,944	11,60	7 21,90)7	65,307	90,752	100,029	111,738		120,150
Other cash income ²	_		3 1!	52	9,314	14,176	11,308	11,420		12,158
Total cash outgo	\$ 35,034	\$ 109,70	9 \$ 219,02	2 \$	525,640 \$	698,610	\$ 708,298	\$ 711,502	\$	782,547
Benefit payments	33,937	107,17	2 214,86	57	518,832	690,118	699,784	701,888		772,844
Administrative expenses ³ Payments to the Patient-Centered Outcomes	1,080	2,29	8 3,04	12	5,279	6,023	5,527	6,660		6,660
Research Trust Fund	_	-		_	_	123	131	144		145
Other	17	23	9 1,1	3	1,529	2,346	2,856	2,810		2,898
Surplus (deficit) Adjustment to balances	\$ 656 —	-		_ ·	22	2	10,235 1	34,640 5	·	2,837 (63)
Fund balance, end of year Invested balance Uninvested balance	19,029 19,214 (185)	\$ 110,15 110,53 (377			350,842 \$ 349,203 1,639	255,292 255,545 (253)	265,528 268,424 (2,896)	300,173 301,002 (829)	\$	302,947 303,341 (394)

Dollar amounts in this table may not agree to amounts for the same program in our financial statements or narrative discussion as 1) the data in this table may be on a different year (e.g. fiscal vs. calendar) basis and 2) the data in this table may be drawn from a source that prepares the data on an accrual rather than a cash basis.

^{**} Source: Office of Management and Budget.

[&]quot;" Our website shows the HI and SMI trust fund financials separately. You can find them <u>here</u>.

¹ Starting in 1983, includes amounts from Postal Service.

For years after 1986, SMI receipts for kidney dialysis. For years after 2004, includes Medicare refunds, which were shown as offsets to cash outgo in years prior to 2005.

For 1989 and 1990, includes transactions and balances of the HI and SMI Catastrophic Insurance trust funds, which began in 1989 and were abolished in 1990.

The Boards of Trustees of the Federal Hospital Insurance and Federal Supplementary Medical Insurance Trust Funds project the Medicare HI (Part A) trust fund may become depleted as early as 2023. See their projections in Exhibit 99.07.

Medicaid and Children's Health Insurance Program (CHIP)¹⁹

Federal fiscal year	1980	1990	2000	2010	2016	2017	2018
Medicaid							
Spending (in billions) ¹	\$ 25.2	\$ 72.2	\$ 206.2	\$ 401.5	\$ 577.3	\$ 592.2	\$ 616.1
Average monthly enrollment (in millions) 1	19.6	22.9	34.5	54.5	72.2	73.8	76.0
Spending per enrollee ¹	\$ 1,285	\$ 3,147	\$ 5,972	\$ 7,361	\$ 7,993	\$ 8,024	\$ 8,106
Total beneficiaries (in thousands of people) ²	21,605	25,255	41,212	63,730	na	na	na
Children	9,333	11,220	18,528	30,024	na	na	na
Adults	4,877	6,010	8,538	15,368	na	na	na
Disabled	2,911	3,718	6,688	9,341	na	na	na
Aged	3,440	3,202	3,640	4,289	na	na	na
Unknown	1,044	1,105	3,817	4,709	na	na	na
Total enrollees (in thousands of people, to the nearest 100,000) ³	19,600	22,900	34,500	54,500	72,200	73,800	76,000
Children	na	na	16,100	26,400	28,100	28,200	28,500
Adults	na	na	6,900	13,100	15,300	15,500	15,800
Newly eligible adults	na	na		_	11,200	12,200	12,400
Disabled	na	na	6,700	9,200	10,600	10,600	10,700
Aged .	na	na	3,600	4,900	5,700	5,800	6,000
Territories	na	na	900	1,000	1,400	1,400	1,400
State fiscal year	1980	1990	2000	2010	2016	2017	2018
Medicaid share of state budgets (all federal and state funds) ⁴ Medicaid share of state budgets (state general funds only; no	na	12.5%	19.1%	22.2%	28.7%	28.9%	na
federal) ⁴	na	9.5%	15.0%	14.8%	19.6%	na	na
Medicaid as share of state budgets (all state funds; no federal) ⁴	na	6.9%	11.0%	11.6%	15.9%	na	na
Children's Health Insurance Program (CHIP) 5							
Average monthly enrollment (in millions)	na	na	2.1	5.4	6.5	na	na

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Medicaid is a joint federal and state program that, together with the Children's Health Insurance Program (CHIP), provides health coverage to more than 70.6 million Americans, including children, pregnant women, parents, seniors, and individuals with disabilities. Medicaid is the single largest source of health coverage in the US. States establish and administer their own Medicaid programs and determine the type, amount, duration, and scope of services within broad federal guidelines. Federal law requires states to provide certain mandatory benefits and allows states the choice of covering other optional benefits. Mandatory benefits include services like inpatient and outpatient hospital services,

Source: Centers for Medicare and Medicaid Services (CMS).

^{***} We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail on Medicaid" and "More detail on CHIP" to access it.

na An "na" reference in the table means the data is not available.

All numbers exclude CHIP-financed coverage. The amounts shown in this table may differ from those published elsewhere due to slight differences in the timing of data and the treatment of certain adjustments. The amounts may also differ from prior versions of MACStats due to changes in methodology by the CMS Office of the Actuary. Spending consists of federal and state Medicaid expenditures for benefits and administration, excluding the Vaccines for Children program. Enrollment counts are full-year equivalents and, for fiscal years prior to 1990, have been estimated from counts of persons served. Enrollment data for fiscal years 2013 – 2017 are projected; those for fiscal years 1999 – 2015 include estimates for Puerto Rico and the Virgin Islands.

² Beneficiaries (enrollees for whom payments are made) are shown here because they provide the only historical time series data directly available prior to FY 1990. Most current analyses of individuals in Medicaid reflect enrollees. Beginning in fiscal year 1998, a Medicaid-eligible person who received only coverage for managed care benefits was included in this series as a beneficiary. Excludes Medicaid-expansion CHIP and the territories. Children and adults who qualify for Medicaid on the basis of a disability are included in the disabled category. In addition, although disability is not a basis of eligibility for aged individuals, states may report some enrollees age 65 and older in the disabled category. This data does not recode individuals age 65 and older who are reported as disabled, due to lack of detail in the historical data. Generally, individuals whose eligibility group is unknown are persons who were enrolled in the prior year but had a Medicaid claim paid in the current year.

³ The CMS stopped reporting numbers of beneficiaries in 2013. Accordingly, we have switched to reporting enrollees. Details may not add up to the total. Total enrollees and enrollees by type were taken from two separate data sources.

The all federal and state funds category reflects amounts from any source. The state general funds category reflects amounts from revenues raised through income, sales, and other broad-based state taxes. The all state funds category reflects amounts from any non-federal source; these include state general funds, other state funds (amounts from revenue sources that are restricted by law for particular government functions or activities, which for Medicaid includes provider taxes and local funds), and bonds (expenditures from the sale of bonds, generally for capital projects).

⁵ CHIP numbers include adults covered under waivers. Enrollment for Territories for fiscal year 2000 and later is estimated.

PART I Item 1

physician services, laboratory and x-ray services, and home health services, among others. Optional benefits include services like prescription drugs, case management, physical therapy, and occupational therapy.

In 2017, Medicaid and CHIP payments were \$566 billion or 9% of our Government's aggregate expenditures.

Eligibility and enrollment

In order to participate in Medicaid, federal law requires states to cover certain groups of individuals. Low-income families, qualified pregnant women and children, and individuals receiving Supplemental Security Income (SSI) are examples of mandatory eligibility groups. States have additional options for coverage and may choose to cover other groups, such as individuals receiving home and community-based services and children in foster care who are not otherwise eligible.

As of 2017, 34 states have expanded their Medicaid programs to cover all people with household incomes below a certain level. Whether you qualify for Medicaid coverage depends partly on whether your state has expanded its program through the Affordable Care Act.

- *In all states* You can qualify for Medicaid based on income, household size, disability, family status, and other factors. Eligibility rules differ between states.
- In states that have expanded Medicaid coverage You can qualify based on your income alone. If your household income is below 138% of the federal poverty level (FPL), you qualify.

Modified Adjusted Gross Income (MAGI), calculated as adjusted gross income (AGI) (gross income less adjustments as defined by the IRS at the time) plus untaxed foreign income, non-taxable Social Security benefits, and tax-exempt interest, is used to determine financial eligibility for Medicaid, CHIP, and premium tax credits and cost sharing reductions available through the health insurance marketplace. Eligibility is expressed as a percentage of the FPL and varies by state; a recipient's MAGI must be below the stated threshold to qualify. The eligibility ranges, expressed as a percentage of the FPL (including states with expanded rates), are as follows:

Medicaid:

- Children ages 0-1 ranging from 139% in Utah to 375% in Iowa
- Children ages 1-5 ranging from 133% in Oregon to 319% in District of Columbia
- Children ages 6-18 ranging from 133% in 17 states to 319% in District of Columbia
- Pregnant women ranging from 133% in four states to 375% in lowa
- Adult parent/caretaker ranging from 13% in Alabama to 216% in District of Columbia

CHIP:

- Children from birth to age 19 with exceptions, including 14 states that don't offer CHIP to children ranging from 170% in North Dakota to 400% in New York
- Pregnant women only five states offer ranging from 200% in two states to 300% in Missouri

The FPL for 2019 ranges from \$12,490 for individuals to \$43,430 for a family of eight.

To be eligible for Medicaid, individuals must also meet certain non-financial criteria. Beneficiaries must generally be residents of the state in which they are receiving Medicaid. They must either be citizens of the US or certain qualified non-citizens, such as lawful permanent residents. In addition, some eligibility groups are limited by age, or by pregnancy or parenting status.

Applications are accepted at any time; there is no open enrollment period. Applicants may enroll electronically via https://www.healthcare.gov/ or at their local Center for Medicare and Medicaid Services or Medicaid office.

Funding and financial condition of the program

Medicaid is funded jointly by states and the federal government. Its federal funding source is among the mandatory expenditures in the annual federal budget. Congress could act to modify or remove the program's funding, but otherwise, it will continue as scheduled. The program does not have a trust fund.

Medicaid is also funded by state funds and to a lesser degree, premiums and cost sharing. States may charge limited premiums and enrollment fees to certain groups of Medicaid enrollees with incomes above 150% of the Federal Poverty Level (FPL). States may establish cost sharing requirements for Medicaid enrollees, but allowable charges vary by income and service. In addition, children with incomes below 133% of the FPL generally cannot be charged cost sharing. Overall, premium and cost sharing amounts for family members enrolled in Medicaid may not exceed 5% of a family's annual income. States can choose to impose limited enrollment fees, premiums, deductibles, coinsurance, and copayments for children and pregnant women enrolled in CHIP, generally limited to 5% of a family's annual income.

Food assistance – Supplemental Nutrition Assistance Program (SNAP)

Fiscal year	1980	1990	2000	2010	2016	2017	2018	2019
Total benefits (in millions)	\$ 8,721	\$ 14,143	\$ 14,983	\$ 64,702	\$ 66,539	\$ 63,711	\$ 58,997	\$ 53,758
Average monthly recipients (in thousands)	21,082	20,049	17,194	40,302	44,220	42,233	39,431	34,474
Average monthly benefits per person	\$ 34	\$ 59	\$ 73	\$ 134	\$ 125	\$ 126	\$ 125	\$ 130

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The Supplemental Nutrition Assistance Program (SNAP) offers nutrition assistance to millions of eligible, low-income individuals and families and provides economic benefits to communities when recipients spend money on food locally. SNAP is the largest program in the domestic hunger safety net. The maximum monthly benefit for the first person in a household is \$194, with the amount per additional person decreasing with each person. These maximum benefits are reduced by 30% of the net monthly income of the household, as SNAP households are expected to spend 30% of their resources on food. In 2017, SNAP payments were \$63 billion or 1% of our Government's aggregate expenditures.

Eligibility and enrollment²⁰

SNAP benefits are available to US citizens and certain immigrants who meet certain tests, including resource, income, and employment tests.

The Food and Nutrition Service works with state agencies, nutrition educators, and neighborhood and faith-based organizations to ensure that those eligible for nutrition assistance can make informed decisions about applying for the program and can access benefits.

Resources

Households may have \$2,250 in countable resources, such as a bank account, or \$3,500 in countable resources if at least one person is age 60 or older or is disabled. However, certain resources are not counted, such as a home and lot, the resources of people who receive SSI, the resources of people who receive Temporary Assistance for Needy Families (TANF), and most retirement (pension) plans, as well as vehicles in certain states.

Source: Department of Agriculture.

^{*** 2018} and 2019 participation and benefits totals exclude North Carolina's data.

[&]quot;" We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail" to access it.

Income

Households have to meet income tests unless all members are receiving TANF, SSI, or in some places general assistance. Most households must have gross income and net income (gross income minus allowable deductions) of no more than 130% and 100% of the poverty level, respectively, except in Alaska and Hawaii, where income limits are higher. A household with a person 60 years of age or older or a person who is receiving certain types of disability payments only has to meet the net income test.

Employment

In general, people must meet work requirements in order to be eligible for SNAP. These work requirements include registering for work, not voluntarily quitting a job or reducing hours, taking a job if offered, and participating in employment and training programs, if assigned by the state. In addition, able-bodied adults without dependents are required to work or participate in a work program for at least 20 hours per week in order to receive SNAP benefits for more than three months in a 36-month period. Some special groups may not be subject to these requirements, including children, seniors, pregnant women, and people who are exempt for physical or mental-health reasons.

Immigrants

SNAP is available to most legal immigrants who meet the tests above and:

- have lived in the US for five years; or
- are receiving disability-related assistance or benefits; or
- are children under 18.

Certain non-citizens, such as those admitted for humanitarian reasons and those admitted for permanent residence, may also be eligible for the program. Eligible household members can get SNAP benefits even if there are other members of the household who are not eligible. Non-citizens who are in the US temporarily, such as students, are not eligible.

Funding and financial condition of the program

SNAP is funded by mandatory expenditures in the annual federal budget. Congress could act to modify or remove the program's funding, but otherwise, it will continue as scheduled. SNAP does not have a dedicated trust fund.

Unemployment Insurance²¹

Fiscal year	1980	1990	2	2000	2010		2016		2017	2018	2	2019
Regular Benefits												
Total # weeks claimed (in thousands)	148,952	115,954	96	6,007	203,149	9	94,794	8	87,582	79,296	75	5,958
Average weekly benefit (non-partial)	\$ 100	\$ 162	\$	221	\$ 299	\$	344	\$	351 \$	356	\$	359
Aggregate benefits paid (in millions)	\$ 14,191	\$ 17,956	\$ 20	0,479	\$ 57,891	\$ 3	31,212	\$ 2	29,443 \$	27,162	\$ 27	7,290
Extended Benefits												
Total # weeks claimed (in thousands)	17,940	247		28	31,786		_		6	26		_
Average weekly benefit (non-partial)	\$ 98	\$ 105	\$	182	\$ 295	\$	506	\$	261 \$	203	\$	214
Aggregate benefits paid (in millions)	\$ 1,704	\$ 30	\$	4	\$ 8,919	\$	45	\$	23 \$	_	\$	_
Emergency Benefits												
Total # weeks claimed (in thousands)	_	_		_	237,307		17		10	9		na
Average weekly benefit (non-partial)	\$ _	\$ _	\$	_	\$ 289	\$	355	\$	381 \$	296		na
Aggregate benefits paid (in millions)	\$ _	\$ _	\$	_	\$ 70,229	\$	6	\$	4 \$	3		na
Total Benefits (All Types)												
Aggregate UI benefits paid (in millions)	\$ 15,895	\$ 17,986	\$ 20	0,483	\$ 137,039	\$ 3	31,263	\$ 2	29,470 \$	27,165		na

- Dollar amounts in this table may not agree to amounts for the same program in our financial statements or narrative discussion as 1) the data in this table may be on a different year (e.g. fiscal vs. calendar) basis and 2) the data in this table may be drawn from a source that prepares the data on an accrual rather than a cash basis. Details may not add to the total due to rounding.
- " Source: Department of Labor.
- "" We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail" to access it.

The Department of Labor's Unemployment Insurance (UI) programs provide benefits to eligible workers who become unemployed through no fault of their own and meet certain other eligibility requirements. Unemployment insurance payments (benefits) are intended to provide temporary financial assistance to unemployed workers who meet the requirements of state law. Each state administers a separate UI program within guidelines established by federal law. In general, UI benefits are based on a percentage of an individual's earnings over a recent 52-week period, up to a state maximum amount. Benefits can be paid for a maximum of 26 weeks in most states. Additional weeks of benefits may be available during times of high unemployment (extended and emergency benefits). The basic extended benefits program provides up to 13 additional weeks of benefits. Some states have also enacted a voluntary program to pay up to 7 additional weeks (20 weeks maximum) of extended benefits during periods of extremely high unemployment. Some states provide additional benefits for specific purposes. In 2017, UI payments were \$35 billion or 1% of our Government's aggregate expenditures.

Eligibility and enrollment

Eligibility for UI, benefit amounts, and the length of time benefits are available are determined by the state law under which UI claims are established. Applicants should contact the state UI agency as soon as possible after becoming unemployed. In some states, applicants can now file a claim by telephone.

Funding and financial condition of the program

In most states, UI benefit funding is based solely on a tax imposed on employers, the Federal Unemployment Tax Act (FUTA) tax. Employers owe FUTA tax on the first \$7,000 they pay to each employee during the calendar year after subtracting any payments exempt from FUTA tax. The FUTA tax is 6.0% for 2019, however, employers can receive a credit of up to 5.4% against this FUTA tax if they pay state unemployment tax during the calendar year.²² Three states require minimal employee contributions. Funds received by the federal government are distributed to state trust funds held by the Treasury, which are used to finance the programs. If a state uses all of its state funds, it may borrow from the federal government (authorized under Title XII of the Social Security Act). The Treasury will apply all tax revenue greater than the amount for benefit payments to the outstanding loan. States are also able to use private sector borrowing instruments, such as revenue bonds, to repay the federal government for their outstanding loans. If a state fails to repay the outstanding Title XII advance by November 10th of the year in which the second January 1st has passed, then all taxable employers in that state will be subject to a reduced credit on their FUTA tax of 0.3%.

As of December 31, 2019, the aggregate state UI trust fund balance was \$76 billion. Because of the Great Recession, 35 states and one insular area depleted their UI funds and took advances totaling \$154 billion (since December 31, 2007) from the federal government to continue to pay benefits. As of the end of 2019, one insular-area UI program still had a total of \$63 million in outstanding federal loans. No states had outstanding private borrowings. During 2019, the states earned a total of \$2 billion on their UI trust fund investments and incurred a total of \$1 million of interest expense owed to the federal government for their Title XII loans.²³

Earned Income Tax Credit (EITC)²⁴

Calendar year	1980	1990	2000	2010	2016	2017
Total EITC claims (in millions)	\$ 1,986	\$ 7,542	\$ 32,296	\$ 59,562	\$ 66,723	\$ 66,443
Total EITC claims for returns with children (in millions)	\$ 1,986	\$ 7,542	\$ 31,593	\$ 57,809	\$ 64,669	\$ 64,349
Number of EITC returns (in thousands)	6,954	12,542	19,277	27,368	27,383	27,030
Number of EITC Returns with children (in thousands)	6,954	12,542	15,872	20,720	20,332	20,021
Average amount of EITC	\$ 286	\$ 601	\$ 1,658	\$ 2,202	\$ 2,455	\$ 2,445
Average amount of EITC for returns with children	\$ 286	\$ 601	\$ 1,990	\$ 2,790	\$ 3,180	\$ 3,214

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Earned Income Tax Credit (EITC) is a tax credit for working people who have low to moderate income. EITC is a refundable credit, which means that if the credit exceeds the amount of tax owed, the taxpayer can receive the excess credit as a refund.

The maximum federal credit amounts for the latest tax year, 2019, are:

- \$6,557 with three or more qualifying children;
- \$5,828 with two qualifying children;
- \$3,526 with one qualifying child; and
- \$529 with no qualifying children.

Eligibility and enrollment

To be eligible for the EITC, one must meet financial and non-financial qualifications.

Financial qualifications

To be eligible for the EITC, one may not earn more than \$3,600 in investment income for the year (as of 2019). In addition, earned income and adjusted gross income (AGI) for 2019 must each be less than:

		Qualifying Children Claimed											
If filing	Zero	One	Two	Three or more									
Single, Head of Household or Widowed	\$ 15,570	\$ 41,094	\$ 46,703	\$ 50,162									
Married Filing Jointly	\$ 21,370	\$ 46,884	\$ 52,493	\$ 55,952									

Non-financial qualifications

To read about non-financial qualifications, see the IRS website at https://www.irs.gov/credits-deductions/individuals/earned-income-tax-credit-questions-and-answers.

Funding and financial condition of the program

Refundable federal EITCs are primarily funded by mandatory expenditures in the annual federal budget. Congress could act to modify or remove the program's funding, but otherwise, it will continue as scheduled. Twenty-two states, plus the District of Columbia and New York City, have established their own EITCs or similar credits to supplement the federal credit. Certain states use federally provided TANF money (see *Welfare – Temporary Assistance for Needy Families (TANF)* below) to fund their state-level EITCs. EITCs do not have a dedicated trust fund.

^{**} Source: Internal Revenue Service.

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Premium Tax Credit (PTC)²⁵

Calendar year	2015	2016	2017
Total PTC claims (in millions)	\$ 18,081	\$ 22,183	\$ 28,756
Number of PTC returns (in thousands)	5,003	5,426	5,336
Average amount of PTC	\$ 3,614	\$ 4,088	\$ 5,390

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Premium Tax Credit (PTC) is a refundable tax credit that began in 2014 in connection with the Affordable Care Act. This credit is designed to help eligible individuals and families with low or moderate income afford health insurance purchased through the Health Insurance Marketplace (Marketplace), a shopping and enrollment service for medical insurance. The size of one's premium tax credit is based on a sliding scale; those who have a lower income get a larger credit.

When enrolling in Marketplace insurance, an individual can choose to have the Marketplace compute an estimated credit that is paid to the enrollee's insurance company ("advance credit payments") to lower what the enrollee pays for monthly premiums or choose to get all of the benefit of the credit when you file your tax return for the year. The credit is "refundable" because, if the amount of the credit is more than the amount of your tax liability, you will receive the difference as a refund. If you owe no tax, you can get the full amount of the credit as a refund. However, if advance credit payments were made to your insurance company and your actual allowable credit on your return is less than your advance credit payments, the difference, subject to certain repayment caps, will be subtracted from your refund or added to your balance due.

The maximum credit amounts for the latest tax year, 2019, are:

- \$6,557 with three or more qualifying children;
- \$5,828 with two qualifying children;
- \$3,526 with one qualifying child; and
- \$529 with no qualifying children.

Eligibility and enrollment

You are eligible for the premium tax credit if you meet all of the following requirements:

- have household income that falls within a certain range (see Income limits below);
- do not file a Married Filing Separately tax return (with limited exceptions);
- cannot be claimed as a dependent by another person; and
- in the same month, you, or a family member:
 - enroll in coverage (excluding "catastrophic" coverage) through a Marketplace;
 - are not able to get affordable coverage through an eligible employer-sponsored plan that provides minimum value;
 - are not eligible for coverage through a government program, like Medicaid, Medicare, CHIP or TRICARE;
 and
 - pay the share of premiums not covered by advance credit payments.

^{**} Source: Internal Revenue Service.

Income limits

In general, individuals and families may be eligible for the premium tax credit if their household income for the year is at least 100% but no more than 400% of the federal poverty line for their family size. For residents of one of the 48 contiguous states or Washington, D.C., the following illustrates when household income would be at least 100% but no more than 400% of the federal poverty line in computing your premium tax credit for 2019:

- \$12,490 (100%) up to \$49,960 (400%) for one individual;
- \$16,910 (100%) up to \$67,640 (400%) for a family of two; and
- \$25,750 (100%) up to \$103,000 (400%) for a family of four.

Funding and financial condition of the program

Refundable federal PTCs are primarily funded by mandatory expenditures in the annual federal budget. Congress could act to modify or remove the program's funding, but otherwise, it will continue as scheduled. PTCs do not have a dedicated trust fund.

Supplemental Security Income (SSI)²⁶

Calendar year	1980	1990	2000	2010	2016	2017	2018	2019
Total payments (in millions):	\$ 7,771	\$ 16,182	\$ 32,160	\$ 51,357	\$ 57,250	\$ 57,298	\$ 57,161	\$ 58,052
Blind or disabled	5,142	12,625	27,438	45,618	51,216	51,190	50,999	51,756
Aged	2,629	3,557	4,722	5,739	6,034	6,108	6,162	6,296
SSI federal payments ¹	\$ 5,923	\$ 12,943	\$ 28,778	\$ 47,768	\$ 54,634	\$ 54,648	\$ 54,460	\$ 55,396
SSI federally administered state supplementation payments	\$ 1,848	\$ 3,239	\$ 3,382	\$ 3,589	\$ 2,616	\$ 2,650	\$ 2,701	\$ 2,657
SSI recipients (in thousands): 2	4,142	4,817	6,602	7,912	8,251	8,228	8,129	8,077
Blind or disabled	2,334	3,363	5,312	6,728	7,087	7,051	6,960	6,910
Aged	1,808	1,454	1,289	1,184	1,165	1,176	1,169	1,167
SSI payments per recipient: ²	\$ 1,876	\$ 3,359	\$ 4,871	\$ 6,491	\$ 6,939	\$ 6,964	\$ 7,032	\$ 7,187
Blind or disabled	2,203	3,757	5,165	6,780	7,227	7,260	7,327	7,490
Aged	1,454	2,439	3,663	4,847	5,179	5,194	5,271	5,395

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Supplemental Security Income (SSI) is a federal program designed to help aged, blind, and disabled people who have little or no income. It provides cash to meet basic needs for food, clothing, and shelter.

The monthly maximum benefit amounts for 2020 are \$783 for an eligible individual, \$1,175 for an eligible individual with an eligible spouse, and \$392 for an essential person. The monthly amount is reduced by subtracting monthly countable income. In the case of an eligible individual with an eligible spouse, the amount payable is further divided equally between the two spouses. Some states supplement SSI benefits.

In 2017, SSI payments were \$56 billion or 1% of aggregate government expenditures.

^{*} Source: Social Security Administration.

[&]quot;" We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail" to access it.

Total historical payments for 1980 are estimated.

Recipients are those with Federally Administered Payments in Current-Payment Status.

Eligibility and enrollment

To be eligible for SSI, one must be:

- age 65 or older;
- blind; or
- disabled;

and:

- have limited income, which varies depending on where one lives, the nature of one's income, and the number of people living in a household;
- have limited resources (individual/child \$2,000, couple \$3,000);
- be a US citizen or national, or in one of certain categories of aliens;
- be a resident of one of the 50 states, the District of Columbia, or the Northern Mariana Islands;
- not be absent from the country for a full calendar month or for 30 consecutive days or more;
- not be confined to an institution (such as a hospital or prison) at our Government's expense;
- apply for any other cash benefits or payments for which one may be eligible, (for example, pensions, Social Security benefits); and
- meet certain other requirements.

Funding and financial condition of the program

SSI's funding source is primarily mandatory expenditures in the annual federal budget. Congress could act to modify or remove this source of the program's funding, but otherwise, it will continue as scheduled. Certain states also supply funding for the program. SSI does not have a dedicated trust fund.

Affordable housing

Calendar year		2000	2005	2010	2016	2017	2018	2019
All HUD programs								
Subsidized units available (in thousands) ¹		4,881	5,092	5,095	5,016	5,019	5,036	5,035
Number of households reporting (in thousands)		3,904	4,032	4,429	4,677	4,651	4,628	4,619
Average household size (persons)		2.2	2.2	2.1	2.1	2.1	2.1	2.0
Total number of people (in thousands)		8,494	8,809	9,859	9,785	9,653	9,535	9,440
Average monthly household rent contribution ²	\$	212	\$ 258	\$ 288	\$ 332	\$ 337	\$ 346	\$ 357
Average monthly federal spending per unit ³	\$	421	\$ 503	\$ 631	\$ 687	\$ 693	\$ 743	\$ 765
Average household income	\$ 1	0,300	\$ 11,500	\$ 12,364	\$ 13,726	\$ 13,958	\$ 14,347	\$ 14,835
% extremely low income (<30% median) ⁴		70%	77%	76%	73%	73%	75%	75%
% household headed by female		79%	79%	78%	76%	76%	75%	75%
% minority households		58%	59%	63%	65%	64%	64%	65%
Average months on waiting list 5		22	18	18	26	27	26	26
Average months since moved in ⁶		75	74	84	106	107	110	115

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^{*} Source: Department of Housing and Urban Development.

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Number of units under contract for federal subsidy and available for occupancy.

² Average household contribution towards rent per month (includes utilities).

Average federal spending per unit per month. For public housing, the operating subsidy is divided by the total number of occupied units. For tenant-based Section 8 the housing assistance payment is divided by the total number of reported households. Average total household income per year (shown in thousands of dollars per year). (Numerator includes zero income but excludes missing income; denominator includes all households.)

- 4 % of households with income below 30% of local area median family income, adjusted for household size.
- 5 Average months on waiting list among new admissions. Excludes programs that do not report waiting list dates. (Excludes zero and missing values.)
- ⁶ Average number of months since moved in. (Excludes zero and missing values.)

According to the US Department of Housing and Urban Development (HUD), families that pay more than 30% of their income for housing are considered cost burdened and may have difficulty affording necessities such as food, clothing, transportation, and medical care. An estimated 12 million households pay more than 50% of their annual incomes for housing.

HUD's Office of Housing and Office of Public and Indian Housing administer programs to increase the amount of affordable housing available to low-income households across the nation. The largest of these are Section 8 rental housing assistance programs named after Section 8 of the *Housing Act of 1937*. There are two main Section 8 programs:

- Tenant-based rental assistance through the Housing Choice Voucher Program participants find their own home or apartment and use a voucher to pay for all or part of the rent; and
- *Project-based rental assistance* our Government gives funds directly to apartment owners, who lower the rents they charge low-income tenants.

Within HUD, the Office of Affordable Housing Programs administers the following grant programs designed to increase the stock of housing affordable to low-income households:

- The HOME Investments Partnerships Program provides grants to states and local governments to fund a wide range of activities including building, buying, and/or rehabilitating housing for rent or homeownership or providing direct rental assistance to low-income families. It is the largest federal block grant program for state and local governments designed exclusively to create affordable housing for low-income households; and
- The National Housing Trust Fund supports the acquisition, new construction, or reconstruction of rental units for extremely low-income families or families with incomes below the poverty line, whichever is greater.

In 2017, government housing support generated net revenue of \$31 billion. In some years, the programs have incurred net expenditures and in other years, they have generated net revenue. The aggregate for all the years we tracked (1980 through 2017) was net revenue generation of \$110 billion. Housing support programs have generated net revenue in aggregate because our Government's investments in Fannie Mae and Freddie Mac securities have generated a net \$114 billion in revenue (between 2008 and 2017).

Eligibility and enrollment

Income limits that determine eligibility for assisted housing programs are based on Median Family Income estimates and Fair Market Rent area definitions. The income limits are too numerous to list in this document but are available at https://www.huduser.gov/portal/datasets/il.html.

Funding and financial condition of the program

Affordable housing programs are funded through mandatory expenditures in the annual federal budget. Congress could act to modify or remove the programs' funding, but otherwise, they will continue as scheduled. Affordable housing programs do not have a dedicated federal trust fund.

Student financial aid²⁷

This section discusses student financial aid, excluding direct state appropriations to educational institutions.

(In millions, unless noted)	1980	1990	2000	2010	2016	2017	2018	2019
Federal grants								
Pell Grant expenditures by type of institution:	\$ 2,357	\$ 4,778	\$ 7,209	\$ 29,992	\$ 28,559	\$ 26,894	\$ 28,672	na
Public ¹	na	na	na	\$ 18,145	\$ 19,271	\$ 18,512	\$ 19,951	na
Private ¹	na	na	na	\$ 3,884	\$ 4,568	\$ 4,424	\$ 4,851	na
Proprietary ¹	na	na	na	\$ 7,332	\$ 4,720	\$ 3,958	\$ 3,869	na
Number of valid Pell Grant applicants (in thousands):	3,868	6,165	8,527	16,542	16,431	15,516	15,587	na
Eligible applicants	3,030	4,348	4,903	10,969	11,444	10,555	10,742	na
Ineligible applicants	839	1,818	3,624	5,574	4,988	4,960	4,845	na
Federal Pell Grant recipients (in thousands)	2,538	3,322	3,764	8,094	7,660	7,195	7,112	na
Average Pell Grant (actuals):	\$ 929	\$ 1,438	\$ 1,915	\$ 3,706	\$ 3,728	\$ 3,738	\$ 4,031	na
Minimum grant	\$ 200	\$ 200	\$ 400	\$ 976	\$ 581	\$ 589	\$ 596	na
Maximum grant	\$ 1,800	\$ 2,300	\$ 3,125	\$ 5,350	\$ 5,775	\$ 5,815	\$ 5,920	na
Federal Supplemental Educational Opportunity Grants	\$ 338	\$ 437	\$ 619	\$ 736	\$ 733	\$ 733	\$ 733	\$ 839
Veterans	na	na	\$ 1,629	\$ 8,260	\$ 13,838	\$ 13,182	\$ 13,178	na
Federal Work-Study	\$ 547	\$ 609	\$ 850	\$ 972	\$ 981	\$ 960	\$ 981	\$ 1,120
Federal loans								
Perkins Loan disbursements	\$ 651	\$ 903	\$ 1,101	\$ 818	\$ 1,045	\$ 886	\$ 631	na
Direct loan disbursements by type of institution:	na	na	\$ 10,141	\$ 42,582	\$ 94,478	\$ 93,786	\$ 92,721	\$ 90,191
Public ¹	na	na	\$ 2,554	\$ 9,933	\$ 34,983	\$ 44,487	\$ 43,663	\$ 42,187
Private nonprofit ¹	na	na	\$ 6,930	\$ 22,430	\$ 44,034	\$ 35,830	\$ 36,225	\$ 35,626
Proprietary ¹	na	na	\$ 657	\$ 10,209	\$ 14,172	\$ 12,192	\$ 11,465	\$ 11,001
Foreign ¹	na	na	\$ _	\$ 10	\$ 1,289	\$ 1,278	\$ 1,368	\$ 1,377

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Federal

The Federal Student Aid office of the US Department of Education awards about \$120 billion a year in grants, work-study funds, and low-interest loans to more than 13 million students. Federal student aid covers expenses such as tuition and fees, room and board, books and supplies, and transportation. Aid also can help pay for other related expenses, such as a computer and dependent care. Federal student aid includes:

- Grants financial aid that does not have to be repaid;
- Loans borrowed money for college or career school and repaid with interest; and
- Work Study a work program through which money is earned to help pay for school.

^{**} Source: Department of Education.

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na An "na" reference in the table means the data is not available.

¹ May not add to total. Total expenditures and expenditures by institution type were taken from two separate data sources. In addition, numbers have been rounded.

Student financial aid payments are dispersed in our segment income statements according to the nature of the program and the individual served. Pell Grants are in the General Welfare segment, within standard of living and aid to the disadvantaged. Veterans and military grants are in the Common Defense segment, within national defense and support for veterans. Federal student loans are included in the Secure the Blessings segment, within education.

Eligibility and enrollment

Applicants for federal financial aid for college must complete a Free Application for Federal Student Aid (FAFSA). To qualify, applicants must:

- demonstrate financial need (for most programs);
- be a US citizen or an eligible noncitizen;
- have a valid Social Security number (with the exception of students from the Republic of the Marshall Islands, Federated States of Micronesia, or the Republic of Palau);
- be registered with Selective Service, if a male (men must register between the ages of 18 and 25);
- be enrolled or accepted for enrollment as a regular student in an eligible degree or certificate program;
- be enrolled at least half-time to be eligible for Direct Loan Program funds;
- maintain satisfactory academic progress in college or career school;
- sign the certification statement on the FAFSA stating that:
 - the applicant is not in default on a federal student loan and does not owe money on a federal student grant; and
 - will use federal student aid only for educational purposes; and
- show they are qualified to obtain a college or career school education by:
 - having a high school diploma or a recognized equivalent such as a General Educational Development (GED) certificate;
 - completing a high school education in a homeschool setting approved under state law; or
 - enrolling in an eligible career pathway program and meeting one of the "ability-to-benefit" alternatives.

Funding and financial condition of the program

Federal student aid programs are funded by federal general funds, part of which are mandatory and part of which are discretionary, as well as by repayments of prior loans and interest.

As of September 30, 2019, 42.9 million unduplicated recipients of federal student loans owed a total of \$1.5 trillion or approximately \$35,200 per borrower. Direct loans constituted the largest portion of the total, with \$1.2 trillion owed by 35.1 million unduplicated recipients or approximately \$35,400 per borrower. Of these direct loans, \$686 billion or approximately \$36,400 per borrower were in repayment status, of which \$595 billion or approximately \$37,900 per borrower was current and \$10 billion, or 1% or approximately \$25,600 per borrower, was in technical default (271 days plus delinquent) or transferring to a collection agency, with the remaining balance in various stages of delinquency.

State and local

State and local governments also provide financial aid to students. However, we are not aware of a government source for aggregated information on these programs, so we have not presented any information here.

Welfare - Temporary Assistance for Needy Families (TANF)²⁸

Fiscal year	1980	1990	2000	2010	2016	2017	2018	2019
TANF expenditures (in millions) ¹	na	na \$	24,781 \$	33,255 \$	28,321 \$	28,660 \$	28,720	na
TANF/AFDC average monthly total recipients (in thousands) ²	10,597	11,460	5,943	4,371	2,764	2,565	2,259	na
TANF/AFDC average monthly child recipients (in thousands) ²	7,322	7,755	4,370	3,289	2,124	1,985	1,767	na
TANF/AFDC average monthly families (in thousands) ²	3,642	3,974	2,265	1,848	1,203	1,097	1,013	na
TANF SSP average monthly total recipients ³	na	na	380,522	221,868	1,123,354	1,085,189	975,846	865,573
TANF SSP average monthly child recipients ³	na	na	227,615	132,913	687,479	674,683	615,223	543,247
TANF SSP average monthly total number of families ³	na	na	90,811	69,459	316,810	307,282	222,539	197,644

Source: Department of Health and Human Services.

The Temporary Assistance for Needy Families (TANF) program, often referred to as "welfare," is designed to help needy families with children achieve self-sufficiency by providing temporary cash assistance while aiming to get people off of that assistance, primarily through employment. TANF was created by the Personal Responsibility and Work Opportunity Act instituted in 1996 and is administered by the Department of Health and Human Services (DHHS). The states design and operate programs that accomplish one of the purposes of the TANF program, which are:

- provide assistance to needy families so that children can be cared for in their own homes;
- reduce the dependency of needy parents by promoting job preparation, work, and marriage;
- prevent and reduce the incidence of out-of-wedlock pregnancies; and
- encourage the formation and maintenance of two-parent families.

In 2017, TANF payments were \$29 billion or less than 1% of our Government's aggregate expenditures.

Eligibility and enrollment

State and local agencies are responsible for establishing the eligibility criteria and procedures that apply in their TANF programs, not the federal government. For more information, you can contact your state TANF director's office. You can find their contact information at https://www.acf.hhs.gov/ofa/help.

Funding and financial condition of the program

TANF is funded in part by mandatory federal block grants to the states and by matching state funds (not dollar-for-dollar but according to a formula). Its federal funding source is mandatory expenditures in the annual federal budget. Congress could act to modify or remove the program's funding, but otherwise, it will continue as scheduled. TANF does not have a dedicated trust fund.

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na An "na" reference in the table means the data is not available.

¹ Includes State Separate Programs expenditures

² In 1996, Aid to Families with Dependent Children (AFDC) was replaced by TANF.

³ State Separate Programs (SSP) are assistance programs that are administered by TANF agencies but are paid for wholly from state funds. When SSPs are conducted in a manner consistent with federal regulations, the money states spend on SSPs counts toward federal maintenance-of-effort (MOE) requirements, under which states must sustain a certain level of contribution to the costs of TANF and approved related activities. The 2019 SSP amounts are as of June of 2019.

Research and development

Calendar year (in millions)	1980	1990	2000	2010	2016	2017	2018	2019
Federal R&D outlays by agency ¹								
All agencies	\$29,154	\$62,135	\$76,898	\$131,388	\$109,552	\$110,000	\$117,072	\$127,853
Department of Defense	13,501	36,703	38,519	67,615	42,700	41,292	44,843	49,640
Department of Health and Human Services	3,477	8,309	18,187	34,928	29,522	31,169	32,997	35,778
Department of Energy	4,697	5,508	6,068	8,986	11,855	12,020	14,607	17,173
NASA	3,465	6,324	6,424	7,316	11,937	10,528	10,765	10,759
All other	4,014	5,291	7,700	12,543	13,538	14,991	13,860	14,503
Higher education R&D expenditures (including Federal) ²							
Total higher education	\$6,063	\$16,290	\$30,084	\$61,287	\$71,894	\$75,328	\$79,436	na
Federal government – all agencies ³	4,098	9,640	17,548	37,478	38,847	40,308	42,018	na
Department of Health and Human Services	na	na	na	na	20,660	21,625	22,922	na
Department of Defense	na	na	na	na	5,313	5,636	5,901	na
National Science Foundation	na	na	na	na	5,114	5,207	5,274	na
All other	na	na	na	na	7,691	7,769	7,848	na
State and local government	491	1,324	2,200	3,887	4,034	4,172	4,321	na
Institution funds	835	3,006	5,925	11,943	17,961	19,008	20,438	na
Business	236	1,127	2,156	3,202	4,216	4,429	4,724	na
All other	403	1,191	2,255	4,777	6,836	7,412	7,935	na

[†] Source: National Science Foundation. Details may not add to totals due to rounding.

Our Government spends money on research and development (R&D) to provide for the common defense and promote the general welfare of our citizens and in pursuit of specific goals, such as weapons in an effort to assure the safety and security of US citizens and vaccines against disease. More broadly, R&D spending can foster innovation, which can fuel economic growth, create jobs, and ultimately enhance our Government's financial position by broadening the tax base. Government R&D spending also promotes scientific and engineering skills in the workforce, in an effort to keep the US at the forefront of global innovation.

In 2018, 38% of federal R&D outlays were for the Department of Defense, with most of that devoted to the development of advanced weapons systems such as the Joint Strike Fighter. The Department of Energy also carries out R&D on nuclear weapons, in addition to basic scientific research in areas such as nuclear physics and the biological and environmental sciences. At the National Institutes of Health, which accounts for about a third of federal R&D spending, research is focused in understanding, diagnosing, preventing, and treating illnesses such as cancer and Alzheimer's disease. NASA is funding research for projects, including advanced electronic propulsion systems and space habitation projects.

Much of our Government's research is carried out under contract by private-sector companies or at colleges, universities, hospitals, and private research institutions. Our Government conducts research in several hundred laboratories around the country, such as the Brookhaven National Laboratory in Long Island, New York, and the Los Alamos National Laboratory near Santa Fe, New Mexico.

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Represents pure R&D, excludes facilities and fixed equipment.

² Science and Engineering R&D only.

Federal Expenditures are also counted in Federal R&D Outlays by Agency above. Details may not add to totals, as details and totals were taken from two separate data sources.

Marketing, sales, and distribution

Our Government markets, sells, and distributes services either directly to the public or via contracts with private firms.

Marketing

Our Government uses television, radio, print, the Internet, and social media to advertise and market government services. Many government agencies employ media spokespeople to tout their achievements, build public awareness, and promote their services and build websites to offer information. They may also hire advertising agencies for marketing campaigns. The military uses advertising campaigns to recruit soldiers.

Federal agencies spent \$909 million on advertising in fiscal year 2015, according to an estimate by the Government Accountability Office. The top three advertisers were the Departments of Defense, Health and Human Services, and Homeland Security. These and other agencies spend for purposes such as advertising job openings, federal contracts and sales of surplus property.

Federal agencies also advertise to promote their services or influence public behavior. The Centers for Disease Control, for example, has carried out campaigns to encourage people to quit smoking and get tested for HIV. The Office of National Drug Control Policy is mandated by law to produce advertising campaigns to discourage the use of illegal drugs. State, local, and federal governments use the services of the Ad Council, a non-profit group backed by advertising agencies and media outlets, for free public-service advertising campaigns through a nationwide network of more than 33,000 media outlets. These have included anti-drunk-driving campaigns by the National Highway Traffic Safety Administration and efforts by the US Forest Service to prevent forest fires.

The military uses advertising and marketing campaigns to recruit soldiers and has promoted public goodwill by staging patriotic events at professional sports games. The United States Army Recruiting Command employs about 10,900 recruiters working out of more than 1,400 recruiting stations across the US and overseas.

Many state and local agencies market their services through trade organizations such as the American Public Transportation Association, which lobbies the federal government for funding for local transit systems, carries on campaigns to generate public support for mass transit, and conducts research. Agencies also conduct their own marketing campaigns; the Los Angeles Metro, for example, has an in-house agency that uses billboard advertising to encourage residents to leave their cars at home and use public buses, rail or carpooling instead.

Sales

Many government services are sold directly to the public. State and local governments provide higher education via networks of state and county colleges, universities, and community colleges, and deliver health at state and county hospitals. Postal services are sold through the federal government's network of over 31,000 retail outlets. Customers pay for transportation when they buy rides on local bus and subway networks and pay tolls on highways. Many states and counties have a monopoly on distribution and sales of some or all alcoholic beverages, often through chains of government-operated retailers.

Distribution

Our Government sometimes use third-party distributors to carry out government objectives. Private universities and research institutions conduct government-funded research. Healthcare funded under government programs such as Medicare and Medicaid may be delivered by private health-care practitioners, hospitals, and clinics, in addition to public hospitals. Lottery tickets are sold through retailers such as convenience stores and gasoline stations.

Public and cooperative utilities supply services such as water, sewage treatment, electricity, and natural gas directly to commercial, residential, and industrial customers through dedicated distribution networks. The Tennessee Valley Authority, a federally owned utility that generates hydroelectric power, supplies electricity to most of Tennessee and parts of six other states. It sells power wholesale, about half to federal agencies and half to large industries and locally owned municipal and cooperative distribution systems.

Reporting segments

When businesses report their financial results, they organize them into "segments." A segment is a portion of an organization that engages in activities from which it may earn revenue and incur expenses, has discrete financial information available, and whose results are regularly reviewed by the organization's decision maker(s) for performance assessment and resource allocation decisions. This framework is what the business itself, investors, and the media use to explain in a common language the financial results and operations of the company. Adopting a similar framework, we have chosen to report our Government's operations in four segments – Justice and Domestic Tranquility (JDT), Common Defense (CD), General Welfare (GW), and Blessings of Liberty (BL), aligned with the preamble to the US Constitution:

"We the People of the United States, in Order to form a more perfect Union, establish Justice, ensure domestic Tranquility, provide for the common defense, promote the general Welfare, and secure the Blessings of Liberty to ourselves and our Posterity, do ordain and establish this Constitution for the United States of America."

Federal, state, and local governments play a role in each of these segments. Some initiatives reported herein as state and local government activities and related expenditures were funded by transfers from the federal government. So, though the state and local governments fulfill them, they originate with the federal government.

We do not report revenues by segment but do report expenditures and key metrics on a segment basis. Certain expenditures, including 2% of total fiscal year 2017 expenditures, are not allocated to any segment and are categorized as general government support, outside of our reporting segments. These expenditures are for the costs of central government functions, including general property and records management, financial management, Congress, and general claims against our Government that our Government has not allocated to one agency.

Justice and Domestic Tranquility

This segment works to establish justice and ensure domestic tranquility among the US population, keeping citizens safe, alive, and living in peace with one another. To do this, our Government works to reduce crime, administer justice, mitigate and prevent disasters, help populations who cannot protect themselves (such as children), protect people from dangerous products, businesses, and commercial practices, and prevent accidents of all kinds. In 2017, 7% or \$448 billion of our Government's expenditures were made by this segment.

The Justice and Domestic Tranquility segment can be further divided into the following reporting units, with their associated key initiatives, departments, and metrics.

Crime and disaster (\$338 billion in spending in 2017)

- Key initiatives reduce crime, administer justice, and mitigate and prevent disasters, including fires
- Key departments Department of Justice, Department of Homeland Security (primarily Federal Emergency Management Agency), and Judicial Branch (primarily courts of appeals, district courts, and other judicial services) at the federal level and state and local police, correctional, judicial, and fire departments
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) numbers of crimes reported, arrests, people incarcerated, fire incidents and related civilian deaths, disaster declarations and related aid

Safeguarding consumers and employees (\$23 billion in spending in 2017)

- Key initiatives keep people away from harm by regulating, primarily commercial interests, including consumer product safety, financial protection and regulation, workplace safety and labor fairness, and transportation safety
- Key departments Department of Health and Human Services (primarily Food and Drug Administration),
 Department of Agriculture (primarily Food Safety and Inspection Service), Department of Labor (primarily
 Occupational Safety and Health Administration and Mine Safety Administration), Federal Trade Commission,
 and Securities and Exchange Commission at the federal level and state and local protective inspection and
 regulation offices
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) numbers of consumer complaints and consumer product injuries, transportation crashes and fatalities, workplace violations, fatal and non-fatal workplace injuries, and back wages recovered

Child safety and miscellaneous social services (\$87 billion in spending in 2017)

- Key initiatives maintain the welfare and safety of all children, including through child protective services, child welfare, and foster care programs
- Key departments Department of Health and Human Services (primarily Administration for Children and Families), Department of Education (primarily Office of Special Education and Rehabilitative Services), Corporation for National and Community Service, and Office of Social Innovation and Civic Participation at the federal level and state and local child welfare offices
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) numbers of child victims and fatalities, children in foster care and their time spent there, foster children reunited with family or adopted, and children in poverty

State and local governments perform most Justice and Domestic Tranquility activities.

A little more than 75% of this segment's expenditures are for crime and disaster. The key drivers of crime and disaster costs are costs of police protection operations and corrections, driven by the number of employees, facilities, and crimes committed. The drivers of the most significant fluctuations in annual crime and disaster costs are generally the occurrence and magnitude of natural disasters. Excluding costs of natural disasters, 36% of the segment's expenditures are for payroll for current employees.

Common Defense

This segment works to provide for the common defense of the US population and citizens abroad by protecting them from external threats. To do so, our Government prevents conflict where possible, engages in conflict when threatened, manages relationships with other nations, and keeps the US borders secure. To achieve these goals, our Government operates a military and provides benefits to veterans. It also manages immigration, controls entrance to the country at the borders, and operates a diplomatic force around the world that promotes American ideals and values on behalf of its citizens. In 2017, 14% or \$835 billion of our Government's expenditures were made by this segment.

The Common Defense segment can be further divided into the following reporting units, with their associated key initiatives, departments, and metrics.

National defense and support for veterans (\$774 billion in spending in 2017)

- Key initiatives operate a military, including raise an army, navy, and air force, employ troops, provide benefits to veterans, and invest in defense technology and equipment
- Key departments Department of Defense, Department of Veterans Affairs (primarily the Veterans Health Administration), Department of Energy (primarily the National Nuclear Security Administration and

- Environmental and Other Defense Activities), and Department of Justice (primarily the Federal Bureau of Investigation) at the federal level and veterans' services offices at the state level
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) numbers of military personnel deployed, military deaths, civilian deaths overseas, veterans, and unique Veterans Affairs patients, and rates of veteran unemployment, poverty, and disability

Immigration and border security (\$15 billion in spending in 2017)

- Key initiatives maintain a system for immigration and control entrance to the country at the borders, including managing visas, Green Cards, and customs
- Key departments Department of Homeland Security (primarily US Customs and Border Protection, US Immigration and Customs Enforcement, and Citizenship and Immigration Services) at the federal level
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) the estimated numbers of immigrants who are in the US without authorization and the numbers of those who were removed or returned, border apprehensions, numbers of naturalizations, Green Cards, and visas granted, intellectual property and drug seizures, and airport firearm discoveries

Foreign affairs and foreign aid (\$46 billion in spending in 2017)

- Key initiatives operate a diplomatic force around the world, including embassies and ambassadors, that promotes American ideals and values on behalf of its citizens, and provide economic and military foreign assistance
- Key departments Department of State and International Assistance Programs at the federal level
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) number of US passports in circulation, and foreign aid obligations

Nearly all Common Defense activities are performed by the federal government, though the states do provide certain veterans services.

More than 70% of the expenditures of this segment are for national defense activities and are driven mainly by investment in preparation for future military conflicts and the occurrence and magnitude of conflicts. The costs are largely for personnel, equipment procurement, operations and maintenance, and services. Federal military employee wages and salaries was \$109 billion in 2017.

General Welfare

This segment works to promote the general welfare of the US population by maximizing the day-to-day experience of the population and enabling them to live happy, healthy, productive lives and contribute to society. To do this, our Government works to stimulate the economy through investment and business promotion with the ultimate goal that every American who wants a job has one that pays a livable wage. Our Government attempts to balance taxes with income so Americans can have the standard of living they desire, while also providing a minimum standard of living through welfare and transfer programs for those in need. Government promotes good health as the foundation of a good standard of living, and it manages the structure of the healthcare industry so that people who do get sick can afford care. Finally, our Government operates services as businesses where they otherwise may not exist, such as the post office and transit systems. In 2017, 23% or \$1,408 billion of our Government's expenditures were made by this segment, with a third spent by the federal government and the remainder by state and local governments.

The General Welfare segment can be further divided into the following reporting units, with their associated key initiatives, departments, and metrics.

Economy and infrastructure (\$261 billion in spending in 2017)

- Key initiatives stimulate the economy through tax policy, investment, business promotion, and trade and operate services as businesses where they otherwise may not exist (for example, post offices, transit, utilities, lotteries see the full list at Exhibit 99.04 and quantification of key businesses in Note 24 Offsetting amounts in Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements within this annual report)
- Key departments Department of Homeland Security (primarily United States Coast Guard and Transportation Security Administration), Department of Transportation (primarily Federal Aviation Administration), Federal Deposit Insurance Corporation, Federal Communications Commission, Department of the Treasury, National Science Foundation, Department of Energy, Department of Commerce, National Credit Union Administration, and US Postal Service at the federal level and liquor stores, lotteries, airports, ports, highways, mass transit, and parking facilities at the state and local level
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) numbers of new businesses and businesses that close, bankruptcy filings, bank failures, new home sales and prices, gross rents and vacancy rates, gross domestic product (GDP), values of the S&P 500, private investment, our net trade deficit, total employment, jobs per person in the working age population, median annual and federal minimum wages, and the condition of our roads and bridges

Standard of living and aid to the disadvantaged (\$986 billion in spending in 2017)

- Key initiatives manage a fair tax structure, provide a minimum standard of living through welfare and transfer programs for those in need
- Key programs Earned Income Tax Credit, SNAP, Unemployment Insurance, Student Financial Aid (primarily Pell Grants), Subsidized Housing, TANF, SSI, Medicaid and CHIP
- Key departments Department of the Treasury (primarily Internal Revenue Service), Department of Agriculture (primarily Food and Nutrition Service), Social Security Administration, Department of Labor (primarily Employment and Training Administration), Department of Education (primarily Office of Federal Student Aid), Department of Housing and Urban Development, and Department of Health and Human Services (primarily Indian Health Service) at the federal level and state and local departments of housing and community development and welfare offices
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) overall and child poverty rates, numbers of people in subsidized housing, and the amount of purchases a family makes in a year (an indicator of standard of living)

Health (excluding Medicaid and Medicare) (\$161 billion in spending in 2017)

- Key initiatives promote good health as the foundation of a good living and manage the structure of the healthcare industry as well as public health and health regulation
- Key departments Department of Health and Human Services at the federal level and state and local public hospitals
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) life expectancy at birth, average age at death, deaths from various sicknesses, percentages of adults who suffer from certain health conditions, and the amount of money individuals spend on healthcare

Approximately 70% of this segment's expenditures are spent on standard of living and aid to the disadvantaged. These expenditures are driven primarily by macroeconomic conditions, including the health of the overall economy and costs of healthcare, housing, and food, which influence enrollment in, and program costs of, Medicaid and CHIP, SNAP, housing assistance, and other poverty-based programs.

Blessings of Liberty

This segment works to secure the blessings of liberty to the US population, which it does through investing in the future. Our Government invests in the future by providing educational opportunities and standards, promoting retirement savings and homeownership, and mandating savings through Social Security and Medicare. In order to prevent future conflict and destabilization, our Government manages its debt to limit the burden on future generations, protects the environment and manages natural resources, works to maintain a healthy democracy, and supports opportunity for economic mobility for each individual. In 2017, 53% or \$3,236 billion of our Government's expenditures were made by this segment.

The Blessings of Liberty segment can be further divided into the following reporting units, with their associated key initiatives, departments, and metrics.

Education (\$937 billion in spending in 2017)

- Key initiatives increase educational attainment in the US
- Key programs Student Financial Aid (state aid and federal student loans)
- Key departments Department of Education (primarily Office of Federal Student Aid and Office for Postsecondary Education) and Department of the Treasury (primarily Internal Revenue Service, for refundable American Opportunity Credits) at the federal level and school districts, schools, and libraries at the state and local level
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) Head Start funded and other pre-kindergarten enrollment, public school enrollment, reading and math skills, high school graduation and GED rates, college enrollment, the cost of college, and higher education graduation rates

Wealth and savings (\$2,191 billion in spending in 2017)

- Key initiatives encourage wealth creation through tax incentives and tools for homeownership and saving for retirement through pension plans, Social Security, and Medicare, and maintain a manageable balance between current expenditures and future debt
- Key programs Social Security and Medicare
- Key departments Department of the Treasury, Social Security Administration, and Department of Health and Human Services (primarily Centers for Medicare and Medicaid Services) at the federal level
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) rates of savings, total and average household financial assets and mortgage debt, rates of homeownership, poverty of the elderly (over 65), retirement plan participation and performance, and national debt held by the public as a percentage of Gross Domestic Product (GDP) and per capita

Sustainability and self-sufficiency (\$108 billion in spending in 2017)

- Key initiatives protect the environment, manage natural resources responsibly, and maintain national self-sufficiency, including energy and agriculture
- Key departments Department of Agriculture, Environmental Protection Agency, Corps of Engineers Civil Works,
 Department of the Interior, Department of Commerce (primarily National Oceanic and Atmospheric Administration),
 and Department of Energy at the federal level and utilities (including energy, water, sewer, and solid waste
 management) and departments of forestry, fish and game, and parks and recreation at the state and local level
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) emissions; numbers of days with unhealthy air quality; percentage of assessed waters threatened or impaired; primary and net energy consumption; energy consumption from renewable sources; air, drinking water, hazardous waste and pesticide violations; crops harvested and crop failures; and our net agricultural surpluses

American Dream (\$2 billion in spending in 2017, also included within other subsegments)

- Key initiatives increase intergenerational economic mobility, build strong communities throughout the US, and encourage philanthropy and civic participation, including voting
- Key departments Department of Justice (primarily Civil Rights Division), Corporation for National and Community Service, Federal Election Commission
- Key metrics (see Item 7. Management's Discussion and Analysis, Key metrics by segment) rates of children with parents in the bottom income quintiles making it to a higher income quintile, numbers of hate crime incidents, equal employment charges, housing discrimination complaints, health discrimination investigations, citizen voting in presidential and midterm elections, rates of volunteering, and amounts of charitable giving

Over 60% of the segment's expenditures are spent by the federal government, while the remainder is spent by state and local governments.

Nearly 50% of this segment's expenditures are for Social Security and Medicare payments, which are driven primarily by the number and mix of beneficiaries and for Medicare, the costs of healthcare, and premiums paid by enrollees. Another nearly 30% of this segment's expenditures are for education, which are driven primarily by the number of government employees in the education sector and their salaries and related benefits, and by student fees, including tuition, room, board, and event entrance fees.

Customers

Our Government's customers are the individuals living in the US and US citizens living overseas, including members of the armed forces. As of July 1, 2017, the population of the US, excluding US territories, was 325 million. The population of the US is growing but at a rate that is generally decelerating; the population of the US grew 1% during each of the years ended July 1, 2017 and July 1, 2016, 15% in the 17 years following July 1, 2000, and 43% in the 37 years following July 1, 1980.

Demographics of our population

Below are tables with demographics of our population, as follows:

- the first two tables show demographics of our overall population, first combined and then by race and ethnicity;
- the third and fourth tables show demographics of our largest non-white race population (African-American people) and our largest ethnic population (Hispanic people), respectively; and
- the fifth and sixth tables show demographics for our native-born and foreign-born populations, respectively.

Population demographics

	1980	1990	2000	2010	2015	2016	2017	2018	2019
Total population (in thousands) 1,4	227,225	249,623	282,162	309,322	320,635	322,941	324,986	326,688	328,240
Population change ²	2,920	2,588	2,457	2,395	2,334	2,306	2,044	1,702	1,552
Natural	2,021	1,959	1,579	1,659	1,293	1,259	1,114	1,000	957
Births	4,492	4,114	3,966	4,150	3,992	3,963	3,902	3,825	3,792
Deaths	2,471	2,155	2,387	2,491	2,700	2,703	2,788	2,824	2,835
Net migration	na	na	878	735	1,042	1,047	930	702	595
Residual ³	899	534		_		_	_	_	
Age and gender 1,4,6									
Male	48.6%	48.8%	49.1%	49.2%	49.2%	49.2%	49.2%	49.2%	na
Female	51.4%	51.2%	50.9%	50.8%	50.8%	50.8%	50.8%	50.8%	na
<5 years of age	7.2%	7.6%	6.8%	6.5%	6.2%	6.2%	6.1%	6.1%	na
5 to 14 years	15.3%	14.1%	14.6%	13.3%	12.8%	12.7%	12.6%	12.6%	na
15 to 24 years	18.7%	14.8%	14.0%	14.1%	13.7%	13.5%	13.3%	13.2%	na
25 to 34 years 35 to 44 years	16.5% 11.4%	17.3% 15.1%	14.1% 16.0%	13.3% 13.2%	13.7% 12.6%	13.9% 12.6%	14.0% 12.6%	14.0% 12.6%	na
45 to 54 years	10.0%	10.1%	13.5%	14.5%	13.4%	13.3%	13.0%	12.0%	na na
55 to 64 years	9.6%	8.5%	8.7%	11.9%	12.7%	12.8%	12.9%	12.9%	na
65+ years	11.3%	12.5%	12.4%	13.1%	14.9%	15.3%	15.6%	16.0%	na
18+ years	71.9%	74.4%	74.3%	76.0%	77.2%	77.3%	77.6%	77.7%	na
Median age (years)	30.0	33.0	35.3	37.2	37.8	37.9	38.0	38.2	na
Race and ethnicity 1.4,5	30.0	33.0	33.3	37.2	37.0	31.5	30.0	30.2	Tid
White	85.7%	83.9%	81.0%	78.3%	77.2%	77.0%	76.8%	76.6%	na
Black/African American	11.7%	12.3%	12.7%	13.0%	13.3%	13.3%	13.4%	13.4%	na
Asian	1.6%	3.0%	4.0%	4.9%	5.6%	5.7%	5.8%	5.9%	na
American Indian/Alaska Native	0.6%	0.8%	1.0%	1.4%	1.5%	1.5%	1.5%	1.3%	na
Other/Mixed Race	na	na	1.4%	2.3%	2.6%	2.6%	2.7%	3.0%	na
Hispanic	6.4%	9.0%	12.6%	16.4%	17.6%	17.9%	18.1%	18.3%	na
Non-Hispanic, White only	na	75.6%	69.4%	63.8%	61.7%	61.3%	60.9%	60.5%	na
Regional 1,4									
Northeast	21.6%	20.4%	19.0%	17.9%	17.5%	17.4%	17.2%	17.2%	17.1%
Midwest	25.9%	24.0%	22.9%	21.7%	21.2%	21.1%	21.0%	20.9%	20.8%
South	33.3%	34.4%	35.6%	37.1%	37.7%	37.9%	38.0%	38.1%	38.3%
West	19.1%	21.3%	22.5%	23.3%	23.6%	23.7%	23.8%	23.8%	23.9%
Educational attainment 7									
Population 25 years and over (in thousands)	na	158,868	175,230	199,928	212,132	215,015	216,921	219,830	na
Less than high school graduate	na	24.8%	15.9%	12.9%	11.6%	10.9%	10.4%	10.2%	na
High school graduate	na	30.0%	33.1%	31.2%	29.5%	28.8%	28.8%	28.5%	na
Some college or associate's degree	na	24.9%	25.4%	26.0%	26.4%	26.8%	26.6%	26.3%	na
Bachelor's degree	na	13.1%	17.0%	19.4%	20.5%	20.8%	21.3%	21.9%	na
Graduate or professional degree	na	7.2%	8.6%	10.5%	12.0%	12.6%	12.8%	13.1%	na
Households and families 7, 8, 10, 11	00.776	02.247	104 705	117 520	124 507	125.010	126 224	127.506	120 570
Total households (in thousands) Total family households (in thousands)	80,776	93,347	104,705	117,538	124,587	125,819	126,224	127,586	128,579
% total households married no kids	59,550 29.9%	66,091 29.8%	72,026 28.7%	78,833 28.8%	81,716 28.9%	82,183 29.0%	82,828 29.4%	83,088 29.3%	83,482 29.7%
% total households married parents	30.9%	26.3%	24.1%	20.9%	19.3%	18.9%	18.7%	18.7%	18.5%
% total households single fathers	0.8%	1.2%	1.7%	1.9%	1.9%	2.0%	1.9%	1.9%	1.9%
% total households single mothers	6,7%	7.1%	7.2%	7.2%	6.9%	6.8%	6.5%	6.4%	6.0%
% total households other family	5.4%	6.5%	7.0%	8.3%	8.6%	8.7%	9.0%	8.8%	8.8%
Total non-family households (in thousands)	21,226	27,257	32,680	38,705	42,871	43,635	43,396	44,498	45,096
% total households single person	22.7%	24.6%	25.5%	26.7%	28.0%	28.1%	27.9%	28.0%	28.4%
% total households multiple people non-family	3.6%	4.6%	5.7%	6.2%	6.4%	6.6%	6.5%	6.9%	6.7%
Young adults (25-34 years) living at home (in thousands)	3,194	4,987	3,989	5,520	6,509	7,020	7,108	7,537	7,580
Rate of young adults living at home	8.7%	11.5%	10.6%	13.4%	15.1%	16.0%	16.1%	16.8%	16.8%
Average household size	2.76	2.63	2.62	2.59	2.54	2.53	2.54	2.53	2.52
Average family size	3.29	3.17	3.17	3.16	3.14	3.15	3.14	3.14	3.14
Marital status (age 15 years+) 7,9									
Currently married	61.0%	58.7%	56.2%	53.6%	52.4%	52.1%	52.4%	52.1%	52.3%
All men	63.2%	60.7%	57.9%	54.8%	53.7%	53.4%	53.8%	53.4%	53.6%
All women	58.9%	56.9%	54.7%	52.4%	51.2%	50.8%	51.0%	50.8%	51.1%
Net divorce rate ¹²	7.8%	10.7%	12.9%	14.1%	14.8%	14.6%	14.5%	14.6%	14.3%
All men	7.8% 6.8%	9.7%	12 .9% 12.1%	1 4.1% 12.9%	1 4.8% 13.6%	13.2%	14.5% 13.3%	14.6% 13.4%	1 4.3% 12.9%
All women	8.6%	11.5%	13.6%	15.2%	15.9%	15.8%	15.5%	15.6%	15.5%
, onicii	0.070	11.570	13.070	13.270	13.370	13.070	13.370	13.070	13.370

[†] Source: US Census Bureau.

We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail" to access it.

- ^{na} An "na" reference in the table means the data is not available.
- Population statistics for 1980, 1990, 2000, and 2010 are from the decennial census published April 1 each decade. All other years are from official intercensal estimates and postcensal estimates produced on July 1 of each year. For years 1990 forward, census data was exported from the CDC WONDER database.
- ² Components of population change are from yearly intercensal estimates taken on July 1 of each year. Estimates have not been revised for all years and as a result total population change does not always add to the gap between annual population estimates. For 2010 forward, population change has not been revised. The difference between annual population change estimates and change in estimated total population have been included in the residual.
- The "residual" shown here includes the components of population change: net international migration, Federal Citizen movement, net domestic migration, and a statistical residual. For post-1990 estimates, the estimates methodology was refined to allow separate identification of these components. The 2010 and forward components of population change include an unstated residual which is the gap between revised population estimates and change estimates reported each year.
- ⁴ Total population estimates by the Census Bureau are produced in March of each year while the demographic statistics are produced in July. All figures will be updated when full data is available in July.
- Race categories have been redefined many times in the history of the census. Due to the ability to choose "some other race" in census years and select more than one race in 2000 and later, race estimates in census years sometimes vary significantly from intercensal estimates.
- 6 1980 population by age comes from revised 1980 numbers as found in intercensal estimate documents from 1990.
- ⁷ Educational attainment, living arrangements, marital status, and household and family statistics are from the Current Population Survey Annual Social and Economic Supplement produced in March of each year. It includes the civilian non-institutional population plus armed forces living off post or with their families on post.
- 8 1980 data was revised based on census estimates. The 2014 CPS ASEC included redesigned questions for income and health insurance coverage. All of the approximately 98,000 addresses were selected to receive the improved set of health insurance coverage items. The improved income questions were implemented using a split panel design. Approximately 68,000 addresses were selected to receive a set of income questions similar to those used in the 2013 CPS ASEC. The remaining 30,000 addresses were selected to receive the redesigned income questions. The source of data for this table is the CPS ASEC sample of 98,000 addresses.
- 9 Marital status includes householders whose race was reported as only one race (rather than in combination with one or more other races) after 2003.
- ¹⁰ A household is an occupied housing unit.
- 11 In table titles, "family" is used to refer to a family household. In general, family consists of those related to each other by birth, marriage or adoption.
- ¹² Net divorce rate is calculated as currently divorced as a percentage of ever married.

From 1980 through 2017, our population has remained 49% male and 51% female but has shifted in the ways discussed below.

We're getting older – the median age of our population has increased by 8 years or 27%, from 30.0 years old in 1980 to 38.0 years old in 2017.

We're becoming more diverse racially, ethnically, and in our country of origin -

- The US population of non-Hispanic white people has decreased 15 percentage points since 1990 to 61% of our population in 2017, with other races and ethnicities increasing over this same time.
- The share of foreign-born individuals within our population has increased 3 percentage points since 2000 to 14% of our population in 2017. Foreign-born individuals:
 - have a higher labor participation rate (66% in 2017) than native-born individuals (63% in 2017);
 - work in more manual jobs (e.g. service, natural resources, construction, maintenance, moving); and
 - have lower annual earnings (40% earned \$50,000 or more in 2017) than native-born individuals (49% earned \$50,000 or more in 2017).
- Our annual population growth from migration (0.9 million in 2017) is approaching the growth from births and deaths (1.1 million in 2017).

We're moving south and west – our population is migrating from the Northeast and Midwest to the South and West. States range in population from just under 600,000 (Wyoming) to over 39 million (California).

We're becoming more educated – the rate of individuals with less than a high school diploma has decreased 14 percentage points since 1990 to 10%, while the share of adults 25 years and over with at least some college experience has increased 16 percentage points to 61% in 2017.

The composition of our households and families is changing – our total number of households has increased, but:

- the size of the average household (a person or people residing together in a housing unit) has decreased 0.2 people or 8% since 1980 to 2.5 people per household in 2017, as more people are living alone and fewer people are having children;
- the size of the average family (two or more people related by birth, marriage, or adoption and residing together) has decreased 0.2 people or 5% since 1980 to 3.1 people per family in 2017;

- the share of households that comprise married families has decreased 13 percentage points since 1980 to 48% in 2017, while the share of households that comprise unmarried individuals or families have increased 13 percentage points to 52% in 2017;
- the share of our population that is currently married has decreased 9 percentage points for men and 8 percentage points for women since 1980 to 54% and 51%, respectively, in 2017, while the rate of individuals currently divorced has increased 7 percentage points for men and 7 percentage points for women to 13% and 16%, respectively, in 2017; and
- the number of young adults (25 34 years old) living at home has increased 123% since 1980 to 7.1 million or 16% of all young adults in 2017.

Demographics by race and ethnicity

For US federal government reporting, race and ethnicity are two separate and distinct concepts that generally reflect social definitions recognized in this country and do not conform to any biological, anthropological, or genetic criteria. Data for ethnicity is reported as Hispanic or non-Hispanic. Hispanic origin can be viewed as the heritage, nationality, lineage, or country of birth of the person or the person's parents or ancestors. People who identify as Hispanic may be any race. People may choose to report more than one race to indicate their racial mixture, such as "American Indian" and "White." Federal government agencies report data for at least five race categories: White, Black or African American, American Indian or Alaska Native, Asian, and Native Hawaiian or Other Pacific Islander.

	1980	1990	2000	2010	2015	2016	2017	2018
Total population (in thousands)	227,225	249,623	282,162	309,322	320,635	322,941	324,986	326,688
White	194,713	209,367	228,530	242,244	247,585	248,619	249,619	na
Black/African American	26,683	30,648	35,815	40,358	42,608	43,059	43,500	na
Asian	3,729	7,549	11,173	15,267	17,860	18,428	18,989	na
Hispanic	14,609	22,573	35,662	50,753	56,505	57,733	58,947	na
Poverty rate of all persons	13.0%	13.5%	11.3%	15.1%	13.5%	12.7%	12.3%	11.8%
White population ¹	10.2%	10.7%	9.5%	13.0%	11.6%	11.0%	10.5%	10.1%
Black ¹	32.5%	31.9%	22.5%	27.4%	24.1%	22.0%	21.7%	20.8%
Asian ¹	na	12.2%	9.9%	12.2%	11.4%	10.1%	9.7%	10.1%
Hispanic	25.7%	28.1%	21.5%	26.5%	21.4%	19.4%	18.3%	17.6%
Crime								
Total arrests (in thousands) ⁶	10,458	14,217	13,986	13,122	10,797	10,662	10,555	10,311
White	74.0%	69.8%	68.9%	69.5%	69.7%	69.6%	68.9%	69.0%
Black/African American	24.2%	28.3%	28.8%	27.9%	26.6%	26.9%	27.2%	27.4%
American Indian/Alaska Native	1.2%	1.1%	1.3%	1.4%	2.1%	2.0%	2.4%	2.1%
Asian/Pacific Islander	0.6%	0.8%	1.1%	1.2%	1.5%	1.5%	1.5%	1.4%
Total sentenced prisoners (in thousands) 7	330	774	1,394	1,614	1,527	1,508	1,489	na
White (non-Hispanic) ⁸	na	na	35.6%	31.2%	30.5%	30.2%	30.3%	na
Black (non-Hispanic) ⁸	na	na	46.2%	36.9%	33.8%	33.4%	33.1%	na
Hispanic	na	na	16.4%	22.3%	22.6%	23.3%	23.4%	na
High school dropout rate ²	14.1%	12.1%	10.9%	7.4%	5.9%	6.1%	5.8%	na
White	11.4%	9.0%	6.9%	5.1%	4.6%	5.2%	4.6%	na
Black	19.1%	13.2%	13.1%	8.0%	6.5%	6.2%	5.7%	na
Hispanic	35.2%	32.4%	27.8%	15.1%	9.2%	8.6%	9.5%	na
College graduation rate (at 4 yr institutions, within 6 yrs of start) ³	na	na	na	57.8%	59.6%	59.4%	59.8%	na
White	na	na	na	61.1%	63.2%	63.3%	63.9%	na
Black	na	na	na	39.5%	40.9%	39.5%	39.7%	na
Hispanic	na	na	na	49.1%	53.5%	53.6%	54.4%	na

	1980	1990	2000	2010	2015	2016	2017	2018
Civil rights violations								
Equal employment charges	na	na	79,896	99,922	89,385	91,503	84,254	76,418
By race	na	na	28,945	35,890	31,027	32,309	28,528	24,600
By ethnicity/national origin	na	na	7,792	11,304	9,438	9,840	8,299	7,106
By color	na	na	1,290	2,780	2,833	3,102	3,240	3,166
Hate crimes based on race/ethnicity/ancestry ⁴	na	na	5,248	3,982	3,310	3,489	4,131	4,047
Employment (as % of working-age population) ⁵								
White	60.0%	63.7%	64.9%	59.4%	59.9%	60.2%	60.4%	60.7%
Black	52.3%	56.7%	60.9%	52.3%	55.7%	56.4%	57.6%	58.3%
Asian	na	na	64.8%	59.9%	60.4%	60.9%	61.5%	61.6%
Hispanic	57.6%	61.9%	65.7%	59.0%	61.6%	62.0%	62.7%	63.2%
% of births to mothers under 18 (by race of mother)	na	4.7%	4.1%	2.8%	1.6%	1.4%	1.3%	1.2%
White	na	3.6%	3.5%	2.5%	1.5%	0.8%	0.8%	0.7%
Black/African American	na	10.1%	7.8%	4.9%	2.6%	2.3%	2.0%	1.9%
Asian/Pacific Islander	na	2.1%	1.5%	0.7%	0.4%	0.2%	0.2%	0.2%
Hispanic/Latina (of any race)	na	6.6%	6.3%	4.7%	2.7%	2.5%	2.3%	2.1%
Life expectancy at birth	73.7	75.4	76.8	78.7	78.7	78.7	78.6	78.7
White	74.4	76.1	77.3	78.9	78.9	78.6	78.5	na
Black	68.1	69.1	71.8	75.1	75.5	74.9	74.9	na
Hispanic	na	na	na	81.7	81.9	81.8	81.8	na
Mortality rate (per 100,000 persons)	878.3	863.8	854.0	799.5	844.0	849.3	863.8	867.8
White	892.5	888.0	900.2	861.7	915.9	919.3	936.6	939.9
Black/African American	875.4	871.0	781.1	682.2	713.4	732.3	742.4	754.1
Asian/Pacific Islander	296.9	283.3	296.6	301.1	331.7	340.0	349.3	355.9
American Indian/Alaska Native	487.4	402.8	380.8	365.1	415.4	425.6	434.6	438.2
Hispanic	na	na	303.8	286.2	317.1	327.6	334.6	341.9
Non-Hispanic	na	na	929.6	897.6	952.4	958.8	977.4	982.6
Infant (under 1 year old) mortality (per 1,000 births)	na	8.9	6.9	6.1	5.9	5.9	5.8	na
White	na	7.3	5.7	5.2	4.9	4.9	4.9	na
Black/African American	na	16.9	13.5	11.2	11.0	10.8	10.4	na
Asian/Pacific Islander	na	6.6	4.9	4.3	4.2	4.0	4.2	na
Hispanic/Latina (of any race)	na	7.5	5.6	5.3	5.0	5.0	5.1	na
Number of children in foster care on September 30	na	na	552,000	404,878	437,328	436,551	442,995	437,283
White	na	na	38%	41%	45%	44%	44%	44%
Black	na	na	39%	29%	23%	23%	23%	22%
Hispanic	na	na	15%	21%	20%	21%	21%	22%
Asian	na	na	1%	1%	1%	1%	—%	—%

^{*} Sources: US Census Bureau, Bureau of Labor Statistics, Centers for Disease Control and Prevention, Department of Health and Human Services, Bureau of Justice Statistics, Federal Bureau of Investigation, National Center for Education Statistics.

^{na} An "na" reference in the table means the data is not available.

¹ Includes mixed races prior to 2002.

² 16-24 years old who are not enrolled in school and who have not completed a high school program, regardless of when they left school.

Data are for 4-year degree-granting postsecondary institutions participating in Title IV federal financial aid programs. Graduation rates refer to students receiving bachelor's degrees from their initial institutions of attendance only. Graduation rate is for cohort starting six years earlier. Totals include data for persons whose race/ethnicity was not reported. Race categories exclude persons of Hispanic ethnicity.

⁴ A hate crime is a traditional offense like murder, arson, or vandalism with an added element of bias. For the purposes of collecting statistics, the FBI has defined a hate crime as a "criminal offense against a person or property motivated in whole or in part by an offender's bias against a race, religion, disability, sexual orientation, ethnicity, gender, or gender identity." Hate itself is not a crime – and the FBI is mindful of protecting freedom of speech and other civil liberties.

⁵ Total employment is from the current employment statistics (CES) survey and represents average annual national non-farm employment. All self-employed workers, both incorporated and unincorporated, are excluded from these earnings estimates.

⁶ Arrests include each separate instance in which a person is arrested, cited, or summoned for an offense. A single arrest may be for a single criminal incident or for many incidents that occurred over a long time period. Because a person may be arrested multiple times during a year, arrest figures do not reflect the number of individuals who have been arrested. Rather, the arrest data show the number of times that persons are arrested, as reported by law enforcement agencies. Data reflect the hierarchy of offenses, meaning that the most serious offense in a multiple-offense arrest instance is used to characterize the arrest.

Sentenced prisoners are prisoners with sentences of more than 1 year under the jurisdiction of state or federal correctional officials.

⁸ Data source used to estimate race and Hispanic origin changed in 2010. Use caution when comparing to prior years.

African-American population

	1980	1990	2000	2010	2015	2016	2017	2018
African-American population (in thousands)	26,683	29,931	34,658	40,357	42,561	43,003	43,410	43,804
% of total population	11.8%	12.0%	12.3%	13.0%	13.3%	13.3%	13.4%	13.4%
Age and gender								
Male	47.3%	47.2%	47.5%	47.7%	47.9%	47.9%	47.9%	47.9%
Female	52.7%	52.8%	52.5%	52.3%	52.1%	52.1%	52.1%	52.1%
<5 years of age	9.2%	9.2%	8.1%	7.6%	7.1%	7.1%	7.0%	6.9%
5 to 14 years	19.5%	17.7%	18.3%	15.3%	14.5%	14.3%	14.2%	14.1%
15 to 24 years	21.6%	17.1%	16.0%	16.9%	16.1%	15.7%	15.3%	14.9%
25 to 34 years	15.9%	18.1%	14.9%	14.1%	14.9%	15.2%	15.5%	15.7%
35 to 44 years	10.2%	14.0%	15.9%	13.5%	13.0%	12.9%	12.9%	12.9%
45 to 54 years	8.6%	8.9%	11.8%	14.0%	13.1%	12.9%	12.7%	12.5%
55 to 64 years	7.2%	6.7%	6.8%	9.9%	11.2%	11.4%	11.5%	11.6%
65+ years	7.8%	8.4%	8.1%	8.7%	10.2%	10.6%	10.9%	11.3%
18+ years	64.5%	68.0%	68.6%	72.0%	73.9%	74.2%	74.4%	74.7%
Median age (years)	24.9	28.3	30.2	32.1	33.2	33.4	33.6	33.8
Regional								
Northeast	18.3%	18.7%	17.6%	16.8%	16.4%	16.3%	16.5%	16.2%
Midwest	20.1%	19.0%	18.8%	17.9%	17.3%	17.2%	17.1%	17.1%
South	53.0%	52.8%	54.8%	56.5%	57.6%	57.8%	57.7%	57.8%
West	8.5%	9.4%	8.9%	8.8%	8.7%	8.7%	8.7%	8.8%
Educational attainment								
Population 25 years and over (in thousands)	na	15,761	19,858	22,969	25,420	25,976	26,455	27,047
Less than high school graduate	na	32.9%	27.7%	18.4%	16.1%	16.1%	15.8%	12.1%
High school graduate	na	29.7%	29.8%	32.6%	31.0%	30.3%	29.8%	32.7%
Some college or associate's degree	na	25.3%	28.2%	29.2%	30.4%	30.3%	30.4%	30.0%
Bachelor's degree	na	8.0%	9.5%	10.4%	14.3%	14.8%	15.1%	16.3%
Graduate or professional degree	na	4.1%	4.8%	8.9%	8.2%	8.5%	8.8%	8.9%
Income								
Number of households (in thousands)	8,847	10,671	13,174	15,265	16,539	16,733	16,997	17,167
Earning <\$15,000 annually	25.5%	25.6%	18.1%	22.3%	20.7%	19.8%	19.6%	19.2%
\$15,000 to \$24,999	16.2%	13.5%	12.1%	13.8%	13.5%	12.4%	12.6%	12.6%
\$25,000 to \$34,999	13.2%	10.9%	11.1%	12.3%	12.0%	11.8%	11.6%	11.6%
\$35,000 to \$49,999	14.6%	14.1%	14.9%	13.9%	13.1%	13.9%	13.8%	13.7%
\$50,000 to \$74,999	16.0%	17.1%	17.9%	15.2%	16.0%	16.5%	15.8%	16.4%
\$75,000 or more	14.5%	18.7%	25.9%	22.5%	24.6%	25.7%	26.7%	26.3%
Employment								
Population 16 years and over (in thousands)	na	na	na	29,475	31,505	31,798	32,279	32,557
In labor force	na	na	na	62.2%	62.0%	62.3%	62.5%	62.6%
Civilian labor force	na	na	na	61.7%	61.6%	61.9%	62.1%	62.2%
Employed	na	na	na	50.6%	54.6%	55.6%	56.2%	56.8%
Unemployed	na	na	na	11.1%	7.0%	6.3%	5.9%	5.4%
Armed Forces	na	na	na	0.5%	0.5%	0.5%	0.4%	0.4%
Not in labor force	na	na	na	37.8%	38.0%	37.7%	37.5%	37.4%

^{*} Source: US Census Bureau.

^{na} An "na" reference in the table means the data is not available.

Hispanic population

	1980	1990	2000	2010	2015	2016	2017	2018
Hispanic population (in thousands)	14,609	21,900	35,306	50,747	56,364	57,573	58,707	59,872
% of total population	6.4%	8.8%	12.5%	16.4%	17.6%	17.8%	18.1%	18.3%
Age and gender								
Male	49.8%	50.8%	51.4%	50.7%	50.5%	50.5%	50.5%	50.5%
Female	50.2%	49.2%	48.6%	49.3%	49.5%	49.5%	49.5%	49.5%
<5 years of age	11.4%	10.6%	10.5%	10.1%	9.0%	8.9%	8.7%	8.6%
5 to 14 years	20.6%	19.0%	19.2%	18.5%	18.0%	18.0%	17.8%	17.6%
15 to 24 years	21.9%	19.1%	18.6%	17.6%	16.9%	16.8%	16.6%	16.5%
25 to 34 years	17.1%	20.0%	18.4%	16.6%	15.8%	15.7%	15.7%	15.6%
35 to 44 years	10.7%	13.3%	14.5%	14.5%	14.5%	14.4%	14.4%	14.4%
45 to 54 years	8.1%	7.8%	8.9%	10.8%	11.5%	11.6%	11.7%	11.7%
55 to 64 years	5.3%	5.3%	4.8%	6.4%	7.6%	7.8%	8.0%	8.2%
65+ years	4.9%	4.8%	4.9%	5.5%	6.6%	6.9%	7.1%	7.4%
18+ years	61.5%	65.1%	65.0%	66.1%	67.9%	68.1%	68.5%	68.8%
Median age (years)	23.2	25.6	25.8	27.3	28.7	28.9	29.2	29.5
Regional								
Northeast	17.8%	16.6%	14.9%	13.9%	14.0%	14.0%	14.0%	13.8%
Midwest	8.7%	7.6%	8.8%	9.2%	9.2%	9.1%	9.1%	9.1%
South	30.6%	30.4%	32.8%	36.1%	36.9%	37.2%	37.5%	37.8%
West	42.8%	45.4%	43.5%	40.8%	39.9%	39.7%	39.4%	39.2%
Educational attainment								
Population 25 years and over (in thousands)	na	11,227	18,270	26,375	31,020	32,019	32,660	33,877
Less than high school graduate	na	50.2%	47.6%	39.4%	36.5%	34.8%	32.6%	28.4%
High school graduate	na	21.6%	22.1%	27.4%	26.7%	27.3%	27.9%	30.7%
Some college or associate's degree	na	19.1%	19.9%	19.3%	21.3%	21.5%	22.6%	22.5%
Bachelor's degree	na	5.9%	6.7%	10.1%	10.8%	11.1%	12.2%	13.0%
Graduate or professional degree	na	3.3%	3.8%	3.8%	4.7%	5.3%	5.1%	5.3%
Income								
Number of households (in thousands)	3,906	6,220	10,034	14,435	16,667	16,915	17,336	17,758
Earning <\$15,000 annually	16.3%	16.1%	11.5%	14.8%	13.0%	12.1%	12.1%	11.4%
\$15,000 to \$24,999	14.4%	14.9%	12.5%	13.1%	12.0%	10.9%	11.0%	11.0%
\$25,000 to \$34,999	14.1%	11.9%	11.1%	13.3%	12.6%	11.6%	11.2%	10.8%
\$35,000 to \$49,999	16.8%	16.1%	16.4%	14.8%	14.8%	15.5%	14.6%	15.0%
\$50,000 to \$74,999	19.0%	19.7%	20.1%	17.7%	17.7%	18.0%	19.1%	18.8%
\$75,000 or more	19.4%	21.4%	28.4%	26.2%	30.0%	32.0%	32.2%	32.9%
Employment								
Population 16 years and over (in thousands)	na	na	na	35,347	40,267	41,019	42,275	43,117
In labor force	na	na	na	67.8%	67.0%	67.3%	67.4%	67.7%
Civilian labor force	na	na	na	67.4%	66.6%	66.9%	67.0%	67.3%
Employed	na	na	na	58.7%	61.7%	62.4%	63.0%	63.5%
Unemployed	na	na	na	8.7%	4.9%	4.5%	4.1%	3.8%
Armed Forces	na	na	na	0.4%	0.4%	0.4%	0.4%	0.4%
Not in labor force	na	na	na	32.2%	33.0%	32.7%	32.6%	32.3%

[†] Source: US Census Bureau.

^{na} An "na" reference in the table means the data is not available.

Demographics of native-born and foreign-born population

Native-born population

	2000	2005	2010	2013	2014	2015	2016	2017	2018
Total population (in thousands) ¹	281,422	288,378	309,350	316,129	318,857	321,419	323,128	325,719	327,167
Native-born	250,314	252,688	269,394	274,781	276,465	278,128	279,388	281,193	282,439
Foreign-born	31,108	35,690	39,956	41,348	42,392	43,290	43,739	44,526	44,729
Foreign-born; naturalized	12,543	14,968	17,476	19,295	19,985	20,697	21,238	21,949	22,630
Foreign-born; not a US citizen	18,565	20,722	22,480	22,053	22,407	22,593	22,501	22,577	22,099
Native-born demographics (in thousands) 1	250,314	252,688	269,394	274,781	276,465	278,128	279,388	281,193	282,439
White	na	78.6%	78.0%	77.6%	77.3%	77.2%	76.8%	76.5%	76.4%
Black/African American	na	12.8%	13.2%	13.2%	13.3%	13.2%	13.2%	13.2%	13.2%
Asian	na	1.6%	1.8%	2.0%	2.0%	2.1%	2.1%	2.2%	2.2%
Hispanic	na	9.9%	11.9%	12.7%	13.0%	13.3%	13.5%	13.9%	14.1%
Non-Hispanic, White only	na	73.3%	70.3%	69.0%	68.6%	68.2%	67.9%	67.3%	67.0%
Median age (years)	na	35.7	35.9	35.9	35.9	36.0	36.1	36.2	36.3
Educational attainment									
Population 25 years and over (in thousands)	na	159,699	170,663	175,210	176,980	178,726	180,299	182,305	183,902
Less than high school graduate	na	12.7%	11.0%	10.0%	9.6%	9.4%	9.1%	8.7%	8.4%
High school graduate	na	30.8%	29.7%	28.9%	28.8%	28.6%	28.2%	28.1%	27.9%
Some college or associate's degree	na	29.2%	30.9%	31.2%	31.2%	31.1%	31.2%	31.0%	31.0%
Bachelor's degree	na	17.5%	18.1%	18.9%	19.1%	19.4%	19.8%	20.1%	20.4%
Graduate or professional degree	na	9.8%	10.3%	11.1%	11.3%	11.4%	11.8%	12.1%	12.3%
Employment									
Population 16 years and over (in thousands)	na	na	206,115	211,438	213,149	214,802	216,181	218,066	219,463
In labor force	na	na	63.8%	63.0%	62.7%	62.6%	62.6%	62.7%	62.6%
Civilian labor force	na	na	63.3%	62.6%	62.3%	62.1%	62.1%	62.2%	62.2%
Employed	na	na	56.3%	57.2%	57.7%	58.1%	58.5%	58.8%	59.0%
Unemployed	na	na	6.9%	5.4%	4.6%	4.0%	3.7%	3.4%	3.2%
Armed Forces	na	na	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
Not in labor force	na	na	36.2%	37.0%	37.3%	37.4%	37.4%	37.3%	37.4%
Total civilian employed (in thousands)	na	115,788	116,126	120,899	122,971	124,810	126,379	128,284	129,585
Management and professional	na	35.3%	37.4%	37.7%	38.2%	38.4%	38.8%	39.4%	39.7%
Service occupations	na	15.2%	16.6%	17.0%	16.9%	16.7%	16.8%	16.7%	16.7%
Sales and office	na	27.3%	26.4%	25.6%	25.1%	25.0%	24.7%	24.3%	22.7%
Natural resources, construction, maintenance	na	9.9%	8.4%	8.1%	8.1%	8.2%	8.0%	8.0%	8.0%
Production, transportation and moving	na	12.4%	11.2%	11.6%	11.7%	11.8%	11.6%	11.6%	12.9%
Annual earnings									
Population 16+ years with earnings (in thousands)	na	77,501	80,425	84,239	85,945	87,849	89,331	91,392	92,847
Earning <\$15,000 annually	na	6.9%	5.9%	5.5%	5.3%	5.1%	4.8%	4.4%	4.2%
\$15,000 to \$24,999	na	16.4%	13.9%	13.2%	13.0%	12.8%	12.1%	11.5%	10.8%
\$25,000 to \$34,999	na	19.3%	17.0%	16.3%	16.1%	15.8%	15.5%	15.2%	15.0%
\$35,000 to \$49,999	na	22.2%	21.6%	20.9%	20.7%	20.6%	20.4%	20.2%	20.0%
\$50,000 to \$74,999	na	19.6%	21.8%	22.0%	22.0%	22.3%	22.6%	23.1%	23.3%
\$75,000 or more	na	15.6%	19.8%	22.1%	22.8%	23.5%	24.5%	25.6%	26.8%

[†] Source: US Census Bureau.

na An "na" reference in the table means the data is not available.

²⁰⁰⁵⁻²⁰¹⁸ data is sourced from the American Community Survey and therefore total population may differ from other tables; 2000 data is sourced from decennial census survey.

Foreign-born population

	2000	2005	2010	2013	2014	2015	2016	2017	2018
Total population (in thousands) ¹	281,422	288,378	309,350	316,129	318,857	321,419	323,128	325,719	327,167
Native-born	250,314	252,688	269,394	274,781	276,465	278,128	279,388	281,193	282,439
Foreign-born	31,108	35,690	39,956	41,348	42,392	43,290	43,739	44,526	44,729
Foreign-born; naturalized	12,543	14,968	17,476	19,295	19,985	20,697	21,238	21,949	22,630
Foreign-born; not a US citizen	18,565	20,722	22,480	22,053	22,407	22,593	22,501	22,577	22,099
Foreign-born demographics (in thousands) ¹	31,108	35,690	39,956	41,348	42,392	43,290	43,739	44,526	44,729
White	na	46.7%	47.9%	48.0%	47.5%	47.0%	46.1%	45.5%	45.5%
Black/African American	na	7.6%	8.3%	8.6%	8.7%	8.9%	9.0%	9.3%	9.5%
Asian	na	23.5%	24.5%	25.6%	26.2%	26.6%	26.6%	27.1%	27.1%
Hispanic	na	47.0%	47.1%	45.9%	45.7%	45.0%	44.9%	44.3%	44.3%
Non-Hispanic, White only	na	20.9%	18.8%	18.6%	18.1%	18.1%	18.1%	17.9%	17.7%
Median age (years)	na	39.3	41.4	43.1	43.5	43.9	44.4	44.8	45.2
Educational attainment									
Population 25 years and over (in thousands)	na	29,252	33,626	35,701	36,746	37,721	38,176	38,945	39,257
Less than high school graduate	na	32.4%	31.7%	30.3%	29.9%	29.3%	28.8%	27.5%	26.9%
High school graduate	na	22.8%	22.5%	22.4%	22.7%	22.5%	22.4%	22.7%	22.3%
Some college or associate's degree	na	18.1%	18.8%	19.0%	18.9%	18.7%	18.7%	18.8%	18.9%
Bachelor's degree	na	15.7%	15.9%	16.4%	16.5%	17.0%	17.2%	17.6%	18.1%
Graduate or professional degree	na	11.0%	11.1%	11.8%	12.0%	12.4%	12.8%	13.4%	13.9%
Employment									
Population 16 years and over (in thousands)	na	na	37,718	39,398	40,440	41,366	41,770	42,498	42,723
In labor force	na	na	67.7%	66.7%	66.3%	66.0%	66.2%	66.1%	66.5%
Civilian labor force	na	na	67.6%	66.5%	66.1%	65.8%	66.0%	66.0%	66.4%
Employed	na	na	60.7%	61.5%	61.9%	62.2%	62.7%	63.0%	63.7%
Unemployed	na	na	6.9%	5.0%	4.2%	3.6%	3.3%	3.0%	2.7%
Armed forces	na	na	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Not in labor force	na	na	32.3%	33.3%	33.7%	34.0%	33.8%	33.9%	33.5%
Total civilian employed (in thousands)	na	20,671	22,908	24,230	25,049	25,724	26,192	26,774	27,198
Management and professional	na	27.2%	28.6%	29.8%	30.3%	31.0%	31.6%	32.4%	33.1%
Service occupations	na	22.2%	25.1%	25.1%	24.6%	24.0%	24.1%	23.4%	23.1%
Sales and office	na	18.3%	17.8%	17.1%	17.0%	16.9%	16.6%	16.4%	15.4%
Farming, fishing, and forestry	na	15.3%	13.0%	12.9%	12.9%	13.1%	12.9%	12.8%	12.7%
Production, transportation, and moving	na	16.9%	15.5%	15.2%	15.2%	15.0%	14.9%	15.0%	15.7%
Annual earnings									
Population 16+ years with earnings (in thousands)	na	14,266	16,023	17,174	17,833	18,499	18,881	19,521	19,922
Earning <\$15,000 annually	na	13.4%	10.4%	8.8%	8.5%	7.5%	6.7%	5.8%	5.3%
\$15,000 to \$24,999	na	25.6%	23.4%	22.3%	21.4%	20.8%	19.6%	17.9%	16.3%
\$25,000 to \$34,999	na	18.4%	17.7%	17.5%	17.8%	17.7%	18.1%	18.0%	17.9%
\$35,000 to \$49,999	na	16.6%	17.1%	16.8%	17.0%	17.3%	17.4%	18.2%	18.4%
\$50,000 to \$74,999	na	13.5%	14.7%	15.4%	15.7%	15.8%	16.4%	17.1%	17.5%
\$75,000 or more	na	12.6%	16.7%	19.3%	19.7%	20.9%	21.9%	23.0%	24.5%

Source: US Census Bureau.

An "na" reference in the table means the data is not available.
2005-2018 data is sourced from the American Community Survey and therefore total population may differ from other tables; 2000 data is sourced from decennial census

Cohorts of our population

To get a consistent and informative picture of our populations, we chose to view several statistics in cohorts of people grouped by family structure and income. In the tables throughout this report which have these groupings, there are two types of economic units: families and individuals. We use the Census Bureau's definition for each. If there are two or more related individuals living together, they are a family economic unit. If a person is living alone or in a household with no other related persons, that person is considered an individual economic unit. Therefore, some economic units have only one person, while other economic units have multiple persons.

We rank these economic units, which we call FIUs (family and individual units) by market income to place each in a percentile that shows the unit relative to other units in the population. (There are approximately 150 million family and individual units). After determining each unit's market income percentile relative to all other units, we then place each unit into one of five categories:

- Single person under 65 with no children under 18
- Single person under 65 with children under 18
- Married couple with head of household under 65 with no children under 18
- Married couple with head of household under 65 with children under 18
- Head of household aged 65 or over

It should be the noted that although we divide the families based on presence of children under 18, if a person is aged 18+ and still living in the family with relatives, she would not be her own economic unit unless she had her own subfamily.

We use these FIU groupings to present certain information because:

- The tax structure and many federal programs are distributed by family structure (e.g. families with children receive certain tax credits unavailable to others);
- General experience is significantly different between the cohorts (e.g. a single individual without children has different needs than a single individual with children);
- Several programs are directed towards the poorest income quintile (or fifth), such as Medicaid and tax credits, and the elderly, such as Social Security and Medicare; and
- Although family structure is changing in the US, there are life stages associated with each cohort, where many individuals go from single no children, to married or single parents, to elderly, while at the same time, in an ideally mobile world, moving from lower income quintiles to higher income quintiles.

See Exhibit 99.08 for more information on the creation of these cohorts. We have included certain cohorts in this section of the document and others in *Part II, Item 7. Management's Discussion and Analysis, Key metrics by segment*. Additional cohorts are available on our website at https://usafacts.org.

Family structure and income cohorts (2017)

Sub Group/Income %			Aver	age Pe	r Unit		arner ender	ı	Race, E	thnicity	y of Un	it Head						R	egion
umits	•	9	Persons	Children (Under 18)	4	% Male		% White (all ethnicities)	Black hniciti	% Asian (all ethnicities)	9	Hispanic ces)	S				% Midwest		% West
Bottom 5% (250) 5,148	_																		
Bottom 5%-20% (30-1010) 22-437 16 0. 3 51.9		•																	
Second 20% (510K-534X) 29,917 18																			
Middle 20% (\$]4K-\$660 29,917 21 0.5 492 55% 44% 79% 15% 5% 2% 17% 84% 82% 18% 17% 22% 38% 23	• • • • • • • • • • • • • • • • • • • •																		
Fourth 20% (Selici S122K) 29,915 25 0.6 48.0 63% 37% 81% 11% 6% 2% 14% 83% 18% 6% 20% 21% 24% 24% 24% 17% 17% 23% 36% 24% 17% 17% 23% 36% 24% 17% 17% 23% 36% 24% 17% 37% 25% 36% 24% 17% 37% 25% 36% 24% 17% 34% 24% 24% 24% 24% 17% 34% 24% 24% 24% 24% 24% 24% 24% 24% 24% 2																			
Top 29k-20% (5122k-5748K) 28.420 29 07. 493 70% 30% 83% 7% 8% 1% 9% 84% 88% 12% 24% 13% 31% 26 Married no kids	***																		
Top 19k (\$748k+) 1.496																			
Married no kids	· · · · · · · · · · · · · · · · · · ·																		
Bottom 5%		-																	
Bottom 5%-20% 1.194 2.2 — 5.2.3 68% 32% 79% 9% 11% 22% 19% 71% 75% 25% 13% 16% 46% 55		•																	
Second 20% 1,684 2.3 52.7 65% 35% 80% 11% 7% 22% 18% 76% 76% 76% 74% 15% 15% 45% 25% 160% 2.4 49.7 68% 32% 83% 10% 5% 2% 14% 83% 79% 21% 14% 19% 42% 32% 36% 22% 36% 23% 36% 22% 36% 24% 36%				_															
Middle 20% 3,228 2.4 \$1.4 68% 32% 82% 82% 83% 10% 67% 29% 21% 14% 19% 42% 24% 70p 22% 20% 68% 23% 22% 20% 20% 70p 21% 14% 16% 25% 38% 22% 20				_															
Top 2%-20%	Middle 20%		2.4	_	51.4	68%	32%	82%	10%	6%		20%	76%	79%	21%	14%	19%	42%	24%
Top 1% 488 2.5 — 55.5 75% 25% 83% 6% 10% 1% 6% 82% 90% 10% 26% 21% 32% 22 2 Married parents 24,750 4.2 2.0 40.5 77% 23% 81% 88% 9% 2% 20% 74% 84% 16% 16% 25% 27% 27% 80ttom 5% 65 4.1 2.0 38.8 42% 55% 72% 10% 15% 33% 30% 66% 84% 16% 15% 55% 16% 52% 27% 80ttom 5% 20% 71,776 4.4 2.1 39.1 80% 20% 82% 99% 8% 2% 38% 57% 82% 18% 19% 19% 19% 18% 40% 23 Second 20% 1,776 4.4 2.1 39.1 80% 20% 82% 99% 8% 2% 38% 57% 82% 18% 15% 16% 35% 29 Middle 20% 3,761 4.4 2.2 38.6 81% 19% 79% 99% 8% 33% 34% 663% 79% 21% 13% 16% 45% 25 Fourth 20% 7,837 4.2 1.9 39.8 76% 22% 81% 10% 79% 22% 21% 76% 81% 19% 15% 23% 38% 24* Top 2%-20% 9,840 4.1 8.8 42.0 76% 24% 81% 79% 11% 11% 81% 88% 12% 19% 25% 34% 24* Top 1% 532 4.3 2.0 44.7 73% 27% 84% 33% 13% 13% 18 88% 81% 99% 15% 22% 31% 28* Single no kids 52,030 1.2 — 40.6 52% 48% 75% 15% 6% 2% 15% 85% 84% 81% 19% 17% 82% 34% 24* Bottom 5% 2,619 1.1 — 41.2 48% 52% 65% 65% 65% 7% 24% 17% 88% 81% 19% 17% 84% 44% 21* Bottom 5% 2,030 1.2 — 40.6 52% 48% 77% 11% 18% 84% 11% 88% 81% 19% 17% 84% 44% 21* Bottom 5% 2,060 3.3,072 1.2 — 39.8 51% 49% 77% 11% 65% 2% 17% 86% 82% 18% 19% 17% 20% 39% 24* Fourth 20% 8,606 1.3 — 42.0 54% 46% 77% 16% 55% 2% 17% 86% 82% 18% 16% 17% 22% 36% 24* Fourth 20% 8,606 1.3 — 42.0 54% 46% 77% 16% 55% 2% 17% 86% 82% 18% 16% 17% 22% 36% 24* Fourth 20% 8,606 1.3 — 42.0 54% 46% 77% 16% 55% 2% 11% 86% 89% 91% 99% 10% 20% 10% 20% 20% 10% 20% 20% 38,84 1.4 — 44.3 62% 38% 77% 11% 10% 25% 85% 91% 91% 99% 24% 16% 32% 29% 10% 180 1.3 — 41.3 61% 39% 82% 88% 88% 26% 88% 88% 84% 16% 15% 23% 30% 24* Bottom 5% 2,020 3,071 2.6 1.7 31.4 19% 81% 66% 28% 38 38 26% 84% 18% 19% 11% 13% 27% 30% 13% 26* Bottom 5% 2,020 3,071 2.6 1.7 31.4 19% 81% 66% 28% 38 38 26% 84% 18% 19% 10% 20% 13% 26* Bottom 5% 2,020 3,071 2.6 1.7 31.4 19% 81% 66% 28% 38 38 26% 84% 18% 19% 10% 20% 13% 26* Bottom 5% 2,020 3,071 2.6 1.7 31.4 19% 81% 66% 28% 38 38 26% 84% 18% 99% 20% 11% 23% 30% 20* Fourth 20% 3,612 3.0 1.6 43.5 42% 55% 65% 65% 28% 38 38 22% 98% 81% 99% 21% 11% 19% 22% 30% 22% 10%	Fourth 20%	6,689	2.4	_	49.7	68%	32%	83%	10%	5%	2%	14%	83%	79%	21%	16%	25%	38%	22%
Married parents 24,750 4.2 2.0 40.5 77% 23% 81% 8% 9% 2% 20% 74% 84% 16% 16% 21% 37% 25% 80ttom 5% 65 4.1 2.0 38.8 42% 58% 72% 10% 15% 3% 30% 66% 81% 19% 19% 19% 18% 40% 23% 25% 27% 27% 27% 27% 27% 27% 37% 37% 27% 37%	Top 2%-20%	9,948	2.5	_	50.3	72%	28%	86%	6%	7%	1%	8%	87%	87%	13%	19%	22%	36%	23%
Bottom 5% 65 4.1 2.0 38.8 42% 58% 72% 10% 15% 3% 30% 60% 84% 16% 5% 5% 66% 22% 27 8 Bottom 5%-20% 793 4.3 2.1 39.0 66% 34% 76% 10% 11% 3% 30% 63% 81% 19% 19% 18% 40% 23% 5econd 20% 1,776 4.4 2.1 39.1 80% 20% 82% 99% 8% 2% 38% 57% 82% 18% 15% 16% 39% 29 Middle 20% 3,761 4.4 2.2 38.6 81% 19% 79% 99% 8% 3% 34% 63% 79% 21% 13% 16% 45% 26 Fourth 20% 7,837 4.2 19,3 39.8 78% 22% 81% 10% 7% 2% 21% 76% 81% 19% 15% 23% 38% 24% 10p 22%-20% 9,840 4.1 1.8 42.0 76% 24% 81% 79% 11% 11% 81% 88% 12% 19% 22% 34% 24 Top 1% 20% 33% 24 Top 1% 20% 34% 24 Top 2%-20% 9,840 4.1 1.8 42.0 76% 24% 81% 79% 11% 11% 11% 81% 88% 12% 19% 22% 34% 24 Top 1% 20% 34% 24 Top 2%-20% 9,840 4.1 1.8 42.0 76% 24% 81% 79% 11% 15% 18% 88% 12% 19% 22% 34% 24 Top 1% 25% 34% 24 Top 2%-20% 9,868 1.1 — 40.6 52% 48% 75% 17% 6% 2% 15% 85% 84% 16% 18% 21% 37% 24% 80ttom 5% 2.0 9,868 1.1 — 40.8 52% 65% 26% 7% 2% 17% 68 38% 81% 199% 17% 18% 44% 21 80ttom 5% 20% 13,072 1.2 — 39.8 51% 49% 77% 16% 53% 27% 19% 6% 3% 17% 84% 81% 19% 17% 20% 39% 24 Fourth 20% 8,606 1.3 — 42.0 53% 47% 77% 16% 5% 2% 15% 88% 84% 16% 17% 22% 33% 24 Fourth 20% 8,606 1.3 — 42.1 54% 46% 77% 16% 5% 2% 15% 88% 84% 16% 17% 22% 33% 24 Fourth 20% 8,606 1.3 — 42.1 54% 46% 77% 16% 5% 2% 15% 88% 84% 16% 17% 22% 33% 24 Fourth 20% 8,606 1.3 — 42.1 54% 46% 77% 16% 5% 2% 15% 88% 84% 16% 17% 22% 33% 24 Fourth 20% 8,606 1.3 — 42.1 54% 46% 77% 16% 5% 2% 15% 88% 84% 16% 17% 22% 33% 24 Fourth 20% 8,606 1.3 — 42.0 53% 47% 77% 14% 8% 2% 15% 89% 80% 10% 20% 21% 33% 24 Fourth 20% 8,606 1.3 — 42.0 53% 47% 77% 16% 5% 2% 15% 88% 84% 16% 15% 21% 40% 223 70p 1% 180 1.3 — 41.3 61% 39% 82% 83% 3% 22% 99% 81% 91% 99% 24% 16% 332% 29 Top 1% 180 1.3 — 41.3 61% 39% 65% 27% 33% 36 25% 84% 84% 16% 17% 23% 16% 20% 42% 22% 56% 20% 33% 24 17% 33% 24 17% 86% 82% 18% 19% 99% 24% 16% 332% 29 Top 1% 180 1.3 — 41.3 61% 39% 65% 28% 28% 28% 84% 84% 16% 17% 23% 16% 20% 42% 22% 56% 20% 20% 10% 20% 11% 40% 22% 33% 24 17% 86% 86% 80% 20% 19% 24% 16% 332% 29 Top 1% 180 1.3 — 44.3 62% 38% 77% 18% 88% 88% 88% 88% 88% 88% 18% 19% 99% 24% 16% 23%	Top 1%	488	2.5	_	55.5	75%	25%	83%	6%	10%	1%	6%	82%	90%	10%	26%	21%	32%	22%
Bottom 5%-20% 793 4.3 2.1 39.0 66% 34% 76% 10% 11% 3% 30% 63% 81% 19% 19% 18% 40% 23 Second 20% 1,776 4.4 2.1 39.1 80% 20% 82% 9% 80% 2% 38% 57% 82% 18% 19% 19% 18% 40% 23 Middle 20% 3,761 4.4 2.2 38.6 81% 19% 79% 9% 83% 3% 34% 63% 79% 21% 13% 16% 33% 23 Middle 20% 7,837 4.2 1.9 39.8 78% 22% 81% 10% 7% 2% 21% 76% 81% 19% 15% 23% 38% 24% 10p 22% 20% 41.1 1.8 42.0 76% 24% 81% 7% 11% 11% 11% 81% 88% 12% 19% 22% 31% 28 Middle 20% 5.20 11.1 — 40.6 52% 48% 75% 65% 26% 73% 17% 83% 81% 19% 17% 20% 22% 31% 28 Middle 20% 13,072 1.2 — 39.8 51% 49% 75% 19% 63% 30% 17% 88% 88% 84% 16% 18% 21% 37% 24% 56% 65% 26% 73% 17% 88% 88% 84% 16% 15% 21% 37% 24% 56% 65% 26% 73% 17% 88% 88% 84% 16% 15% 21% 37% 24% 56% 65% 26% 73% 17% 88% 88% 84% 16% 18% 21% 37% 24% 56% 65% 26% 73% 17% 84% 88% 84% 16% 17% 20% 39% 24% 56% 65% 26% 73% 17% 84% 88% 84% 16% 17% 20% 39% 24% 56% 65% 26% 73% 17% 84% 88% 84% 16% 17% 20% 39% 24% 56% 65% 26% 73% 17% 84% 88% 84% 16% 17% 20% 39% 24% 56% 65% 26% 73% 17% 84% 88% 84% 16% 17% 20% 39% 24% 56% 65% 26% 73% 17% 84% 88% 84% 16% 17% 20% 39% 24% 56% 65% 26% 73% 17% 85% 88% 84% 16% 17% 20% 39% 24% 56% 65% 26% 73% 17% 85% 88% 84% 16% 15% 21% 40% 23% 65% 65% 65% 26% 73% 17% 86% 82% 18% 15% 21% 40% 23% 65% 65% 65% 26% 73% 17% 88% 88% 84% 16% 15% 21% 40% 23% 65% 65% 65% 26% 73% 17% 86% 82% 18% 15% 21% 40% 23% 65% 65% 65% 26% 73% 17% 88% 88% 84% 16% 15% 21% 40% 23% 65% 65% 65% 26% 38% 37% 26% 17% 88% 88% 88% 18% 19% 15% 22% 37% 26% 65% 65% 26% 38% 38% 25% 88% 88% 89% 19% 99% 24% 16% 32% 26% 17% 18% 13% 13% 11% 18% 13% 13% 11% 18% 13% 13% 11% 18% 13% 13% 11% 18% 13% 18% 13% 19% 16% 26% 16% 26% 18% 18% 19% 16% 26% 16% 26% 16% 26% 38% 38% 38% 25% 88% 88% 89% 19% 99% 24% 16% 22% 26% 26% 26% 38% 38% 26% 18% 19% 99% 24% 16% 22% 26% 26% 26% 38% 38% 26% 18% 18% 19% 16% 20% 22% 16% 26% 26% 38% 38% 26% 18% 18% 19% 16% 20% 22% 16% 26% 26% 26% 38% 38% 26% 18% 18% 19% 16% 20% 26% 26% 26% 26% 26% 26% 26% 26% 26% 26	Married parents	24,750	4.2	2.0	40.5	77%	23%	81%	8%	9%	2%	20%	74%	84%	16%	16%	21%	37%	25%
Second 20% 1,776	Bottom 5%	65	4.1	2.0	38.8	42%	58%	72%	10%	15%	3%	30%	60%	84%	16%	5%	16%	52%	27%
Middle 20%	Bottom 5%-20%	793	4.3		39.0	66%		76%				30%	63%	81%	19%	19%			
Fourth 20%																			
Top 2%-20%																			
Top 1% 532 4.3 2.0 44.7 73% 27% 84% 3% 13% 1% 8% 81% 93% 7% 20% 22% 31% 28 Single no kids 52,030 1.2																			
Single no kids 52,030 1.2	•					1										1			
Bottom 5%	10p 1%	532	4.3	2.0	44.7	73%	21%	84%	3%	13%	1%	8%	81%	93%	1%	20%	22%	31%	28%
Bottom 5%-20%	_	•																	
Second 20% 13,072 1.2 — 39.8 51% 49% 75% 19% 3% 2% 17% 86% 82% 18% 15% 21% 40% 23 40% 23 Middle 20% 12,926 1.2 — 40.2 54% 46% 77% 16% 5% 2% 15% 88% 84% 16% 17% 22% 36% 24 Fourth 20% 86.06 1.3 — 42.0 53% 47% 77% 11% 14% 8% 2% 12% 85% 90% 10% 20% 21% 33% 26 709 2%-20% 3,884 1.4 — 44.3 62% 38% 77% 11% 10% 2% 11% 82% 91% 9% 24% 16% 32% 22% 10% 82% 91% 9% 24% 16% 32% 22% 10% 32% 26 82% 11% 82% 91% 9% 24% 16% 32% 22% 10% 32% 26% 82% 11% 82% 91% 9% 24% 16% 32% 22% 10% 32% 26% 82% 88% 88% 2% 99% 81% 91% 9% 24% 16% 32% 22% 30% 32% 32% 32% 32% 32% 32% 32% 32% 32% 32						1													
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We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail" to access it.

Marital status and age

In the US, among the non-elderly, marriage tends to be correlated with higher family incomes. In 2017:

- Among married couples with children, the largest fraction (42%) is in the top 20% by income, meaning they earn at least \$122,000 per year.
- Among married couples without children, the figure is similar 43% are in the top 20% income group.
- By contrast, among single parents, a plurality, or 28%, is in the second 20% income group, where incomes range from \$10,000 to \$34,000 a year, and only 4% are in the top 20% income group.
- Single people without children do slightly better, where the three bottom income cohorts each comprise 24% or 25% of the overall group.

The higher levels of income among those who are married relative to those who are not may be due to them having two or more working age individuals in the family who may both be working, as opposed to each individual earning more income relative to unmarried individuals.

Among the elderly, a plurality, or 27%, is in the income cohort second from the bottom, where incomes range from \$10,000 to \$34,000. For reference, in 2017, the federal poverty level was \$12,060 for an individual and \$4,180 for each additional person.

Race and ethnicity

White people make up 79% of all family and individual units (FIUs) but just 67% of single-parent FIUs. Asian people are also underrepresented among single-parent FIUs, accounting for 6% of all FIUs and 3% of single-parent FIUs. However, black people represent 14% of all FIUs and 27% of single-parent FIUs. For people of Hispanic ethnicity: they make up 15% of all FIUs and 25% of single-parent FIUs.

Black people, who make up 14% of all FIUs, account for 19% of the lowest income quintile (earning less than \$10,000 a year). At higher income levels, black representation diminishes. The opposite is true among white people: they make up 79% of all FIUs but 73% of the poorest FIUs and 84% of the wealthiest 1%. People of Hispanic ethnicity, who account for 15% of all FIUs, are fairly evenly divided among income groups, with the heaviest representation in the second 20% and middle quintiles (earning \$8,000 to \$121,000 a year).

Gender

Women make up 44% of the main earners in all FIUs but 57% of those in the lowest income group. Women are the main earners in just 30% of FIUs in the top 20% by income, who earn over \$122,000 a year.

Geography

Southerners make up 38% of all FIUs and 41% of the poorest FIUs. The opposite is true for Northeasterners, who make up 18% of all FIUs and 24% of the top 1% by income. As incomes rise, Americans are more likely to live in urban areas.

Officers

Federal

The federal government's key officers as of March 1, 2020 were as follows:

Name	Age	Position with our Government
Donald Trump	73	President
Mike Pence	60	Vice President
Nancy Pelosi	79	Speaker of the House
Steny Hoyer	80	House Majority Leader
Kevin McCarthy	55	House Minority Leader
Mitch McConnell	78	Senate Majority Leader
Charles Schumer	69	Senate Minority Leader
John Roberts	65	Chief Justice

President

The President is both the head of state and head of government of the US, and Commander-in-Chief of the armed forces. Under Article II of the US Constitution, the President is responsible for the execution and enforcement of the laws created by Congress. The President also appoints the heads of more than 50 independent federal commissions, such as the Federal Reserve Board or the Securities and Exchange Commission, as well as federal judges, ambassadors, and other federal offices.

Mr. Trump is the 45th President of the US. Born and raised in Queens, New York, Mr. Trump received an economics degree from the Wharton School of Finance at the University of Pennsylvania. After graduating from Wharton, Mr. Trump followed in his father's footsteps as a real estate developer, building, renovating, and managing numerous office towers, hotels, casinos, golf courses, and other properties. In a departure from his real estate acquisitions, Mr. Trump and the NBC Television Network (NBC) were partners in the ownership and broadcast rights for the Miss Universe, Miss USA, and Miss Teen USA Pageants. By January of 2004, Mr. Trump had joined forces with Mark Burnett Productions and NBC to produce and star in the television reality show, The Apprentice. In 2005, Mr. Trump launched his Donald J. Trump Signature Collection, which included clothing and accessories, and later introduced Trump Home, providing home furnishings and accessories. He also has a line of fragrances, Success by Trump and Empire. An accomplished author, Mr. Trump has authored over 14 bestsellers. In 2015, Mr. Trump bought out NBC's portion of the Miss Universe Organization and sold it in its entirety to IMG. Mr. Trump announced his candidacy for President on June 16, 2015 and accepted the Republican nomination for President of the United States in July of 2016.

Vice President

The primary responsibility of the Vice President of the US is to be ready at a moment's notice to assume the Presidency if the President is unable to perform his duties. This can be because of the President's death, resignation, or temporary incapacitation, or if the Vice President and a majority of the Cabinet judge that the President is no longer able to discharge the duties of the presidency. The Vice President also serves as the President of the US Senate, where he or she casts the deciding vote in the case of a tie.

Mr. Pence was born in Columbus, Indiana, on June 7, 1959, one of six children born to Edward and Nancy Pence. Mr. Pence earned his bachelor's degree in history in 1981 from Hanover College. He later attended Indiana University School of Law. After graduating, Mr. Pence practiced law, led the Indiana Policy Review Foundation, and began hosting *The Mike Pence Show*, a syndicated talk radio show and a weekly television public affairs program in Indiana. In 2000, he launched a successful bid for his local congressional seat, entering the United States House of Representatives at the age of 40. The people of East-Central Indiana elected Mr. Pence six times to represent them in Congress, and his colleagues elected him

to serve as Chairman of the House Republican Study Committee and House Republican Conference Chairman. In 2013, Mr. Pence became the 50th Governor of Indiana, where he served until 2017 when he became Vice President.

Speaker of the House

The Speaker of the US House of Representatives is elected by the majority party to lead the House. The Speaker presides over debate, appoints members of select and conference committees, establishes the legislative agenda, maintains order within the House, and administers the oath of office to House members. The individual in this office is second in the line of presidential succession, following the Vice President.

Mrs. Pelosi is the House Speaker of the US House of Representatives for the 116th Congress having previously served as the House Minority Leader. From 2007 to 2011, Mrs. Pelosi served as Speaker of the House, the first woman to do so in American history. For 31 years, Leader Pelosi has represented San Francisco, California's 12th District, in Congress. She has led House Democrats for 16 years and previously served as House Democratic Whip. Mrs. Pelosi comes from a family tradition of public service. Her late father, Thomas D'Alesandro Jr., served as Mayor of Baltimore for 12 years, after representing the city for five terms in Congress. Her brother, Thomas D'Alesandro III, also served as Mayor of Baltimore. She graduated from Trinity College in Washington, D.C.

House Majority Leader

The House of Representatives has chosen majority and minority leaders since the 19th century to expedite legislative business and to keep their parties united. These leaders are elected every two years in secret balloting of the party caucus or conference. The House Majority Leader is charged with: scheduling legislation for floor consideration; planning the daily, weekly, and annual legislative agendas; consulting with members to gauge party sentiment; and, generally, working to advance the goals of the majority party.

Mr. Hoyer has served Maryland's 5th district since 1981 and is currently the Majority Leader in the US House of Representatives. From 2007 to 2011, Mr. Hoyer served as House Majority Leader, which made him the highest-ranking member of Congress from Maryland in history. He previously served as House Democratic Whip from 2003 to 2007 and from 2011 to 2019. He graduated from the University of Maryland and received his law degree from Georgetown University. At the age of 27, he won a seat in the Maryland Senate and in 1975, he was elected President of the Senate, the youngest ever in Maryland state history.

House Minority Leader

The House Minority Leader serves as floor leader of the "loyal opposition" and is the minority counterpart to the Speaker. Although many of the basic leadership responsibilities of the minority and majority leaders are similar, the Minority Leader speaks for the minority party and its policies and works to protect the minority's rights.

Mr. McCarthy serves California's 23rd district and is currently the Minority Leader in the US House of Representatives. He previously served as Majority Leader of the House from 2014 to 2019. Mr. McCarthy was first elected to Congress in 2006 and is a native of Bakersfield and a fourth-generation Kern County resident. At the age of 21, he started his own small business, Kevin O's Deli. He later sold his business to put himself through college and graduate school at California State University, Bakersfield. While at school, he interned for Congressman Bill Thomas and later became a member of Congressman Thomas's staff. In 2000, he won his first public election as Trustee to the Kern Community College District and then, in 2002, he was elected to represent the 32nd Assembly District in the California State Assembly. As a freshman legislator, Mr. McCarthy was selected by his Republican colleagues to serve as the Assembly Republican Leader, becoming the first freshman legislator and the first legislator from Kern County to assume this top post in the California Legislature. After he was elected to Congress in 2006, Mr. McCarthy became Chief Deputy Whip and later served as Majority Whip.

Senate Majority Leader

The primary functions of a Majority Leader usually relate to floor duties. The Senate Majority Leader is the lead speaker for the majority party during floor debates, develops the calendar, and assists the President or Speaker with program development, policy formation, and policy decisions.

Mr. McConnell graduated with honors from the University of Louisville College of Arts and Sciences and is also a graduate of the University of Kentucky College of Law. First elected to the Senate in 1984, he was elected Majority Leader in the US Senate by his Republican colleagues first in 2014 and again in 2016. Mr. McConnell previously served as the Republican Leader from the 110th through the 113th Congresses, as the Majority Whip in the 108th and 109th Congresses, and as chairman of the National Republican Senatorial Committee during the 1998 and 2000 election cycles. Mr. McConnell worked as an intern on Capitol Hill for Senator John Sherman Cooper before serving as chief legislative assistant to Senator Marlow Cook and as Deputy Assistant Attorney General to President Gerald Ford. Before his election to the Senate, he served as judge-executive of Jefferson County, Kentucky, from 1978 until he commenced his Senate term on January 3, 1985.

Senate Minority Leader

The Minority Leader is the principal leader of the minority caucus. The Senate Minority Leader is responsible for: developing the minority position, negotiating with the majority party, directing minority caucus activities on the chamber floor, and leading debate for the minority.

Mr. Schumer was born in Brooklyn, NY to parents Selma, a homemaker active in the community, and Abe, who owned a small exterminating business. After graduating from Harvard College and Harvard Law School in 1974, Mr. Schumer returned home and was elected to the New York State Assembly. In 1980, at 29, he ran for and won the seat in the 9th Congressional District (CD). Mr. Schumer represented the 9th CD in Brooklyn and Queens for 18 years. In 1998, he was elected to the US Senate. Following the elections of 2006, Majority Leader Harry Reid appointed Mr. Schumer to serve as Vice Chair of the Democratic Conference, the number three position on the Democratic Leadership team.

Chief Justice

The Chief Justice of the US is the head of the US federal court system, is the highest judicial officer in the country, and acts as a chief administrative officer for the federal courts. As head of the Judicial Conference of the US, the Chief Justice appoints the director of the Administrative Office of the US Courts. The Chief Justice also serves as a spokesperson for the judicial branch. The Chief Justice leads the business of the Supreme Court and presides over oral arguments. When the court renders an opinion, the Chief Justice, when in the majority, decides who writes the court's opinion. The Chief Justice also has significant agenda-setting power over the court's meetings. In modern tradition, the Chief Justice also has the ceremonial duty of administering the oath of office of the President of the US.

Mr. Roberts was born in Buffalo, New York, January 27, 1955. He received an A.B. from Harvard College in 1976 and a J.D. from Harvard Law School in 1979. He served as a law clerk for Judge Henry J. Friendly of the US Court of Appeals for the Second Circuit from 1979 – 1980 and as a law clerk for then-Associate Justice William H. Rehnquist of the Supreme Court of the US during the 1980 Term. He was Special Assistant to the Attorney General, US Department of Justice from 1981 – 1982, Associate Counsel to President Ronald Reagan, White House Counsel's Office from 1982 – 1986, and Principal Deputy Solicitor General, US Department of Justice from 1989 – 1993. From 1986 – 1989 and 1993 – 2003, he practiced law in Washington, D.C. He was appointed to the United States Court of Appeals for the District of Columbia Circuit in 2003. President George W. Bush nominated him as Chief Justice of the US, and he took his seat September 29, 2005.

State and local²⁹

In each state and territory, the chief executive is the governor, who serves as both head of state and head of government. As state managers, governors are responsible for implementing state laws and overseeing the operation of the state executive branch. As state leaders, governors advance and pursue new and revised policies and programs using a variety of tools, among them executive orders, executive budgets, and legislative proposals and vetoes. Governors play two broad

roles in relation to state legislatures. First, they may be empowered to call special legislative sessions, provided in most cases that the purpose and agenda for the sessions are set in advance. Second, governors coordinate and work with state legislatures in: approval of state budgets and appropriations; enactment of state legislation; confirmation of executive and judicial appointments; and legislative oversight of executive branch functions.

Our state governors as of March 1, 2020 were as follows:

Name	Age	State Represented	ted Party · Name		Age	State Represented	Party*
Kay Ivey	75	Alabama	R	Stephen Bullock	53	Montana	D
Mike Dunleavy	58	Alaska	R	John (Pete) Ricketts	55	Nebraska	R
Douglas Ducey	55	Arizona	R	Steve Sisolak	66	Nevada	D
Asa Hutchinson	69	Arkansas	R	Chris Sununu	45	New Hampshire	R
Gavin Newsom	52	California	D	Phil Murphy	62	New Jersey	D
Jared Polis	44	Colorado	D	Michelle Lujan Grisham	60	New Mexico	D
Ned Lamont	66	Connecticut	D	Andrew Cuomo	62	New York	D
John Carney	63	Delaware	D	Roy Cooper	62	North Carolina	D
Ron DeSantis	41	Florida	R	Doug Burgum	63	North Dakota	R
Brian Kemp	56	Georgia	R	Richard (Mike) DeWine	73	Ohio	R
David Ige	63	Hawaii	D	John (Kevin) Stitt	47	Oklahoma	R
Brad Little	66	Idaho	R	Kate Brown	59	Oregon	D
Jay (J.B.) Pritzker	55	Illinois	D	Thomas Wolf	71	Pennsylvania	D
Eric Holcomb	51	Indiana	R	Gina Raimondo	48	Rhode Island	D
Kim Reynolds	60	lowa	R	Henry McMaster	72	South Carolina	R
Laura Kelly	70	Kansas	D	Kristi Noem	48	South Dakota	R
Andy Beshear	42	Kentucky	D	Bill Lee	60	Tennessee	R
John Bel Edwards	53	Louisiana	D	Gregory Abbott	62	Texas	R
Janet Mills	72	Maine	D	Gary Herbert	72	Utah	R
Larry Hogan	63	Maryland	R	Phil Scott	61	Vermont	R
Charles Baker, Jr.	63	Massachusetts	R	Ralph Northam	60	Virginia	D
Gretchen Whitmer	48	Michigan	D	Jay Inslee	69	Washington	D
Tim Walz	55	Minnesota	D	Jim Justice	68	West Virginia	R
Tate Reeves	45	Mississippi	R	Tony Evers	68	Wisconsin	D
Michael Parson	64	Missouri	R	Mark Gordon	62	Wyoming	R

Our other territory leaders as of March 1, 2020 were as follows:

Name	Age	Area Represented	Party *
Lolo Moliga Muriel Bowser Lou Leon Guerrero Ralph Torres Wanda Vazquez	71 47 69 40 59	American Samoa District of Columbia Guam Northern Mariana Islands Puerto Rico	I D D R PNP
Albert Bryan	52	US Virgin Islands	D

* Party	Affiliation Key	
D I R PNP	Democrat Independent Republican New Progressive Party of Puerto Rico	

Employees

As of the dates shown below, there were 23.6 million full-time and part-time employees of our Government, including:

- 4.0 million federal employees, of whom 8% (excluding armed forces) work part-time;
- 5.4 million state employees, of whom 30% work part-time; and
- 14.2 million local government employees, of whom 23% work part-time.

The functions of our Government employing the most people and the respective percentage of Government employees were:

Education – 47%, of which 70% relate to elementary and secondary education, 29% relate to higher education, and 1% relate to other education;

- Active duty military 6%;
- Hospitals 6%; and
- Police 5%.

Employees by segment and reporting unit (to the extent allocable) were as follows:

March	Total	State and Local 2018	Federal 2014 ⁴
All government employees (part-time and full-time) Establish Justice and Ensure Domestic Tranquility Police protection	23,639,003 2,873,085 1,183,049	19,600,048 2,587,846 997,419	4,038,955 285,239 185,630
Fire protection Fire protection Corrections Judicial and legal	437,282 751,808 500,946	437,282 712,797 440,348	39,011 60,598
Provide for the Common Defense	2,082,300	_	2,082,300
National defense and international relations $^{\rm 1}$ Active duty military $^{\rm 2}$	743,813 1,338,487	_ _	743,813 1,338,487
Promote the General Welfare	4,773,903	3,707,476	1,066,427
Highways Transit Air transportation Water transport and terminals Space research and technology Public welfare Housing and community development Health Hospitals Social insurance administration (state and local) ³ Solid waste management Sewerage Water supply Electric power Gas supply Postal service State liquor stores	512,088 263,542 97,850 18,436 17,736 550,633 124,291 649,638 1,351,756 69,068 116,522 133,443 186,332 78,757 11,783 578,493 13,535	509,205 263,542 52,787 13,943 — 540,946 112,064 480,508 1,125,041 69,068 116,522 133,443 186,332 78,757 11,783 —	2,883 — 45,063 4,493 17,736 9,687 12,227 169,130 226,715 — — — — 578,493
Secure the Blessings of Liberty to Ourselves and Our Posterity	12,236,430	11,964,927	271,503
Education Libraries Parks and Recreation Social Insurance Administration (federal) ³ Natural Resources	11,166,075 189,564 454,315 62,708 363,768	11,156,701 186,184 429,961 — 192,081	9,374 3,380 24,354 62,708 171,687
General Government and Other	1,673,285	1,339,799	333,486
Financial administration Other government administration All other and unallocable	556,916 437,613 678,756	439,765 413,478 486,556	117,151 24,135 192,200

Sources: US Census Bureau, Bureau of Economic Analysis

We limited the data in this table to the years presented to provide the most recent data but to also fit the table to the page. Additional years of data and more detail may be found on our website. Click "More detail" to access it.

Civilian military employees are included in national defense and international relations. Active duty military are as of September of each year, reserves are not included.

At the federal level, social insurance administration employees are primarily those responsible for administering Social Security and Medicare and therefore have been allocated to "Secure the Blessings of Liberty to Ourselves and Our Posterity." State and local social insurance administration employees administer unemployment and job services and therefore are allocated to "Promote the General Welfare."

Federal employees are as of March of 2014, the latest date available.

For 2019, 37% of government employees were represented by unions, including 30% of federal government employees, 32% of state government employees, and 43% of local government employees.³⁰

Talented employees are critical to the success of our Government, and the market for talented employees is competitive. The Government Accountability Office has found that mission-critical skills gaps within the federal workforce pose a high risk to the nation. Regardless of whether the shortfalls are in such government-wide occupations as cybersecurity and acquisitions, or in agency-specific occupations such as nurses at the Veterans Health Administration (VHA), skills gaps impede the federal government from cost-effectively serving the public and achieving results. Agencies can have skills gaps for different reasons: they may have an insufficient number of people or their people may not have the appropriate skills or abilities to accomplish mission-critical work. Moreover, current budget and long-term fiscal pressures, the changing nature of federal work, and a potential wave of employee retirements that could produce gaps in leadership and institutional knowledge, threaten to aggravate the problems created by existing skills gaps. Indeed, the government's capacity to address complex challenges such as disaster response, national and homeland security, and rapidly-evolving technology and privacy security issues requires a skilled federal workforce able to work seamlessly with other agencies, with other levels of government, and across sectors.³¹

Available information

Our website can be found at https://usafacts.org, where we make available free of charge a variety of information. Our goal is to maintain the website as a portal through which users can easily find or navigate to pertinent information about our Government, including:

- USAFacts Annual Report a detailed annual score card for our Government;
- USAFacts 10-K (this report) an annual report for our Government in the style of a corporate Form 10-K;
- Facts in Focus brief topical analyses; and
- a database containing the data used in these reports, plus additional data and analysis.

In addition to our website, we use social media to communicate with the public. You can follow us on Twitter at @usafacts and Facebook and Instagram at USAFacts.

Item 1A. Risk Factors

Our Government's operations, financial results, and satisfaction of its customers are subject to various risks and uncertainties, including those described below.

The COVID-19 pandemic may hinder our Government's ability to achieve its constitutional objectives, at least in the short-term.³²

The Centers for Disease Control (CDC) is responding to a worldwide pandemic of respiratory disease spreading from person-to-person caused by a novel (new) coronavirus. The disease has been named "coronavirus disease 2019" (abbreviated "COVID-19"). On March 11, 2020, the COVID-19 outbreak was characterized as a pandemic by the World Health Organization (WHO). At the time of this filing, the US is in the acceleration phase of the pandemic, and all 50 states have reported cases to the CDC. This situation poses a serious public health risk.

The complete clinical picture with regard to COVID-19 is not fully known. Reported illnesses have ranged from very mild (including some with no reported symptoms) to severe, including illness resulting in death. As of April 13, 2020, there have

been 22,492 related deaths and 578,476 confirmed cases of COVID-19 in the US. For current data visit the <u>USAFacts.org</u> <u>website</u>. At this time, there is no vaccine to protect against COVID-19 and no medications approved to treat it. Nonpharmaceutical interventions will be the most important response strategy to try to delay the spread of the virus and reduce the impact of the disease.

The CDC expects that widespread transmission of COVID-19 in the United States will occur. In the coming months, most of the US population will be exposed to this virus. Widespread transmission of COVID-19 could translate into large numbers of people needing medical care at the same time. Schools, childcare centers, and workplaces may experience more absenteeism. Unemployment insurance claims reached more than 10 million for the two weeks preceding March 28, 2020, compared to 217,000 for the week of March 14, 2020. Mass gatherings may be sparsely attended or postponed. Public health and healthcare systems may become overloaded, with elevated rates of hospitalizations and deaths. Other critical infrastructure, such as law enforcement, emergency medical services, and sectors of the transportation industry may also be affected. Healthcare providers and hospitals may be overwhelmed.

On March 16, 2020, the White House announced a program called "15 Days to Slow the Spread," which is a nationwide effort to slow the spread of COVID-19 through the implementation of social distancing at all levels of society. The social distancing guidelines were subsequently extended beyond 15 days and are now recommended through April 30.

These circumstances and our response to them may have a significant negative impact on the health and well-being of the US population, as well as on the US economy. On March 27, 2020, the "Coronavirus Aid, Relief, and Economic Security Act" or the "CARES Act" was passed into law. This bill attempts to address economic impacts of, and otherwise respond to, the COVID-19 outbreak by:

- authorizing emergency loans to distressed businesses, including air carriers, and suspending certain aviation excise taxes;
- providing funding for forgivable bridge loans and additional funding for grants and technical assistance to small businesses:
- providing funding for \$1,200 tax rebates to individuals (subject to income limitations), with additional \$500 payments per qualifying child;
- establishing limits on requirements for employers to provide paid leave;
- revising tax provisions regarding withdrawals from retirement plans, tax due dates, losses, charitable deductions, and business interest;
- providing additional funding for the prevention, diagnosis, and treatment of COVID-19;
- limiting liability for volunteer health care professionals;
- prioritizing Food and Drug Administration (FDA) review of certain drugs and allowing emergency use of certain diagnostic tests that are not approved by the FDA;
- expanding health-insurance coverage for diagnostic testing and requiring coverage for preventative services and vaccines;
- revising other provisions, including those regarding the medical supply chain, the national stockpile, the health care workforce, the Healthy Start program, telehealth services, nutrition services, Medicare, and Medicaid;
- temporarily suspending payments for federal student loans and otherwise revising provisions related to campus-based aid, supplemental educational-opportunity grants, federal work-study, subsidized loans, Pell grants, and foreign institutions; and
- authorizing the Department of the Treasury to temporarily guarantee money-market funds.

This pandemic will impact most facets of Our Government and our population. Nearly all government agencies are responding, and many have issued related statements. You can review the responses from each federal agency at https://www.usa.gov/government-coronavirus-response. However, Our Government will face challenges in responding. The GAO reports that "Recent hurricanes, wildfires, and other events have highlighted the challenges the federal government faces in responding effectively to natural and man-made disasters—both in terms of immediate response and for long-term recovery efforts."33 For ongoing analysis of the impact of COVID-19, please see USAFacts' Coronavirus hub at https://usafacts.org/issues/coronavirus/.

Government data is often untimely and inconsistent, inhibiting informed decision-making.

Unlike information about a corporation, the data for our Government come from numerous and varied sources. The current state of this data poses significant challenges, including:

- Each of the sources may prepare the data on different accounting bases (e.g. cash vs. accrual) and for different time periods (e.g. a point in time vs. a full year, calendar year vs. fiscal year), preventing comparability.
- The data is often not provided timely, sometimes years after-the-fact even for material data sets. For example, the latest date for which we have detailed corporate tax information is 2015. The latest date for which we have Medicaid enrollment data that is not estimates is 2012. The latest date for which we have consolidated financial data for our more than 90,000 state and local governments is 2017. And data on student enrollment and teacher populations is missing for some recent years.
- Sometimes the data conflicts with other data provided by our Government for the same metrics. For example, there are conflicting figures from the same or different government agencies for research and development spending, Unemployment Insurance benefits, Supplemental Security Income payments, and healthcare costs.

This lack of availability and comparability of data makes analysis of our Government challenging, hampering the knowledge and decision-making capability of our leaders, regulators, citizens, and all other interested parties. We have highlighted these and other key data challenges for this 10-K in Exhibits 99.12 and 99.13 to this report.

In a free society, human behavior cannot be fully regulated or controlled.

Our Government provides services, promulgates regulations, and enacts legislation intended to make progress towards our Constitutional objectives; however, citizens are responsible for making their own choices as to employment, healthcare, education, and the like. They may choose wisely or poorly, and they may or may not take advantage of the opportunities open to them. For example:

- While our Government seeks to create a stable economic climate that favors full employment and low inflation, it cannot guarantee these outcomes. Company investment, hiring decisions, and individuals' desire to work are beyond our Government's control.
- Our Government provides access to healthcare and discourages unhealthful behavior (for example, by imposing high excise taxes on tobacco and requiring warning labels); however, individuals may still choose to engage in unhealthful behavior such as smoking.
- Our Government sets emissions standards for automobiles to limit air pollution, but citizens are still free to drive as much as they wish.
- Our Government seeks to promote transportation safety by issuing drivers' licenses, imposing speed limits, requiring the use of seatbelts in cars and regulating the trucking, rail, and airline industries. Even so, accidents will occur as a result of human error or unforeseeable mechanical failures.

Government personnel security clearance processing challenges put us at risk.31

A high-quality and timely government-wide personnel security clearance process is essential to minimize the risks of unauthorized disclosures of classified information and to identify and assess individuals with criminal histories or other questionable behavior. As of October 1, 2015, the latest date for which data are available, approximately 4.2 million government and contractor employees, at nearly 80 executive branch agencies, were eligible to hold a personnel security clearance. Current challenges in the personnel security clearance process include:

• *Timeliness* - For fiscal year 2016, the government-wide average for the fastest 90% of initial secret clearance investigations ranged from 92 days to 135 days, while investigations for the fastest 90% of initial top-secret clearances ranged from 168 days to 208 days. In both areas, these timeframes significantly exceed established

- timeliness objectives. As of February 2019, there was a backlog of approximately 565,000 background investigations.
- *Investigation quality* The executive branch has not established measures for the quality of background investigations. Establishing performance measures is one element of a framework for effectively managing program performance to achieve desired outcomes.
- Resolution of previously identified issues Several critical areas of previously identified areas for reform such as the implementation of continuous evaluation, and the issuance of a reciprocity policy remain incomplete. The GAO made numerous recommendations to executive branch agencies to address risks associated with the personnel security clearance process between 2011 and 2018 of which 27 of those recommendations are considered key to addressing the high-risk designation. Eight recommendations key to the high-risk designation have been implemented, including three since January 2018.

Increasing cyber security threats challenge our safety, prosperity, and well-being.³¹

Our Government and our nation's critical infrastructures—such as energy, transportation systems, communications, and financial services—are dependent on computerized (cyber) information systems and electronic data to carry out operations and to process, maintain, and report essential information. Ineffectively protecting cyber assets can facilitate security incidents and cyberattacks that disrupt critical operations; lead to inappropriate access to and disclosure, modification, or destruction of sensitive information; and threaten national security, economic well-being, and public health and safety. We are seeing steady advances in the sophistication of cyber-attack technology and the emergence of new and more destructive attacks. Since 2010, the US Government Accountability Office (GAO) has made over 3,000 recommendations to agencies aimed at addressing cybersecurity challenges facing the government. Nevertheless, many agencies face challenges in safeguarding their information systems and information, in part because many of these recommendations have not been fully implemented, and as of December 2018, nearly 700 of the GAO's information security—related recommendations had not been fully implemented.

Our Government's revenue and spending are significantly affected by economic conditions.

Our Government's ability to deliver services to citizens is influenced by the state of the economy. Indeed, maintaining economic growth, full employment, and low and stable inflation are among its top priorities, at least in part because these conditions both foster the prosperity and well-being of its citizens and provide tax revenue that funds Government services.

An economic downturn could result in business failures and job losses, with a resulting decline in corporate and personal income-tax revenue. At the same time, spending would rise as government increases outlays for services such as unemployment insurance, Temporary Assistance to Needy Families, and the Supplemental Nutrition Assistance Program.

On the federal level, the combination of lower revenue and higher spending would widen the budget deficit, which would have to be financed either by raising taxes, selling government assets, or issuing debt. The increase of our national debt raises interest costs and constrains our Government's ability to provide services in the future.

An economic downturn could be caused by policy errors, the vagaries of the business cycle, and exogenous factors. In the longer term, the economy could succumb to a slowing pace of growth as an aging society reduces the size of the labor force as a proportion of the total population.

Policy errors

• Keeping interest rates low for too long could stoke inflation, which may then need to be curbed by a sudden, sharp increase in interest rates. Too-low rates also raise the risk of unsustainable asset valuations, or "bubbles."

- Keeping interest rates higher than necessary, which could slow the pace of economic growth by increasing the cost of doing business, as an example, and thereby raise unemployment.
- Excessive government spending with borrowed funds, which could drive inflation higher, eroding citizens' standard of living, creating an uncertain business environment, and discouraging investment.
- Insufficient government spending on services such as policing, health, defense, and education could reduce the effectiveness of key government functions and adversely affect the safety and well-being of the population.
- Raising personal and/or corporate income taxes excessively, thus possibly reducing incentives for certain individuals to work, invest, and innovate.
- Reducing personal and/or corporate income taxes too much and not decreasing government spending accordingly, thereby increasing the budget deficit.

Other potential causes

The state of the economy also depends on factors beyond our Government's control, including:

- External shocks economic downturns or crises in overseas markets could reduce demand for US exports of goods and services, potentially slowing domestic economic growth.
- *Health shocks* large-scale pandemics could cause economic disruption and budgetary pressures on federal, state, and local governments, reducing government revenues and requiring greater government expenditures.
- Energy shocks a sudden, sharp jump in the price of oil and/or natural gas could result in higher prices for products such as gasoline and heating fuel, curbing consumer spending for other goods and services and slowing the overall pace of growth. More expensive energy could also spur broader consumer-price inflation by pushing up prices companies pay for electricity, fuel, and raw materials for the production of chemicals, plastics, and other goods.
- Financial shocks a sharp drop in financial asset prices (e.g. common stocks) would reduce household wealth, potentially limiting consumer spending and driving companies into bankruptcy.
- Housing bubble a steep increase in home prices, followed by a sharp decline, could push the economy into a recession by causing a drop in household balance sheets, consumer confidence, and spending.

Our Government's revenue and its ability to provide needed services in the long run may also be limited by failure to control budget deficits and the national debt.

Federal debt held by the public is now at its highest level since shortly after World War II. Without a change in current laws and policies, federal spending, especially for Social Security and Medicare, is forecast to outstrip revenue over the next decade, widening the national debt to 92% of GDP in 2029 from 78% in 2019, according to the Congressional Budget Office. In 30 years, the Congressional Budget Office projects the debt will rise to 144% of GDP. That amount would be the highest in the nation's history by far. As a result, there is a risk that interest payments on the debt could consume a growing portion of the budget, possibly limiting the federal government's ability to provide other services unless taxes are raised or revenue is otherwise increased. A rising debt also risks pushing up interest rates, reducing savings and investment, and increasing the chances of a fiscal crisis.

Recently enacted legislation and tax avoidance put downward pressure on tax revenues, reducing Government resources.

On December 22, 2017, H.R.1, also known as the Tax Cuts and Jobs Act, became law. Effective January 1, 2018, H.R. 1 reduces the top individual income tax rate from 39.6% to 37%, changes the income tax brackets associated with each tax rate, increases the child tax credit, and provides for a 20% deduction of qualified business income and certain dividends for individuals, among other provisions. The Joint Committee on Taxation, a nonpartisan committee of the US Congress, estimates that H.R.1 will reduce federal income tax revenue by \$1.5 trillion between 2018 and 2027, including \$1.1 trillion

between 2018 and 2022. The estimated impacts on annual tax revenues range from a gain of \$33 billion in 2027 to a loss of \$280 billion of revenue in 2019. This works out to an average estimated annual revenue loss of \$146 billion, or about 3% of our Government's annual revenue.

Enforcement of tax laws helps fund our Government. Internal Revenue Service (IRS) enforcement collects revenue from noncompliant taxpayers and, perhaps more importantly, promotes voluntary compliance by giving taxpayers confidence that others are paying their fair share. The IRS's capacity to implement new initiatives, carry out ongoing enforcement and taxpayer service programs, and combat identity theft (IDT) refund fraud under an uncertain budgetary environment remains a challenge. In 2016, the IRS estimated that the average annual gross tax gap—the difference between taxes owed and taxes paid on time—was \$441 billion for tax years 2011-2013, of which it estimates it may collect only \$60 billion (14%). In addition, the IRS estimates that at least \$12.2 billion in individual IDT tax refund fraud was attempted in 2016, of which it prevented at least \$10.5 billion (86%).

Failure to raise the debt limit could create operational and economic risk.

Gross federal debt, or the sum of the debt held by the public and debt held by government entities (such as the Social Security trust fund) is subject to a statutory ceiling set by Congress. The ceiling, known as the debt limit, has been suspended (there is no limit) through July 31, 2021. The Treasury must take extraordinary measures to continue funding government activities after August 1, 2020. Even then, it will be able to continue borrowing only for a limited time. Once the limit is reached, the Treasury may not issue new debt to pay bills already incurred by Congress. Since 1960, Congress has raised, extended, or altered the definition of the debt ceiling or suspended it numerous times, most recently effective August 2, 2019. Failure to raise the ceiling when needed could prompt an unprecedented default on Treasury securities, which are generally considered the world's safest government debt and form a foundation for the global financial system. A US default, in turn, could trigger a financial crisis and throw the nation into a recession.

Ongoing efforts to modernize the financial regulatory system and the federal role in housing finance also pose risks to the budget outlook and economic stability.³¹

Following massive bailouts of financial firms during the 2007-2008 crisis, in 2010, the federal government enacted the Dodd-Frank Act, which was intended to strengthen oversight of the financial system and reduce the risk of another crisis. In May 2018, the Financial CHOICE Act rolled back a number of provisions of the Dodd-Frank Act. This act, as amended, has not been tested, and it's unclear whether it is adequate to prevent future financial crises that would involve the use of government funds to rescue financial institutions.

As a reaction to the financial crisis, our Government also took over two housing-finance agencies, Fannie Mae and Freddie Mac, which guarantee about half of the new mortgages in the US and have combined assets of about \$5 trillion. Our Government's role in housing finance could require the use of significant government funds.

Our Government has significant fiscal exposure to risks associated with a changing environment.³¹

Changes in our environment may pose risk to agriculture, infrastructure, and the health of citizens. Possible effects include coastal flooding as a result of rising sea levels, changes to the productivity of farms, and more intense and frequent weather events, according to our Government Accountability Office. Drought and diminishing water supplies are also risks. Our Government is the owner and operator of infrastructure that is vulnerable to changes in our environment, insures crops that could be damaged, and provides disaster aid in emergencies.

The federal government is also financially liable for cleaning up areas where federal activities have contaminated the environment. Various federal laws, agreements with states, and court decisions require the federal government to clean up environmental hazards at federal sites and facilities—such as nuclear weapons production facilities and military installations. Such sites are contaminated by many types of waste. The GAO reports that the federal government's

environmental liability has been growing for the past 20 years and is likely to continue to increase. For fiscal year 2017, the federal government's estimated environmental liability was \$465 billion—up from \$212 billion for fiscal year 1997. However, this estimate does not reflect all of the future cleanup responsibilities federal agencies may face. The GAO has found that federal agencies cannot always address their environmental liabilities in ways that maximize the reduction of health and safety risks to the public and the environment in a cost-effective manner, and that some agencies do not take a holistic, risk-informed approach to environmental cleanup that aligns limited funds with the greatest risks to human health and the environment.

Our Government's revenue and spending and our Constitutional objectives may be significantly affected by social unrest.

Establishing justice and ensuring domestic tranquility have been top priorities since the adoption of the Constitution in 1787. If there is civil unrest, most inputs and outcomes of our Government are affected.

Domestic tranquility has periodically been disrupted by localized rebellions, criminal gangs, labor actions, riots, and mass protests. In 1794, President George Washington raised a militia to suppress the "Whisky Rebellion," an uprising by farmers in western Pennsylvania resisting the imposition of an excise tax on whiskey. In 1932, President Herbert Hoover ordered the army to disperse the so-called "bonus army," a group of more than 40,000 veterans, family members and supporters who gathered in Washington to demand cash redemption for bonus certificates awarded for service in World War I. In 1968, the assassination of civil rights leader Martin Luther King, Jr. sparked a wave of riots across American cities, including Washington D.C., Chicago, Baltimore, Detroit, and Kansas City, causing dozens of deaths, more than 10,000 arrests, and widespread property damage. President Lyndon B. Johnson mobilized more than 10,000 federal troops and national guardsmen to quell the disturbances in Washington. The 1960s also saw mass demonstrations to protest the war in Vietnam, including one in 1969 that drew an estimated half a million protesters to the capital. Most significantly, a dispute between southern and northern states over the institution of slavery resulted in the secession of 11 southern states from the union, followed by a civil war to restore the union that lasted from 1861 to 1865, costing the lives of 620,000 soldiers.

Today, cities, counties, and states operate police forces and court systems responsible for enforcing local laws and maintaining public order; prisons to accommodate those who have been convicted of breaking the law and sentenced to incarceration; and fire departments to prevent and fight fires. The federal government also operates a number of law-enforcement agencies, including the Federal Bureau of Investigation and the Drug Enforcement Administration. Our Government also seeks to ensure the safety of consumer products, food and pharmaceuticals, and transportation systems; protect the environment; and protect the population against natural disasters.

Our Government's ability to maintain order and protect the population from a variety of threats faces a number of risks and challenges, including:

- Natural disasters such as hurricanes, earthquakes, tornadoes, and forest fires;
- Riots and civil unrest, with potential causes including racial tensions and perceptions that inequality is rising and economic mobility declining;
- Nuclear disasters, caused by an accident or sabotage;
- Terrorist attacks, either homegrown or originating abroad;
- Individuals or groups that seek to harm others, including by committing homicides, and the inability of our Government to control all individuals despite incentives and laws; and
- War with a powerful adversary.

Our Government's ability to achieve its vision is affected by foreign relations.

Cultivating friendly relations with foreign powers that share our values as well as improving relations or avoiding conflicts with actual and potential adversaries are essential to providing for the common defense. When necessary, we go to war to protect our vital national interests. Threats to our national security include:

Russia, a nuclear power and principal successor to the USSR, seeks veto authority over nations on its periphery
in terms of their governmental, economic, and diplomatic decisions, to shatter NATO and change European and

Middle East security and economic structures to its favor. The use of emerging technologies to discredit and subvert democratic processes in Georgia, Crimea, and eastern Ukraine is concern enough, but when coupled with its expanding and modernizing nuclear arsenal the challenge is clear.

- China, which also possesses a nuclear arsenal, is leveraging military modernization, influence operations, and
 predatory economics to coerce neighboring countries to reorder the Indo-Pacific region to their advantage. As
 China continues its economic and military ascendance, asserting power through an all-of-nation long-term
 strategy, it will continue to pursue a military modernization program that seeks Indo-Pacific regional dominance
 in the near-term and displacement of the US to achieve global preeminence in the future.
- Global terrorism Groups such as Islamic State have taken advantage of instability in the Middle East, including the collapse of Libya, civil war in Syria, and a weak, US-backed regime in Iraq, to extend control over territory and natural resources that can then be used to stage terrorist attacks across the globe. Such groups are difficult to counter because they usually deploy suicide attackers and their radical ideology, alien to our own values, makes it difficult if not impossible to negotiate with them.
- Nuclear proliferation While the US has continued to reduce the number and salience of nuclear weapons, others, including Russia and China, have moved in the opposite direction. They have added new types of nuclear capabilities to their arsenals, increased the salience of nuclear forces in their strategies and plans, and engaged in increasingly aggressive behavior, including in outer space and cyber space. North Korea continues its illicit pursuit of nuclear weapons and missile capabilities in direct violation of United Nations (UN) Security Council resolutions. Iran has agreed to constraints on its nuclear program in the Joint Comprehensive Plan of Action (JCPOA). Nevertheless, it retains the technological capability and much of the capacity necessary to develop a nuclear weapon within one year of a decision to do so.
- Alliances Our Government has concluded alliances and partnerships with a number of nations around the
 world, including Turkey, Pakistan, Israel, and Saudi Arabia. The goals and interests of these nations may not be
 identical to our own, and they may become embroiled in local conflicts that end up involving the US.
- Cyberwarfare could disrupt our military capabilities and command and control; adversaries could also create
 economic havoc through cyber-attacks on the financial system, the power grid, our water sources, and nuclear
 power plants.

Our Government's ability to secure the financial future of retirees is threatened by the risk of insolvency facing Social Security trust funds and the Pension Benefit Guaranty Corporation.³¹

The cost of providing Social Security and disability benefits is rising faster than revenue generated by the payroll tax. Reserves of the DI Trust Fund may be depleted as early as 2025, and reserves of the OASI Trust Fund may be depleted as early as 2030, according to projections by the funds' trustees. See Exhibit 99.06 for more information. The Pension Benefit Guaranty Corporation (PBGC), which backs the pension benefits of over 35 million Americans through insurance programs that guarantee pension benefits when plans fail, may not be able to meet its long-term obligations, due in part to a long-term decline in the number of traditional defined benefit plans and the collective financial risk of the many underfunded pension plans that PBGC insures. According to the PBGC's 2019 Annual Report, the PBGC's deficit was \$57 billion as of September 30, 2019. Its projections show that the multiemployer program continues to show a very high likelihood of insolvency during 2025, and that insolvency is a near certainty by the end of 2026. When the program becomes insolvent, PBGC will be unable to provide financial assistance to pay the current level of guaranteed benefits in insolvent plans. At that time, the only money available to provide financial assistance will be incoming multiemployer premiums and thus PBGC will be only able to pay financial assistance to the extent of PBGC's multiemployer premium income.

Promoting good health, especially for the elderly, faces key challenges.³¹

First, the Medicare Hospital Insurance Trust Fund is forecast to be depleted as early as 2023, reflecting rising health-care costs and a relative decline in the number of workers paying payroll taxes. See Exhibit 99.07 for more information. Second, epidemics, such as those caused by the Ebola or Zika viruses, and pandemics, such as the one caused by COVID-19, could bring about widespread illness and loss of life. Third, every day, nearly 130 people in the US die after overdosing on

opioids. The misuse of and addiction to opioids—including prescription pain relievers, heroin, and synthetic opioids such as fentanyl—is a serious national crisis that affects public health as well as social and economic welfare. The Centers for Disease Control and Prevention estimates that the total "economic burden" of prescription opioid misuse alone in the United States is \$78.5 billion a year, including the costs of healthcare, lost productivity, addiction treatment, and criminal justice involvement.

Failure to maintain and upgrade the nation's surface transportation system could curb economic growth and adversely affect the quality of life for citizens.³¹

The nation's highways, mass transit, and rail systems are under growing strain, reflecting increasing congestion and freight demand, and traditional funding sources are eroding. For example, federal taxes on gasoline haven't been raised since 1993. Inflation-adjusted revenue from motor fuel taxes that support the Highway Trust Fund, a major source of federal surface transportation funding, is declining, according to the Government Accountability Office, and our Government has been using general revenues to maintain spending levels. This trend is forecast to continue as consumers turn to vehicles that are more fuel efficient or that use alternative energy sources. The Congressional Budget Office estimates that \$159 billion in additional funding would be needed between 2022 and 2029 to maintain inflation adjusted spending on current levels.

Recruiting and retaining skilled Government workers is key to delivering essential, and in many cases life-saving, services to the American people.³¹

High levels of training and education are required to address complex challenges such as disaster response, national and homeland security, and rapidly evolving technology and privacy-security issues. However, current budget and long-term fiscal pressures, declining levels of federal employee satisfaction, and a potential wave of employee retirements could produce gaps in leadership and institutional knowledge.

Item 2. Properties

Domestic

Land

Federal government owned land

The federal government owns and manages more than a quarter of the roughly 2 billion acres of land in the US. These lands are managed for many purposes, primarily preservation, recreation, and development of natural resources. Five primary federal agencies manage about 95% of this federally-owned-and-managed land. The five agencies and the land they managed are:

(Acres in thousands)	1990	2000	2010	2018
Agency				
Bureau of Land Management	272,029	264,398	247,859	244,391
Forest Service	191,367	192,355	192,881	192,919
Fish and Wildlife Service	86,822	88,226	88,949	89,206
National Park Service	76,134	77,931	79,691	79,946
Department of Defense	20,501	24,052	19,422	8,850
Total federally-owned land	646,853	646,962	628,802	615,312
Total land in US	2,271,343	2,271,343	2,271,343	2,271,343
Percentage of land in US federally-owned	28%	28%	28%	27%

Data source is the Congressional Research Service paper titled Federal Land Ownership: Overview and Data, dated February 21, 2020.



Federal government owned, otherwise managed, and leased land - non-public domain

Our Government sometimes refers to the land it owns and manages as public domain lands and acquired lands. According to the Congressional Research Service, public domain lands are those ceded by the original states or obtained from a foreign sovereign (via purchase, treaty, or other means). Acquired lands were obtained from a state or individual by exchange, purchase, or gift. About 90% of all federal lands are public domain lands, while the other 10% are acquired lands. Many laws were enacted that related only to public domain lands. Even though the distinction has lost most of its underlying significance today, different laws may still apply depending on the original nature of the lands involved. Owned, otherwise managed, and leased non-public domain land and related costs are as follows:

	2014	2015	2016
Land acres ¹	39,784,271	49,601,819	42,343,516
Owned and otherwise managed acres	38,829,324	47,909,576	41,015,497
Total annual operating costs (in thousands) ^{2,3}	\$ 140,751	\$ 122,890	\$ 125,059
Leased acres	954,947	1,692,243	1,328,020
Total annual lease costs (in thousands) ^{2,4}	\$ 48,561	\$ 49,568	\$ 50,728

[†] Data source is the General Services Administration FY 2016 Federal Real Property Profile (FRPP) Open Data Set. The General Services Administration reports that Department of Defense (DOD) data is under review and is therefore not included in 2017 and 2018 totals in the FRPP Open Data Set. It does not make sense for us to update this section to 2017 and 2018 without DOD data, as it comprises a large portion of the data set. As such, we have limited the most recent data in this section to 2016.

Owned, otherwise managed, and leased non-public domain land by agency as of 2016 was as follows:

(In thousands)	Acres				
Agency	Owned	Leased	Total		
Army Department	11,986	965	12,951		
Air Force Department	8,000	103	8,103		
Navy Department	4,299	43	4,342		
General Services Administration	4	_	4		
Department of Veterans Affairs	38	_	38		
Department of Energy	2,200	9	2,209		
Department of Interior	6,275	2	6,277		
Other department or agency	8,214	206	8,420		
Total	41,016	1,328	42,344		

Data source is the General Services Administration FY 2016 Federal Real Property Profile (FRPP) Open Data Set. The General Services Administration reports that Department of Defense (DOD) data is under review and is therefore not included in 2017 and 2018 totals in the FRPP Open Data Set. It does not make sense for us to update this section to 2017 and 2018 without DOD data, as it comprises a large portion of the data set. As such, we have limited the most recent data in this section to 2016.

State and local government owned and leased land

We are not aware of a source of state and local government owned and leased land for each government.

Includes federal government owned land and federal government managed museum trust, state government owned, and withdrawn land, and leased land. Does not include public domain land. Details may not add to total due to rounding.

² It is difficult to compare owned and leased annual operating costs due to their make-up. Owned annual operating costs only includes operations and maintenance costs, whereas leased annual operating costs also includes rent to capture the full cost of the asset.

Owned and otherwise managed annual operating and maintenance costs consist of the following: 1) recurring maintenance and repair costs; 2) utilities (includes plant operation and purchase of energy); 3) cleaning and/or janitorial costs (includes pest control, refuse collection, and disposal including recycling operations); and 4) roads/grounds expenses (includes grounds maintenance, landscaping, and snow and ice removal from roads, piers, and airfields).

Lease costs comprise: 1) annual net rent to the lessor – the fully serviced rental to the lessor minus the annual operating and maintenance costs and 2) annual operating and maintenance costs – reoccurring maintenance and repair costs including: utilities (includes plant operation and purchase of energy); cleaning and/or janitorial costs (includes pest control, refuse collection, and disposal, including recycling operations); roads/grounds expenses (includes grounds maintenance, landscaping, and snow and ice removal from roads, piers, and airfields).

Buildings and other structures

Below is detail of federal and state-owned buildings and structures.

	2014	2015	2016
Buildings ⁴	275,195	273,125	267,127
Owned ¹ Total square feet (in thousands)	254,083 2,505,805	253,481 2,520,991	247,723 2,490,265
Total annual operating costs (in thousands) ^{3,6} Leased Total square feet (in thousands) Total annual lease costs (in thousands) ^{3,7}	\$ 14,448,129 21,112 294,163 7,071,773	\$ 11,644,642 19,644 283,125 7,103,442	\$ 12,022,269 19,404 280,103 7,284,160
Structures ⁷	481,398	496,022	496,174
Owned ¹	477,634	492,263	492,725
Total annual operating costs (in thousands) ^{3,6} Leased	\$ 7,784,400 3,764	\$ 8,787,913 3,759	\$ 6,326,949 3,449
Total annual lease costs (in thousands) 3,7	\$ 64,972	\$ 58,053	\$ 59,135
Buildings real property use 8			
Utilized Underutilized Unutilized	103,902 1,611 3,360	96,718 3,598 3,414	89,359 7,859 3,120
Repair needs 1,2			
Owned building repair needs costs (in thousands)			\$ 115,672,218
Owned structure repair needs costs (in thousands) 5			\$ 92,098,256

Data source is the General Services Administration FY 2016 Federal Real Property Profile (FRPP) Open Data Set. The General Services Administration reports that Department of Defense (DOD) data is under review and is therefore not included in 2017 and 2018 totals in the FRPP Open Data Set. It does not make sense for us to update this section to 2017 and 2018 without DOD data, as it comprises a large portion of the data set. As such, we have limited the most recent data in this section to 2016.

Includes federal government owned, foreign government owned, museum trust, and state government owned.

Repair needs are only a required data element for owned assets. Repair needs is the objective amount necessary to ensure that a constructed asset is restored to a condition substantially equivalent to the originally intended and designed capacity, efficiency, or capability. This should exclude any consideration of the likelihood that the repair will actually be performed at any time before the asset's disposition.

³ It is difficult to compare owned and leased annual operating costs due to their make-up. Owned annual operating costs only includes operations and maintenance costs, whereas leased annual operating costs also includes rent to capture the full cost of the asset.

⁴ Buildings (examples): office, laboratories, hospital, warehouse

Structures (examples): airfield pavements, flood control and navigation, utility systems, navigation and traffic aids

⁶ Owned and otherwise managed annual operating and maintenance costs consist of the following: 1) recurring maintenance and repair costs; 2) utilities (includes plant operation and purchase of energy); 3) cleaning and/or janitorial costs (includes pest control, refuse collection, and disposal including recycling operations); and 4) roads/grounds expenses (includes grounds maintenance, landscaping, and snow and ice removal from roads, piers, and airfields).

Lease costs comprise: 1) annual net rent to the lessor – the fully serviced rental to the lessor minus the annual operating and maintenance costs and 2) annual operating and maintenance costs – reoccurring maintenance and repair costs including: utilities (includes plant operation and purchase of energy); cleaning and/or janitorial costs (includes pest control, refuse collection, and disposal, including recycling operations); roads/grounds expenses (includes grounds maintenance, landscaping, and snow and ice removal from roads, piers, and airfields).

The reporting of utilization is only required for offices, laboratories, hospitals, warehouses, family housing, dormitories, and barracks.

Buildings detail (2016)

As shown in the table above, our Government occupies 2.8 billion square feet of building space in the US and US territories, of which 2.5 billion square feet are owned and 280 million square feet are leased. Information by use and by government agency as of 2016 are shown in the tables below:

Buildings Real Property Use (in thousands, except per sq ft)	Owned sq/ft ¹	-	Owned Annual rating Costs ^{1,4}	Annua	Owned al Costs sq/ft ^{1,4}	Leased sq/ft	L	eased Annual Costs ^{2,4}	Leased ual Costs r sq/ft ^{2,4}
Total	2,490,265	\$	12,022,269	\$	4.83	280,103	\$	7,284,160	\$ 26.00
Office	505,382	\$	2,552,070	\$	5.05	180,116	\$	5,300,900	\$ 29.43
Service	386,874	\$	1,463,963	\$	3.78	7,000	\$	95,941	\$ 13.71
School	249,416	\$	1,239,604	\$	4.97	4,610	\$	35,593	\$ 7.72
Dormitories/Barracks	226,547	\$	933,140	\$	4.12	1,950	\$	38,116	\$ 19.54
Laboratories	172,973	\$	1,468,266	\$	8.49	4,634	\$	170,269	\$ 36.74
Other institutional uses	173,663	\$	843,802	\$	4.86	1,780	\$	18,229	\$ 10.24
Warehouses	127,428	\$	367,699	\$	2.89	23,878	\$	232,126	\$ 9.72
Hospital	126,892	\$	699,584	\$	5.51	363	\$	10,932	\$ 30.10
Industrial	111,131	\$	769,749	\$	6.93	933	\$	9,962	\$ 10.68
Family housing	52,132	\$	189,875	\$	3.64	2,565	\$	18,306	\$ 7.14
Prisons and detention centers	43,900	\$	353,236	\$	8.05	_	\$	_	\$ _
Communications systems	18,089	\$	84,555	\$	4.67	313	\$	5,480	\$ 17.53
Outpatient healthcare facility	14,490	\$	89,686	\$	6.19	12,154	\$	331,373	\$ 27.26
Navigation and traffic aids	12,561	\$	175,920	\$	14.01	702	\$	12,972	\$ 18.48
Facility security	10,972	\$	54,246	\$	4.94	141	\$	646	\$ 4.58
Child care center	9,140	\$	26,014	\$	2.85	26	\$	436	\$ 16.81
Museum	7,091	\$	21,930	\$	3.09	60	\$	42	\$ 0.70
Data centers	4,835	\$	67,039	\$	13.87	593	\$	13,815	\$ 23.29
Land port of entry	4,731	\$	29,369	\$	6.21	833	\$	16,832	\$ 20.22
Comfort stations/Restrooms	3,984	\$	31,135	\$	7.82	4	\$	7	\$ 1.71
Border/Inspection station	2,656	\$	24,638	\$	9.28	6,799	\$	104,322	\$ 15.34
Public facing facility	1,518	\$	5,468	\$	3.60	19,027	\$	555,837	\$ 29.21
Post office	996	\$	4,006	\$	4.02	_	\$	_	\$ _
Aviation security related	263	\$	1,839	\$	6.98	3,418	\$	152,385	\$ 44.58
All other ³	222,601	\$	525,436	\$	2.36	8,204	\$	159,639	\$ 19.46

Data source is the General Services Administration FY 2016 Federal Real Property Profile (FRPP) Open Data Set. The General Services Administration reports that Department of Defense (DOD) data is under review and is therefore not included in 2017 and 2018 totals in the FRPP Open Data Set. It does not make sense for us to update this section to 2017 and 2018 without DOD data, as it comprises a large portion of the data set. As such, we have limited the most recent data in this section to 2016.

It is difficult to compare owned and leased annual operating costs due to their make-up. Owned annual operating costs only includes operations and maintenance costs, whereas leased annual operating costs also includes rent to capture the full cost of the asset.

(In thousands)	Buil	ding Square Feet	
Agency	Owned	Leased	Total
Army Department	699,921	16,589	716,510
Air Force Department	444,482	5,614	450,096
Navy Department	432,822	2,848	435,670
General Services Administration	230,139	190,624	420,763
Department of Veterans Affairs	155,081	18,521	173,602
Department of Energy	115,581	596	116,177
Department of Interior	100,576	3,056	103,632
Other department or agency	311,663	42,255	353,918
Total	2,490,265	280,103	2,770,368

Data source is the General Services Administration FY 2016 Federal Real Property Profile (FRPP) Open Data Set. The General Services Administration reports that Department of Defense (DOD) data is under review and is therefore not included in 2017 and 2018 totals in the FRPP Open Data Set. It does not make sense for us to update this section to 2017 and 2018 without DOD data, as it comprises a large portion of the data set. As such, we have limited the most recent data in this section to 2016.

The US Government Accountability Office (GAO) reports that federal agencies continue to face long-standing challenges in several areas of real property management, including: (1) effectively disposing of excess and underutilized property, (2) relying too heavily on leasing, (3) collecting reliable real property data for decision making, and (4) protecting federal facilities.³¹

Includes federal government owned, foreign government owned, museum trust, and state government owned.

Includes operations and maintenance costs and rent.

The All Other category is defined as "buildings that cannot be classified elsewhere."

Federal Indian reservations³⁴

A federal Indian reservation is an area of land reserved for a tribe or tribes under treaty or other agreement with the US, executive order, or federal statute or administrative action as permanent tribal homelands, and where the federal government holds title to the land in trust on behalf of the tribe. Approximately 56.2 million acres (approximately 2% of total US land area) are held in trust by the US for various Indian tribes and individuals. There are approximately 326 Indian land areas in the US administered as federal Indian reservations (i.e. reservations, pueblos, rancherias, missions, villages, communities, etc.). The largest is the 16 million-acre Navajo Nation Reservation located in Arizona, New Mexico, and Utah. The smallest is a 1.32-acre parcel in California where the Pit River Tribe's cemetery is located. Many of the smaller reservations are less than 1,000 acres.

International35

We are not aware of a current aggregated source for land held by our Government outside of the US. However, the Department of Defense (DOD) reports on its overseas holdings. As of 2018, the DOD managed a worldwide real property portfolio that spanned 45 foreign countries, including 514 overseas sites:

- By country Germany (194 sites), Japan (121 sites), and South Korea (83 sites) had the most sites by country;
- By service 202 were for the Army, 166 for the Air Force, 123 for the Navy, and 23 for the Marine Corps; and
- By value 430 had a replacement value of less than \$1.102 billion each, 21 had a replacement value of equal to or more than \$1.102 billion and less than \$2.067 billion each, 24 had a replacement value of equal to or more than \$2.067 billion each, and 39 had a replacement value of zero.

Item 3. Legal Proceedings

Our Government is subject to a variety of claims and suits that arise from time to time in the ordinary course of its operations. See *Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements, Note 18 – Contingencies* for a discussion of these items.

Part II

Item 6. Selected Financial Data

The figures below represent financial highlights for our Government, comprising combined federal, state, and local government figures.

(In billions)								
Year Ended September 30,	2017	2016	2015	2010	2005	2000	1990	1980
As reported								
Revenue	\$ 5,597	\$ 5,097	\$ 5,168	\$ 3,931	\$ 3,640	\$ 3,214	\$ 1,638	\$ 770
Expenditures	\$ 6,070	\$ 5,860	\$ 5,660	\$ 5,130	\$ 3,826	\$ 2,804	\$ 1,818	\$ 833
Surplus (deficit)	\$ (473)	\$ (763)	\$ (492)	\$ (1,199)	\$ (186)	\$ 410	\$ (180)	\$ (63)
Cash, cash equivalents, and short-term investments ¹	\$ 1,010	\$ 1,180	\$ 1,010	\$ 967	\$ 506	\$ 479	\$ 298	\$ 128
Total assets ¹	\$ 22,489	\$ 21,650	\$ 21,102	\$ 17,327	\$ 13,146	\$ 10,281	\$ 5,591	\$ 2,863
Total liabilities ¹	\$ 29,923	\$ 29,068	\$ 27,888	\$ 20,937	\$ 13,805	\$ 9,409	\$ 5,547	\$ 2,143
Net worth 1	\$ (7,434)	\$ (7,418)	\$ (6,786)	\$ (3,610)	\$ (659)	\$ 872	\$ 44	\$ 720
Adjusted for inflation ²								
Revenue	\$ 5,597	\$ 5,202	\$ 5,323	\$ 4,410	\$ 4,587	\$ 4,590	\$ 3,103	\$ 2,347
Expenditures	\$ 6,070	\$ 5,980	\$ 5,830	\$ 5,755	\$ 4,821	\$ 4,004	\$ 3,443	\$ 2,539
Surplus (deficit)	\$ (473)	\$ (778)	\$ (507)	\$ (1,345)	\$ (234)	\$ 586	\$ (340)	\$ (192)
Cash, cash equivalents, and short-term investments ¹	\$ 1,010	\$ 1,204	\$ 1,040	\$ 1,085	\$ 638	\$ 684	\$ 565	\$ 390
Total assets ¹	\$ 22,489	\$ 22,094	\$ 21,735	\$ 19,437	\$ 16,565	\$ 14,681	\$ 10,593	\$ 8,726
Total liabilities ¹	\$ 29,923	\$ 29,664	\$ 28,724	\$ 23,487	\$ 17,396	\$ 13,436	\$ 10,510	\$ 6,531
Net worth ¹	\$ (7,434)	\$ (7,570)	\$ (6,989)	\$ (4,050)	\$ (831)	\$ 1,245	\$ 83	\$ 2,195

Balance sheet figures shown here are sourced from the Federal Reserve. The balance sheets we use in all other sections of this document are sourced as described in Exhibit 99.01. Because Item 6 requires us to show more years of financial information than elsewhere in this report, these figures are sourced from the Federal Reserve as this is the only source with an extended time series of combined balance sheet data. Key differences in balance sheets from the two sources are that the Federal Reserve does not include in its data TARP investments, inventories and related property, investments in GSEs, environmental and disposal liabilities, benefits due and payable, loan guarantee liabilities, or other liabilities. They also appear to account for Treasury securities, property, plant, and equipment, and employee and veteran benefits payable on different bases.

To show the financial highlights in "real" terms, we have calculated and reported inflation-adjusted amounts. The inflation adjustment factors are based on the Consumer Price Index – All Urban Consumers (CPI-U) with a baseline year of 2017.

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following Management's Discussion and Analysis (MD&A) is intended to help the reader understand the results of operations and financial condition of our Government. MD&A is provided as a supplement to, and should be read in conjunction with, *Item 8. Financial Statements and Supplementary Information*.

About Management's Discussion and Analysis

Fiscal years presented

In this MD&A, we analyze the one-year, five-year, and 10-year periods ending September 30, 2017, the most recent period for which a nearly complete set of federal, state, and local financial data is available. A public company is generally required to analyze its immediately prior three fiscal years. While decisions can be made and implemented quickly within companies, and the impact of those decisions may be seen shortly thereafter, this is not generally the case within government. Therefore, we have provided a longer-term view within this MD&A than we would for a company.

Which changes are discussed

Throughout this MD&A, we discuss key changes in revenues and expenditures during the periods presented. We define key changes as those that are the largest dollar changes that when added together comprise at least 75% of the total change being explained. These key changes are highlighted in gray in the tables and then are discussed in the sections following each table. Note that only key changes are discussed, though all changes in major categories are shown in the tables for your information.

Modification of data

In cases where only calendar year annual data was available, we used one simple formula to create federal fiscal year (October 1 to September 30) data – 25% of the prior calendar year figure plus 75% of the current calendar year figure. All the figures in this MD&A that were converted from calendar year to federal fiscal year in this manner are indicated by * (one asterisk). To create state and local fiscal year (July 1 to June 30) data, we used a formula of 50% of the prior calendar year figure plus 50% of the current calendar year figure. All the figures in this MD&A that were converted from calendar year to state and local fiscal year in this manner are indicated by ** (two asterisks). Finally, for tax revenues, we calculated the impact of tax rates vs. tax bases by holding one constant while fluctuating the other. See more information at Exhibit 99.13.

Comparability of data

See discussion of the comparability of data within this MD&A in *Part I, About This Report, Comparability of data* and Exhibit 99.12 *Data comparability considerations*.

Overview

The United States of America (US) is a federal republic composed of 50 states, a federal district of Washington, D.C., five major and various minor insular areas, as well as over 90,000 local governments, including counties, municipalities, townships, school districts, and special district governments. At 3.8 million square miles and with over 328 million people (as of 2019), the US is the world's third-largest country by total area and the third most populous.

The people of the US, through our Government, seek to form a more perfect union, establish justice, ensure domestic tranquility, provide for the common defense, promote the general welfare, and secure the blessings of liberty to ourselves and our posterity.

To achieve the vision of the people, our Government raises money, spends money, and exercises, grants, and rescinds authorities. Our Government generates revenue mainly by taxing individuals and businesses in the US, and to a lesser degree through income on assets invested and charges for government services. Our Government's most significant expenditure is transfer payments to individuals and subsidies, comprising 48% of its expenditures in 2017, most significantly for Social Security, Medicare, and Medicaid. Personnel and compensation costs is our Government's second-largest expenditure, comprising 27% of its expenditures in 2017. By segment, our Government's most significant expenditures are for securing the blessings of liberty to ourselves and our posterity, comprising 53% of its expenditures in 2017.

Trends

During the one-year, five-year, and 10-year periods ending in 2017, we saw a mixture of stagnation, progression towards, and retreat from, achievement of our Constitutional objectives. Our Government's role in these trends is certainly not clear. However, we believe it may be useful to observe these trends in evaluating our Government. Highlights in key metrics for these years are summarized below.

When comparing 2017 to 2007, we made progress towards our objectives by:

- *growing our economy*, including increasing GDP, the S&P 500, median annual wages, the federal minimum wage, and household financial assets, while decreasing business bankruptcy filings;
- **reducing overall crime and physical harm**, including reducing reported crime and arrests, border apprehensions, workplace injuries and fatalities, transportation fatalities, instances of most types of fires and civilian deaths from home and other structure fires, non-fatal child victimization, and housing discrimination complaints;
- *improving quality of life for certain populations*, including reducing numbers of children in foster care and increasing charitable giving; and
- **tending to our environment**, including reducing overall emissions, numbers of poor air quality days in certain large cities, and net energy consumption, while increasing energy consumption from nuclear and renewable sources.

We retreated from our objectives through:

- **fiscal unsustainability of our Government**, as our Government's debt continues to grow as a percentage of GDP and per capita;
- **reduced participation in our democracy**, including reduced rates of voting in all elections but particularly midterm elections;
- **increasing specific crime and physical harm**, including numbers of civilian deaths from highway vehicle and non-structure fires, consumer complaints, intellectual property seizures, and airport firearm discoveries;
- *increasing challenges to the health of our population*, including increased rates of obesity and death from nearly all leading causes, more and more destructive natural disaster incidents and acres burned in forest fires, and increased personal healthcare expenditures;
- *insufficiently protecting our children*, including increasing numbers of homeless children and children receiving free and reduced lunch; and
- *increasing challenges to homeownership*, including reduced new home sales and homeownership rates.

Our Government's operations are financially unsustainable. It continues to spend more than it takes in each year, amassing total liabilities and an overall accumulated deficit that reached \$35.1 trillion and \$14.7 trillion, respectively, at September 30, 2017. Expenditures increased 42% between 2007 and 2017, when they reached a record high of \$6.1 trillion annually. Our Government has, however, reduced its annual deficit by 80% from its peak of \$2.3 trillion in 2009 to \$473 billion in 2017 through increased revenue. Increases in revenue have been driven by both overall economic prosperity (primarily increased taxable income and income on invested Government assets) and tax policy changes. See Part I, Item 1A. Risk Factors, Recently enacted legislation and tax avoidance put downward pressure on tax revenues, reducing Government resources, for discussion of recent significant tax policy changes that could impact these trends.

Macroeconomy and related government actions

Key economic indicators

Below are some key economic indicators for the periods discussed in this MD&A:

		2017		2016		2012		2007
Interest rates (Calendar year)								
10-year Treasury Rate		2.33%		1.84%		1.80%		4.63%
US Federal Funds Rate		1.30%		0.54%		0.16%		4.24%
US Bank Prime Loan Rate		4.10%		3.51%		3.25%		8.05%
Economic indicators								
Gross domestic product (calendar year)		19,519		18,715		16,197		14,452
Gross domestic product (fiscal year)		19,612		18,807		16,257		14,535
Average annual US inflation rate (calendar year)		2.1%		1.3%		2.1%		2.9%
Average annual US inflation rate (fiscal year)		2.1%		0.9%		2.4%		2.3%
Change in average annual US inflation from the respective year to 2017		—ppt		1.2ppt		(0.3)ppt		(0.2)ppt
Stock indices								
Standard and Poor's 500 (S&P 500) average daily closing price:								
Federal fiscal year – October 1 to September 30		2,344		2,061		1,331		1,450
Change from the respective year to 2017		—%		14%		76%		62%
State and local fiscal year – July 1 to June 30		2,267		2,027		1,287		1,399
Change from the respective year to 2017		—%		12%		76%		62%
Differences between beginning and ending closing prices of select stock indices, July 1 of the prior year compared to June 30:								
S&P 500		325		36		42		233
Change from the respective year to 2017		-%		808%		682%		39%
Deutsche Boerse AG German Stock Index, Performance (DAX)		2,645		(1,265)		(960)		2,324
Change from the respective year to 2017		—%		(309)%		(376)%		14%
Nikkei 225: N225 (NIKKEI)		3,708		(4,660)		(809)		2,633
Change from the respective year to 2017		—%		(180)%		(558)%		41%
Financial Times Stock Exchange 100 Index: UKX (FTSE)		808		(170)%		(375)		775
Change from the respective year to 2017		—%		(4,955)%		(316)%		4%
Change From the respective year to 2017 Chicago Board Options Exchange Volatility Index (VIX) at June 30		—‰ 11		16		17		16
Asset and service prices								
Gold price (per troy ounce)	\$	1,257.20	\$	1,250.80	\$	1,669.00	\$	695.40
West Texas Intermediate (WTI) crude oil spot price (per barrel)	\$	50.80	\$	43.29	\$	94.05	\$	72.34
Consumer Price Index (average monthly for the fiscal year):	4	30.00	*	.5.25	Ψ.	3	Ψ.	, 2.5 .
Consumer price index		243.9		238.9		228.5		205.3
Growth from the respective year to 2017		—%		2.1%		6.7%		18.8%
Food price index		249.0		247.8		232.6		201.0
Growth from the respective year to 2017		—%		0.5%		7.1%		23.9%
Medical care price index		— <i>7</i> 0 473.3		459.1		411.4		346.8
Growth from the respective year to 2017		—%		3.1%		15.0%		36.5%
Medical care commodities price index		—/ ₀		362.6		331.7		288.5
·		375.5 —%				331.7 13.2%		
Growth from the respective year to 2017				3.6%				30.2%
Medical care services price index		504.6		490.0		436.3		364.1
Growth from the respective year to 2017		—%		3.0%		15.7%		38.6%
Hospital and related services price index		822.3		787.1		665.0		489.6
Growth from the respective year to 2017		—%		4.5%		23.7%		68.0%
Housing		2.000/		2.6604		2.000		6.2.401
US 30-year mortgage interest rate		3.99%		3.66%		3.66%		6.34%
Median new home sales price (in thousands) 1	\$	323	\$	308	\$	245	\$	248
Median home values (in thousands) ²	\$	211	\$	200	\$	173	\$	190
Existing home sales (in thousands of housing units) ³		5,510		5,450		na		na
New home sales (in thousands of housing units)		613		561		368		776

Sources: Federal Reserve, Bureau of Labor, Freddie Mac, Energy Information Administration, World Gold Council, Bureau of Economic Analysis, US Census, Bureau of Labor Statistics, Yahoo Finance, Google Finance, Investing.com
An "na" reference in the table means the data is not available.

December of each year

Value is the respondent's estimate of how much the property (house and lot) would sell for if it were for sale. Any nonresidential portions of the property (for example, shared spaces in a condominium/co-op), any rental units, and land cost of mobile homes, are excluded from the value. For vacant units, value represents the sales price asked for the property at the time of the interview and may differ from the price at which the property is sold.

Existing home sales are based on closing transactions of single-family, townhomes, condominiums and cooperative homes. Seasonally-adjusted rate.

The first five years discussed in this MD&A

Between fiscal years 2007 and 2012, nominal GDP increased by 12%, with the following sectors experiencing the largest increases: finance, insurance, real estate, rental, and leasing; educational services, healthcare, and social assistance; professional and business services; and government. Early in this first five-year period, in 2007, the housing bubble peaked and shortly thereafter gave way to a financial crisis.

The Great Recession began in December 2007 and was accompanied by a financial crisis that peaked in September-October 2008 as major financial institutions were on the brink of collapse, prompting the federal government to act. Major government action first began in March 2008 when the investment firm Bear Stearns collapsed, and the federal government assisted in J.P. Morgan's takeover of the failed entity. Then in September 2008, Fannie Mae and Freddie Mac were placed in conservatorship by the Federal Housing Finance Agency. Ultimately, a broader package called the Troubled Asset Relief Program (TARP) was authorized by Congress in October 2008 to stabilize the financial system amid the most severe economic downturn since the Great Depression. Its original goal was to buy distressed assets, such as mortgage-backed securities, from financial firms. That was later changed to inject capital directly into banks through the purchase of bank senior preferred shares and warrants. The program was also broadened to include bailouts for auto firms General Motors Company and Chrysler Corporation, mortgage relief for homeowners, and measures to restart credit markets. Congress originally authorized \$700 billion for TARP, which was later reduced to \$475 billion (96% of which has since been returned to our Government, along with a surplus on certain investments that totals more than \$7.9 billion).

During this period, federal and state budget deficits reached record highs as revenues declined and spending increased. Revenues for state and local governments declined significantly because of the economic downturn, prompting some cuts to spending and higher tax rates as states (except Vermont) are not allowed to spend more than they receive.

After President Obama took office in January 2009, he and the Democratic-controlled Congress enacted the American Recovery and Reinvestment Act (ARRA), which was a stimulus package of temporary tax cuts and spending increases with the aim of boosting the macroeconomy. The legislation's numerous spending and revenue provisions can be grouped into several categories according to their focus:

- *Providing funds to states and localities* for example, by raising federal matching rates under Medicaid, providing aid for education, and increasing financial support for some transportation projects;
- Supporting people in need such as by extending and expanding unemployment benefits and increasing benefits under the Supplemental Nutrition Assistance Program (formerly food stamps);
- Purchasing goods and services for instance, by funding construction and other investment activities that could take several years to complete; and
- Providing temporary tax relief for individuals and businesses such as by raising exemption amounts for the Alternative Minimum Tax, increasing the Earned Income Tax Credit, adding a new Making Work Pay tax credit and a new American Opportunity Credit for higher education, and creating enhanced deductions for depreciation of business equipment.

At the end of fiscal year 2009, the recession waned, and a gradual recovery began. In December 2010, some tax cuts enacted in ARRA and those enacted during President George W. Bush's term were extended for two more years. Some of those were eventually allowed to expire in December 2012 – primarily those affecting high-income taxpayers. In March of 2010, the Affordable Care Act (ACA) was enacted, with most of the associated government revenue increases taking effect on January 1, 2013.

The following five years

The final five years of the 10-year window included in this MD&A was marked by economic growth. Overall, between fiscal years 2012 and 2017, nominal GDP grew by 21%, with the following sectors experiencing the largest increases: finance, insurance, real estate, rental, and leasing; professional and business services; educational services, healthcare, and social assistance; and government. The S&P 500 index grew 76%, while the average annual US inflation rate decreased from 2.4% in 2012 to 2.1% in 2017.

This period was also one of numerous changes in individual income tax law. In December 2012, following President Obama's reelection, he signed into law an extension of the Bush tax cuts again, albeit this time without the lower tax rates

on high-income taxpayers. So, the top two individual income tax rates reverted to their pre-2001 levels of 39.6% and 36%, while the top income tax rate on capital gains moved from 15% to 20%. These tax rates went into effect in January 2013.

Also going into effect in January 2013 were some new taxes from the ACA. This included most notably a new 3.8% tax on unearned income for high-income taxpayers. That is, taxpayers with Adjusted Gross Income (AGI) higher than \$200,000 (single) and \$250,000 (married) began paying a 3.8% tax on income from interest, dividends, and capital gains, among other sources. Furthermore, there was a 0.9 percentage point increase in the employee Medicare tax for those with AGIs higher than \$200,000 (single) and \$250,000 (married). This applies to payroll sources of income such as wages and self-employment income. The ACA also put into effect a higher AGI threshold for the medical expenses itemized deduction. Specifically, taxpayers under the age of 55 can deduct medical expenses in excess of 10% of AGI. Before, it was 7.5% of AGI.

In tax year 2014, key new healthcare coverage provisions of the ACA went into effect, including healthcare exchange cost subsidies provided to individual taxpayers through the Premium Tax Credit and the individual mandate requiring Americans pay a penalty if they lacked adequate health insurance.

In January 2017, Donald Trump was sworn in as the 45th president of the US, marking the transition from a Democrat to a Republican and the beginning of many policy changes. The effects of these policy changes are generally not seen in this MD&A as it includes only nine months under the new administration.

Subsequent event

At the time of the filing of this 10-K, the US is in the acceleration phase of a worldwide pandemic of a respiratory disease, COVID-19, which is spreading from person-to-person caused by a novel (new) coronavirus. Reported illnesses have ranged from very mild (including some with no reported symptoms) to severe, including illness resulting in death. At this time, there is no vaccine to protect against COVID-19 and no medications approved to treat it. As such, the Centers for Disease Control (CDC) expects that widespread transmission of COVID-19 in the US will occur; in the coming months, most of the US population will be exposed to this virus.

Widespread transmission of COVID-19 could translate into large numbers of people needing medical care at the same time. Schools, childcare centers, and workplaces may experience more absenteeism. Unemployment insurance claims reached more than 10 million for the two weeks preceding March 28, 2020, compared to 217,000 for the week of March 14, 2020. Mass gatherings may be sparsely attended or postponed. Public health and healthcare systems may become overloaded, with elevated rates of hospitalizations and deaths. Other critical infrastructure, such as law enforcement, emergency medical services, and sectors of the transportation industry may also be affected. Healthcare providers and hospitals may be overwhelmed. Our Government has issued directives intended to slow the spread of COVID-19 through the implementation of social distancing at all levels of society.

This pandemic, as well as our responses to it, may have a significant negative impact on the health and well-being of the US population, as well as on the US economy, at least in the short-term. Certain positive economic and other trends noted in management's discussion below will likely reverse. Aggregate individual and corporate income will likely decline, and our Government's primary source of revenue – taxes – will decline accordingly. Another significant source of revenue for our state and local governments, revenue from investments they make, may also be negatively impacted by stock and bond market volatility. In response to this crisis, our Government will need to spend more to help the population regain its health, to support those who are in need of assistance due to the economic impacts of the crisis, and to stimulate the economy once the serious public health risk abates. On March 27, 2020, the "Coronavirus Aid, Relief, and Economic Security Act" or the "CARES Act" was passed into law. This law authorizes more than \$2 trillion in Government spending and revenue reductions through tax cuts. See key aspects of this law outlined in *Item 1A. Risk Factors, The COVID-19 pandemic may hinder our Government's ability to achieve its constitutional objectives, at least in the short-term*.

Other factors affecting this discussion

For each revenue and expenditure table below, we include two rows at the bottom of the table which show the potential impact of inflation and US population growth on the revenues or expenditures analyzed. These inflation and population

figures are not meant to provide a precise measure of the impact of inflation and population growth on the respective revenues or expenditures, as such a measurement is not possible. Rather, we have provided these figures as possible benchmarks for how the revenues and expenditures might have been anticipated to change over time due to these factors. To calculate the inflation and population adjustment figures, we multiplied the prior period total revenues or total expenditures by the rates of inflation (using CPIU) and population growth for the respective periods.

Rates of inflation are shown in the *Key economic indicators* table above. During the periods discussed in this MD&A, our total population grew by:

- 2016 to 2017 2.0 million people or 1%, 1.1 million through births and deaths and 0.9 million through migration;
- 2012 to 2017 11.2 million people or 4%, 6.4 million through births and deaths and 4.8 million through migration; and
- 2007 to 2017 23.8 million people or 8%, 14.6 million through births and deaths, 8.7 million through migration, and 0.5 million not attributable.

Our population aged 65 years and older grew by:

- 2016 to 2017 1.6 million people or 3%;
- 2012 to 2017 7.7 million people or 18%; and
- 2007 to 2017 13.0 million people or 34%.

Summary results of operations

		2017			2016				Chan	ges		
(In billions, except percentages)	Total	St Federal	ate and Local	Total F	St ederal	ate and Local	Total Fe	St ederal	ate and Local	Total	Federal	State and Local
Revenues	\$ 5,597 \$	3,339 \$	2,258	\$ 5,097 \$	3,297 \$	1,800	\$ 500 \$	42 \$	458	10%	1%	25%
Expenditures	6,070	3,300	2,770	5,860	3,195	2,665	210	105	105	4%	3%	4%
Intergovernmental (expenditures) revenues ¹		(679)	679		(665)	665		(14)	14	— %	(2)%	2%
Net surplus (deficit)	\$ (473) \$	(640) \$	167	\$ (763) \$	(563) \$	(200)	\$ 290 \$	(77) \$	367	38%	(14)%	184%
Estimated impact of inflation on net surp	lus (deficit)						\$ (16) \$	(12) \$	(4)	2%	2%	2%
Estimated impact of population growth of	n net surplus (d	leficit)					(5)	(4)	(1)	1%	1%	1%

	2017		2012	Changes	
(In billions, except percentages)	S Total Federal	tate and Local	State and Total Federal Local	State and Total Federal Local Total	State and Federal Local
Revenues Expenditures Intergovernmental (expenditures)	\$ 5,597 \$ 3,339 \$ 6,070 3,300	2,258 2,770	\$ 4,089 \$ 2,487 \$ 1,602 5,315 2,982 2,333	\$ 1,508 \$ 852 \$ 656 37% 755 318 437 14%	
revenues ¹	<u> </u>	679	<u> </u>	<u> </u>	(24)% 24%
Net surplus (deficit) Estimated impact of inflation on net surplu Estimated impact of population growth or	, ,	167	\$ (1,226) \$ (1,044) \$ (182)	\$ 753 \$ 404 \$ 349 61% \$ (82) \$ (70) \$ (12) 7% (43) (37) (6) 4%	7% 7%

		2017		2007				Cha	nges		
(In billions, except percentages)	Total	St Federal	ate and Local	Total Federal	e and Local	Total	St Federal	ate and Local	Total	Federal	State and Local
Revenues Expenditures	\$ 5,597 S 6,070	\$ 3,339 \$ 3,300	2,258 2,770	\$ 4,481 \$ 2,601 4,273 2,309	1,880 1,964	\$ 1,116 \$ 1,797	738 \$ 991	378 806	25% 42%	28% 43%	20% 41%
Intergovernmental expenditures (revenues) ¹		(679)	679	- (444)	444		(235)	235	-%	(53)%	53%
Net surplus (deficit) Estimated impact of inflation on net surp Estimated impact of population growth o	. ,	, .	167	\$ 208 \$ (152)	\$ 360	\$ (681) \$ \$ 39 \$ 16	(/ +	(193) 68 28	(327)% 19% 8%	(321)% 19% 8%	(54)% 19% 8%

¹ See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



Our Government ran a net deficit in each of the years discussed in this MD&A and in all intervening years (between 2007 and 2017) except 2007.

The deficit peaked in 2009, when revenues declined 26% and spending increased 13% as compared to the prior year. The most significant revenue declines were losses incurred on investments at the state and local level as stock markets dropped worldwide, followed by decreased individual and corporate income tax revenues as the Great Recession hit the bottom lines of individuals and businesses. The expenditure increases reflected significant spending on banking, finance, and housing industry support and increases in general support programs, such as unemployment insurance, Social Security, Medicaid, and SNAP, expenditures intended to boost the economy and support the population in the interim. These dynamics illustrate how government finances can be significantly impacted by the health of the overall economy.

In the sections below, we discuss the material changes in our Government's results of operations during the periods presented.

Revenues³⁶

Fiscal year 2017 compared with fiscal year 2016

	_			2017					2016							Ch	ange	s ²		
(In billions, except percentages)		Total	Fe	ederal	te and Local ¹		Total	F	ederal	Sta	ate and Local ¹		Total	Fede		State ar Loca		Total	Federal	State and Local ¹
Individual income taxes	\$	1,971	\$	1,587	\$ 384	\$	1,922	\$	1,546	\$	376	\$	49	\$	41	\$	8	3%	3%	2%
Payroll taxes		1,180		1,180	_		1,133		1,133		_		47		47	-	_	4%	4%	—%
Sales and excise taxes		658		84	574		654		95		559		4	(11)		15	1%	(12)%	3%
Property taxes		526		_	526		503		_		503		23		_	2	23	5%	%	5%
Corporate income taxes		350		297	53		354		300		54		(4)		(3)	(1)	(1)%	(1)%	(2)%
Other taxes	_	189		67	122	l_	182		66		116	_	7		1		6	4%	2%	5%
Tax revenues	\$	4,874	\$	3,215	\$ 1,659	\$	4,748	\$	3,140	\$	1,608	\$	126	\$	75	\$!	51	3%	2%	3%
Earnings on investments	\$	458	\$	_	\$ 458	\$	54	\$	_	\$	54	\$	404	\$	— :	\$ 40)4	748%	%	748%
Federal Reserve earnings		82		82	_		116		116		_		(34)	(34)	-	_	(29)%	(29)%	—%
Sales of government resources		19		5	14		25		11		14		(6)		(6)	-	_	(24)%	(55)%	—%
Other non-tax revenues	_	164		37	127	l_	154		30		124	_	10		7		3	6%	23%	2%
Total non-tax revenues	\$	723	\$	124	\$ 599	\$	349	\$	157	\$	192	\$	374	\$ (33)	\$ 40	07	107%	(21)%	212%
Total revenues	\$	5,597	\$	3,339	\$ 2,258	\$	5,097	\$	3,297	\$	1,800	\$	500	\$	42	\$ 45	58	10%	1%	25%
Estimated impact of inflation on total reven	ues											\$	105	\$	68	\$ 3	37	2%	2%	2%
Estimated Impact of population growth on	total	revenue	es										32		21		11	1%	1%	1%

State and local revenue excludes transfers from the federal government. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

INTERACTIVE ANALYSIS

2016 to 2017 | Federal individual income tax revenue

The federal individual income tax revenue increase of \$41 billion can be attributed \$90 billion* to higher taxable income, offset in part by a decrease of \$49 billion* attributed to changes in in average tax rates.

Income changes*

The \$90 billion increase in revenue attributable to higher taxable income reflected a \$592 billion or 6% increase in aggregate AGI, offset in part by an \$88 billion or 3% increase in aggregate deductions and exemptions. Following are the income components of AGI shown by AGI group (cohort).

Key changes are highlighted in gray in the table above and are discussed in the sections below.

			20	17				20	16							Chang	jes				
(In billions, except percentages)	Wages and Salaries	pital	Partnership and S-Corp	All Other ¹	Total AGI	Wages and Salaries	pital	Partnership and S-Corp	All Other ¹	Total AGI	Wages and	Salaries	pital	Partnership and S-Corp	All Other ¹	Total AGI	Wages and Salaries	Capital Gains	Partnership and S-Corp	All Other ¹	Total AGI
Less than \$1	\$ 20 9	17 \$	(55)	\$ (206) \$	(224)	\$ 20	\$ 13 \$	(44)	\$ (191)	\$ (202)	\$	— \$	4 \$	(11) \$	(15) \$	(22)	—%	31%	(25)%	(8)% ((11)%
\$1-\$50K	1,594	10	8	353	1,965	1,590	8	7	357	1,962		4	2	1	(4)	3	—%	25%	14%	(1)%	-%
\$50,001-\$75K	991	11	10	264	1,276	960	9	10	259	1,238		31	2	_	5	38	3%	22%	%	2%	3%
\$75,001-\$100K	866	15	14	264	1,159	848	11	13	250	1,122		18	4	1	14	37	2%	36%	8%	6%	3%
\$100,001-\$200K	1,992	59	61	557	2,669	1,911	49	60	521	2,541		81	10	1	36	128	4%	20%	2%	7%	5%
\$200,001-\$500K	1,182	99	137	307	1,725	1,094	76	132	276	1,578		88	23	5	31	147	8%	30%	4%	11%	9%
\$500,001-\$1 million	371	73	124	92	660	342	56	118	83	599		29	17	6	9	61	8%	30%	5%	11%	10%
Over \$1 million	472	502	368	242	1,584	426	412	333	213	1,384		46	90	35	29	200	11%	22%	11%	14%	14%
Total	\$ 7,488 \$	786 \$	667	\$ 1,873 \$	10,814	\$ 7,191	\$ 634 \$	629	\$ 1,768	\$ 10,222	\$	297 \$	152 \$	38 \$	105 \$	592	4%	24%	6%	6%	6%

All Other includes interest, dividends, state income tax refunds, business or profession net income (loss), taxable individual retirement arrangements distributions, taxable pensions and annuities, taxable social security benefits, and other income(loss), less: self-employed SEP, self-employed health insurance, retirement account deductions, student loan interest deductions, tuition and fees deduction, domestic production activities deduction, and other deductions.

AGI by cohort

AGI increased for nearly all income cohorts, most significantly for the cohorts with AGI above \$100,000, a group which saw its aggregate AGI increase over \$536 billion or 9% for the year. The cohort with the largest dollar and rate increases in AGI is the one with AGI greater than \$1 million, at an increase of \$200 billion or 14%, driven primarily by higher net capital gains but with increases across all sources of income. The increases in AGI for these cohorts were offset in part by a \$22 billion or 11% decrease in AGI for the cohort where AGI is less than \$1.

AGI by income type

Roughly half of the overall \$592 billion increase in AGI was driven by higher wages and salaries, which increased \$297 billion or 4%. All cohorts with AGI of \$1 or more saw wage and salary growth. The largest dollar amount of growth, at an increase of \$88 billion or 8%, was for the cohort with AGI between \$200,001 and \$500,000. The highest rate of wage and salary growth, at 11% or \$46 billion, was for the cohort with AGI over \$1 million.

Net capital gains income increased \$152 billion or 24%, comprising 26% of the overall increase in AGI. All AGI cohorts saw increases in net capital gains income. The largest dollar amount of growth, at an aggregate increase of \$90 billion or 22%, was for the cohort with AGI over \$1 million. The highest rate of growth, at 36% or \$4 billion, was for the cohort with AGI between \$75,001 and \$100,000. The average daily closing price of the S&P 500 between these federal fiscal years (October 1 to September 30) increased 14%, which may have contributed to increases in capital gains.

Partnership and S-Corporation income increased \$38 billion or 6%, comprising 6% of the overall increase in AGI. Most of the increase was for the cohort with AGI over \$1 million, where Partnership and S-Corporation income increased \$35 billion or 11%. The highest rate of growth, at 14% or \$1 billion, was for the cohort with AGI between \$1 and \$50,000.

Income within the "All Other" category shown in the table above increased \$105 billion or 6%, comprising 18% of the overall increase in AGI. This increase was driven primarily by a \$70 billion or 6% increase in taxable retirement income, comprising taxable Individual Retirement Account (IRA), pension and annuity, and Social Security distributions, with pension and annuity income comprising 39% of the total change. The largest dollar amount of taxable retirement income growth, at an increase of \$33 billion or 9% was for the cohort with AGI between \$100,001 and \$200,000. The highest rate of taxable retirement income growth, at 18% or \$4 billion, was for the cohort with AGI between \$500,001 and \$1,000,000. During this period, the population of those aged 65 years and older, the cohort most likely to be taking retirement income distributions, increased 3%.

AGI mobility

(In thousands, except percentages)	2017	2016	Chan	ges
Less than \$1	2,045	2,086	(41)	(2)%
\$1-\$50K	88,857	89,501	(644)	(1)%
\$50,001-\$75K	20,775	20,163	612	3%
\$75,001-\$100K	13,375	12,937	438	3%
\$100,001-\$200K	19,678	18,777	901	5%
\$200,001-\$500K	6,057	5,544	513	9%
\$500,001-\$1 million	981	891	90	10%
Over \$1 million	477	428	49	11%
Total	152,245	150,327	1,918	1%

The number of income tax returns filed for the lowest income cohorts, those with AGI of \$50,000 or less, decreased by 685 thousand tax returns in aggregate, while the number of tax returns filed increased for all other AGI cohorts. The group with the highest increase in number of returns filed was the cohort with AGI between \$100,001 and \$200,000, at an increase of over 900 thousand returns, while the group with the highest percentage increase in the number of returns filed was the cohort with AGI over \$1 million, at an increase of 11%.

Deductions and exemptions

			2017			2016											Chan	ges				
(In billions, except percentages)	Itemized Deductions	Standard Deductions	Exemptions	Limitations ¹	Total Deductions / Exemptions		Itemized Deductions	Standard Deductions	Exemptions	Limitations ¹	Total Deductions / Exemptions		ᇎᇴ	Standard Deductions	Exemptions	Limitations ¹ Total	, , ,	Itemized Deductions	Standard Deductions	Exemptions	Limitations 1	Total Deductions / Exemptions
Less than \$1	\$ _	\$ — \$	12 \$	(236) \$	(224)	\$	— 9	5 — \$	13 \$	(215)	\$ (202)	\$	— \$	— \$	(1) \$	(21) \$	(22)	%	—%	(8)%	10%	11%
\$1-\$50K	159	634	572	(209)	1,156		158	637	582	(213)	1,164		1	(3)	(10)	4	(8)	1%	%	(2)%	(2)%	(1)%
\$50,001-\$75K	142	131	174	(2)	445		138	127	171	(3)	433		4	4	3	1	12	3%	3%	2%	(33)%	3%
\$75,001-\$100K	149	73	127	(3)	346		142	70	124	(1)	335		7	3	3	(2)	11	5%	4%	2%	200%	3%
\$100,001-\$200K	391	59	210	(2)	658		368	56	202	(2)	624		23	3	8	_	34	6%	5%	4%	%	5%
\$200,001-\$500K	249	5	58	(2)	310		226	4	53	(1)	282		23	1	5	(1)	28	10%	25%	9%	100%	10%
\$500,001-\$1 million	81	1	_	(1)	81		72	1	_	(1)	72		9	_	_	_	9	13%	%	—%	—%	13%
Over \$1 million	204	_	_	(1)	203		180	_	_	(1)	179		24	_	_	_	24	13%	%	—%	%	13%
Total	\$ 1,375	\$903 \$	1,153	(456) \$	2,975	\$	1,284	895 \$	1,145 \$	(437)	\$ 2,887	\$	91 \$	8 \$	8 \$	(19) \$	88	7%	1%	1%	4%	3%

¹ Limitations represents the effect of limiting taxable income to no less than zero. If the combination of deductions and exemptions exceeds AGI, the excess deductions and exemptions are disallowed.

The majority of the \$88 billion increase in deductions and exemptions in 2017 was for itemized deductions, which increased across all AGI cohorts, for a total increase of \$91 billion or 7% in aggregate. These increases were offset by limitations on deductions and exemptions, primarily for the cohort with AGI of less than \$1, as taxable income cannot be reduced below zero.

Tax rate changes

There were no significant statutory tax rate changes during this period. Therefore, the \$49 billion* decrease in income tax revenue attributed to changes in average tax rates is due primarily to proportionally less income in higher tax rate brackets.

2016 to 2017 | Payroll tax revenue

The \$47 billion increase in payroll tax revenue primarily reflected a \$41 billion or 5% increase in Social Security taxes, driven by a \$298 billion* or 4%* increase in earnings subject to the taxes. The Social Security tax rate (employee and employer combined) was 12.4% in each year.

2016 to 2017 | Property taxes

The \$23 billion or 5% growth in revenue from property taxes reflects a 6%** increase in the median home value. In addition, there were various changes in property tax rates in 2017. The aggregate unweighted average of the nominal residential property tax rate for the largest city in each state³⁷ was flat. However, among this group, the nominal residential property tax rate increased in the largest city in 19 states, with a maximum increase of 19% in Wilmington, DE, offset in part by decreases in 18 states, with a maximum decrease of 12% Jackson, MS. 38

2016 to 2017 | State and local earnings on investments³⁹

State and local earnings on investments (primarily funds held by retirement, workers' compensation, and other trusts) increased \$404 billion or 748% due to stock market performance combined with an 8% increase in investment balances. During these periods, these funds were invested primarily in US corporate stocks (approximately 1/3rd), foreign and international securities (approximately 1/5th), corporate bonds (approximately 1/10th), and US federal government securities (approximately 1/10th). Using state and local fiscal year (July 1 to June 30) starting and ending stock prices to calculate the annual changes, there was an 808% increase in the annual change in the S&P 500, while there were 180%, 309%, and 4,955% decreases in the annual changes in the NIKKEI, DAX, and FTSE, respectively. During the same period, the US Prime rate increased from 3.5% to 4.1%. Of the overall 8% increase in investment balances, the largest increases were in foreign and international securities (24% increase), miscellaneous investments (37%), and US Treasury securities (42%), offset in part by decreases in corporate bonds (17%), real property (33%), and corporate stocks (3%). Miscellaneous investments consist primarily of venture capital, partnerships, and real estate investment trusts (REITs).

Fiscal year 2017 compared with fiscal year 2012

			2017			2012				Chan	ges ²		
(In billions, except percentages)		Total	Federa	State and Local ¹	Total		State and Local ¹	Total	Federal	State and Local ¹	Total	Federal	State and Local ¹
Individual income taxes	\$	1,971	\$ 1,587	\$ 384	\$ 1,439	\$ 1,132 \$	307	\$ 532	\$ 455	\$ 77	37%	40%	25%
Payroll taxes		1,180	1,180	_	863	863	_	317	317		37%	37%	—%
Sales and excise taxes		658	84	574	557	79	478	101	5	96	18%	6%	20%
Property taxes		526	_	526	446	_	446	80	_	80	18%	-%	18%
Corporate income taxes		350	297	53	291	242	49	59	55	4	20%	23%	8%
Other taxes		189	67	122	170	54	116	19	13	6	11%	24%	5%
Tax revenues	\$	4,874	\$ 3,215	\$ 1,659	\$ 3,766	\$ 2,370 \$	1,396	\$ 1,108	\$ 845	\$ 263	29%	36%	19%
Earnings on investments	\$	458	\$ -	\$ 458	\$ 88	\$ - \$	88	\$ 370	\$ -	\$ 370	420%	%	420%
Federal Reserve earnings		82	82	_	82	82	_	_	_	_	-%	%	—%
Sales of government resources		19	5	14	34	20	14	(15)	(15)	_	(44)%	(75)%	—%
Other non-tax revenues		164	37	127	119	15	104	45	22	23	38%	147%	22%
Total non-tax revenues	\$	723	\$ 124	\$ 599	\$ 323	\$ 117 \$	206	\$ 400	\$ 7	\$ 393	124%	6%	191%
Total revenues	\$	5,597	\$ 3,339	\$ 2,258	\$ 4,089	\$ 2,487 \$	1,602	\$ 1,508	\$ 852	\$ 656	37%	34%	41%
Estimated impact of inflation on total rever	nues							\$ 275	\$ 167	\$ 108	7%	7%	7%
Estimated impact of population growth on	total	revenue	es					145	88	57	4%	4%	4%

State and local revenue excludes transfers from the federal government. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II. Item 8 within this annual report). INTERACTIVE ANALYSIS

2012 to 2017 | Federal individual income tax revenue

The federal individual income tax revenue increase of \$455 billion can be attributed \$241 billion* to higher taxable income and \$214 billion* to changes in average tax rates.

Key changes are highlighted in gray in the table above and are discussed in the sections below.

Income changes*

The \$241 billion increase in revenue attributed to higher taxable income reflected a \$1,895 billion or 21% increase in aggregate AGI, offset in part by a \$289 billion or 11% increase in aggregate deductions and exemptions. Following are the income components of AGI shown by AGI group (cohort).

			201	17				201	2						Chang	es				
(In billions, except percentages)	Wages and Salaries	pita	Partnership and S-Corp	All Other ¹	Total AGI	Wages and Salaries	Capital Gains	Partnership and S-Corp	All Other ¹	Total AGI	Wages and Salaries	Capital Gains	Partnership and S-Corp	All Other ¹	Total AGI	Wages and Salaries	Capital Gains	Partnership and S-Corp	All Other ¹	Total AGI
Less than \$1	\$ 20 \$	17\$	(55)	\$ (206) \$	(224)	\$ 21	\$ 14 \$	(43)	\$ (185) \$	\$ (193)	\$ (1) \$	3 \$	(12) \$	(21)	(31)	(5)%	21%	(28)%	(11)% ((16)%
\$1-\$50K	1,594	10	8	353	1,965	1,528	4	6	404	1,942	66	6	2	(51)	23	4%	150%	33%	(13)%	1%
\$50,001-\$75K	991	11	10	264	1,276	902	5	10	251	1,168	89	6	_	13	108	10%	120%	%	5%	9%
\$75,001-\$100K	866	15	14	264	1,159	797	7	11	228	1,043	69	8	3	36	116	9%	114%	27%	16%	11%
\$100,001-\$200K	1,992	59	61	557	2,669	1,580	28	52	409	2,069	412	31	9	148	600	26%	111%	17%	36%	29%
\$200,001-\$500K	1,182	99	137	307	1,725	793	51	106	210	1,160	389	48	31	97	565	49%	94%	29%	46%	49%
\$500,001-\$1 million	371	73	124	92	660	252	45	89	73	459	119	28	35	19	201	47%	62%	39%	26%	44%
Over \$1 million	472	502	368	242	1,584	367	405	277	222	1,271	105	97	91	20	313	29%	24%	33%	9%	25%
Total	\$ 7,488 \$	786 \$	667	\$ 1,873 \$	10,814	\$ 6,240	\$ 559 \$	508	\$ 1,612	\$ 8,919	\$ 1,248 \$	227 \$	159 \$	261	1,895	20%	41%	31%	16%	21%

All Other includes interest, dividends, state income tax refunds, business or profession net income (loss), taxable individual retirement arrangements distributions, taxable pensions and annuities, taxable social security benefits, and other income(loss), less: self-employed SEP, self-employed health insurance, retirement account deductions, student loan interest deductions, tuition and fees deduction, domestic production activities deduction, and other deductions.

AGI by cohort

AGI increased for nearly all income cohorts, most significantly for the cohorts with AGI above \$100,000, a group which saw its aggregate AGI increase over \$1,679 billion or 34%. The cohort with the largest dollar increase in AGI is the one with AGI between \$100,001 and \$200,000, at an increase of \$600 billion or 29%, driven primarily by higher wages and salaries but with increases across all sources of income. The cohort with the largest percentage increase in AGI is the one with AGI between \$200,001 and \$500,000, at an increase of 49% or \$565 billion, also driven primarily by higher wages and salaries but with increases across all sources of income. The increases in AGI for these cohorts were offset in part by a \$31 billion or 16% decrease in AGI for the cohort where AGI is less than \$1.

AGI by income type

Slightly less than 66% of the overall \$1,895 billion increase in AGI was driven by higher wages and salaries, which increased \$1,248 billion or 20%. All cohorts with AGI of \$1 or more saw wage and salary growth. The largest dollar amount of growth, at an increase of \$412 billion or 26%, was for the cohort with AGI between \$100,001 and \$200,000. The highest rate of wage and salary growth, at 49% or \$389 billion, was for the cohort with AGI between \$200,001 and \$500,000.

Net capital gains income increased \$227 billion or 41%, comprising 12% of the overall increase in AGI. All AGI cohorts saw increases in net capital gains income. The largest dollar amount of growth, at an increase of \$97 billion or 24%, was for the cohort with AGI over \$1 million. The highest rate of growth, at 150% or \$6 billion, was for the cohort with AGI between \$1 and \$50,000. The average daily closing price of the S&P 500 between these federal fiscal years (October 1 to September 30) increased 76%, which may have contributed to increases in capital gains.

Partnership and S-Corporation income increased \$159 billion or 31%, comprising 8% of the overall increase in AGI. Most of the increase was for the cohorts with AGI of \$200,001 and greater, where Partnership and S-Corporation income increased an aggregate of \$157 billion or 33%. The highest rate of growth, at 39% or \$35 billion, was for the cohort with AGI between \$501,000 and \$1 million.

Income within the "All Other" category shown in the table above increased \$261 billion or 16%, comprising 14% of the overall increase in AGI. This increase was driven primarily by a \$253 billion or 24% increase in taxable retirement income, with pension and annuity income comprising 46% of the total change. The largest dollar amount of growth, at an increase

of \$133 billion or 46%, was for the cohort with AGI between \$100,001 and \$200,000. The highest rate of taxable retirement income growth, at 71% or \$68 billion, was for the cohort with AGI between \$200,001 and \$500,000. During this period, the population of those aged 65 years and older, the cohort most likely to be taking retirement income distributions, increased 18%.

AGI mobility

(In thousands, except percentages)	2017	2012	Chang	jes
Less than \$1	2,045	2,208	(163)	(7)%
\$1-\$50K	88,857	91,257	(2,400)	(3)%
\$50,001-\$75K	20,775	18,976	1,799	9%
\$75,001-\$100K	13,375	12,060	1,315	11%
\$100,001-\$200K	19,678	15,424	4,254	28%
\$200,001-\$500K	6,057	4,066	1,911	49%
\$500,001-\$1 million	981	678	303	45%
Over \$1 million	477	370	107	29%
Total	152,245	145,039	7,206	5%

The number of income tax returns filed for the lowest income cohorts, those with AGI of \$50,000 or less, decreased by more than 2.5 million tax returns in aggregate, while the number of tax returns filed increased for all other AGI cohorts. The group with the highest increase in number of returns filed was the cohort with AGI between \$100,001 and \$200,000, at an increase of over 4.25 million returns, while the group with the highest percentage increase in the number of returns filed was the cohort with AGI between \$200,001 and \$500,000, at an increase of 49%.

Deductions and exemptions

			2017					2012							Cha	nges				
(In billions, except percentages)	Itemized Deductions	Standard Deductions	Exemptions	Limitations ¹	Total Deductions / Exemptions	Itemized Deductions	Standard Deductions	Exemptions	Limitations ¹	Total Deductions / Exemptions	Itemized Deductions	Standard Deductions	Exemptions	Limitations ¹ Total	Deductions / Exemptions	Itemized Deductions	Standard Deductions	Exemptions	Limitations 1	otal Deductions / Exemptions
Less than \$1	\$ — :	\$ — \$	12 \$	(236) \$	(224)	\$ 1 \$	\$ — \$	14 \$	(208) \$	\$ (193)	\$ (1) \$	— \$	(2) \$	(28) \$	(31)	(100)%	-%	(14)%	13%	16%
\$1-\$50K	159	634	572	(209)	1,156	186	604	583	(211)	1,162	(27)	30	(11)	2	(6)	(15)%	5%	(2)%	(1)%	(1)%
\$50,001-\$75K	142	131	174	(2)	445	157	102	159	(3)	415	(15)	29	15	1	30	(10)%	28%	9%	(33)%	7%
\$75,001-\$100K	149	73	127	(3)	346	157	50	114	(2)	319	(8)	23	13	(1)	27	(5)%	46%	11%	50%	8%
\$100,001-\$200K	391	59	210	(2)	658	334	32	161	_	527	57	27	49	(2)	131	17%	84%	30%	nm	25%
\$200,001-\$500K	249	5	58	(2)	310	178	2	44	_	224	71	3	14	(2)	86	40%	150%	32%	nm	38%
\$500,001-\$1 million	81	1	_	(1)	81	61	_	8	(1)	68	20	1	(8)	_	13	33%	—%	(100)%	—%	19%
Over \$1 million	204		_	(1)	203	160	_	4		164	44	_	(4)	(1)	39	28%	—%	(100)%	nm	24%
Total	\$ 1,375	\$ 903 \$	1,153 \$	(456)	2,975	\$ 1,234 \$	\$ 790 \$	1,087 \$	(425)	\$ 2,686	\$ 141 \$	113 \$	66 \$	(31) \$	289	11%	14%	5%	7%	11%

¹ Limitations represents the effect of limiting taxable income to no less than zero. If the combination of deductions and exemptions exceeds AGI, the excess deductions and exemptions are disallowed.

The majority of the \$289 billion increase in deductions and exemptions during this period was for itemized and standard deductions, which increased \$141 billion or 11% and \$113 billion or 14%, respectively. Increases in standardized deductions were seen across nearly all AGI cohorts. With respect to itemized deductions, those in cohorts with AGI of \$100,000 or less experienced decreased itemized deductions, while also seeing increases in their standardized deductions, indicating a switch for some from itemizing deductions to instead taking the standard deduction. Whereas cohorts with AGI of \$100,001 or greater experienced increases in both itemized and standardized deductions.

^{nm} An "nm" reference in the table means the figure is not meaningful.

Tax rate changes

There were several key statutory individual income tax rate changes during this period, among them:

- the mid-fiscal year 2013 expiration of several tax cuts as part of the American Taxpayer Relief Act of 2012, which primarily affected high-income taxpayers, including:
 - increasing the top federal individual income tax bracket rate from 35% to 39.6%;
 - increasing the second highest federal individual income tax bracket rate from 33% to 35%;
 - increasing the top federal individual income tax rates on both capital gains and qualified dividends from 15% to 20%;
 - increasing the federal estate tax rate from 35% to 40%; and
 - phasing out certain itemized deductions and personal exemptions; and
- new income taxes effective mid-fiscal year 2013 as part of the Affordable Care Act, including:
 - a new 3.8% Unearned Income Medicare Contribution tax that applies to high-income tax returns;
 - tighter restrictions on what qualifies as an expenditure under Health Savings Accounts and Flexible Savings Accounts; and
 - an increase in the AGI threshold for the medical expenditures itemized deduction from 7.5% of AGI to 10% of AGI for taxpayers under 55.

2012 to 2017 | Payroll tax revenue

The \$317 billion increase in payroll tax revenue was driven primarily by a \$283 billion or 48% increase in Social Security tax revenues. These increased tax revenues reflect a \$131 billion* increase attributable to higher taxable income, driven by a \$1,263 billion* or 22%* increase in earnings subject to Social Security taxes.

The remaining \$152 billion* increase in Social Security tax revenues is attributable to higher tax rates in 2017, reflecting a temporary reduction of 2 percentage points in the employee share of Social Security tax rate for calendar years 2011 and 2012, which expired prior to 2017. The overall Social Security tax rate (employee and employer combined) was 12.4% in fiscal year 2017 and 10.4% in fiscal year 2012.

2012 to 2017 | State and local sales and excise taxes

The \$96 billion growth in revenue from state and local sales and excise taxes reflects a \$73 billion or 23% increase in general sales tax revenues and a \$23 billion or 14% increase in selective sales tax revenues.

General sales tax revenues

General sales tax revenues increased due to increased consumption of taxable goods and services, and a net increase in unweighted state-level general sales tax rates. Household consumption of most categories of taxable goods and services increased during the period, led by recreation and entertainment (26% increase), food and non-alcoholic beverages away from home (30%), and car principal payments and down payments (44%). State-level general sales tax rates increased in seven states by between 0.2 and 1.0 percentage points, while there were decreases in three states of between 0.13 and 1.0 percentage points.³⁷ During the periods presented, local governments also both increased and decreased their sales tax rates.

Selective sales tax revenues

Selective sales tax revenues increased across nearly every major category, led by a 12% increase in tax revenues from motor fuels and a 25% increase in tax revenues from insurance premiums, offset in part by a 5% decrease in tax revenues from public utilities. The increases in selective sales tax revenues are due to changes in both consumption of the selected goods and services and the related tax rates. Unit consumption of motor fuel/oil increased 7%⁴⁰, spending on insurance premiums increased 26%⁴¹, and spending on household utilities and fuels increased 8%. The unweighted average of gas tax rates across all states increased 22% during this period.³⁷ We are not aware of an aggregated source of data for state and local government tax rates on insurance premiums or household utilities and fuels.

2012 to 2017 | State and local earnings on investments³⁹

State and local earnings on investments increased \$370 billion or 420% due to stock market performance as well as a 33% increase in investment balances. During these periods, these funds were invested primarily in US corporate stocks (approximately 1/3rd), foreign and international securities (approximately 1/5th), corporate bonds (approximately 1/10th), and US federal government securities (approximately 1/10th). Using state and local fiscal year (July 1 to June 30) starting and ending stock prices to calculate the annual changes, there was a 682% increase in the S&P 500, while there were 316%, 376%, and 558% decreases in the FTSE, DAX, and NIKKEI, respectively. During the same period, the US Prime rate increased from 3.3% to 4.1%. The largest investment balance increases were in foreign and international securities (60% increase), other nongovernmental securities (535%), corporate stocks (18%), and miscellaneous investments (32%).

Fiscal year 2017 compared with fiscal year 2007

				2017				2007							Chang	es ²		
	Ī				State and	ı			State and	ı				Stat	e and		S	State and
(In billions, except percentages)		Total	F	ederal	Local	1	Total	Federal	Local	1	Total	Fe	deral	L	ocal ¹	Total	Federal	Local ¹
Individual income taxes	\$	1,971	\$	1,587	\$ 384	1	\$ 1,454	\$ 1,163	\$ 291	\$	517	\$	424	\$	93	36%	36%	32%
Payroll taxes		1,180		1,180	_	-	882	882	_	-	298		298		_	34%	34%	—%
Sales and excise taxes		658		84	574	1	506	65	441		152		19		133	30%	29%	30%
Property taxes		526		_	526	5	389	_	389)	137		_		137	35%	—%	35%
Corporate income taxes		350		297	53	3	431	370	61		(81)		(73)		(8)	(19)%	(20)%	(13)%
Other taxes		189		67	122	2	169	60	109) _	20		7		13	12%	12%	12%
Tax revenues	\$	4,874	\$	3,215	\$ 1,659	9	\$ 3,831	\$ 2,540	\$ 1,291	9	1,043	\$	675	\$	368	27%	27%	29%
Earnings on investments	\$	458	\$	_	\$ 458	3	\$ 478	\$ —	\$ 478	3 4	(20)	\$	_	\$	(20)	(4)%	—%	(4)%
Federal Reserve earnings		82		82	_	-	32	32	_	-	50		50		_	156%	156%	—%
Sales of government resources		19		5	14	1	34	20	14	ı l	(15)		(15)		_	(44)%	(75)%	%
Other non-tax revenues		164		37	127	7	106	9	97	<u> </u>	58		28		30	55%	311%	31%
Total non-tax revenues	\$	723	\$	124	\$ 599	9	\$ 650	\$ 61	\$ 589	9	73	\$	63	\$	10	11%	103%	2%
Total revenues	\$	5,597	\$	3,339	\$ 2,258	3	\$ 4,481	\$ 2,601	\$ 1,880) \$	1,116	\$	738	\$	378	25%	28%	20%
Estimated impact of inflation on to	tal r	evenues								1	842	\$	489	\$	353	19%	19%	19%
Estimated impact of population grow	th o	n total re	ven	ues							353		205		148	8%	8%	8%

State and local revenue excludes transfers from the federal government. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



2007 to 2017 | Federal individual income tax revenue

The \$424 billion federal individual income tax revenue increase can be attributed \$313 billion* to higher individual taxable income and \$111 billion* to changes in average tax rates.

Income changes*

The \$313 billion increase in revenue attributable to higher taxable income reflected a \$2,291 billion or 27% increase in aggregate AGI, offset in part by a \$395 billion or 15% increase in aggregate deductions and exemptions. Following are the income components of AGI shown by AGI cohort.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

			2017					2007							Chang	jes				
(In billions, except percentages)	Wages and Salaries	Capital Gains	Partnership and S-Corp	All Other 1	Total AGI	Wages and Salaries	Capital Gains	Partnership and S-Corp	All Other 1	Total AGI	Wages and Salaries	apital	Partnership and S-Corp	All Other 1	Total AGI	Wages and Salaries	Capital Gains	Partnership and S-Corp	All Other 1	Total AGI
Less than \$1	\$ 20 \$	17 9	(55) \$	(206)	(224)	\$ 17	\$ 14	\$ (46) \$	(91) \$	(106)	\$ 3\$	3 \$	(9) \$	(115) \$	\$ (118)	18%	21%	(20)%	(126)% ('	111)%
\$1-\$50K	1,594	10	8	353	1,965	1,567	15	4	348	1,934	27	(5)	4	5	31	2%	(33)%	100%	1%	2%
\$50,001-\$75K	991	11	10	264	1,276	933	16	8	229	1,186	58	(5)	2	35	90	6%	(31)%	25%	15%	8%
\$75,001-\$100K	866	15	14	264	1,159	776	19	11	195	1,001	90	(4)	3	69	158	12%	(21)%	27%	35%	16%
\$100,001-\$200K	1,992	59	61	557	2,669	1,300	68	42	336	1,746	692	(9)	19	221	923	53%	(13)%	45%	66%	53%
\$200,001-\$500K	1,182	99	137	307	1,725	594	101	89	193	977	588	(2)	48	114	748	99%	(2)%	54%	59%	77%
\$500,001-\$1 million	371	73	124	92	660	207	80	74	70	431	164	(7)	50	22	229	79%	(9)%	68%	31%	53%
Over \$1 million	472	502	368	242	1,584	355	552	235	212	1,354	117	(50)	133	30	230	33%	(9)%	57%	14%	17%
Total	\$ 7,488 \$	786 9	667 \$	1,873	10,814	\$ 5,749	\$ 865	\$ 417 \$	1,492 \$	8,523	\$ 1,739 \$	(79) \$	250 \$	381	\$ 2,291	30%	(9)%	60%	26%	27%

See prior federal AGI tables for the definition of All Other.

AGI by cohort

AGI increased for nearly all income cohorts, most significantly for the cohorts with AGI above \$100,000, a group which saw its aggregate AGI increase over \$2,130 billion or 47%. The cohort with the largest dollar increase in AGI is the one with AGI between \$100,001 and \$200,000, at an increase of \$923 billion or 53%, driven primarily by higher wages and salaries but with increases across all sources of income. The cohort with the largest percentage increase in AGI is the one with AGI between \$200,001 and \$500,000, at an increase of 77% or \$748 billion, driven primarily by higher wages and salaries but with increases across all sources of income. The increases in AGI for these cohorts were offset in part by a \$118 billion or 111% decrease in AGI for the cohort where AGI is less than \$1.

AGI by income type

Over three quarters of the \$2,291 billion increase in AGI was driven by higher wages and salaries, which increased \$1,739 billion or 30%. All AGI cohorts saw wage and salary growth. The largest dollar amount of wage and salary growth, at an increase of \$692 billion or 53%, was for the cohort with AGI between \$100,001 and \$200,000. The highest rate of growth, at 99% or \$588 billion, was for the cohort with AGI between \$200,001 and \$500,000.

Partnership and S-Corporation income increased \$250 billion or 60%, comprising 11% of the overall increase in AGI. More than 90% of the increase was for the top three cohorts, where AGI is above \$200,000, a group which saw an aggregate increase in Partnership and S-Corporation income of \$231 billion or 58%. The highest rate of growth, at 100% or \$4 billion, was for the cohort with AGI between \$1 and \$50,000.

Net capital gains income, comprising 3% of the overall change in AGI, decreased \$79 billion or 9%. All but one AGI cohort saw a decrease in net capital gains income. The largest dollar amount of decline, at \$50 billion or 9%, was for the cohort with AGI over \$1 million. The highest rate of decline, at 33% or \$5 billion, was for the cohort with AGI between \$1 and \$50,000. These decreases occurred despite the average daily closing price of the S&P 500 increasing 62% between these federal fiscal years (October 1 to September 30).

Income within the "All Other" category shown in the table above increased \$381 billion or 26%, comprising 17% of the overall increase in AGI. This increase was driven primarily by a \$519 billion or 66% increase in taxable retirement income, as well as a \$43 billion or 18% increase in taxable ordinary dividend income, offset in part by a \$161 billion or 60% decrease in taxable interest income. By income type and cohort:

• The largest dollar amount of growth in taxable retirement income, at an increase of \$226 billion or 117%, was for the cohort with AGI between \$100,001 and \$200,000. The highest rate of taxable retirement income growth, at 160% or \$101 billion, was for the cohort with AGI between \$200,001 and \$500,000.

- The group with the largest dollar and highest rate of growth in taxable ordinary dividend income, at an aggregate increase of \$43 billion or 30%, was the cohorts with AGI greater than \$200,000.
- The group that saw the greatest amount of taxable interest income decline, at an aggregate \$54 billion or 45%, was the cohorts with AGI greater than \$200,00. The highest rate of interest income decline, at a decrease of 78% or \$20 billion, was for the cohort with AGI between \$50,001 and \$75,000.

During this period, the population of those aged 65 years and older, the cohort most likely to be taking retirement income distributions, increased 34%.

AGI mobility

(In thousands, except percentages)	2017	2007	Chang	ges
Less than \$1	2,045	2,099	(54)	(3)%
\$1-\$50K	88,857	91,307	(2,447)	(3)%
\$50,001-\$75K	20,775	19,302	1,473	8%
\$75,001-\$100K	13,375	11,593	1,782	15%
\$100,001-\$200K	19,678	13,116	6,562	50%
\$200,001-\$500K	6,057	3,400	2,657	78%
\$500,001-\$1 million	981	636	345	54%
Over \$1 million	477	383	94	25%
Total	152,245	141,833	10,412	7%

The number of income tax returns filed for the lowest income cohorts, those with AGI of \$50,000 or less, decreased by more than 2.5 million tax returns in aggregate, while the number of tax returns filed increased for all other AGI cohorts. The group with the highest increase in number of returns filed was the cohort with AGI between \$100,001 and \$200,000, at an increase of nearly 6.6 million returns, while the group with the highest percentage increase in the number of returns filed was the cohort with AGI between \$200,001 and \$500,000, at an increase of 78%.

Deductions and exemptions

			2017					2007							Char	iges				
(In billions, except percentages)	Itemized Deductions	Standard Deductions	Exemptions	Limitations ¹	Total Deductions / Exemptions	ltemized Deductions	Standard Deductions	Exemptions	Limitations ¹	Total Deductions / Exemptions	Itemized Deductions	Standard Deductions	Exemptions		lotal Deductions / Exemptions	Itemized Deductions	Standard Deductions	Exemptions	Limitations 1	Total Deductions / Exemptions
Less than \$1	\$ — :	\$ —\$	12 \$	(236)	(224)	\$ —	\$ — \$	9 \$	(115)	\$ (106)	\$ — \$	— \$	3 \$	(121) \$	(118)	%	—%	33%	105%	111%
\$1-\$50K	159	634	572	(209)	1,156	240	514	513	(177)	1,090	(81)	120	59	(32)	66	(34)%	23%	12%	18%	6%
\$50,001-\$75K	142	131	174	(2)	445	201	78	153	(3)	429	(59)	53	21	1	16	(29)%	68%	14%	(33)%	4%
\$75,001-\$100K	149	73	127	(3)	346	183	32	104	(2)	317	(34)	41	23	(1)	29	(19)%	128%	22%	50%	9%
\$100,001-\$200K	391	59	210	(2)	658	324	17	124	_	465	67	42	86	(2)	193	21%	247%	69%	nm	42%
\$200,001-\$500K	249	5	58	(2)	310	155	2	24	(2)	179	94	3	34	_	131	61%	150%	142%	—%	73%
\$500,001-\$1 million	81	1	_	(1)	81	54	_	2	_	56	27	1	(2)	(1)	25	50%	%	(100)%	nm	45%
Over \$1 million	204	_		(1)	203	150		1	(1)	150	54		(1)		53	36%	%	(100)%	—%	35%
Total	\$ 1,375	\$ 903 \$	1,153 \$	(456)	2,975	\$ 1,307	\$ 643 \$	930 \$	(300)	\$ 2,580	\$ 68 \$	260 \$	223 \$	(156) \$	395	5%	40%	24%	52%	15%

¹ Limitations represents the effect of limiting taxable income to no less than zero. If the combination of deductions and exemptions exceeds AGI, the excess deductions and exemptions are disallowed.

The majority of the \$395 billion increase in deductions and exemptions during this period was for standard deductions and exemptions, which increased \$260 billion or 40% and \$223 billion or 24%, respectively. Increases in standardized deductions and exemptions were seen across nearly all AGI cohorts. With respect to increased standard deductions, those in cohorts with AGI of \$100,000 or less experienced similar decreases in their itemized deductions, indicating a switch for some from itemizing deductions to instead taking the standard deduction. Whereas cohorts with AGI of \$100,001 or greater experienced increases in both itemized and standardized deductions.

^{nm} An "nm" reference in the table means the figure is not meaningful.

Tax rate changes

Key changes in statutory federal individual income tax rates during this period were the same as those discussed above under *Fiscal year 2017 compared with fiscal year 2012*.

2007 to 2017 | Payroll tax revenue

The \$298 billion increase in payroll tax revenue primarily reflected a \$221 billion or 34% increase in Social Security tax revenues, as well as a \$72 billion or 38% increase in Medicare tax revenues.

Social Security payroll tax revenues

The \$221 billion increase in Social Security tax revenues primarily reflects a \$213 billion* increase attributable to higher taxable income, driven by a \$1,702 billion* or 33%* increase in earnings subject to Social Security taxes. The overall Social Security tax rate (employee and employer combined) was 12.4% in each year.

Medicare payroll tax revenues

The \$72 billion increase in Medicare tax revenues primarily reflects a \$59 billion* increase attributable to higher taxable income, driven by a \$2,031 billion* or 31%* increase in earnings subject to Medicare taxes. The remaining \$13 billion increase is attributable to changes in tax rates.

The overall base Medicare tax rate (employee and employer combined) was 2.9% in each year. Beginning in calendar year 2013, however, individuals paid an additional 0.9% (on top of the base 2.9%) Medicare tax on their wages, compensation, or self-employment income exceeding \$200,000 for single filers (\$250,000 for married filing jointly, \$125,000 for married filing separately).

2007 to 2017 | Property taxes

The \$137 billion or 35% growth in revenue from property taxes reflects a 5%** increase in the median home value. In addition, property tax rates increased on average, including growth of 19% in the aggregate unweighted average of the nominal residential property tax rate for the largest city in each state. Among this group, the nominal residential property tax rate increased in the largest city in 36 states, with a maximum increase of 94% in Manchester, NH, offset in part by decreases in 11 states, with a maximum decrease of 38% in Fargo, ND.³⁷

2007 to 2017 | Federal Reserve earnings

The \$50 billion or 156% increase in revenue from Federal Reserve earnings reflects growth in income of the Federal Reserve itself, the majority of which is remitted to the Treasury by law. The Federal Reserve's income grew as it purchased more securities (including Treasury securities and federal agency and government-sponsored enterprise mortgage-backed securities) and it earned returns on those securities.

Note that the interest payments made by the federal government to the Federal Reserve and the earnings received by the federal government from the Federal Reserve can be seen as offsetting each other, in part. This is because these are largely the same dollars; the federal government pays interest on its debt securities held by the Federal Reserve, the Federal Reserve receives those dollars, and then the Federal Reserve remits most of those dollars back to the federal government. We report the inflows in non-tax revenues and the outflows in net interest paid because the Federal Reserve is a separate legal entity from the federal government.

2007 to 2017 | Federal other non-tax revenues

The \$28 billion or 311% increase in federal other non-tax revenues primarily relates to a \$12 billion or 683% increase in fines, penalties, and forfeitures within the Department of the Treasury, including those related to customs, commerce, and antitrust violations, and a \$10 billion or 4,744% increase in revenues related to the ACA's Transitional Reinsurance Program

and the Risk Adjustment Program within the Department of Health and Human Services. The ACA's Transitional Reinsurance Program redistributes funds from healthcare plans with lower-risk medical health insurance enrollees to plans with higher-risk enrollees to protect against adverse selection and risk selection by spreading financial risk across the health insurance market. The ACA's Risk Adjustment Program provides payments to insurers of plans that enroll higher-cost individuals, thereby protecting against premium increases in the individual market by offsetting the expenses of high-cost individuals.

Expenditures by function⁴²

We review expenditures in this MD&A in two ways, by function and by reporting segment. This section discusses expenditures by function.

Fiscal year 2017 compared with fiscal year 2016

			201	7				20	16						Change	es ²		
(In billions, except percentages)		Total	Federa	ı l 1	Sta	te and Local	Total	Fede	ral ¹	Sta	ate and Local	Total	Federal ¹	Sta	ate and Local	Total	Federal ¹	State and Local
Transfer payments to individuals and subsidies	\$	2,933	\$ 2,2	02	\$	731	\$ 2,812	\$ 2	,119	\$	693	\$ 121	\$ 83	\$	38	4%	4%	5%
Personnel and compensation		1,623	5	74		1,049	1,574		564		1,010	49	10		39	3%	2%	4%
Payments to others for goods and																		
services		677	1	20		557	690		152		538	(13)	(32)		19	(2)%	(21)%	4%
Capital expenditures		534	1	72		362	497		146		351	37	26		11	7%	18%	3%
Net interest paid		333	2	62		71	313		240		73	20	22		(2)	6%	9%	(3)%
Other		(30)	(:	30)		_	(26)		(26)		_	(4)	(4)		_	15%	15%	—%
Total expenditures	\$	6,070	\$ 3,3	00	\$	2,770	\$ 5,860	\$ 3	,195	\$	2,665	\$ 210	\$ 105	\$	105	4%	3%	4%
Estimated impact of inflation on total	ехре	enditures	5									\$ 121	\$ 66	\$	55	2%	2%	2%
Estimated impact of population growt	th or	n total ex	pendit	ıres	5							37	20		17	1%	1%	1%

¹ Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

INTERACTIVE ANALYSIS

2016 to 2017 | Federal transfer payments to individuals and subsidies

The \$83 billion increase in federal transfer payments to individuals and subsidies reflects both increases and decreases among major government programs. The most significant changes are discussed below.

Social Security (Old Age, Survivor, and Disability Insurance, or OASDI)

Social Security payments increased \$29 billion or 4%, driven by:

- a 1.0 million person or 2% increase in the number of OASDI recipients, including an increase of 1.2 million recipients or 2% for Old Age and Survivor Insurance (OASI), offset in part by a decrease of 0.2 million recipients or 2% for Disability Insurance (DI); and
- a 3% increase in the average monthly benefit payment, including increases of \$36 or 3% for OASI and \$23 or 2% for DI. OASDI benefit payments are indexed for inflation.

The average OASI and DI recipient ages remained 71 and 48, respectively, during these periods, while the population aged 65 years and older, the cohort we track that is most likely to be receiving OASI benefits, increased 2%.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

Other transfer payments to individuals and subsidies

Other transfer payments to individuals and subsidies increased \$52 billion or 35%, primarily driven by a \$43 billion or 94% increase in federal education expenditures. This federal education expenditures increase was driven primarily by \$24 billion, or 1,193%, higher Federal Direct Student Loan Program (FDSL) expenditures and \$10 billion, or 671%, higher Federal Family Education Loans (FFEL) expenditures.

The \$24 billion increase in FDSL expenditures includes a \$35 billion or 352% increase in FDSL program costs, offset in part by an \$11 billion or 139% increase in FDSL program credits that reflected accounting for changes in actual and anticipated future program performance. During this period there was a 0.6 million person or 4% decrease in the number of FDSL recipients, while there was a 1% increase in the average dollar amount of loans disbursed. Also during this period, average undergraduate tuition and required fees increased 1%.

Since July 1, 2010, the FFEL program has not originated any new loans. However, existing loans continue to be serviced by lenders and guaranty agencies. The \$10 billion increase in FFEL expenditures during this period is therefore attributed exclusively to the reestimates of costs related to direct loan subsidies, loan guarantee subsidies, and the interest on each of these. See Exhibit 99.03 for a discussion of the accounting for government loans.

2016 to 2017 | State and local transfer payments to individuals and subsidies

The \$38 billion growth in state and local transfer payments to individuals and subsidies was driven primarily by a \$31 billion or 6% increase in Medicaid and CHIP payments. This increase reflects:

- 1.4 million or 2% growth in person-year equivalent enrollment, driven primarily by a 1.0 million or 9% increase in enrollees newly eligible for Medicaid through the Affordable Care Act, as well as a 0.2 million or 1% increase in adult enrollees; and
- a \$58 or 1% increase in annual per enrollee spending, driven by a \$294 or 1% increase in per enrollee spending for the disabled, the most expensive group served, offset in part by a \$152 or 3% decrease in per enrollee spending for expansion adults, as costs specific to this group were lower than the States anticipated.⁴³

The majority of the growth in Medicaid benefit expenditures was in the form of capitation payments, which are payments made to Medicaid healthcare providers at a set amount for each enrolled person assigned to them during the period, based on average expected healthcare utilization for that enrollee, regardless of whether the enrollee seeks care.

2016 to 2017 | State and local personnel and compensation

The \$39 billion increase in state and local personnel and compensation payments reflects growth of \$26 billion or 4% in compensation for current employees and \$13 billion or 4% in compensation for former employees.

Current employees

The 4% increase in compensation for current employees was driven by a 5%** or \$1.99** per hour increase in compensation (excluding pension), including 5%** growth in wages and salaries and 5%** growth in health insurance benefits. In addition, there was a net 1%** increase in the number of state and local government full-time equivalent employees, including a 1%** increase in full-time equivalent non-education employees during this period.

Compensation for current employees is reported net of current employee contributions to their own pensions. We count the employer portion of pension contributions as expenditures when paid out to the former employees and therefore include them in compensation for former employees below. Pension contributions made by current employees to their own pensions grew 7% during this period. Contributions made by state and local government employers on behalf of their employees grew 11% during this period, primarily related to defined benefit plans, which made up 93% of total employer pension contributions in 2017 and increased 12% during the period.

Former employees

The 4% increase in compensation for former employees was driven by a 3% increase in the number of retirees receiving periodic benefits and a 1% increase in the average benefit payment per recipient. The increase in number of retirees receiving benefits may be driven in part by our aging population; our population aged 65 years and older grew by 3% during this period.

Fiscal year 2017 compared with fiscal year 2012

			2017					2	2012						Chang	es ²		
(In billions, except percentages)		Total	Federal ¹	Sta	ate and Local		Total	Fed	deral ¹	St	tate and Local	Total	Federal ¹	St	ate and Local	Total	Federal ¹	State and Local
Transfer payments to individuals and subsidies	\$	2,933	\$ 2,202	\$	731	\$	2,344	\$	1,813	\$	531	\$ 589	\$ 389	\$	200	25%	21%	38%
Personnel and compensation		1,623	574		1,049		1,432		533		899	191	41		150	13%	8%	17%
Payments to others for goods and																		
services		677	120		557		767		269		498	(90)	(149)		59	(12)%	(55)%	12%
Capital expenditures		534	172		362		514		183		331	20	(11)		31	4%	(6)%	9%
Net interest paid		333	262		71		295		221		74	38	41		(3)	13%	19%	(4)%
Other		(30)	(30)		_	_	(37)		(37)	_		7	7			(19)%	(19)%	—%
Total expenditures	\$	6,070	\$ 3,300	\$	2,770	\$	5,315	\$	2,982	\$	2,333	\$ 755	\$ 318	\$	437	14%	11%	19%
Estimated impact of inflation on total	expe	nditures	5									\$ 358	\$ 201	\$	157	7%	7%	7%
Estimated impact of population growt	th on	total ex	penditures	S								189	106		83	4%	4%	4%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



2012 to 2017 | Federal transfer payments to individuals and subsidies

The \$389 billion increase in federal transfer payments to individuals and subsidies reflects increases across all major programs except unemployment insurance and SNAP. The most significant changes are discussed below.

Social Security

Social Security payments increased \$171 billion or 22%, driven by:

- a 5.1 million person or 9% increase in the number of OASDI recipients, including increases of 5.5 million recipients or 12% for OASI, offset in part by a decrease of 0.4 million recipients or 4% for DI; and
- a 10% increase in the average monthly benefit payment, including increases of \$138 or 12% for OASI and \$78 or 8% for DI.

The average OASI recipient age remained 71 during these periods, while the average DI recipient age increased 4%, from 46 to 48 years old in 2017. The population aged 65 years and older, the cohort we track that is most likely to be receiving OASI benefits, increased 18%.

Medicare

Medicare payments (net of premiums received) increased \$152 billion or 28%, driven by a 7.8 million* person or 15%* increase in Medicare enrollees and a 7%* increase in average costs per beneficiary (net of premiums received). Medicare premiums received increased \$24 billion or 38% during this period.

Our population aged 65 years and older (one eligibility requirement for Medicare) grew by 18% during this period. General medical care cost inflation was 15%, with prices of medical commodities⁴⁴ inflating 13%, medical services inflating 16%, and hospitals inflating 24%.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

2012 to 2017 | State and local transfer payments to individuals and subsidies

The \$200 billion growth in state and local transfer payments to individuals and subsidies was driven primarily by a \$173 billion or 44% increase in Medicaid and CHIP payments. This increase reflects:

- 15.8 million or 27% growth in person-year equivalent enrollment, including growth of 0.8 million adults (5% growth), 0.6 million disabled enrollees (6% growth), and 12.2 million enrollees newly eligible for Medicaid through the Affordable Care Act; and
- a \$774 or 11% increase in annual per enrollee spending, driven by a \$2,224 or 12% increase in per enrollee spending for the disabled, the most expensive group served, offset in part by a \$466 or 3% decrease in per enrollee spending for the aged, the second most expensive group served.⁴³

The majority of the growth in Medicaid benefit expenditures was in the form of capitation payments.

2012 to 2017 | State and local personnel and compensation

The \$150 billion increase in state and local personnel and compensation payments comprised growth of \$84 billion or 13% in compensation for current employees and \$66 billion or 26% in compensation for former employees.

Current employees

The 13% increase in compensation for current employees was driven by a 13%** or \$4.72** per hour increase in compensation (excluding pension), including 12%** growth in wages and salaries and 16%** growth in health insurance benefits. In addition, there was a net 2%** increase in the number of state and local government full-time equivalent employees, including a 3%** increase in full-time equivalent education employees during this period.

Pension contributions made by current employees to their own pensions grew 25% during this period. Contributions made by state and local government employers on behalf of their employees grew 53% during this period, primarily related to defined benefit plans, which made up 93% of total employer pension contributions in 2017 and increased 56% during the period.

Former employees

The 26% increase in compensation for former employees was driven by an 18% increase in the number of retirees receiving periodic benefits and an 11% increase in the average benefit payment per recipient. The increase in number of retirees receiving benefits may be driven in part by our aging population; our population aged 65 years and older grew by 18% during this period.

2012 to 2017 | Federal payments to others for goods and services

The \$149 billion decrease in federal payments to others for goods and services was driven in large part by a \$58 billion or 14% decrease in Department of Defense (DOD) military operations and maintenance and procurement expenditures, a \$21 billion or 100% decrease in costs associated with the TARP, a \$21 billion or 280% decrease in costs associated with the federal government taking conservatorship over Fannie Mae and Freddie Mac during the financial crisis, and a \$13 billion or 286% decrease in Federal Deposit Insurance Corporation (FDIC) deposit and debt guarantee costs. More information on these costs can be found in the respective *Fiscal year 2017 compared with fiscal year 2012* discussions under *Expenditures by Segment* below and:

- DOD within Common Defense, National defense; and
- TARP and FDIC within General Welfare, Federal economy and infrastructure expenditures.

Fiscal year 2017 compared with fiscal year 2007

		2017				20	007						Change	es ²		
(In billions, except percentages)	Total	Federal ¹		e and Local	Total	Fede	eral ¹	St	ate and Local	Total	Federal ¹	Sta	ate and Local	Total	Federal ¹	State and Local
Transfer payments to individuals and subsidies Personnel and compensation	\$ 2,933 1,623	\$ 2,202 574	\$	731 1,049	\$ 1,709 1,229	\$ 1	1,293 451	\$	416 778	\$ 1,224 394	\$ 909 123	\$	315 271	72% 32%	70% 27%	76% 35%
Payments to others for goods and services	677	120		557	627		197		430	50	(77)		127	8%	(39)%	30%
Capital expenditures	534	172		362	465		139		326	69	33		36	15%	24%	11%
Net interest paid Other	333 (30)	(30)		71 —	251 (8)		237 (8)		14 —	82 (22)	(22)		57 —	33% 275%	11% 275%	407% —%
Total expenditures	\$ 6,070	,	\$	2,770	\$ 4,273	\$ 2	2,309	\$	1,964	\$ 1,797			806	42%	43%	41%
Estimated impact of inflation on total Estimated impact of population grow			S							\$ 803 337	\$ 434 182	\$	369 155	19% 8%	19% 8%	19% 8%

¹ Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



2007 to 2017 | Federal transfer payments to individuals and subsidies

The \$909 billion increase in federal transfer payments to individuals and subsidies reflects increases across all major programs. The most significant changes are discussed below.

Social Security

Social Security payments increased \$358 billion or 62%, driven by:

- an 11.8 million person or 24% increase in the number of OASDI recipients, including increases of 10.2 million recipients or 25% for OASI and 1.6 million recipients or 18% for DI; and
- a 28% increase in the average monthly benefit payment, including increases of \$317 or 32% for OASI and \$200 or 23% for DI.

The average OASI recipient age remained 71 during these periods, while the average DI recipient age increased 7% from 45 to 48 in 2017. The population aged 65 years and older, the cohort we track that is most likely to be receiving OASI benefits, increased 34%.

Medicare

Medicare payments (net of premiums received) increased \$263 billion or 62%, reflecting a 14.0 million* person or 32%* increase in Medicare enrollees combined with a 24%* increase in average cost per beneficiary (net of premiums received). Medicare premiums received increased \$39 billion or 77% during this period.

Our population aged 65 years and older (one eligibility requirement for Medicare) grew by 34% during this period. General medical care cost inflation was 36%, with prices of medical commodities inflating 30%, medical services inflating 39%, and hospitals inflating 68%.

Other

Other transfer payments to individuals and subsidies increased \$124 billion or 160%, driven primarily by a \$61 billion or 222% increase in federal education expenditures and a \$35 billion or 100% increase in federal refundable premium tax credits made available through the ACA (paid to families and individuals to assist them in purchasing health insurance).

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

The 222% increase in federal education expenditures was driven primarily by a \$21 billion or 468% increase in FDSL expenditures and a \$14 billion or 91% increase in Pell grant expenditures.

The \$21 billion increase in FDSL expenditures includes a \$39 billion or 729% increase in direct loan program costs, offset in part by a \$18 billion or 1,814% increase in FDSL program credits that reflected accounting for changes in actual and anticipated future program performance. During this period, there was a 12 million person or 485% increase in the number of FDSL recipients, while there was a 59% increase in the average dollar amount of loans disbursed.

The \$14 billion increase in Pell grant expenditures reflects a 39% increase in the number of Pell grant recipients and a 51% or \$1,256 increase in the average grant per recipient, driven primarily by the ARRA.

During this period, average undergraduate tuition and required fees increased 51%.

2007 to 2017 | State and local transfer payments to individuals and subsidies

The \$315 billion growth in state and local transfer payments to individuals and subsidies was driven primarily by a \$270 billion or 91% increase in Medicaid and CHIP payments. This increase reflects:

- 27.4 million or 59% growth in person-year equivalent enrollment, including growth of 5.9 million children (26% growth), 5.3 million adults (52% growth), and 12.2 million enrollees newly eligible for Medicaid through the Affordable Care Act; and
- a \$948 or 14% increase in annual per enrollee spending, driven by a \$3,459, or 21% increase in per enrollee spending for the disabled, the most expensive group served, offset in part by a \$355 or 2% decrease in per enrollee spending for the aged, the second most expensive group served.⁴³

The majority of the growth in Medicaid benefit expenditures was in the form of capitation payments.

2007 to 2017 | State and local personnel and compensation

The \$271 billion increase in state and local personnel and compensation payments comprised growth of \$138 billion or 23% in compensation for current employees and \$133 billion or 72% in compensation for former employees.

Current employees

The 23% increase in compensation for current employees was driven by a 19%** or \$6.66** per hour increase in compensation (excluding pension), including 16%** growth in wages and salaries and 33%** growth in health insurance benefits. In addition, there was a net 1%** increase in the number of state and local government full-time equivalent employees, including a 3%** increase in full-time equivalent education employees during this period, offset in part by a 1%** decrease in full-time equivalent non-education employees.

Pension contributions made by current employees to their own pensions grew 32% during this period. Contributions made by state and local government employers on behalf of their employees grew 90% during this period, primarily related to defined benefit plans, which made up 93% of total employer pension contributions in 2017 and increased 97% during the period.

Former employees

The 72% increase in compensation for former employees was driven by a 42% increase in the number of retirees receiving periodic benefits and a 28% increase in the average benefit payment per recipient. The increase in number of retirees receiving benefits may be driven in part by our aging population; our population aged 65 years and older grew by 34% during this period.

Expenditures by segment⁴²

			2017					2016							Chang	es		
(In billions, except percentages)	Т	otal	Federal ¹		State and Local		Total	Federal ¹	S	itate and Local		Total	Federal ¹	St	ate and Local	Total	Federal ¹	State and Local
Justice and Domestic Tranquility	\$	448	\$ 55	\$	393	\$	425	\$ 48	\$	377	\$	23	\$ 7	\$	16	5%	15%	4%
Common Defense		835	834		1		828	827		1		7	7		_	1%	1%	—%
General Welfare	1,	408	440		968		1,358	442		916		50	(2)		52	4%	-%	6%
Blessings of Liberty	3,	236	1,980		1,256		3,104	1,885		1,219		132	95		37	4%	5%	3%
General government support and other		143	(9)		152	_	145	(7)		152	_	(2)	(2)		_	(1)%	(29)%	—%
Total expenditures	\$ 6	070	\$ 3,300	\$	2,770	\$	5,860	\$ 3,195	\$	2,665	\$	210	\$ 105	\$	105	4%	3%	4%
Estimated impact of inflation on total ex	pend	liture	5								\$	121	\$ 66	\$	55	2%	2%	2%
Estimated impact of population growth	on to	tal ex	penditure	es								37	20		17	1%	1%	1%

		2017				2012						Chang	jes		
(In billions, except percentages)	Total	Federal ¹	Stat	e and Local	Total	Federal ¹	9	State and Local	Total	Federal ¹	St	ate and Local	Total	Federal ¹	State and Local
Justice and Domestic Tranquility	\$ 448	\$ 55	\$	393	\$ 382	\$ 45	\$	337	\$ 66	\$ 10	\$	56	17%	22%	17%
Common Defense	835	834		1	854	853		1	(19)	(19)		_	(2)%	(2)%	—%
General Welfare	1,408	440		968	1,275	519		756	133	(79)		212	10%	(15)%	28%
Blessings of Liberty	3,236	1,980		1,256	2,666	1,578		1,088	570	402		168	21%	25%	15%
General government support and other	143	(9)		152	138	(13)		151	5	4		1	4%	(31)%	1%
Total expenditures	\$ 6,070	\$ 3,300	\$	2,770	\$ 5,315	\$ 2,982	\$	2,333	\$ 755	\$ 318	\$	437	14%	11%	19%
Estimated impact of inflation on total ex	penditure	es							\$ 358	\$ 201	\$	157	7%	7%	7%
Estimated impact of population growth	on total e	xpenditure	s						189	106		83	4%	4%	4%

			2	017					20	07						Chang	jes		
(In billions, except percentages)		Total	Fed	eral ¹	Sta	ate and Local		Total	Fede	ral ¹	St	ate and Local	Total	Federal ¹	St	ate and Local	Total	Federal ¹	State and Local
Justice and Domestic Tranquility	\$	448	\$	55	\$	393	\$	347	\$	41	\$	306	\$ 101	\$ 14	\$	87	29%	34%	28%
Common Defense		835		834		1		662		661		1	173	173		_	26%	26%	—%
General Welfare		1,408		440		968		898		286		612	510	154		356	57 %	54%	58%
Blessings of Liberty		3,236		1,980		1,256		2,212	1,	,316		896	1,024	664		360	46%	50%	40%
General government support and other		143		(9)		152	_	154		5		149	(11)	(14)	_	3	(7)%	(280)%	2%
Total expenditures	\$	6,070	\$	3,300	\$	2,770	\$	4,273	\$ 2,	,309	\$	1,964	\$ 1,797	\$ 991	\$	806	42%	43%	41%
Estimated impact of inflation on total ex	pei	nditure	S										\$ 803	\$ 434	\$	369	19%	19%	19%
Estimated impact of population growth	on	total ex	penc	ditures									337	182		155	8%	8%	8%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this Annual Report).

Justice and Domestic Tranquility (JDT)

This segment's expenditures comprise a small portion (7%) of the overall Government budget. The majority (slightly more than 65%) of this segment's expenditures comprises state and local government crime and disaster expenditures, of which more than 65% are law enforcement and corrections expenditures. See Exhibit 99.05 for more information on the largest items in each of this segment's expenditure categories.

Fiscal year 2017 compared with fiscal year 2016

			2017				2016						Chang	es ²		
(In billions, except percentages)		Total	Federal ¹	State and Local		Total	Federal ¹	State and Local		Total	Federal ¹		State and Local	Total	Federal ¹	State and Local
Crime and disaster Child safety and miscellaneous social	\$	338 \$	46 \$	292	\$	321 \$	40	\$ 281	\$	17 \$	6	\$	11	5%	15%	4%
services		87	1	86		82	1	81		5	_		5	6%	—%	6%
Safeguarding consumers and employees		23	8	15	L	22	7	15	L	1	1	_		5%	14%	—%
Total Justice and Domestic Tranquility As a percentage of total expenditures	\$	448 \$ 7%	55 s 2%	393 14%	\$	425 \$ 7%	48 2%	\$ 377 14%	\$	23 \$	7	\$	16	5%	15%	4%
Estimated impact of inflation on segment e	хр	enditur	es						\$	9 \$	1	\$	8	2%	2%	2%
Estimated impact of population growth on	seç	gment (expenditures	5						2	_		2	1%	1%	1%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



Federal crime and disaster

The \$6 billion increase in federal crime and disaster expenditures was driven primarily by a \$2 billion or 32% increase in disaster relief expenditures and a \$2 billion increase in national flood insurance reserve expenditures, both within the Department of Homeland Security. The number of billion-dollar weather and climate disaster incidents increased by 1 or 7% during this period.⁴⁵

State and local crime and disaster

The \$11 billion increase in state and local crime and disaster expenditures was driven primarily by a \$6 billion or 3% increase in law enforcement and corrections costs and a \$3 billion or 6% increase in fire protection costs.

The \$6 billion increase in law enforcement and corrections costs was driven mainly by a \$6 billion or 5% increase in police protection operations costs. Annualized gross payroll costs (including wages and healthcare costs, excluding pension benefits) for state and local police protection employees grew \$2 billion or 4% during this period, while the number of state and local police protection employees increased 1%. During this period, the violent crime rate remained flat, while the property crime rate decreased 3%, and arrests for violent crimes increased 1%, while arrests for property crimes decreased 8%.

The \$3 billion increase in fire protection costs reflects a \$1 billion or 4% increase in annualized gross payroll costs for state and local fire protection employees, while the number of state and local fire protection employees increased 1%. Overall non-natural disaster fire incidents decreased 2% during this period, however, "other structure" fires increased 15%.

Fiscal year 2017 compared with fiscal year 2012

			2017			2012					Change	s ²		
(In billions, except percentages)		Total	Federal ¹	State and Local	Total	Federal ¹	State and Local	Total	Federal ¹	9	State and Local	Total	Federal ¹	State and Local
Crime and disaster Child safety and miscellaneous social	\$	338 \$	46 \$	292	\$ 293 \$	39	\$ 254	\$ 45 \$	7	\$	38	15%	18%	15%
services		87	1	86	70	1	69	17	_		17	24%	—%	25%
Safeguarding consumers and employees		23	8	15	19	5	14	4	3		1	21%	60%	7%
Total Justice and Domestic Tranquility As a percentage of total expenditures	\$	448 \$ 7%	55 \$ 2%	393 14%	\$ 382 9 7%	45 2%	\$ 337 14%	\$ 66 \$	10	\$	56	17%	22%	17%
Estimated impact of inflation on segment e	хр	enditur	es					\$ 26 \$	3	\$	23	7%	7%	7%
Estimated impact of population growth on	se	gment e	expenditures					14	2		12	4%	4%	4%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



² Key changes are highlighted in gray in the table above and are discussed in the sections below.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

State and local crime and disaster

The \$38 billion increase in state and local crime and disaster expenditures was driven primarily by a \$24 billion or 14% increase in law enforcement and corrections costs, reflecting an \$18 billion or 19% increase in law enforcement expenditures and a \$6 billion or 8% increase in corrections expenditures. In addition, fire protection costs increased \$8 billion or 19%.

The \$18 billion increase in law enforcement expenditures was driven mainly by an \$18 billion or 19% increase in police protection operations costs. Annualized gross payroll costs (including wages and healthcare costs, excluding pension benefits) for state and local police protection employees grew \$8 billion or 14% during this period, while the number of state and local police protection employees remained flat. The violent crime rate and the property crime rate for the period decreased 1% and 17%, respectively, while arrests for violent and property crimes decreased 1% and 22%, respectively.

The \$6 billion increase in corrections expenditures comprised mainly a \$7 billion or 12% increase in correctional operations costs. Annualized gross payroll costs for state and local corrections employees grew \$5 billion or 15% during this period, while the number of correctional employees remained flat. Comparing these years, there was a 4% decrease in the number of people incarcerated in state prisons, while the number of people incarcerated in local jails remained flat.

The \$8 billion increase in fire protection costs reflects an increase of \$4 billion or 15% in annualized gross payroll costs for state and local fire protection employees, while the number of state and local fire protection employees increased 3%. Overall non-natural disaster fire incidents decreased 4% during this period, however, "other structure" fires increased 22%.

State and local child safety and miscellaneous social services

The \$17 billion increase in state and local child safety and miscellaneous social services expenditures was due to a \$17 billion or 26% increase in the costs of public welfare operations.

Fiscal year 2017 compared with fiscal year 2007

			2017					2007					Cha	nges	2		
(In billions, except percentages)		Total	Federal ¹	9	State and Local	T	otal	Federal ¹	State and Local	l	Total	Federal ¹	State a Lo		otal	Federal ¹	State and Local
Crime and disaster Child safety and miscellaneous social	\$	338 \$	46	\$	292	\$	264 \$	37 \$	227	\$	74 \$	9	\$	65 2	28%	24%	29%
services		87	1		86		65	_	65		22	1		21	34%	nm	32%
Safeguarding consumers and employees		23	8		15		18	4	14		5	4		1 2	28%	100%	7%
Total Justice and Domestic Tranquility As a percentage of total expenditures	\$	448 \$ 7%	55 2%		393 14%	\$	347 \$ 8%	41 \$ 2%	306 16%	\$	101 \$	14	\$	87 2	29%	34%	28%
Estimated impact of inflation on segment ex	per	nditures	;							\$	66 \$	8	\$	58	19%	19%	19%
Estimated impact of population growth on	seg	ment ex	xpenditure	S							27	3		24	8%	8%	8%

^{nm} An "nm" reference in the table means the figures is not meaningful.



State and local crime and disaster

The \$65 billion increase in state and local crime and disaster expenditures was driven primarily by a \$42 billion or 27% increase in costs of law enforcement and corrections, reflecting a \$31 billion or 37% increase in law enforcement expenditures and an \$11 billion or 16% increase in corrections expenditures. In addition, fire protection costs increased \$14 billion or 37%.

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

The \$31 billion increase in law enforcement expenditures was driven mainly by a \$31 billion or 38% increase in police protection operations costs. Annualized gross payroll costs (including wages and healthcare costs, excluding pension benefits) for state and local police protection employees grew \$15 billion or 28% during this period, while the number of state and local police protection employees decreased 1%. During this period, property and violent crime rates decreased 28% and 19%, respectively, while arrests for property and violent crimes decreased 20% and 14%, respectively.

The \$11 billion increase in corrections expenditures comprised mainly a \$12 billion or 23% increase in correctional operations costs. Annualized gross payroll costs for state and local corrections employees grew \$7 billion or 20% during this period, while the number of correctional employees decreased 3%. Comparing these years, there was a 4% and 6% decrease in the number of people incarcerated in local jails and state prisons, respectively.

The \$14 billion increase in fire protection costs reflects an increase of \$7 billion or 32% in annualized gross payroll costs for state and local fire protection employees, while the number of state and local fire protection employees increased 5%. Overall non-natural disaster fire incidents decreased 15% during this period, however, "other structure" fires increased 8%.

State and local child safety and miscellaneous social services

The \$21 billion increase in state and local child safety and miscellaneous social services expenditures was due to a \$21 billion or 32% increase in the costs of public welfare operations.

Common Defense

This segment's expenditures comprise 14% of the overall Government budget. Slightly more than 70% of this segment's expenditures are costs of national defense, while most of the rest (slightly more than 20%) comprise costs of support for veterans. See Exhibit 99.05 for more information on the largest items in each of this segment's expenditure categories.

Fiscal year 2017 compared with fiscal year 2016

			2017					2016								Chan	iges ²		
(In billions, except percentages)	Total	Fed	deral ¹	Stat	te and Local	Total	Fe	deral ¹	St	ate and Local	Te	otal	Fe	ederal ¹	St	ate and Local	Total	Federal ¹	State and Local
National defense	\$ 599	\$	599	\$	_	\$ 594	\$	594	\$	_	\$	5	\$	5	\$	_	1%	1%	—%
Support for veterans	175		174		1	174		173		1		1		1		_	1%	1%	—%
Foreign affairs and foreign aid	46		46		_	45		45		_		1		1		_	2%	2%	—%
Immigration and border security	15		15			15		15			_	_					— %	—%	—%
Total Common Defense	\$ 835	\$	834	\$	1	\$ 828	\$	827	\$	1	\$	7	\$	7	\$	_	1%	1%	%
As a percentage of total expenditures	14%		14%		%	14%		14%		—%									
Estimated impact of inflation on segment e	xpendit	ıres									\$	17	\$	17	\$	_	2%	2%	2%
Estimated impact of population growth on	segmen	t exp	enditur	es								5		5		_	1%	1%	1%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report). INTERACTIVE ANALYSIS

National defense

The \$5 billion increase in national defense expenditures reflects:

- a \$3 billion or 7% increase in research and development expenditures, mostly for the Air Force;
- a \$2 billion or 1% increase in operations and maintenance expenditures, mostly for the Air Force, which fund the training, supply, and equipment maintenance of military units as well as the infrastructure of military bases;
- a \$1 billion or 1% increase in military procurement expenditures, mostly for the Air Force and primarily for the procurement of items other than aircraft, missiles, ammunition, weapons, or tracked combat vehicles, and for space related items; and

Key changes are highlighted in gray in the table above and are discussed in the sections below.

- a \$1 billion or 14% increase in defense-related environmental cleanup expenditures; offset in part by
- a \$3 billion or 4% decline in military personnel expenditures, mostly for the Army and primarily salaries and wages.

Comparing these years, the number of active duty military personnel and civilian military personnel remained flat, while there were increases of 3% and 1% in the number of DOD structures and buildings, respectively.

Federal support for veterans

The \$1 billion increase in federal support for veterans expenditures was driven primarily by a \$3 billion or 4% increase in veterans medical care costs, partially offset by a decrease of \$1 billion or 7% in veterans readjustment benefits and a \$1 billion or 168% decrease in veterans housing expenditures. During this period there was a 2% decline in the number of veterans.

The 4% increase in veterans medical care costs was driven primarily by a \$2 billion or 4% increase in medical services expenditures, and a \$2 billion or 92% increase in Veteran's Choice expenditures, which are expenditures for improving veterans' access to healthcare by allowing eligible veterans who meet certain wait-time or distance standards to use eligible healthcare providers outside the US Department of Veterans Affairs (VA) system. The \$2 billion increase in veterans medical services expenditures was driven primarily by a \$6 billion increase in veterans community care expenditures, which provides hospital care and medical services to eligible veterans from community providers that are not provided through the Veterans Choice Program, offset in part by a \$4 billion decrease in medical services costs due to a reduction in other contract services expenditures. There was a 1% increase in the number of patients who received care at a Veterans Health Administration facility in 2017, while medical care inflation was 3%.

Fiscal year 2017 compared with fiscal year 2012

		2017			2012							Cha	nges ²		
(In billions, except percentages)	Total	Federal ¹	State an		Federal ¹	State a		,	Total	F	ederal ¹	State and Local	Total	Federal ¹	State and Local
National defense	\$ 599	\$ 599	\$	_ \$ 678	\$ 678	\$	_	\$	(79)	\$	(79)	\$ -	(12)%	(12)%	—%
Support for veterans	175	174		1 124	123		1		51		51	_	41%	41%	-%
Foreign affairs and foreign aid	46	46		_ 37	37		_		9		9	_	24%	24%	-%
Immigration and border security	15	15		_ 15	15		-		_		_	_	%	—%	—%
Total Common Defense As a percentage of total expenditures	\$ 835 14%	\$ 834 14%		1 \$ 854 % 16%		•	1 –%	\$	(19)	\$	(19)	\$ -	(2)%	(2)%	—%
Estimated impact of inflation on segment of Estimated impact of population growth on	•		ures					\$	57 30		57 30	\$	7% 4%	7% 4%	7% 4%

¹ Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



National defense

The \$79 billion decrease in national defense expenditures reflects:

- a \$33 billion or 24% decrease in operation and maintenance expenditures, mostly for the Army, Marine Corps, and Air Force;
- a \$19 billion or 40% decline in military procurement expenditures, mostly for the Army and for the procurement of items other than aircraft, missiles, ammunition, weapons, or tracked combat vehicles;
- a \$7 billion or 7% decrease in military personnel expenditures, mostly for the Army and primarily salaries and wages; and
- a \$6 billion or 48% reduction in military construction expenditures, mostly for the Army.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

Comparing these years, there were decreases of 7% and 4% in the number of active duty military personnel and civilian military personnel, respectively, as well as decreases of 8% and 4% in the number of DOD structures and buildings, respectively.

Federal support for veterans

The \$51 billion increase in federal support for veterans expenditures was driven primarily by a \$30 billion or 54% increase in pension and disability benefits expenditures and a \$19 billion or 38% increase in veterans medical care costs, despite a 14% decline in the number of veterans.

The 54% increase in pension and disability benefits expenditures was driven primarily by a \$29 billion or 60% increase in veteran compensation payments. This increase primarily reflects a 1 million or 29% increase in the number of disability compensation recipients, and a \$2,831 or 23% increase in the average annual disability compensation payment. There was also a 45 thousand or 12% increase in the number of surviving beneficiary compensation recipients, and an \$828 or 6% increase in the average annual surviving beneficiary compensation payment. The overall increase in compensation payments reflects changes in underlying veteran demographics; there was a 65% increase in veteran/beneficiary claimants who served in the Gulf War Era, partially offset by a 59% decrease in veteran/beneficiary claimants who served in World War II.

The 38% increase in veterans medical care costs was driven primarily by a \$14 billion or 35% increase in medical services expenditures and a \$5 billion or 100% increase in Veteran's Choice expenditures. The \$14 billion increase in veterans medical services expenditures was driven primarily by:

- an \$8 billion increase in medical services costs, due to \$5 billion or 33% higher personnel compensation expenditures and a \$3 billion or 36% increase in medical supplies expenditures; and
- a \$6 billion increase in veterans community care expenditures.

There was a 9% increase in the number of patients who received care at a Veterans Health Administration facility during this period, while medical care inflation was 15%.

Fiscal year 2017 compared with fiscal year 2007

			2017					2007							Chan	iges ²		
(In billions, except percentages)	Total	Fed	deral ¹	Sta	ate and Local	Total	Fed	deral ¹	St	ate and Local	Total	F	ederal ¹	Sta	ate and Local	Total	Federal ¹	State and Local
National defense	\$ 599	\$	599	\$	_	\$ 552	\$	552	\$	_	\$ 47	\$	47	\$	_	9%	9%	—%
Support for veterans	175		174		1	73		72		1	102		102		_	140%	142%	—%
Foreign affairs and foreign aid	46		46		_	28		28		_	18		18		_	64%	64%	—%
Immigration and border security	15		15			9		9			6	_	6			67%	67%	—%
Total Common Defense	\$ 835	\$	834	\$	1	\$ 662	\$	661	\$	1	\$ 173	\$	173	\$	_	26%	26%	-%
As a percentage of total expenditures	14%		14%		—%	15%		11%		—%								
Estimated impact of inflation on segment e	expendit	ures									\$ 124	\$	124	\$	_	19%	19%	19%
Estimated impact of population growth on	segmen	t exp	enditu	res							52		52		_	8%	8%	8%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



 $^{^{2}}$ Key changes are highlighted in gray in the table above and are discussed in the sections below.

National defense

The \$47 billion increase in national defense expenditures reflects:

- a \$32 billion or 114% increase in defense-wide, Navy, and Air Force operation and maintenance expenditures, offset in part by a \$15 billion or 23% decrease in operation and maintenance expenditures for the Army;
- a \$17 billion or 13% increase in military personnel expenditures across all military branches; and
- a \$10 billion or 46% increase in costs of the Defense Health Program, which provides medical and dental services to active forces and other eligible beneficiaries worldwide, across all military branches, while medical care inflation was 36%.

Comparing these years, there was a 5% decrease in the number of active duty military personnel and a 9% increase in the number of civilian military personnel, as well as a decrease of 12% in the number of DOD buildings and a 2% increase in the number of DOD structures.

Federal support for veterans

The \$102 billion increase in federal support for veterans expenditures was driven primarily by a \$50 billion or 141% increase in pension and disability benefits expenditures and a \$37 billion or 116% increase in veterans medical care costs, despite a 21% decline in the number of veterans.

The 141% increase in pension and disability benefits expenditures was driven by a \$49 billion or 157% increase in veteran compensation payments. This increase primarily reflects a 2 million or 60% increase in the number of disability compensation recipients, and a \$5,540 or 56% increase in the average annual disability compensation payment. There was also an 82 thousand or 25% increase in the number of surviving beneficiary compensation recipients, and a \$2,249 or 17% increase in the average annual surviving beneficiary compensation payment. The overall increase in compensation payments reflects changes in underlying veteran demographics; there was a 178% increase in veteran/beneficiary claimants who served in the Gulf War Era, partially offset by a 77% decrease in veteran/beneficiary claimants who served in World War II.

The 116% increase in veterans medical care costs was driven primarily by a \$31 billion or 104% increase in medical services expenditures, reflecting:

- a \$25 billion increase in medical services costs due primarily to \$12 billion or 94% higher personnel compensation expenditures, a \$5 billion or 137% increase in civilian personnel benefits costs, and a \$5 billion or 75% increase in medical supplies expenses; and
- a \$6 billion increase in veterans community care expenditures.

There was a 16% increase in the number of patients who received care at a Veterans Health Administration facility between 2007 and 2017, while medical care inflation was 36%.

General Welfare (GW)

This segment's expenditures comprise approximately a quarter of the overall Government budget. Expenditures for standard of living and aid to the disadvantaged comprise just over 70% of this segment's expenditures. Over 65% of the expenditures for standard of living and aid to the disadvantaged are for state and local medical assistance to the poor, including Medicaid and CHIP. See Exhibit 99.05 for more information on the largest items in each of this segment's expenditure categories.

Fiscal year 2017 compared with fiscal year 2016

			2017					2016						Chan	iges ²		
(In billions, except percentages)	Total	Fed	deral ¹	Sta	ate and Local	Tot	al Fed	deral ¹	Sta	ate and Local	Total	Federal ¹	St	ate and Local	Total	Federal ¹	State and Local
Economy and infrastructure Standard of living and aid to the	\$ 261	\$	62	\$	199	\$ 24	43 \$	59	\$	184	\$ 18	\$ 3	\$	15	7%	5%	8%
disadvantaged Health (excluding Medicaid and	986		329		657	96	52	337		625	24	(8)		32	2%	(2)%	5%
Medicare)	161		49		112	15	53	46		107	8	3	_	5	5%	7%	5%
Total General Welfare As a percentage of total expenditures	\$1,408 23%	\$	440 7%	\$	968 16%	\$ 1,35 23		442 7%	\$	916 15%	\$ 50	\$ (2)	\$	52	4%	%	6%
Estimated impact of inflation on segme	nt expen	ditur	es								\$ 28	\$ 9	\$	19	2%	2%	2%
Estimated impact of population growth	on segn	ent (expend	litur	es						9	3		6	1%	1%	1%

¹ Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

INTERACTIVE ANALYSIS

INTERACTIVE ANALYSIS

State and local economy and infrastructure expenditures

State and local economy and infrastructure expenditures increased \$15 billion, primarily due to a \$5 billion or 9% increase in railroad-related costs, a \$4 billion or 2% increase in general highway transportation costs, and a \$3 billion or 397% increase in other general commerce costs, primarily relating to publicly-owned commercial enterprises, such as markets, cement plants, and cemeteries.

State and local standard of living and aid to the disadvantaged expenditures

The \$32 billion increase in state and local standard of living and aid to the disadvantaged expenditures was driven by a \$31 billion or 6% increase in Medicaid and CHIP benefits payments, as discussed within *Expenditures by function, 2016 to 2017 / State and local transfer payments to individuals and subsidies* above.

Fiscal year 2017 compared with fiscal year 2012

			2017						2012								Chan	ges ²		
(In billions, except percentages)	Total	F	ederal ¹	St	ate and Local		Total	Fe	ederal ¹	S	tate and Local	1	Γotal	Fe	deral ¹	Sta	ate and Local	Total	Federal ¹	State and Local
Economy and infrastructure Standard of living and aid to the	\$ 261	\$	62	\$	199	\$	284	\$	114	\$	170	\$	(23)	\$	(52)	\$	29	(8)%	(46)%	17%
disadvantaged Health (excluding Medicaid and	986		329		657		841		354		487		145		(25)		170	17%	(7)%	35%
Medicare)	 161		49		112		150		51		99	_	11		(2)		13	7%	(4)%	13%
Total General Welfare As a percentage of total expenditures	\$ 1,408 23%		440 7%	\$	968 16%	11	1,275 24%	\$	519 9%	\$	756 12%	\$	133	\$	(79)	\$	212	10%	(15)%	28%
Estimated impact of inflation on segment Estimated impact of population growth of				ıres								\$	86 45	\$	35 18	\$	51 27	7% 4%	7% 4%	7% 4%

¹ Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

Federal economy and infrastructure expenditures

The \$52 billion decrease in federal economy and infrastructure expenditures reflects the financial sector's recovery from the impacts of the Great Recession. The overall expenditures decrease was driven primarily by a \$40 billion or 141%

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

decrease in banking and financing expenditures, of which a \$21 billion or 98% decrease related to other banking and finance and a \$19 billion or 281% decrease related to deposit insurance.

The 98% decrease in banking and financing expenditures reflects costs related to the TARP program in 2012 that did not exist in 2017. In 2012, there were \$27 billion in TARP program costs, and \$6 billion in TARP program credits that reflected changes in actual and anticipated future program performance, when compared to 2017 result in a net decrease in \$21 billion in TARP costs for the period.

The 281% decrease in deposit insurance expenditures primarily reflects a \$7 billion or 435% decrease in the FDIC's costs of insuring the deposits of banks and resolving failed banks, as well as a \$6 billion or 100% decrease in FDIC senior unsecured debt guarantee costs due to termination of the FDIC's temporary liquidity guarantee program put in place after the Great Recession. Comparing fiscal year 2017 to fiscal year 2012, the number of bank failures decreased 84%.

State and local standard of living and aid to the disadvantaged expenditures

The \$170 billion increase in state and local standard of living and aid to the disadvantaged expenditures was driven by a \$173 billion or 44% increase in Medicaid and CHIP payments, as discussed within *Expenditures by function*, 2012 to 2017 / State and local transfer payments to individuals and subsidies above.

Fiscal year 2017 compared with fiscal year 2007

				2017				200	7							Chan	ges ²		
(In billions, except percentages)		Total	Fe	ederal ¹	Sta	ate and Local	Total	Federal	1	Sta	ate and Local	Total	F	ederal ¹	St	ate and Local	Total	Federal ¹	State and Local
Economy and infrastructure Standard of living and aid to the	\$	261	\$	62	\$	199	\$ 217	\$ 6	4	\$	153	\$ 44	\$	(2)	\$	46	20%	(3)%	30%
disadvantaged Health (excluding Medicaid and		986		329		657	563	18	6		377	423		143		280	75%	77%	74%
Medicare)		161		49		112	118	3	6		82	43		13		30	36%	36%	37%
Total General Welfare As a percentage of total expenditures	\$ 1	1,408 23%	\$	440 7%	\$	968 16%	\$ 898 21%	\$ 28 5%		\$	612 10%	\$ 510	\$	154	\$	356	57%	54%	58%
Estimated impact of inflation on segmen Estimated impact of population growth of					es							\$ 169 71	\$	54 23	\$	115 48	19% 8%	19% 8%	19% 8%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

INTERACTIVE ANALYSIS

Federal standard of living and aid to the disadvantaged expenditures

The \$143 billion increase in federal standard of living and aid to the disadvantaged expenditures was driven by many items. The items that each increased \$10 billion or more were:

- \$35 billion of newly available refundable tax credits paid to families and individuals to assist them in purchasing health insurance (the Premium Tax Credit);
- a \$33 billion or 109% increase in food and nutritional assistance (SNAP) payments;
- a \$21 billion or 56% increase in refundable Earned Income Tax Credits, reflecting a 12%* increase in the number
 of tax returns with qualifying tax credits claimed and a \$490* or 25%* increase in the average amount of each
 tax credit, driven primarily by the ARRA;
- a \$20 billion or 53% increase in Supplemental Security Income payments, reflecting a 14%* increase in the number of recipients and a \$1,174* or 25%* increase in the average annual payment per recipient; and
- a \$14 billion or 92% increase in Pell grants, reflecting a 39% increase in the number of Pell grant recipients and a 51% or \$1,256 increase in the average grant per recipient, driven primarily by the ARRA.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

The 109% increase in SNAP payments reflects a 62% increase in the average monthly number of participants and a 31% increase in the average monthly benefit per person. The 62% increase in average number of monthly participants was likely due to the Great Recession, as well as due to the impact of the ARRA, which eased eligibility requirements, and new program tools that made it easier for people to apply for, and continue receiving, benefits. The 31% increase in the average monthly benefit per person reflects a 25% increase in maximum allotments, which are adjusted annually for changes in cost of living, and which during this period reflected the impact of the ARRA, which increased the maximum allotments for participants by 14% (effective April 1, 2009 to October 31, 2013). Inflation of the cost of food for this period was 24%.

State and local standard of living and aid to the disadvantaged expenditures

The \$280 billion increase in state and local standard of living and aid to the disadvantaged expenditures was driven by a \$270 billion or 91% increase in Medicaid and CHIP payments, as discussed within *Expenditures by function, 2007 to 2017 / State and local transfer payments to individuals and subsidies* above.

Blessings of Liberty (BL)

This segment's expenditures comprise approximately half of our Government's expenditures. Wealth and savings (primarily Social Security, government obligations, including pension obligations and interest on debt, and Medicare) expenditures comprise nearly 70% of the segment's expenditures, with education expenditures comprising most of the remainder. See Exhibit 99.05 for more information on the largest items in each of this segment's expenditure categories.

Fiscal year 2017 compared with fiscal year 2016

			2017					2016								Char	iges ²		
(In billions, except percentages)	Total	Fe	ederal ¹	St	ate and Local	Total	Fe	ederal ¹	S	tate and Local	,	「otal	F	ederal ¹	St	ate and Local	Total	Federal ¹	State and Local
Education	\$ 937	\$	48	\$	889	\$ 870	\$	13	\$	857	\$	67	\$	35	\$	32	8%	269%	4%
Wealth and savings	2,191		1,879		312	2,126		1,819		307		65		60		5	3%	3%	2%
Sustainability and self-sufficiency	108		53		55	108		53		55	_					_	-%	—%	—%
Total Blessings of Liberty As a percentage of total	\$ 3,236	\$	1,980	\$	1,256	\$ 3,104	\$	1,885	\$	1,219	\$	132	\$	95	\$	37	4%	5%	3%
expenditures	53%		33%		21%	53%		31%		20%									
Estimated impact of inflation on segm	nent expen	ditu	res								\$	64	\$	39	\$	25	2%	2%	2%
Estimated impact of population grow	th on segm	nent	expend	iture	es							20		12		8	1%	1%	1%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

INTERACTIVE ANALYSIS

Federal education expenditures

The \$35 billion increase in federal education expenditures was driven primarily by a \$35 billion or 352% increase in FDSL expenditures and a \$10 billion or 671% increase in FFEL expenditures, offset in part by a \$11 billion increase of FDSL program credits that reflected accounting for changes in actual and anticipated future program performance, as discussed above under Expenditures by function, 2016 to 2017 / Federal transfer payments to individuals and subsidies, Other transfer payments to individuals and subsidies.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

State and local education expenditures

The \$32 billion increase in state and local education expenditures was driven primarily by a \$30 billion or 5% increase in costs of elementary and secondary education, reflecting:

- a 3% increase in salaries and wages, including 2% for instruction employees and 3% for support employees; and
- a 6% increase in employee benefits, including 6% for instruction employees and 7% for support employees.

Within public elementary and secondary schools, the number of teachers increased 1%, while the change in the number of students enrolled was negligible, and the student/teacher ratio remained flat at 16.0 students per teacher.

Federal wealth and savings expenditures

The \$60 billion increase in federal wealth and savings expenditures was driven primarily by a \$28 billion or 3% increase in costs of Social Security and a \$27 billion or 127% increase in costs of Federal Housing Administration (FHA) programs. The 3% increase in costs of Social Security reflects increased benefits payments, as discussed within *Expenditures by function*, 2016 to 2017 / Federal transfer payments to individuals and subsidies, Social Security above.

The 127% increase in FHA program costs reflects a \$15 billion or 420% increase in costs of the FHA Mutual Mortgage Insurance program, which provides financing to individuals and families not adequately served by the conventional private mortgage market, as well as a \$12 billion or 47% increase in the FHA Mutual Mortgage Insurance Capital Reserve Account, which holds additional funds available to cover unexpected losses on guarantees from the Mutual Mortgage Insurance Program. More information regarding the FHA program can be found in *Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements, Note 4 – Loans receivable and loan quarantee liabilities, net.*

Fiscal year 2017 compared with fiscal year 2012

		2	2017					2012							Chan	ges ²		
(In billions, except percentages)	Total	Fed	leral ¹	Stat	e and Local	Total	Fe	ederal ¹	S	tate and Local	Total	Fe	ederal ¹	St	ate and Local	Total	Federal ¹	State and Local
Education	\$ 937	\$	48	\$	889	\$ 746	\$	(18)	\$	764	\$ 191	\$	66	\$	125	26%	367%	16%
Wealth and savings	2,191		1,879		312	1,803		1,538		265	388		341		47	22%	22%	18%
Sustainability and self-sufficiency	108		53		55	117		58		59	(9)		(5)		(4)	(8)%	(9)%	(7)%
Total Blessings of Liberty As a percentage of total	\$ 3,236	\$	1,980	\$	1,256	\$ 2,666	\$	1,578	\$	1,088	\$ 570	\$	402	\$	168	21%	25%	15%
expenditures	53%		32%		21%	50%		26%		18%								
Estimated impact of inflation on seg	ıment exper	nditur	res								\$ 179	\$	106	\$	73	7%	7%	7%
Estimated impact of population gro	wth on segr	ment (expend	ditures	;						95		56		39	4%	4%	4%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

INTERACTIVE ANALYSIS

State and local education expenditures

The \$125 billion increase in state and local education expenditures was driven primarily by a \$106 billion or 18% increase in costs of elementary and secondary education and a \$17 billion or 11% increase in costs of higher education.

The 18% increase in costs of elementary and secondary education during this period primarily reflects:

- a 12% increase in salaries and wages, including 11% for instruction employees and 14% for support employees;
 and
- a 27% increase in employee benefits, including 28% for instruction employees and 26% for support employees.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

Within public elementary and secondary schools, the numbers of students enrolled and teachers both increased 2% and the student/teacher ratio remained flat at 16.0 students per teacher.

The 11% increase in costs of higher education expenses during this period primarily reflects:

- an 18% increase in costs of instruction, including a 17% increase in salaries and wages;
- a 26% increase in costs of academic support, including libraries, academic administration, course curriculum development, and ancillary support; and
- a 22% increase in costs of institutional support, the day-to-day operational costs for institutions (excluding physical plant operations), including general administrative services, executive direction and planning, legal and fiscal operations, and community relations; partially offset by
- a 46% decrease in costs of auxiliary enterprises, essentially self-supporting operations of institutions that furnish a service to students, faculty, or staff, such as residence halls and food services.

Within higher education institutions, the number of faculty and administrative staff increased 2% and 153%, respectively, while the number of students enrolled decreased 4% (all between 2017 and 2011, the closest available data to 2012). The student/faculty ratio declined 6% from 15.8 to 14.9 between 2012 and 2017, while the student/administrative staff ratio declined 62% from 134.2 to 51.0.

Federal wealth and savings expenditures

The \$341 billion increase in federal costs of wealth and savings was driven primarily by a \$172 billion or 22% increase in Social Security expenditures and a \$125 billion or 27% increase in Medicare expenditures. These increases reflect increased benefits payments, as discussed within *Expenditures by function*, 2012 to 2017 / Federal transfer payments to individuals and subsidies above.

Fiscal year 2017 compared with fiscal year 2007

	2017							2007							Chan	ges ²		
(In billions, except percentages)	Total	Fe	deral 1	S	tate and Local	Total	Fe	ederal ¹	St	tate and Local	Total	Fe	ederal ¹	St	ate and Local	Total	Federal ¹	State and Local
Education	\$ 937	\$	48	\$	889	\$ 696	\$	13	\$	683	\$ 241	\$	35	\$	206	35%	269%	30%
Wealth and savings	2,191		1,879		312	1,403		1,262		141	788		617		171	56%	49%	121%
Sustainability and self-sufficiency	108		53		55	113		41		72	(5)		12		(17)	(4)%	29%	(24)%
Total Blessings of Liberty As a percentage of total	\$ 3,236	\$	1,980	\$	1,256	\$ 2,212	\$	1,316	\$	896	\$ 1,024	\$	664	\$	360	46%	50%	40%
expenditures	53%		32%		21%	52%		22%		15%								
Estimated impact of inflation on segn	nent expen	ditu	ires								\$ 415	\$	247	\$	168	19%	19%	19%
Estimated impact of population grow	rth on segn	nent	expend	litur	es						175		104		71	8%	8%	8%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).

INTERACTIVE ANALYSIS

State and local education expenditures

The \$206 billion increase in state and local education expenditures was driven primarily by a \$141 billion or 26% increase in costs of elementary and secondary education and a \$60 billion or 51% increase in costs of higher education.

The 26% increase in costs of elementary and secondary education during this period primarily reflects:

- a 20% increase in salaries and wages, including 18% for instruction employees and 22% for support employees;
 and
- a 51% increase in employee benefits, including 52% for both instruction and support employees.

² Key changes are highlighted in gray in the table above and are discussed in the sections below.

Within public elementary and secondary schools, the number of students enrolled increased 3%, while the change in the number of teachers was negligible, and the student/teacher ratio increased 3%, from 15.6 to 16.0 students per teacher.

The 51% increase in higher education expenses during this period primarily reflects:

- a 67% increase in costs of instruction, including a 39% increase in salaries and wages;
- an 80% increase in costs of institutional support; and
- a 91% increase in costs of academic support, including libraries, academic administration, course curriculum development, and ancillary support.

Within higher education institutions, the number of faculty and administrative staff increased 16% and 182%, respectively (both between 2017 and 2006, the closest date available to 2007), along with an 11% increase in the number of students enrolled. From 2006 to 2017, the student/faculty ratio declined 5%, from 15.6 to 14.8, while the student/administrative staff ratio declined 61% from 129.8 to 51.0.

Federal wealth and savings expenditures

The \$617 billion increase in federal costs of wealth and savings was driven primarily by a \$359 billion or 61% increase in Social Security expenditures and a \$222 billion or 59% increase in Medicare expenditures. These increases reflect increased benefits payments, as discussed within Expenditures by function, 2007 to 2017 / Federal transfer payments to individuals and subsidies above.

General government support and other

The costs of central government functions, including general property and records management and general claims against our Government that are not allocable to one agency, are not allocated to our segments and are considered general government support.

Other expenditures include non-grant assistance from the federal government to territories and state and local governments (e.g. direct borrowing subsidies through the Build America Bonds program) and the discrepancy between grants from the federal government to state and local governments as reported by the federal government versus as reported by state and local governments (we assumed the federal government source was accurate).

Fiscal year 2017 compared with fiscal year 2016

			2017					2016								Chan	ges ²		
(In billions, except percentages)	Total	Fe	deral ¹	St	ate and Local	Total	Fe	deral ¹	Sta	ate and Local	1	Γotal	Fee	deral ¹	Sta	ate and Local	Total	Federal ¹	State and Local
Costs of central government functions Other	\$ 169 (26)	\$	17 (26)	\$	152 —	\$ 167 (22)	\$	15 (22)	\$	152 —	\$	2 (4)	\$	2 (4)	\$	_ 	1% (18)%	13% (18)%	—% —%
Total general government support and other As a percentage of total expenditures	\$ 143 2%	\$	(9) —%	\$	152 3%	\$ 145 2%	\$	(7) —%	\$	152 3%	\$	(2)	\$	(2)	\$	_	(1)%	(29)%	—%
Estimated impact of inflation on segment Estimated impact of population growth o			enditur	es							\$	3 1	\$	_	\$	3	2% 1%	2% 1%	2% 1%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II. Item 8 within this annual report). INTERACTIVE ANALYSIS

Other federal expenditures decreased \$4 billion due primarily to \$4 billion in annual variations in the discrepancy between grants from the federal government to state and local governments as reported by the federal government versus as reported by state and local governments.

Key changes are highlighted in gray in the table above and are discussed in the sections below.

Fiscal year 2017 compared with fiscal year 2012

			2017					2012								Char	iges ²		
(In billions, except percentages)	Total	Fe	deral ¹	Sta	ate and Local	Total	Fe	ederal ¹	St	tate and Local	To	otal	F	ederal ¹	St	ate and Local	Total	Federal ¹	State and Local
Costs of central government functions	\$ 169	\$	17	\$	152	\$ 169	\$	18	\$	151	\$	_	\$	(1)	\$	1	— %	(6)%	1%
Other	(26)		(26)		_	(31)		(31)				4	_	5			16%	16%	—%
Total general government support and other	\$ 143	\$	(9)	\$	152	1	\$	(13)	\$	151	\$	5	\$	4	\$	1	4%	(31)%	1%
As a percentage of total expenditures	2%		—%		3%	3%		—%		2%									
Estimated impact of inflation on segmen				turac							\$	11	\$	1	\$	10	7% 4%	7%	7% 4%
and other As a percentage of total expenditures	2%	ditur	—% es		3%	\$ 138 3%	\$	(13) —%	\$	151 2%	Ť		,	4 1 1	\$	1 10 5		, ,	

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report).



Other federal expenditures increased \$5 billion due primarily to \$5 billion in annual variations in the discrepancy between grants from the federal government to state and local governments as reported by the federal government versus as reported by state and local governments.

Fiscal year 2017 compared with fiscal year 2007

	20							2007								Cha	nges ²		
(In billions, except percentages)	Total	Fe	deral ¹	St	tate and Local	Total	Fe	ederal ¹	St	tate and Local	1	Γotal	Fe	deral ¹	St	ate and Local	Total	Federal ¹	State and Local
Costs of central government functions Other	\$ 169 (26)	\$	17 (26)	\$	152 —	\$ 164 (10)	\$	15 (10)	\$	149 —	\$	5 (16)	\$	2 (16)	\$	3 —	3% (160)%	13% (160)%	2% —%
Total general government support and other As a percentage of total expenditures	\$ 143 2%	\$	(9) —%	\$	152 3%	\$ 154 4%	\$	5 —%	\$	149 2%	\$	(11)	\$	(14)	\$	3	(7)%	(280)%	2%
Estimated impact of inflation on segment Estimated impact of population growth of				ture	es						\$	31 13	\$	3 1	\$	28 12	19% 8%	19% 8%	19% 8%

Federal expenditures exclude transfers to state and local governments. See separate schedule and discussion of intergovernmental transfers at Note 23 – Intergovernmental transfers (Part II, Item 8 within this annual report). INTERACTIVE ANALYSIS

Other federal expenditures decreased \$16 billion due primarily to \$16 billion in annual variations in the discrepancy between grants from the federal government to state and local governments as reported by the federal government versus as reported by state and local governments.

Key metrics by segment

In this section, we analyze by segment certain key metrics that measure progress towards our constitutional objectives of justice and domestic tranquility, common defense, general welfare, and security of the blessings of liberty to ourselves and our posterity. We chose metrics for which government data was available and that seemed representative of the status of these objectives. There are more metrics on our website at https://usafacts.org/, which you can access by selecting the "More detail" links next to the tables below.

As discussed in Part I, Item 1A. Risk Factors, in a free society, human behavior cannot be fully regulated or controlled. Government provides services, promulgates regulations, and enacts legislation intended to make progress towards our constitutional objectives; however, people are responsible for making their own choices. In addition, there are many other forces influencing these key metrics, including the natural world, governments and citizens of other countries, and

Key changes are highlighted in gray in the table above and are discussed in the sections below.

Key changes are highlighted in gray in the table above and are discussed in the sections below.

businesses and philanthropic organizations worldwide. Therefore, one should not assume that the revenue and expenditures discussed above and the legislation discussed throughout this document caused the key metrics discussed in this section.

Justice and Domestic Tranquility (JDT)

The JDT segment works to establish justice and ensure domestic tranquility among the US population. Its reporting units are crime and disaster, safeguarding consumers and employees, and child safety and miscellaneous social services. Overall, the long-term trend for the past decade shows we:

- made meaningful progress on reducing: overall numbers of crimes reported and related arrests; numbers of
 youth imprisoned in state prisons; most types of fires and civilian deaths from home and other structure fires;
 transportation fatalities; workplace injuries and fatalities; the number of children in, and adopted from, foster
 care; and the number of children that are victims of maltreatment (though sub-populations had mixed
 outcomes):
- **saw no meaningful movement** in the overall numbers of incarcerated people, highway crashes per mile driven, child fatalities as a result of maltreatment (though sub-populations had mixed outcomes), children living in single parent households, foster children reunited with family, and children in poverty; and
- regressed notably in numbers of other structure fires and civilian deaths from highway vehicle fires and other
 fires, the numbers and estimated costs of billion-dollar natural disasters, acres and cost per acre burned in
 forest fires, children receiving free and reduced lunch, homeless children enrolled in school, and all types of
 consumer complaints.

Shorter-term trends may differ.

Crime and disaster

The crime and disaster reporting unit seeks to reduce crime, administer justice, and mitigate and prevent disasters.

Crime

(In thousands, except percentages, rates, or otherwise					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
noted)	2017	2016	2012	2007	2016	2012	2007
Crimes reported 1:							
Property crimes ²	7,683	7,929	9,002	9,882	(3)%	(15)%	(22)%
Property crimes per 100,000 people	2,364	2,455	2,868	3,281	(4)%	(18)%	(28)%
Violent crimes ³	1,248	1,250	1,217	1,423	—%	3%	(12)%
Violent crimes per 100,000 people	384	387	388	472	(1)%	(1)%	(19)%
Murder/non-negligent manslaughter (MNM)	17	17	15	17	—%	13%	—%
MNMs per 100,000 people	5	5	5	6	—%	—%	(17)%
Arrests by crime:	10,555	10,662	12,198	14,212	(1)%	(13)%	(26)%
Drug abuse violations	1,633	1,573	1,552	1,841	4%	5%	(11)%
Drug abuse violations arrests per 100,000 people	502	487	495	611	3%	1%	(18)%
Sale/manufacturing	238	na	278	327	na	(14)%	(27)%
Possession	1,395	na	1,274	1,514	na	9%	(8)%
Property crimes ²	1,250	1,353	1,646	1,610	(8)%	(24)%	(22)%
Property crimes arrests rate (of property crimes reported)	16%	17%	18%	16%	(1)ppt	(2)ppt	—ppt
Driving under the influence (DUI) of alcohol or narcotics	991	1,018	1,283	1,427	(3)%	(23)%	(31)%
DUI arrests per 1,000 miles driven	309	321	432	471	(4)%	(28)%	(34)%
Violent crimes ³	519	515	521	597	1%	—%	(13)%
Violent crimes arrests rate (of violent crimes reported)	42%	41%	43%	42%	1ppt	(1)ppt	—ppt
Other	6,162	6,203	7,196	8,737	(1)%	(14)%	(29)%

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

na An "na" reference in the table means the data is not available.

- ¹ Crimes reported by local law enforcement to the Federal Bureau of Investigation
- ² Property crimes are offenses of burglary, larceny-theft, motor vehicle theft, and arson.
- 3 Violent crimes are offenses of murder and nonnegligent manslaughter, rape, robbery, and aggravated assault.

Crimes reported

Property crimes and violent crimes reported had generally been declining at accelerating rates each year of the decade covered by this report, and at even higher rates if you adjust for population growth. Declines were seen across most crime sub-categories and every major region (Northeast, Midwest, South, West) of the US.

In 2016, this trend temporarily reversed for violent crimes, as reported crimes increased across all sub-categories and in every major region. Rates dropped again for most sub-categories and regions in 2017 but remained elevated when compared to recent history:

- By major region the change in violent crimes from 2016 to 2017 ranged from a decrease of 4% in the Northeast (to a rate of 305 violent crimes reported per 100,000 people) to an increase of 2% in the West (to a rate of 423 violent crimes reported per 100,000 people).
- By state/territory the change in violent crimes from 2016 to 2017 ranged from a decrease of 16% in Nevada (to a rate of 556 violent crimes reported per 100,000 people) to an increase of 22% in Vermont (to a rate of 166 violent crimes reported per 100,000 people).
- By type Aggravated assaults accounted for 63% of violent crimes reported to law enforcement in 2017, with the number of aggravated assaults reported up 1% from 2016, while robbery offenses accounted for 25% (down 4%), rape accounted for 11% (up 3%), and murder accounted for 1% (down 1%).

Arrests

Arrests for property crimes and violent crimes followed similar trends as crimes reported, with property crime arrests decreasing in all periods and violent crime arrests decreasing in all periods before increasing slightly in 2017. Arrests for drug abuse violations decreased over the past decade but increased in 2016 and 2017. When comparing 2017 to 2007, we see a shift in the distribution of arrests towards those for possession (vs. sale/manufacturing) of heroin or cocaine and their derivatives and synthetic or manufactured drugs. Arrests for DUIs decreased for all periods presented.

Underlying the overall arrests trends, there are demographical points to note:

- Youth (under age 18) are more often arrested for property crimes than violent crimes (6% of their arrests in 2017) and are comprising a disproportionately smaller percentage of all arrests over time (an 8-percentage point decline overall between 2007 and 2017 – compared to a 2-percentage point decline in the percentage of the total population they represent); and
- Black people have been arrested at a rate (27% of total arrests in 2017) that is significantly higher than the rate
 they comprise of the US population (13% in 2017) throughout the periods discussed in this report. In 2017,
 black people accounted for more than 50% of the arrested population for murder and nonnegligent
 manslaughter and robbery offenses.

Incarceration

(In thousands, except percentages and as noted)	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Incarcerated population 1:	na	2,162	2,231	2,296	na	na	na
Persons in jail ²	745	741	745	781	1%	—%	(5)%
Persons in prison (federal and state) ³	1,489	1,508	1,570	1,597	(1)%	(5)%	(7)%
Youth in jail (actuals)	3,600	3,900	5,400	6,833	(8)%	(33)%	(47)%
Youth in state prisons (actuals)	935	956	1,325	2,283	(2)%	(29)%	(59)%
Sentenced prisoners by crime committed:							
Violent crimes	na	724	721	708	na	na	na
Property crimes	na	237	258	274	na	na	na
Drug crimes	na	272	309	369	na	na	na
Public order and other ⁴	na	219	209	157	na	na	na

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

Our incarcerated populations decreased over the past decade. However, there are racial and other dynamics of note:

- Black people are disproportionately jailed and imprisoned, comprising 34% of those jailed and 33% of those imprisoned in 2017 as compared to 13% of the US population. However, the percentages of the jailed and imprisoned populations they comprise are decreasing (declines of 5 and 6 percentage points between 2007 and 2017 of those jailed and imprisoned, respectively) despite remaining 13% of the US population during this period.
- The opposite is true for white people, who represent a disproportionately small percentage of those incarcerated 50% of those jailed and 30% of those imprisoned in 2017, while comprising 77% of the US population. The percentage of those jailed who are white increased 6 percentage points between 2007 and 2017, while the percentage of those imprisoned who are white decreased 2 percentage points. Meanwhile, white people decreased as a percentage of the US population (a 2-percentage point decrease between 2007 and 2017).
- The offenses for which people are imprisoned has changed, with property and drug offenses decreasing and violent crime and public order offenses increasing.
- Numbers of incarcerated youth appear to be decreasing.

na An "na" reference in the table means the data is not available.

Prisoners held in local jails were excluded from the total to prevent double counting.

Jails are correctional facilities that confine persons before or after adjudication and are usually operated by local law enforcement authorities. Jail sentences are usually for 1 year or less.

State and federal prisoner populations differ from the jail inmate population in terms of conviction status, offense distribution, and average length of stay. Prison facilities also differ from local jail facilities in average size, treatment and programming resources, and crowding, among other characteristics.

⁴ Public order includes weapons, drunk driving, and court offenses; commercialized vice, morals, and decency offenses; and liquor law violations and other public-order offenses.

Fire (non-natural disaster)

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Fire incidents (in thousands, except rates):	1,319	1,342	1,375	1,558	(2)%	(4)%	(15)%
Home structure fires ¹	357	352	365	399	1%	(2)%	(11)%
Home structure fires per 100,000 housing units	261	260	275	312	—%	(5)%	(16)%
Other structure fires ²	142	124	116	132	15%	22%	8%
Highway vehicle fires ³	168	173	173	228	(3)%	(3)%	(26)%
Highway vehicle fires per 1 billion miles driven	52	55	58	<i>75</i>	(5)%	(10)%	(31)%
Other fires ⁴	652	693	721	799	(6)%	(10)%	(18)%
Civilian deaths from fire incidents:	3,400	3,390	2,855	3,430	—%	19%	(1)%
Home structure fire civilian deaths ¹	2,630	2,800	2,380	2,865	(6)%	11%	(8)%
Rate of deaths per home structure fire	0.7%	0.8%	0.7%	0.7%	(1)ppt	—ppt	—ppt
Other structure fire civilian deaths ²	105	150	90	135	(30)%	17%	(22)%
Rate of deaths per other structure fire	0.1%	0.1%	0.1%	0.1%	—ppt	—ppt	—ppt
Highway vehicle fire civilian deaths ³	400	280	300	365	43%	33%	10%
Rate of deaths per highway vehicle fire	0.2%	0.2%	0.2%	0.2%	—ppt	—ppt	—ppt
Other fire civilian deaths ⁴	175	160	85	65	9%	106%	169%
Rate of deaths per other fire	0.0%	0.0%	0.0%	0.0%	—ppt	—ppt	—ppt

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Fire incidents

The number of fire incidents have declined over the past decade, both on an absolute basis and per housing unit and mile driven, with the exception of other structure fires. The overall decrease was led by a 147 thousand or 18% decrease in "other" fires. In 2017, the leading cause of fires was cooking for both residential and non-residential buildings, comprising 52% and 30% of those fires, respectively.

Civilian deaths from fire incidents

Civilian deaths from fire incidents have also fluctuated but decreased overall in the past decade, led by a 235 or 8% decrease in home structure fire incidents and a 30 or 22% decrease in deaths from other structure fire incidents, offset in part by a 110 or 169% increase in deaths from other fire incidents. As a percentage of fire incidents, deaths for all types of fire incidents shown have remained less than 1% throughout the past decade.

Homes are dwellings, duplexes, manufactured homes (also called mobile homes), apartments, rowhouses, and townhouses.

² Includes other residential properties, such as hotels and motels, dormitories, barracks, rooming and boarding homes, and the like.

³ Highway vehicles include any vehicle designed to operate normally on highways, such as automobiles, motorcycles, buses, trucks, and trailers, but not manufactured homes on foundations.

⁴ Other fires include fires in non-highway vehicles (i.e., trains, boats, ships, aircraft, farm, and construction vehicles), outside property fires, outside wilderness fires, and fires in rubbish, among others.

Disasters

(Dollars in billions, others actuals or as noted)	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Billion-dollar disaster incidents ¹	16	15	11	5	7%	45%	220%
Billion-dollar disaster cost estimate ¹	\$ 309	\$ 47	\$ 116	\$ 11	557%	116%	2,709%
Cost per billion-dollar disaster ¹	\$ 19	\$ 3	\$ 11	\$ 2	533%	73%	850%
Disaster deaths	3,278	138	377	37	2,275%	769%	8,759%
Billion-dollar disaster incidents							
Severe storm	8	8	7	1	—%	14%	700%
Severe storm cost	\$ 17	\$ 15	\$ 16	\$ 3	13%	6%	467%
Cost per severe storm	\$ 2	\$ 2	\$ 2	\$ 3	—%	—%	(33)%
Tropical cyclone	3	1	2	_	200%	50%	nm
Tropical cyclone cost	\$ 265	\$ 10	\$ 68	\$ _	2,550%	290%	nm
Cost per tropical cyclone	\$ 88	\$ 10	\$ 34	\$ _	780%	159%	nm
Flood	2	4	_	_	(50)%	nm	nm
Flood cost	\$ 3	\$ 16	\$ _	\$ _	81%	nm	nm
Cost per flood	\$ 2	\$ 4	\$ _	\$ _	(50)%	nm	nm
Drought	1	1	1	1	—%	—%	—%
Drought cost	\$ 3	\$ 4	\$ 30	\$ 4	(25)%	(90)%	(25)%
Cost per drought	\$ 3	\$ 4	\$ 30	\$ 4	(25)%	(90)%	(25)%
Wildfire	1	1	1	1	—%	—%	—%
Wildfire cost	\$ 18	\$ 2	\$ 2	\$ 3	800%	800%	500%
Cost per wildfire	\$ 18	\$ 2	\$ 2	\$ 3	800%	800%	500%
Other disaster	1	_	_	2	nm	nm	(50)%
Other disaster cost	\$ 3	\$ _	\$ _	\$ 1	nm	nm	200%
Cost per other disaster	\$ 3	\$ 	\$ _	\$ 1	nm	nm	200%
Forest fires							
Acres burned in forest fires (thousands)	10,026	5,510	9,326	9,328	82%	8%	7%
Acres burned per forest fire	140	81	138	109	73%	1%	28%

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Disaster incidents

The number of billion-dollar disaster incidents have fluctuated, with peaks in 2008 and 2011, and a decline thereafter until 2015 when they began increasing again. The most frequent type of disaster is severe storm, followed by flood, while the most expensive per disaster is tropical cyclone, followed by severe storm. Acres burned in forest fires (in all forest fires, not just those declared disasters) increased over the past decade, generally at a rate higher than the rate at which the number of fires decreased.

^{na} An "na" reference in the table means the data is not available.

^{nm} An "nm" reference in the table means the figure is not meaningful.

Data is limited to billion-dollar disasters as provided by National Oceanic and Atmospheric Administration, as they account for roughly 80% of the total estimated US losses for all combined severe weather and climate events. These loss estimates reflect direct effects of weather and climate events (not including indirect effects) and constitute total estimated losses (both insured and uninsured). Because most of the data sources provide only insured losses, a "factor approach" (based on approximate average insurance participate rates) is used for conversion into the corresponding total estimated losses. For more detailed information regarding the cost estimates see https://www.ncdc.noaa.gov/monitoring-content/billions/docs/smith-and-katz-2013.pdf.

Disaster costs

Total estimated costs for billion-dollar disasters increased 2,709% in the past decade, while the number of billion-dollar disaster incidents increased 220%. Per billion-dollar disaster, estimated costs increased 850% over the past decade. The increase in estimated total disaster costs in 2017 reflects \$130 billion, \$94 billion, and \$52 billion related to hurricanes Harvey, Maria, and Irma, respectively.

Disaster deaths

Like billion-dollar disaster incidents, disaster deaths have fluctuated during the past decade, sharply rising in 2017 to arrive at a ten-year increase of 8,759%. From 2016 to 2017, there was an increase in deaths of 3,140 people, or 2,275%, primarily related to an increase of 2,981 in deaths attributed to Hurricane Maria.

Acres burned

Acres burned in forest fires, categorized as either a lightning-caused or human-caused, increased by 698 thousand acres or 7% over the past decade. Human-caused fires increased 1.4 million acres or 40%, offset in part by a 700 thousand acre or 12% decrease in lightning-caused fires. The Rocky Mountain region had the largest number and percent increase in total acres burned, at an increase of 592 thousand acres or 366%, while the Eastern Great Basin region had the largest acre decrease at 308 thousand acres, and the Eastern Area region had the largest percent decrease at 83%.

Safeguarding consumers and employees

The safeguarding consumers and employees reporting unit seeks to keep people away from harm by regulating, primarily commercial interests.

Safeguarding consumers

Consumer complaints and product safety injuries

(In thousands, except percentages, rates, or otherwise noted)		2017		2016		2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Consumer fraud complaints		1,291		1,226		1,113	506	5%	16%	155%
Consumer fraud complaints per 100,000 people		397		349		355	168	14%	12%	136%
Mean amount paid per fraud complaint	\$	429	\$	450	\$	535	\$ 349	(5)%	(20)%	23%
Identity theft complaints		371		399		370	259	(7)%	-%	43%
Identity theft complaints per 100,000 people		114		124		118	86	(8)%	(3)%	33%
Other consumer complaints ¹		1,215		1,424		632	306	(15)%	92%	297%
Other consumer complaints per 100,000 people		374		441		201	102	(15)%	86%	267%
Consumer financial protection (CFP) complaints ²		243		191		72	na	27%	238%	na
CFP complaints per 100,000 people		<i>75</i>		59		23	na	27%	226%	na
Consumer product safety injuries ³	1	4,728	•	14,319	•	14,614	13,232	3%	1%	11%

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^{na} An "na" reference in the table means the data is not available.

Other consumer complaints are complaints made to the FTC that are other than fraud or identity theft complaints, including: auto-related complaints; banks and lenders; computer equipment and software; credit bureaus, information furnishers, and report users; credit cards; debt collection; education; funeral services; home repair, improvement, and products; and television and electronic media.

² These complaints were reported by the Consumer Financial Protection Bureau while all other complaints in this table were reported by the Federal Trade Commission.

These are calendar year national estimates of the number of persons treated in US hospital emergency departments with consumer product-related injuries and are derived by summing the statistical weights for the appropriate injury cases. The data system allows for reporting of up to two products for each person's injury, so a person's injury may be counted in two product groups.

Consumer complaints

Consumer complaints have grown throughout the period of this report, driven primarily by increased fraud and other consumer complaints, though all categories of complaints have increased.

- Fraud complaints are made by adults of all ages with no notable concentrations. Victims who report the method of initial contact primarily report that the fraud was initiated via phone, and those who report transferring funds most often report doing so through wire transfer.
- *Identity theft complaints* are also made by adults of all ages and most often comprise credit card fraud, followed by employment or tax-related fraud, phone or utilities fraud, and bank fraud.
- Other consumer complaints made to the Federal Trade Commission have increased due primarily to third-party debt collection complaints.
- Consumer financial protection complaints have grown, driven primarily by increases in credit-related complaints, including credit reporting and debt collection. These complaints are made to the Consumer Financial Protection Bureau, which originated in 2010 in response to the financial crisis and Great Recession.

Consumer fraud payments

The mean amount paid per fraud complaint increased over the past decade but decreased in recent years. In 2016 (the most recent data available), more than half (61%) of the complaints resulted in no payment, while the payment group with the largest number of complaints (9% of the complaints) was the group with amounts paid between \$1,001 and \$5,000. Two percent of complaints had amounts paid of \$5,000 or more, the top payment group. By type of fraud, the largest median amount paid per fraud in 2019 (the earliest date for which this detail was reported) was for foreign money offers and counterfeit check scams.

Consumer product safety injuries

Consumer product safety injuries have fluctuated from year to year, peaking in 2017. The largest numbers of injuries relate to home structures and construction materials, sports and recreational equipment, and home furnishings and fixtures. Injuries related to home structures and construction materials increased 28% when comparing 2017 to 2007, while sports and recreational equipment injuries decreased 5%, and injuries related to home furnishings and fixtures increased 39%, over this same period.

Transportation safety

(In thousands, except percentages, rates, or otherwise noted)	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Transportation crashes	6,479	6,847	5,639	6,057	(5)%	15%	7%
Highway crashes	6,453	6,821	5,615	6,024	(5)%	15%	7%
Highway crashes per 100 million miles driven	201	215	189	199	(7)%	6%	1%
Transportation fatalities (actual people)	39,367	39,421	35,691	43,346	—%	10%	(9)%
Highway fatalities (actual people)	37,133	37,461	33,782	41,259	(1)%	10%	(10)%
Highway fatalities per 100,000 highway crashes	575	549	602	685	5%	(4)%	(16)%

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Nearly all transportation crashes (99% in 2017) and transportation fatalities (95% in 2017) are highway crashes and fatalities.

Highway crashes have increased, in absolute terms and per mile driven, over the past decade. Highway fatalities dropped 9% in each calendar year 2008 and 2009 and had remained at roughly 33,000 fatalities per year thereafter until 2015, when they jumped to over 35,000 and then jumped again to over 37,000 in 2016 before decreasing 1% in 2017. Nearly a third (29% or 10,908 fatalities in 2017) of highway fatalities involved a driver with a Blood Alcohol Concentration of 0.08 (an

illegal level in all 50 States, DC, and Puerto Rico) or higher. Since 2007, distraction-affected fatalities decreased 46%, to 3,166 in 2017.

Safeguarding employees

(In thousands, except percentages, rates, or otherwise noted)	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Workplace violations (actual) ¹	na	58,702	78,723	88,846	na	na	na
Workplace violations per 100,000 employees	na	42	58	64	na	na	na
Non-fatal workplace injuries	3,476	3,535	3,821	4,003	(2)%	(9)%	(13)%
Non-fatal injuries per 100,000 employees	2,438	2,518	2,802	2,901	(3)%	(13)%	(16)%
Fatal workplace injuries (actual)	5,147	5,190	4,628	5,657	(1)%	11%	(9)%
Rate of fatality of workplace injuries	0.1%	0.1%	0.1%	0.1%	—ppt	—ppt	—ppt
Back wages recovered	\$ 270,404	\$ 266,566	\$ 280,698	\$ 220,614	1%	(4)%	23%
Back wages recovered per injury	\$ 78	\$ <i>75</i>	\$ <i>7</i> 3	\$ 55	3%	6%	41%

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The work safety outcomes discussed here are nearly all positive; workplace violations, injuries, and fatalities (1-year and 10-year only) are all down, while back wages recovered, in total and per injury, have increased. Fatal workplace injuries have increased over the past five years, primarily in construction and truck transportation industries. However, as a rate per workplace injury, fatal injuries have been steady over the past decade.

Fatal workplace injuries disproportionately take the lives of men (92% of the incidents in 2017). In 2017, 91% of fatal workplace injuries occurred in private industry, with the balance occurring in government. By private industry, in 2017, 42% of the incidents occurred in goods-producing industries, half of which were in construction, while the other 58% of the incidents occurred in service-providing industries, of which nearly a third were in transportation and warehousing.

Child safety and miscellaneous social services

The child safety and miscellaneous social services reporting unit works to maintain the welfare and safety of all children.

Workplace violations are those reported by the Occupational Safety and Health Administration, including violations relating to fall protection, hazard communication, scaffolding, respiratory protection, control of hazardous energy, ladders, powered industrial trucks, machinery and machine guarding, and electrical wiring methods.

na An "na" reference in the table means the data is not available.

Child family situation

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Children in single parent households (in thousands)	19,973	20,229	20,915	21,201	(1)%	(5)%	(6)%
Children in single parent households per 10,000							
children	2,714	2,747	2,838	2,864	(1)%	(4)%	(5)%
Children in foster care	442,995	436,551	396,966	488,285	1%	12%	(16)%
Children in foster care per 10,000 children	60	59	54	66	2%	11%	(9)%
Percentage of foster children fostered by relatives	32%	32%	28%	25%	—ppt	4ppt	7ppt
Children entering foster care	269,690	273,539	251,352	293,276	(1)%	7%	(8)%
Children exiting foster care	247,631	248,856	239,496	294,989	—%	3%	(16)%
Median months in foster care	13	13	13	16	—%	—%	(19)%
Percentage of foster children reunited with parents	49%	51%	51%	53%	(2)ppt	(2)ppt	(4)ppt
Percentage of foster children discharged to live with							
other relatives	7%	7%	8%	9%	—ppt	(1)ppt	(2)ppt
Children adopted from foster care ¹	59,430	57,208	52,025	52,686	4%	14%	13%
Rate of children adopted from foster care (as a							
percentage of children in foster homes) ¹	13%	13%	13%	11%	—ppt	—ppt	2ppt

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Children in single parent households

The numbers of children in single parent households, including the rates thereof, have not changed materially during the periods presented here. In 2017, 84% of single-family households were headed by single mothers, while 16% were headed by single fathers.

Children in foster care

The numbers of children in foster care and their median stay have decreased over the past decade. In 2017, the primary cause of children being in foster care was neglect, at 62% of cases, followed by drug abuse by a parent, at 36%. The ratio of male and female children in foster care has been relatively consistent over the last decade, with 52% male and 48% female in 2017. However, there have been some other demographic shifts over this period including:

- the median age decreased from 9 to 8 years old;
- the percentage of children in foster care who are African-American decreased 8 percentage points, with all other races and ethnicities remaining flat or increasing over the same period; and
- the race with the most children in foster care is white, at 44% in 2017, having grown consistently over the past decade.

The percentages of foster children reunited with their parents or other relatives have declined over the past decade, while the numbers and rates of children adopted with welfare agency involvement have increased.

¹ Adoptions are those with Public Child Welfare Agency involvement.

Crimes against children

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Child victims ¹ (nearest thousand)	674,000	677,000	656,000	723,000	— %	3%	(7)%
Victimization rate by age (per 1,000 children):							
Birth-1	25.3	24.8	21.9	21.9	2%	16%	16%
1-3	11.1	11.3	11.8	12.5	(2)%	(6)%	(11)%
4-7	9.6	9.9	10.2	11.5	(3)%	(6)%	(17)%
8-11	8.0	7.9	7.8	9.4	1%	3%	(15)%
12-17	6.1	6.1	6.3	14.1	—%	(3)%	(57)%
Boys ³	49%	49%	49%	48%	—ppt	—ppt	1ppt
Girls ³	51%	51%	51%	52%	—ppt	—ppt	(1)ppt
White (non-Hispanic)	45%	45%	44%	46%	—ppt	1ppt	(1)ppt
African-American (non-Hispanic)	21%	21%	21%	22%	—ppt	—ppt	(1)ppt
Hispanic	22%	22%	22%	21%	—ppt	—ppt	1ppt
Neglect ²	64%	64%	61%	59%	—ppt	3ppt	5ppt
Physical abuse ²	16%	16%	14%	11%	—ppt	2ppt	5ppt
Sexual abuse ²	7%	7%	7%	8%	—ppt	—ppt	(1)ppt
Child fatalities as a result of maltreatment	1,720	1,750	1,630	1,720	(2)%	6%	-%
Fatality rate by age (per 100,000 children):							
Birth-1	21.9	20.6	18.8	17.2	6%	16%	27%
1-3	4.5	5.4	5.0	5.3	(17)%	(10)%	(15)%
4-7	1.3	1.5	1.5	1.4	(13)%	(13)%	(7)%
8-11	0.6	0.7	0.6	0.5	(14)%	—%	20%
12-17	0.4	0.4	0.4	0.9	—%	—%	(56)%
Boys ³	58%	59%	58%	57%	(1)ppt	—ppt	1ppt
Girls ³	42%	41%	42%	43%	1ppt	—ppt	(1)ppt
White (non-Hispanic)	42%	45%	38%	41%	(3)ppt	4ppt	1ppt
African-American (non-Hispanic)	31%	29%	32%	26%	2ppt	(1)ppt	5ppt
Hispanic	15%	14%	15%	17%	1ppt	—ppt	(2)ppt
Neglect ²	75%	75%	70%	35%	—ppt	5ppt	40ppt
Physical abuse ²	42%	44%	44%	26%	(2)ppt	(2)ppt	16ppt
Sexual abuse ²	1%	1%	1%	—%	—ppt	—ppt	1ppt

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Children victimized and who suffer fatalities as a result of maltreatment are most often victims of their parents, one year old or younger, neglected, and white. However, African-American children disproportionately suffer victimization and death from maltreatment, comprising 14% of the child population in 2017, while comprising 21% of child victims and 31% of child fatalities as a result of maltreatment.

Child victimization rates decreased over the past decade across most demographics, though victimization rates increased for:

- children ages birth to 1, increasing 16%;
- boys, increasing 1 percentage point; and
- Hispanic children, increasing 1 percentage point.

¹ Victims of maltreatment are defined as children who experienced or who were at risk of experiencing abuse or neglect.

² A child may have suffered from more than one type of maltreatment and therefore, the total number of reported maltreatments exceeds the number of fatalities and the total percentage of reported maltreatments exceeds 100%. The percentages are calculated against the number of child fatalities in the reporting states. Prior to 2009, "multiple maltreatment types" was a separate category. In 2009, the current method of reporting each of the multiple maltreatment types began, resulting in increases in each of the maltreatment categories in 2009 and later years when compared to prior years.

May not add to 100% due to unknown population.

Child fatalities as a result of maltreatment were unchanged over the past decade. However, increases in fatality rates were seen in children less than one year old, those ages 8-11, and for boys. By race and ethnicity, the percentage of child fatalities that were White and African-American increased while those that were Hispanic decreased.

In 2017, parents represented 92% of the perpetrators of reported child victimization, while 14% were nonparents, and 3% were unknown (figures don't add to 100% due to multiple perpetrator situations). In 2007, parents represented 80% of the perpetrators of reported child victimization, while 20% were nonparents, and 10% were unknown.

Child welfare

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Children in poverty (in thousands)	12,808	13,253	16,073	13,324	(3)%	(20)%	(4)%
Rate of children in poverty	17%	18%	22%	18%	(1)ppt	(5)ppt	(1)ppt
Percentage of children receiving free or reduced lunch at school	73%	73%	68%	59%	—ppt	5ppt	14ppt
Homeless children enrolled in school and known to our							
Government (in thousands) 1	1,354	1,304	1,131	688	4%	20%	97%
Homeless children enrolled in school and known to our							
Government per 10,000 children	184	177	153	93	4%	20%	98%

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Child poverty

Children in poverty represent roughly a third of the overall US population in poverty. The number of children in poverty and child poverty rates have decreased slightly when compared to a decade ago.

The race and ethnicity with the highest rates of child poverty are the black population, ranging from 30% to 38% of children, and the Hispanic population, ranging from 25% to 34% of children, for the periods presented in this report. White and Asian populations have lower rates of child poverty, ranging from 10% to 12% for non-Hispanic white children and 10% to 14% for Asian children, during the periods presented. Child poverty rates for all populations except white children decreased when comparing 2017 to 2007. Child poverty rates for non-Hispanic white children increased 0.1 percentage points between 2007 and 2017.

Free and reduced lunch

The percentage of children receiving free or reduced lunch at school is growing consistently, including in recent years despite reduced numbers of children in poverty in those years. Any child at a participating school may purchase a meal through the National School Lunch Program. Children from families with incomes at or below 130% of the federal poverty level are eligible for free meals. Those with incomes between 130% and 185% of the federal poverty level are eligible for reduced-price lunch, for which students can be charged no more than 40 cents. These eligibility requirements have not changed in the past decade. The increased percentage of children receiving free or reduced lunch at school may be due to the 2010 Healthy Hunger-Free Kids Act, which allows qualifying schools in high-poverty areas to provide free meals to all students without requiring students to demonstrate eligibility.

Homeless children

Homeless children enrolled in school and known to our Government increased over the past decade. Most (76% in 2017) homeless children are "doubled up," or living with others due to loss of housing, economic hardship, or a similar reason.

Years represent the school year ending in the year noted. Includes the District of Columbia and Puerto Rico. Enrolled students include those aged 0 to 2, 3 through 5 not in Kindergarten, enrolled in Kindergarten through grade 12, and ungraded. Grade 13 is included for school year 2014. Data is inconsistently reported year over year by state and local educational agencies. Numbers reflect the number of homeless students known to the Government rather than the total number of homeless students in the country. The 2010-2011 school year and earlier contains duplicate counts.

The next largest source of primary nighttime residence for homeless children, at 14% of the homeless in 2017, was shelters, transitional housing, or awaiting foster care. The fastest growing forms of nighttime residence were doubling up and hotel/motel, growing 104% and 59%, respectively, from 2007 to 2017.

Common Defense (CD)

CD works to provide for the common defense of the US population. Its reporting units are national defense and support for veterans, immigration and border security, and foreign affairs and foreign aid. Overall, the long-term trend for the periods presented shows we:

- **made meaningful progress** on reducing border apprehensions and numbers of people removed or returned, bringing home our active duty military personnel who were stationed abroad, increasing the numbers of visas and green cards granted, naturalizations, and passports in circulation, and increasing foreign aid;
- saw no meaningful movement in lowering the rates of veteran unemployment, poverty, and disability; and
- **regressed notably** in the numbers of VA patients, unauthorized persons with a prior criminal conviction who are removed or returned, intellectual property seizures, airport firearm discoveries, and American civilians that die abroad (except by terrorists and vehicle accidents).

Shorter-term trends may differ.

National defense and support for veterans

The national defense and support for veterans reporting unit provides for our common defense by maintaining and managing the military and providing benefits for veterans, as well as by keeping Americans safe abroad.

National defense

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Total armed forces, excluding reserves (in thousands)	2,035	2,035	2,156	2,048	— %	(6)%	(1)%
Number of active duty military stationed in (in thousands): 1	1,307	1,301	1,401	1,379	—%	(7)%	(5)%
US	1,133	1,063	1,214	1,085	7%	(7)%	4%
Abroad	161	227	174	295	(29)%	(7)%	(45)%
Number of active duty military deaths from:	na	na	na	1,953	na	na	na
Hostile/terrorist	na	na	na	847	na	na	na
Accidents	na	na	na	561	na	na	na
Self-inflicted	na	na	na	211	na	na	na
Illness	na	na	na	237	na	na	na
Homicide	na	na	na	52	na	na	na
Undetermined or pending	na	na	na	45	na	na	na
Number of US civilian deaths overseas by cause:	822	847	834	750	(3)%	(1)%	10%
Vehicle accident	264	228	226	282	16%	17%	(6)%
Homicide	159	145	192	107	10%	(17)%	49%
Suicide	106	141	131	98	(25)%	(19)%	8%
Drowning	122	157	103	109	(22)%	18%	12%
Disaster	2	2	1	_	—%	100%	nm
Terrorist, hostage, and execution	8	15	10	9	(47)%	(20)%	(11)%
Other accident	125	125	160	120	—%	(22)%	4%
Other	36	34	11	25	6%	227%	44%

^{*} We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

An "na" reference in the table means the data is not available.

An "nm" reference in the table means the data is not available.

Details may not add to total. Totals and by location were taken from two separate data sources. In addition, numbers have been rounded.

Armed forces

Overall numbers of armed forces (excluding reserve forces) remain at roughly the same level they were a decade ago, however, the number of active duty military personnel have decreased, despite participating in one additional major conflict. The mix of station location changed when comparing 2017 to 2007; in 2017, there were increased numbers of active duty military personnel stationed in the US, particularly with the Navy, and in Africa, Near East, and South Asia, while there were decreased numbers deployed in Europe, particularly with the Army.

Active duty military deaths

We do not have recent (post-2010) data for active duty military deaths. However, active duty military deaths decreased 24% when comparing 2010 to 2007, driven by a 46% decrease in deaths from hostile/terrorist actions. These decreases were offset in part by a 37% increase in self-inflicted deaths.

US civilian deaths overseas

The numbers of deaths of US civilians overseas fluctuates from year to year but increased 10% compared to a decade ago, driven by a 52 person or 49% increase in homicides and 13 person or 12% increase in drownings. Of the homicides in 2017, a plurality or 12% occurred in Baja California, Mexico, and of the drownings in 2017, a plurality or 16% occurred in Quintana Roo, Mexico.

Support for veterans

(I. d					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
(In thousands, except percentages or otherwise noted)	2017	2016	2012	2007	2016	2012	2007
Number of veterans	18,205	18,497	21,231	22,892	(2)%	(14)%	(20)%
Rates of veteran:							
Unemployment	4%	4%	7%	4%	—ppt	(3)ppt	—ppt
Poverty	7%	7%	7%	6%	—ppt	—ppt	1ppt
Disability	30%	29%	27%	27%	1ppt	3ppt	3ppt
Number of unique VA patients	6,056	6,016	5,565	5,222	1%	9%	16%

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The number of veterans has decreased consistently over the past decade, while indicators of veteran well-being were mixed.

Veteran unemployment

The veteran unemployment rate has fluctuated year to year, but is flat compared to a decade ago, while overall unemployment has trended downward since 2011. As of 2017, veteran unemployment was generally consistent with overall unemployment. See discussion of overall unemployment at *General Welfare, Economy and Infrastructure, Employment Profile (2017)* below.

Veteran poverty

The veteran poverty rate has not changed materially in the last decade, but overall it is trending higher, despite veteran unemployment being flat and veteran compensation and pension payments increasing. In 2017, the veteran poverty rate was less than the poverty rate of all persons of 12.3%. In 2017:

- female veterans had higher poverty rates than male veterans, including much higher rates for those in the service industry (11% for females and 4% for males);
- disabled female veterans had higher poverty rates than disabled male veterans;

- post-9/11, World War II, and peacetime veterans had higher poverty rates than veterans of earlier conflicts;
- female veterans had lower median household income than male veterans, though the difference is less than \$6,000 per year for veterans between 17 to 34 years old and 55 to 64 years old;
- the lowest poverty rates for male and female veterans were in the Northeast; and
- the rate of veterans in poverty by state/district/territory ranged from 4% in Virginia to 18% in Puerto Rico. The highest rates of veteran poverty were in:
 - Puerto Rico, at 18%, while the overall unemployment rate for the territory was 10.9%;
 - Washington DC, at 13%, while the overall unemployment rate for the district was 6.1% (the 2nd highest in the country);
 - West Virginia at 10%, while the overall unemployment rate for the state was 5.2% (the 4th highest in the country); and
 - Arkansas, Kentucky, Louisiana, Mississippi, and New Mexico, at 9% each, while the overall unemployment rates for the states were 3.7% in Arkansas (the 15th lowest), 4.9% in Kentucky (the 10th highest), 5.1% in Louisiana (the 7th highest), 5.1% in Mississippi (the 6th highest), and 5.9% in New Mexico (the 3rd highest).

Veteran disability

The veteran disability rate has fluctuated year to year and increased in the past decade but is currently roughly the same rate it was in 2000. The most prevalent service-connected disabilities are Tinnitus (the perception of noise or ringing in the ears), hearing loss, and post-traumatic stress disorder (PTSD), which comprised 8%, 5%, and 4%, respectively, of the disabilities of veterans receiving disability compensation at the end of fiscal year 2017.

VA patients

While the overall veteran population declines, the number of unique patients being treated at VA medical centers is increasing. According to the GAO, this is due in part to servicemembers returning from US military operations in Afghanistan and Iraq and the growing needs of an aging veteran population. The proportion of living veterans who served in World War II and the Korean War decreased 9 and 5 percentage points, respectively, while the proportion of living veterans who served in Vietnam and the Gulf War increased 2 and 18 percentage points, respectively, over the past decade.

Immigration and border security

The immigration and border security reporting unit manages the US immigration process, including borders and customs responsibilities.

Authorized entry to the US

(In thousands, except percentages or otherwise noted)	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Naturalizations (citizenship) ¹	707	753	757	660	(6)%	(7)%	7%
Naturalizations as a percentage of attempts (total							
naturalizations and denials)	90%	90%	92%	88%	—ppt	(2)ppt	2ppt
Green Cards (permanent residence) granted ²	1,127	1,184	1,032	1,052	(5)%	9%	7%
Visas granted	9,682	10,381	8,927	6,444	(7)%	8%	50%

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Naturalization is the process by which US citizenship is granted to a foreign citizen or national after he or she fulfills the requirements established by Congress in the Immigration and Nationality Act.

Foreign nationals granted lawful permanent residence

The number of employees working in citizenship and immigration services within the Department of Homeland Security increased 96% over the past decade.

Naturalizations (citizenship)

Naturalization is the way a person not born in the US voluntarily becomes a US citizen. General requirements for naturalization require the applicant to be at least 18 years old at the time of filing, be a permanent resident (have a "Green Card") for at least five years, demonstrate continuous residence in the US for at least five years immediately preceding the date of filing, and be able to read, write, and speak basic English, amongst some of the requirements.

Naturalizations increased in the last decade, as did naturalizations as a percentage of attempted naturalizations. Throughout the periods presented in this report, most people who naturalized were:

- females, including 56% of those who naturalized in 2017;
- 21 years of age or older, including 98% in 2017;
- married, including 65% in 2017;
- working in an unknown occupation, working in management, professional, and related occupations, not working, or working in service occupations, including 30%, 22%, 17%, and 11%, respectively, in 2017; and
- born in Asia or North America, including 36% and 37%, respectively, in 2017.

Green Cards (permanent residence)

A Green Card allows a person to live and work permanently in the US. There are a few eligibility categories that allow an individual to apply for a Green Card: through family, through employment, as a Special Immigrant, for victims of abuse, through registry, and through other categories. Most people who apply for a Green Card will need to complete two forms – an immigrant petition and a Green Card application. Someone else usually must file the petition on behalf of the applicant (e.g. family, spouse, employer).

Green Cards granted followed similar demographic trends as naturalizations. Throughout the periods presented in this report, most people who were granted Green Cards were:

- females, including 54% of those granted Green Cards in 2017;
- 21 years of age or older, including 76% in 2017;
- married, including 58% in 2017;
- either immediate family members (46% in 2017) or otherwise related (21% in 2017) to US citizens; and
- born in Asia or North America, including 38% and 37%, respectively, in 2017.

The categories of Green Card recipients with the largest numerical and percentage growth between 2007 and 2017 were refugees, with growth of 65,414 people or 119%, and "employment creators (investors)," at 1,125% growth or 9,071 people. The categories with the largest numerical and percentage declines between 2007 and 2017 were asylees, declining 55,536 people or 68%, and parolees, declining nearly 99% or 1,973 people.

Visas

The numbers of visas granted increased over the past decade but decreased in 2017. Most visas are granted to temporary visitors for business or pleasure, including 77% of visas granted in 2017. The next largest category of visa recipients are temporary workers and their families, at 9% in 2017, followed closely by students and their families, at 4% in 2017. The category of visa recipients with the largest numerical growth between 2007 and 2017 was temporary visitors for business or pleasure, with growth of 2.9 million people or 65%.

Unauthorized entry to the US

(In thousands, except percentages, rates, or otherwise noted)	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
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Border apprehensions of illegal aliens	311	416	365	877	(25)%	(15)%	(65)%
Rate of apprehensions per attempted crossing (apprehensions							
plus estimated undocumented population)	na	na	3%	7%	na	na	na
Persons removed or returned ¹	396	440	647	1,211	(10)%	(39)%	(67)%
Rate of those removed or returned per estimated							
undocumented person in the population	na	na	6%	10%	na	na	na
Persons removed or returned with a prior criminal conviction	121	136	200	102	(11)%	(40)%	19%
Rate of those removed or returned that had a prior							
criminal conviction	31%	31%	31%	8%	—ppt	—ppt	22ppt

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The number of employees working in immigration and customs enforcement and in customs and border protection, within the Department of Homeland Security, increased 20% and 28%, respectively, over the past decade. The number of border agents increased 30% nationwide and 25% at the southwest US border over the past decade.

Border apprehensions

Border apprehensions have decreased over the past decade. Nearly all (98% in 2017) border apprehensions occur at the southwest border of the US, and roughly half (42% in 2017) of all illegal aliens apprehended are from Mexico. However, over the last decade, the number of illegal aliens apprehended from Mexico has decreased 84%, while the number illegal aliens apprehended from other locations has increased 165%.

Persons removed or returned

The number of persons removed or returned decreased 67% over the past decade. Of those removed in 2017: 65% were Mexican nationals, of whom 45% had a prior criminal conviction; 11% were Guatemalan nationals, of whom 34% had a prior criminal conviction; and 8% were Honduran nationals, of whom 42% had a prior criminal conviction. Of those returned in 2017: 63% were from North America, including 40% from Mexico and 18% from Canada, and 21% were from Asia, including 7% from the Philippines and 5% from China.

na An "na" reference in the table means the data is not available.

Removals are the compulsory and confirmed movement of an inadmissible or deportable alien out of the US based on an order of removal. An alien who is removed has administrative or criminal consequences placed on subsequent reentry owing to the fact of the removal. Returns are the confirmed movement of an inadmissible or deportable alien out of the US not based on an order of removal.

Estimated unauthorized immigrant population in the US

	2000	2005	2010	2010 ¹	2011 ²	2012 2	2013 ²	2014 2	2015 ²
Unauthorized immigrants †									
Estimated population (in thousands)	8,460	10,490	10,790	11,590	11,510	11,430	11,210	11,460	11,960
Period of entry									
1980 to 1984	na	10.0%	7.9%	na	7.4%	7.8%	na	na	na
1985 to 1989	na	11.1%	10.8%	na	9.3%	9.7%	na	na	na
1990 to 1994	na	19.9%	15.5%	na	14.3%	15.0%	na	na	na
1995 to 1999	na	29.8%	27.1%	na	26.3%	25.5%	na	na	na
2000 to 2004	na	29.2%	29.6%	na	28.9%	28.4%	na	na	na
2005 to 2011	na	—%	9.2%	na	13.7%	13.5%	na	na	na
Age and gender									
Male	na	na	57.0%	na	53.3%	53.4%	na	na	52.6%
Female	na	na	43.0%	na	46.7%	46.6%	na	na	47.4%
Under 18 years	na	na	11.4%	na	11.7%	9.8%	na	na	8.7%
18 to 24 years	na	na	12.0%	na	14.0%	12.3%	na	na	9.5%
25 to 34 years	na	na	35.1%	na	32.4%	32.0%	na	na	29.5%
35 to 44 years	na	na	27.7%	na	26.6%	29.0%	na	na	30.2%
45 to 54 years	na	na	10.2%	na	11.2%	12.2%	na	na	15.1%
55+years	na	na	3.6%	na	4.1%	4.5%	na	na	7.0%
Country of birth									
Mexico	55.3%	56.9%	61.5%	58.3%	59.5%	58.8%	57.5%	56.3%	55.0%
El Salvador	5.1%	4.5%	5.7%	5.7%	5.8%	6.0%	6.2%	5.8%	6.3%
Guatemala	3.4%	3.5%	4.8%	4.4%	4.5%	4.9%	5.3%	5.4%	5.2%
Honduras	1.9%	1.7%	3.1%	3.2%	3.3%	3.1%	3.5%	3.4%	3.7%
Philippines	2.4%	2.0%	2.6%	2.5%	2.4%	2.7%	3.0%	2.9%	3.1%
India	1.4%	2.7%	1.9%	2.3%	2.1%	2.3%	2.9%	3.4%	3.9%
Korea	2.1%	2.0%	1.6%	1.9%	2.0%	2.0%	2.2%	2.1%	1.9%
China	2.2%	2.2%	1.2%	2.6%	2.4%	1.8%	1.7%	2.0%	2.7%
Other countries	26.1%	24.5%	17.6%	19.0%	17.9%	18.3%	17.7%	18.7%	18.3%

[†] The most recent data available from our Government is shown in this table. Additional years of key metrics data not shown in this table may be found on our website. Click "More detail" to access it.

Due to a change in methodology, we are not able to compare the estimated undocumented population consistently across all periods presented in this report. However, the estimated undocumented population has increased, with a shift in the mix of immigrants towards older people and countries of birth other than Mexico.

The unauthorized resident immigrant population is defined as all foreign-born non-citizens who are not legal residents and calculated as: the legally resident population (includes all persons who were granted lawful permanent residence; granted asylum; admitted as refugees; or admitted as nonimmigrants for a temporary stay in the US and not required to leave by January of the respective year) on January 1 of the respective year less the total foreign-born population living in the US on the same date. Under section 249 of the Immigration and Nationality Act (INA), the registry provision, qualified persons who have resided continuously in the US since prior to January 1, 1972 may apply for legal permanent resident (LPR) status. Additionally, persons who had resided continuously in the US since prior to January 1, 1982 as unauthorized residents were eliqible to adjust for LPR status under the Immigration Reform and Control Act (IRCA) of 1986.

na An "na" reference in the table means the data is not available.

¹ Revised by DHS to be consistent with estimates derived from the 2010 Census.

² 2011-2015 estimates should not be compared with DHS estimates previously released for 2000-2010 due to the use of the 2010 Census population estimates versus the 2000 Census population estimates. A revision for 2010 to be consistent with the 2010 Census has been provided by DHS.

Other border security

(In thousands, except percentages, rates, or otherwise noted)	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Intellectual property seizures ¹	34	32	23	14	6%	48%	143%
Intellectual property seizures per 100 border agents	175	161	108	94	9%	62%	86%
Drugs seized at the border coming into the US (kgs)	618	869	1,316	na	(29)%	(53)%	na
Airport firearm discoveries (actual)	3,957	3,391	1,556	803	17%	154%	393%

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Intellectual property seizures

Intellectual property seizures have more than doubled over the last decade, and the average border agent is seizing more goods. There have been changes in the sources and nature of the goods seized:

- Country of origin China and Hong Kong were consistently the top two sources of goods seized during the periods of this report, while many of the other originators have changed; four of the top 10 originators in 2007 were not among the top 10 in 2017. In 2017, most seized goods originated in China or Hong Kong, including 46% and 32%, respectively, of the value of goods seized. In 2007, 80% of the value of goods seized originated in China, while the second highest originator was Hong Kong at 6% of the value seized.
- Commodities seized In 2017, the aggregate Manufacturer's Suggested Retail Price (MSRP) of intellectual property seizures was \$1.2 billion, compared to \$0.2 billion in 2007. The top (those 7% or more of aggregate MSRP) commodities seized were watches/jewelry (38% of aggregate MSRP), handbags/wallets (19%), consumer electronics/parts (7%), and labels/tags (7%). In 2007, the top commodities seized were footwear (40% of aggregate MSRP), wearing apparel (14%), consumer electronics (8%), handbags/wallets/backpacks (7%), and watches/parts (7%).

The increase in the MSRP of seizures of the top commodities over the past decade was six-fold the increase in paid consumption of these goods. Paid consumption of jewelry and watches; luggage and similar personal items; clothing and footwear; and audio-video, photographic, and information processing equipment and media increased 7%, 21%, 16%, and 56%, respectively, in the past decade.

Drug seizures

We do not have border drug seizures data for periods prior to 2012. However, for the periods for which do have data, total kilograms of drugs seized at the border have declined, reflecting decreased seizures of marijuana, offset in part by increased seizures of methamphetamine. The decline in marijuana seizures began in 2014, when kilograms seized decreased 19% from the prior year. Recreational use of marijuana was legalized in Colorado and Washington states in 2012. Six additional states, and the District of Columbia, legalized recreational use of marijuana from 2012-2017.

Airport firearm discoveries

Firearm discoveries at Transportation Security Administration airport checkpoints have consistently increased each year. In 2017, discoveries were made at 239 airports, with the greatest numbers discovered at Hartsfield-Jackson Atlanta International Airport and Dallas/Fort Worth International Airport at 245 and 211 discoveries, respectively. Of the overall number of firearms discovered in 2017, 84% were loaded.

na An "na" reference in the table means the data is not available.

Products that are seized because they infringe on US trademarks, copyrights, and patents.

Foreign affairs and foreign aid

The foreign affairs and foreign aid reporting unit aims to support American interests and values around the world through diplomacy.

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
	2017	2010	2012	2007	2010	2012	2007
Number of valid passports in circulation (in thousands)	136,114	131,841	113,432	82,101	3%	20%	66%
Foreign aid obligations by type (in millions):							
Governance	\$ 19,269	\$ 19,038	\$ 24,257	\$ 18,666	1%	(21)%	3%
Health and population	\$ 9,766	\$ 12,053	\$ 9,675	\$ 5,728	(19)%	1%	70%
Humanitarian	\$ 8,494	\$ 6,936	\$ 4,350	\$ 3,233	22%	95%	163%
Infrastructure	\$ 722	\$ 1,272	\$ 1,449	\$ 3,592	(43)%	(50)%	(80)%
Other	\$ 7,512	\$ 8,016	\$ 7,997	\$ 6,976	(6)%	(6)%	8%

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

The number of passports in circulation has increased consistently, outpacing the rate of population growth. We are not aware of a government source for data on where Americans are traveling with their passports.

Aid by category

Foreign aid has increased over the past decade in nearly all major categories shown, with growth in health and population and humanitarian aid outpacing inflation. According to the Congressional Research Service (CRS), "Adjusted for inflation, annual foreign assistance funding over the past decade was the highest it has been since the Marshall Plan in the years immediately following World War II. Key foreign assistance trends in the past decade include growth in development aid, particularly global health programs; increased security assistance directed toward U.S. allies in the antiterrorism effort; and high levels of humanitarian assistance to address a range of crises."

The only major category of aid shown that declined over the past decade was infrastructure aid. According to CRS, "The [infrastructure] aid programs in Iraq and Afghanistan supported the building of schools, health clinics, roads, power plants, and irrigation systems.... The Afghanistan Infrastructure Fund... wound down as the U.S. military presence in that country declined... In Iraq alone, more than \$10 billion went to economic infrastructure. Economic infrastructure is now also supported by U.S. assistance in a wider range of developing countries through the Millennium Challenge Corporation. In this case, recipient countries design their own assistance programs, most of which, to date, include an infrastructure component."

Aid by country

By country, the recipient of the greatest amount of aid in 2017 was Afghanistan at \$5.7 billion, followed by Iraq at \$3.7 billion. Aid to Afghanistan increased significantly (453%) in 2002, generally grew annually from there, peaked at \$13.4 billion in 2011 and has generally declined since, though it increased 12% in 2015 before declining and then increasing again by 13% in 2017.

According to CRS, "In FY2017, Afghanistan, Iraq, Israel, Jordan, and Egypt received the largest amounts of U.S. aid, reflecting long-standing aid commitments to Israel and Egypt, the strategic significance of Afghanistan and Iraq, and the strategic and humanitarian importance of Jordan as the crisis in neighboring Syria continues. The Near East received 27% of aid allocated by country or region in FY2017, followed by Africa, at 25%, and South and Central Asia, at 15%. This was a significant shift from a decade prior, when Africa received 19% of aid and the Near East 34%, reflecting significant increases in HIV/AIDS-related programs concentrated in Africa between FY2007 and FY2017 and the drawdown of U.S. military forces in Iraq and Afghanistan. Military assistance to Iraq began to decline starting in FY2011, but growing concern about the Islamic State in Iraq and Syria (ISIS) has reversed this trend."

Aid to Israel has been relatively steady over the past 30 years, exceeding \$2 billion in 1981 and remaining between \$2 billion and \$4 billion annually since. Through 2017, according to the Congressional Research Service, "Israel is the largest cumulative recipient of U.S. foreign assistance since World War II. To date, the United States has provided Israel \$142.3 billion (current, or noninflation-adjusted, dollars) in bilateral assistance and missile defense funding. Almost all U.S. bilateral aid to Israel is in the form of military assistance, although from 1971 to 2007 Israel also received significant economic assistance... In 2016, the U.S. and Israeli governments signed a new 10-year Memorandum of Understanding (MOU) on military aid, covering FY2019 to FY2028. Under the terms of the MOU, the United States pledges to provide \$38 billion in military aid...to Israel. This MOU replaced a previous \$30 billion 10-year agreement, which ran through FY2018. The United States and Israel have maintained strong bilateral relations based on a number of factors, including robust domestic U.S. support for Israel and its security; shared strategic goals in the Middle East; a mutual commitment to democratic values; and historical ties dating from U.S. support for the creation of Israel in 1948. U.S. foreign aid has been a major component in cementing and reinforcing these ties."

General Welfare (GW)

This segment works to promote the general welfare of the US population. Its reporting units are economy and infrastructure, standard of living and aid to the disadvantaged, and health. Overall, the long-term trend for the periods presented shows we:

- **made meaningful progress** on growing our economy as measured by increases in GDP, the S&P 500 index, private investment, the annual change in the number of businesses, the federal minimum wage, and decreases in our overall net trade deficit and business bankruptcy filings;
- saw no meaningful movement in other metrics related to our economy, including the numbers of businesses less than one year old, homeownership rates and home and rental vacancy rates, numbers of people in subsidized housing, overall employment, the number of workers at or below minimum wage, the median annual wage and household consumption adjusted for inflation, numbers of non-business bankruptcies, the overall poverty rate, and the condition of our transportation infrastructure, as well as certain health indicators, such as deaths from circulatory diseases and cancer, life expectancy at birth, and average age at death; and
- **regressed notably** in the numbers of new home sales, the cost of rent, and bank failures, as well as multiple health related factors, including rates of obesity, the cost of healthcare, and deaths from accidents, mental illness, drugs, firearms, and respiratory diseases.

Shorter-term trends may differ.

Economy and infrastructure

The economy and infrastructure reporting unit seeks to encourage economic growth and development, and to limit economic volatility. It also works to ensure there are jobs for those who can work and to maintain minimum wages.

Economy

Investment, Gross Domestic Product (GDP), and trade

(In thousands, except percentages, rates, or otherwise					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
noted)	2017	2016	2012	2007	2016	2012	2007
Investment and GDP							
S&P 500 (end of December) (actual)	2,674	2,239	1,426	1,468	19%	88%	82%
S&P 500 adjusted for inflation (base 2017)	2,674	2,287	1,522	1,735	17%	76%	54%
Private fixed investment (in billions) ¹	\$ 3,343 \$	3,141	\$ 2,551	2,639	6%	31%	27%
Residential	\$ 755 \$	699	\$ 432 \$	690	8%	75%	9%
Nonresidential	\$ 2,588 \$	2,442	\$ 2,119	1,949	6%	22%	33%
Private fixed investment per capita	\$ 10,287 \$	9,726	\$ 8,129 \$	8,761	6%	27%	17%
Private fixed investment adjusted for inflation (base 2017)	\$ 3,343 \$	3,208	\$ 2,724 \$	3,120	4%	23%	7%
GDP (calendar year) (in billions)	\$ 19,519 \$	18,715	\$ 16,197	14,452	4%	21%	35%
GDP (in billions) adjusted for inflation (base 2017, using							
GDP deflator)	\$ 19,519 \$	19,071	\$ 17,484	16,868	2%	12%	16%
GDP per capita	\$ 60,061 \$	57,952	\$ 51,611	47,976	4%	16%	25%
Trade							
Annual goods, services, and income trade by largest surplus							
(deficit) between the US and other countries (in millions):	\$ (439,646) \$	(428,349)	\$ (426,832) \$	(711,035)	3%	3%	(38)%
China	\$ (358,080) \$	(331,522)	\$ (328,261) \$	(296,255)	8%	9%	21%
Netherlands	\$ 97,929 \$	88,875	\$ 82,113	43,072	10%	19%	127%
Mexico	\$ (81,480) \$	(78,647)	\$ (65,314) \$	(83,582)	4%	25%	(3)%
Japan	\$ (78,397) \$	(74,063)	\$ (91,630)	(108,004)	6%	(14)%	(27)%
Other	\$ (19,618) \$	(32,992)	\$ (23,740) \$	(266,266)	(41)%	(17)%	(93)%

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S&P 500

The S&P 500 peaked in 2007, dropped and bottomed out in 2009 in connection with the Great Recession, and began climbing again, surpassing its pre-recession value in 2013, and increasing for the rest of the decade.

Private fixed investment

Private fixed investment followed the same trend. Over the past decade, private fixed investment increased 33% in nonresidential investments, while residential investments increased 9%. Within nonresidential, the largest increases were in intellectual property, which increased \$307 billion or 56%, followed by equipment, which increased \$257 billion or 29% over the past decade. Within residential, the largest dollar and percentage increase was in non-permanent structures, which increased \$86 billion or 26%, offset in part by a decrease in single family residential structures, which decreased \$35 billion or 11%.

Private fixed investment (PFI) measures spending by private businesses, nonprofit institutions, and households on fixed assets in the US economy. Fixed assets consist of structures, equipment, and software that are used in the production of goods and services. PFI encompasses the creation of new productive assets, the improvement of existing assets, and the replacement of worn out or obsolete assets.

GDP

Gross domestic product (GDP) has grown over the past decade, even when adjusted for inflation and population. By industry, the largest increases were in: finance, insurance, real estate, rental, and leasing (up \$1.2 trillion or 43%); professional and business services (up \$760 billion or 46%); educational services, healthcare, and social assistance (up \$612 billion or 57%); and government (up \$567 billion or 31%). The lowest growth was in construction (up \$66 billion or 9%). Mining declined \$45 billion or 16%, the only decline in the major industry categories.

Trade

The US has an overall net trade deficit with other countries, comprising largely a deficit with China. China accounted for 81% of our overall net trade deficit in 2017, made up mostly of a deficit in the trading of goods. The country with whom we had the largest trade surplus in 2017 was the Netherlands. The majority of that surplus comprised a surplus of income, meaning Americans earned more income in the Netherlands than the Dutch earned in the US.

Businesses

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
(In thousands, except percentages, rates, or otherwise noted)	2017	2016	2012	2007	2016	2012	2007
Businesses							
Establishments less than one year old	733	733	632	704	—%	16%	4%
Net change in establishments (number of openings less closings)	106	136	119	85	(22)%	(11)%	25%
Bankruptcy filings	791	806	1,261	801	(2)%	(37)%	(1)%
Business bankruptcy filings	23	24	42	26	(4)%	(45)%	(12)%
Business bankruptcy filings per 10,000 businesses	39	41	73	43	(5)%	(47)%	(9)%
Non-business bankruptcy filings	768	781	1,219	775	(2)%	(37)%	(1)%
Non-business bankruptcy filings per 100,000 adults	305	313	508	341	(3)%	(40)%	(11)%
Bank failures	8	5	51	3	60%	(84)%	167%
Bank failures per 100,000 banks	141	85	720	35	66%	(80)%	303%

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Businesses

Establishments less than one year old and net changes in establishments vary from year to year and decreased in and around the Great Recession. Between 2006 and 2014, the latest year for which the data is available, the service industry had the largest increase in the number of firms, at 286 thousand or 13%, and the agricultural services, forestry, and fishing industry had the largest rate of increase in the number of firms, at 25% or 27 thousand, while the construction industry had the largest decrease and rate of decrease in the number of firms, at 127 thousand or 24%.

Bankruptcy filings

Bankruptcy filings have decreased over the past decade, both business and non-business. Bank failures increased from 2007 to 2012 when they peaked in frequency and declined until 2017 when they increased again.

Housing

(In thousands, except percentages, rates, or otherwise noted)	2	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Homeownership rate (inverse is rental rate)		64%	64%	66%	68%	—ppt	(2)ppt	(4)ppt
Homeowners								
New home sales		613	561	368	776	9%	67%	(21)%
New home sales per 100,000 adults		244	225	153	342	8%	59%	(29)%
Median new home price	\$	323	\$ 308	\$ 245	\$ 248	5%	32%	30%
Median home price adjusted for inflation (base 2017)	\$	323	\$ 315	\$ 262	\$ 293	3%	23%	10%
Median new home size (sq ft)	2	2,457	2,466	2,390	2,235	—%	3%	10%
Median new home lot size (sq ft)	8	3,431	8,428	8,577	8,991	—%	(2)%	(6)%
Vacancy rates ¹		3%	3%	5%	6%	—ppt	(2)ppt	(3)ppt
Renters								
Median gross rent (actual)	\$ 1	1,012	\$ 981	\$ 884	\$ 789	3%	14%	28%
Median gross rent adjusted for inflation (base 2017)	\$ 1	1,012	\$ 1,002	\$ 944	\$ 933	1%	7%	8%
Vacancy rates ¹		8%	7%	9%	10%	1ppt	(1)ppt	(2)ppt

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Rates of homeownership have decreased over the past decade while rates of renting a home have increased. This is true across all major regions of the US.

Homeowners

New home sales peaked in 2005, bottomed out in 2011 after a 76% decline from the peak amidst the Great Recession, and have been increasing annually since, yet have not reached pre-recession levels. In the past decade, the largest decline in units of new homes sold was in the South (72 thousand homes), while the largest rate of decline (39%) was in the Midwest. Between 2012 and 2017, increases in new home sales were greatest in the South (144 thousand homes), which also had the fastest growth rate (74%).

The median price of a new home followed a similar pattern as new home sales, decreasing during the Great Recession and increasing since, and surpassing pre-recession highs in 2013. In the past decade, the largest dollar and rate increase in median sales price was in the Northeast (\$170,200 or 53% increase).

The median size of new homes sold increased 10% over the past decade, with increases in all major regions of the US, while the median lot size of new homes sold decreased 6%, with decreases in all major regions. Vacancy rates for homeowner units decreased 3 percentage points over the past decade. Among the groupings reported, houses with 2 or more units had the highest vacancy rates in 2017, higher than both those with 1 unit and with 5 or more units.

Renters

Median gross rents increased for each of the periods presented. Median gross rent was \$1,012 in 2017, up 8% from a decade ago after adjusting for inflation. In the past decade, the largest dollar and rate increase in median gross rents was in the West (up \$314 or 33%). By State or territory, the District of Columbia had the largest dollar and rate increase (up \$565 or 60%), while Puerto Rico had the lowest dollar increase (up \$61) and Nevada had the lowest rate increase (up 7%). Vacancy rates for rental units decreased 2 percentage points over the past decade. Among the groupings reported, rentals with 5 or more units had the highest vacancy rates, higher than both those with 1 unit and with 2 or more units.

Vacancy rates are from the Current Population Survey/Housing Vacancy Survey and represent the unweighted average of vacancy rates for housing with 1 unit, 2 or more units, and 5 or more units.

Jobs and wages

(In thousands, except percentages, rates, or otherwise noted)	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Total working age employment ¹	144,103	142,520	135,224	140,433	1%	7%	3%
Jobs per person in working age population (ages 16-64) ²	0.69	0.68	0.66	0.71	1%	5%	(3)%
Total senior employment ¹	9,234	8,916	7,245	5,614	4%	27%	64%
Jobs per person in senior population (ages 65+) ²	0.19	0.19	0.18	0.15	—%	6%	27%
Median annual wage (actual)	\$ 37,690	\$ 37,040	\$ 34,750	\$ 31,410	2%	8%	20%
Median annual wage adjusted for inflation (2017 base)	\$ 37,690	\$ 37,744	\$ 37,512	\$ 36,661	—%	-%	3%
Workers at or below minimum wage	1,824	2,153	3,550	1,729	(15)%	(49)%	5%
Workers at or below minimum wage per 1,000 hourly employees	23	27	47	na	(15)%	(51)%	na
Federal minimum wage per hour	\$ 7.25	\$ 7.25	\$ 7.25	\$ 5.15	—%	—%	41%
Federal minimum wage per hour adjusted for inflation (2017 base)	\$ 7.25	\$ 7.39	\$ 7.83	\$ 6.01	(2)%	(7)%	21%

[†] We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

<u>Jobs</u>

Total working age employment increased during the periods presented in this report but has not kept pace with growth in the working age population; over the past decade, total working age employment increased 3% while the working age population increased 6%, resulting in a decrease of 3% in jobs per person of working age. Over this same time period, however, total senior employment increased 64% while the senior population increased 34%, resulting in an increase of 27% in jobs per senior.

Demographically:

- *Gender* The number of employed women increased more over the past decade (up 6% to 72 million workers) than did the number of employed men (up 4% to 81 million workers).
- Race and ethnicity The number of employed Asian people increased at the greatest rate (up 38% to 9 million workers) followed closely by Hispanic people (up 27% to 26 million workers), while the number of employed white people increased less than 1% (to 120 million workers).
- Type of job The number of jobs increased the most in the food preparation and serving related, personal care and service, healthcare practitioners and technical, business and financial operations, management, and computer and mathematical fields (each adding more than 1 million jobs in a decade), while the number of jobs decreased the most in office and administrative support and in production (each losing more than 1 million jobs). Production jobs include but are not limited to: assemblers and fabricators; food processing workers; metal workers and plastic workers; printing, textile, apparel, and furnishings workers; and woodworkers.

Wages

The median annual wage increased across all job categories over the past decade and outpaced inflation by 3%. By job:

- The largest unadjusted dollar increase in median annual wages was in management jobs, increasing \$18,150 a year or 21% to \$102,590.
- The largest unadjusted percentage increase in median annual wages was in farming, fishing, and forestry, increasing 31% or \$5,800 a year to \$24,390.
- The smallest unadjusted dollar and percentage increase in median annual wages was in sales and related, increasing \$3,280 a year or 14% to \$27,020.

^{na} An "na" reference in the table means the data is not available.

¹ Total working age employment is from the current population survey (CPS) and represents average annual national non-farm employment.

² Total working age employment divided by the working age population of the US.

The job category with the highest median annual wage is management, at \$102,590 in 2017. The job category with the lowest median annual wage is food preparation and serving related, at \$21,910 in 2017.

The number of workers paid at or below minimum wage increased 5% over the past decade, which was in line with growth in total employment (5%) and the working age population (6%). However, the federal minimum wage per hour increased at a rate (41%) greater than that of median annual wages (20%), pre- and post-inflation. As of January 1, 2017, the District of Columbia and 28 states had higher minimum wages than the federal minimum wage, up to \$11.50 per hour in the District of Columbia. Five states had no state level minimum wage.

Employment Profile (2017)

We also analyze employment by family and individual units (FIUs) and income cohort. See *Part I, Item 1. Purpose and Function of Our Government, Customers, Cohorts of our population* of this report for a discussion of FIUs and income cohorts. An important thing to note when viewing the table below is that the income cohorts are based on average total Market Income, which equals the sum of average: wages and salaries, supplements to wages and salaries, self-employment income, interest income, rental income, S-Corporation income, dividend income, capital gains income, net retirement income, and other market income. Therefore, an FIU can be counted as unemployed in the table below but still have income.

	16 + Population (in K)	Employed (in K)	Not Participating (in K)	Unemployed (in K)	Employment- Population Ratio	Labor Force Participation Rate Unemployment Rate		Avg. Number of Hours Worked per Week per Unit		r % of Units with #		
Family and Individual Unit Sub Group /Income %	16 + Popu	Empl	Not P (in K)	Unem (in K)	Empl Popu	Labo Parti	Unen Rate	Primary Earners	All Earners	0 Earners	1 Earner	2 Earners
All Family and Individual Units	261,218	155,031	99,324	6,863	59.3%	62.0%	4.2%	35.6	39.2	28%	50%	22%
Bottom 5% (\$0)	5,911	413	5,260	238	7.0%	11.0%	36.6%	_	_	100%	—%	%
Bottom 5%-20% (\$0-\$10K)	29,813	7,988	20,603	1,222	26.8%	30.9%	13.3%	8.4	9.0	65%	34%	1%
Second 20% (\$10K-\$34K)	43,502	21,222	20,898	1,382	48.8%	52.0%	6.1%	22.7	24.9	35%	61%	4%
Middle 20% (\$34K-\$66K)	49,184	29,951	17,903	1,331	60.9%	63.6%	4.3%	35.3	38.6	18%	71%	11%
Fourth 20% (\$66K-\$122K)	59,680	42,194	16,211	1,274	70.7%	72.8%	2.9%	49.8	55.1	9%	55%	36%
Top 2%-20% (\$122K-\$748K)	65,905	49,658	14,994	1,253	75.3%	77.2%	2.5%	62.8	70.0	6%	34%	60%
Top 1% (\$748K+)	3,471	2,504	909	58	72.1%	73.8%	2.3%	61.8	67.6	5%	39%	56%
Married No Kids	57,958	40,813	15,776	1,369	70.4%	72.8%	3.2%	59.9	66.0	9%	29%	62%
Bottom 5%	382	31	343	8	8.1%	10.2%	20.6%	_	_	100%	—%	—%
Bottom 5%-20%	2,565	729	1,757	80	28.4%	31.5%	9.9%	16.9	17.7	55%	34%	11%
Second 20%	3,812	1,620	2,074	118	42.5%	45.6%	6.8%	30.0	32.8	29%	49%	22%
Middle 20%	7,614	4,341	3,036	238	57.0%	60.1%	5.2%	45.9	49.7	11%	48%	41%
Fourth 20%	16,617	12,458	3,763	396	75.0%	77.4%	3.1%	63.6	68.8	2%	31%	67%
Top 2%-20%	25,031	20,489	4,043	499	81.9%	83.8%	2.4%	74.0	82.8	1%	17%	81%
Top 1%	1,221	935	268	18	76.6%	78.1%	1.9%	69.3	76.8	2%	27%	71%
Married Parents	63,846	43,422	19,026	1,398	68.0%	70.2%	3.1%	63.9	67.8	2%	32%	66%
Bottom 5%	143	21	119	3	14.9%	17.2%	13.5%	_	_	100%	—%	—%
Bottom 5%-20%	1,940	760	1,104	76	39.2%	43.1%	9.1%	25.9	27.1	31%	54%	15%
Second 20%	4,442	2,334	1,945	164	52.5%	56.2%	6.6%	42.8	45.4	6%	62%	32%
Middle 20%	9,549	5,567	3,689	294	58.3%	61.4%	5.0%	53.0	56.1	1%	53%	46%
Fourth 20%	20,155	14,175	5,560	420	70.3%	72.4%	2.9%	66.2	70.1	—%	29%	71%
Top 2%-20%	25,819	19,354	6,056	410	75.0%	76.5%	2.1%	73.5	78.1	—%	19%	81%
Top 1%	1,400	1,002	381	16	71.6%	72.8%	1.6%	72.0	75.3	—%	26%	74%

	16 + Population (in K)	Employed (in K)	Not Participating (in K)	Unemployed (in K)	Employment- Population Ratio	Population Katio Labor Force Participation Rate Unemployment		r Force cipation nployme		Avg. Number of Hours Worked per Week per Unit			Units w mary Ea	
Family and Individual Unit Sub Group /Income %	16 + Popu	Empl	Not P (in K)	Unem (in K)	Empl Popu	Labo Parti	Unen Rate	Primary Earners	All Earners	0 Earners	1 Earner	2 Earners		
Single No Kids	61,607	44,020	15,352	2,236	71.5%	75.1%	4.8%	29.4	32.4	21%	79%	— %		
Bottom 5%	2,780	253	2,386	141	9.1%	14.2%	35.7%	_	_	100%	—%	—%		
Bottom 5%-20%	10,905	4,489	5,842	575	41.2%	46.4%	11.4%	11.1	11.6	51%	49%	—%		
Second 20%	15,060	10,929	3,557	574	72.6%	76.4%	5.0%	29.0	30.8	17%	83%	—%		
Middle 20%	15,329	13,288	1,581	460	86.7%	89.7%	3.3%	38.9	41.9	4%	96%	—%		
Fourth 20%	10,945	9,819	864	262	89.7%	92.1%	2.6%	41.3	47.2	2%	98%	—%		
Top 2%-20%	5,395	4,705	511	178	87.2%	90.5%	3.6%	42.6	51.6	2%	98%	—%		
Top 1%	227	191	21	15	84.1%	90.9%	7.4%	42.0	48.3	4%	96%	—%		
Single Parents	21,437	12,307	7,973	1,158	57.4%	62.8%	8.6%	26.8	30.3	25%	75%	-%		
Bottom 5%	929	89	763	77	9.6%	17.9%	46.4%	_	_	100%	%	—%		
Bottom 5%-20%	3,832	1,121	2,340	371	29.3%	38.9%	24.9%	7.2	8.0	63%	37%	—%		
Second 20%	5,962	3,727	1,886	349	62.5%	68.4%	8.6%	30.0	32.1	9%	91%	—%		
Middle 20%	5,749	3,975	1,571	202	69.1%	72.7%	4.8%	38.6	42.4	2%	98%	—%		
Fourth 20%	3,351	2,449	815	87	73.1%	75.7%	3.4%	40.5	49.7	1%	99%	—%		
Top 2%-20%	1,210	819	349	42	67.7%	71.2%	4.8%	41.6	53.8	2%	98%	—%		
Top 1%	39	21	18	_	53.1%	53.9%	1.4%	41.5	47.2	1%	99%	—%		
Elderly (age 65+)	56,369	14,469	41,197	703	25.7%	26.9%	4.6%	11.1	14.0	70%	23%	6%		
Bottom 5%	1,677	19	1,650	9	1.1%	1.7%	32.7%	_	_	100%	—%	—%		
Bottom 5%-20%	10,570	900	9,559	121	8.4%	9.6%	12.0%	2.2	2.7	89%	11%	1%		
Second 20%	14,225	2,612	11,436	177	18.4%	19.6%	6.3%	5.6	8.0	79%	19%	2%		
Middle 20%	10,943	2,780	8,026	137	25.4%	26.7%	4.7%	10.1	13.7	70%	25%	4%		
Fourth 20%	8,612	3,293	5,210	109	38.2%	39.5%	3.2%	20.5	25.3	50%	39%	12%		
Top 2%-20%	8,450	4,290	4,035	124	50.8%	52.2%	2.8%	32.7	39.4	33%	42%	25%		
Top 1%	584	355	221	8	60.8%	62.2%	2.3%	43.2	50.2	22%	42%	36%		

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In 2017, of the 261.2 million FIUs age 16 and older:

- 155.0 million FIUs or 59.3% of FIUs were employed (including the self-employed);
- 99.3 million FIUS or 38.0% were not participating in the workforce (neither employed nor actively looking for work); and
- 6.9 million FIUs or 2.6% were unemployed (not employed and had been actively looking for a job for the prior four weeks). The 4.2% unemployment rate shown in the cohort table above is different from this rate, as the rate in the table above represents the unemployed divided by the labor force (those employed and unemployed, excluding those not participating) rather than being divided by all FIUs age 16 and older.

Employed

By family type

Of the 155.0 million FIUs that were employed in 2017, the families without children had the highest employment rates. By family type:

- 40.8 million FIUs or 70% of the married without kids FIUs were employed;
- 43.4 million FIUs or 68% of the married parent FIUs were employed;
- 44.0 million FIUs or 71% of the single without kids FIUs were employed;
- 12.3 million FIUs or 57% of the single parent FIUs were employed; and
- 14.5 million FIUs or 26% of the elderly FIUs were employed.

By income cohort and disability status

Generally, the percentage of FIUs employed increase as we move up the income cohorts; the employment rate climbs from 7.0% in the lowest 5% income cohort to 75.3% in the second highest cohort, and then declines to 72.1% for the top 1% cohort. Of the working age population that was employed in 2017, 3% had a disability.

Not participating (not working, not looking)

By family type

Of the 99.3 million FIUs that were not participating in the workforce in 2017, a plurality (41.2 million FIUs or 41%) were elderly (age 65 and older). The remainder was, by family type:

- 15.8 million married without kids FIUs (27% of their family type) or 16% of the FIUs aged 16 and older that were not participating;
- 19.0 million married parent FIUs (30% of their family type) or 19% of those not participating;
- 15.4 million single without kids FIUs (25% of their family type) or 15% of those not participating; and
- 8.0 million single parent FIUs (37% of their family type) or 8% of those not participating.

By income cohort and disability status

Generally, the rates of FIUs not participating in the labor force decrease as we move up the income cohorts; the rate of those not participating decreases from 89.0% in the lowest 5% income cohort until it reaches 22.8% in the second highest income cohort, and then increases to 26.2% for the top 1% cohort. Of the working age population that was not participating in 2017, 19% had a disability.

Unemployed (not working, actively looking)

By family type

A third of the 6.9 million FIUs who were unemployed were single without kids, while the elderly comprised the fewest number of FIUs unemployed. By family type:

- 1.4 million FIUs or 20% of the FIUs aged 16 and older that were unemployed were married without kids;
- 1.4 million or 20% were married parents;
- 2.2 million or 33% were single without kids;
- 1.2 million or 17% were single parents; and
- 0.7 million or 10% were elderly.

By income cohort and disability status

Generally, the rate of FIUs unemployed decreases as we move up the income cohorts; the unemployment rate (the percentage of the FIUs age 16 and older that are unemployed) increases from 4.0% for the lowest 5% income cohort to 4.1% for the second lowest income cohort, and then decreases for each cohort through the top 1% cohort where the unemployment rate is 1.7%. Of the working age population that was unemployed in 2017, 7% had a disability.

Workweek

In 2017, the workweek averaged 39.2 hours for all FIUs. The number of hours in a workweek generally rises with incomes, ranging from zero for the bottom 5% income cohort to 70.0 hours among the second highest cohort, and then decreasing to 67.6 hours for the top 1% income cohort. There may be multiple people in an FIU who work, so this is not the number of hours worked by each individual.

Transportation infrastructure

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
(In thousands, except percentages)	2017	2016	2012	2007	2016	2012	2007
Percentage of roads in unsatisfactory condition by type:							
Interstates ¹	3%	3%	3%	3%	—ppt	—ppt	—ppt
Other freeways and expressways	8%	9%	7%	7%	(1)ppt	1ppt	1ppt
Other principal arterials	14%	14%	13%	13%	—ppt	1ppt	1ppt
Minor arterials	20%	19%	17%	14%	1ppt	3ppt	6ppt
Major collectors	22%	22%	19%	16%	—ppt	3ppt	6ppt
Collectors	50%	51%	52%	47%	(1)ppt	(2)ppt	3ppt
Percentage of bridges structurally deficient ²	9%	9%	11%	12%	—ppt	(2)ppt	(3)ppt
Percentage of bridges functionally obsolete ³	na	na	14%	15%	na	na	na
Hours of delay per commuter per year	na	na	41	42	na	na	na
Fuel wasted due to commuter delays (billion gallons)	na	na	3.0	2.8	na	na	na
Fuel wasted due to commuter delays, per 100,000 miles (in gallons)	na	na	84	92	na	na	na

^{*} We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

All types of roads except interstates became more unsatisfactory in condition over the past decade, while bridges improved in condition. As of 2017, the roads in the worst condition, at 50% unsatisfactory, are the collectors. Collectors are, for rural areas, routes that serve intra-county rather than statewide travel, and in urban areas, streets that provide direct access to neighborhoods and arterials. Bridges, as of 2017, were 9% structurally deficient and as of 2015 (the last available date) were 14% functionally obsolete.

Road congestion in urban areas is one of the major causes for commuter delays. Hours of delay per commuter per year remained at 42 when comparing 2007 to 2014, the latest date for which data are available. Delays due to congestion decreased during the Great Recession and have steadily increased since 2010. Fuel wasted due to commuter delays increased 11% from 2007 to 2014, the latest date for which data are available.

na An "na" reference in the table means the data is not available.

Unsatisfactory condition means an International Roughness Index (IRI) value greater than 170, as used by the National Cooperative Highway Research Program (NHCRP). These percentages were derived from https://www.bts.gov/topics/national-transportation-statistics.

² Structurally deficient means a bridge that has a condition rating of 4 or less for the deck, superstructures, substructures, or culvert and retaining walls, or an appraisal rating of 2 or less for the structural condition or waterway adequacy, as defined by the Federal Highway Administration (https://www.fhwa.dot.gov/bridge/0650dsup.cfm).

Functionally obsolete means a bridge that has an appraisal rating of 3 or less for deck geometry, underclearances, or approach roadway alignment, or an appraisal rating of 3 for structural condition or waterway adequacy, as defined by the Federal Highway Administration (https://www.fhwa.dot.gov/bridge/0650dsup.cfm).

Standard of living and aid to the disadvantaged

The standard of living and aid to the disadvantaged reporting unit seeks to maintain a minimum standard of living for all Americans and reduce levels of poverty among the US population, including children, by providing for their basic needs including welfare, free and subsidized school lunches, and child healthcare.

Poverty

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Rate of poverty of all persons - Official Poverty Measure	12%	13%	15%	13%	(1)ppt	(3)ppt	(1)ppt
Rate of poverty of all persons - Supplemental Poverty Measure	13%	14%	16%	na	(1)ppt	(3)ppt	na

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There are two primary government poverty measures, the Official Poverty Measure (OPM) and the Supplemental Poverty Measure (SPM), which began in 2010. The key differences are that the SPM uses a different definition of income and a different poverty threshold. The OPM income or resource measure is pre-tax cash income, while the SPM income or resource measure is cash income plus in-kind government benefits (such as food stamps and housing subsidies) minus nondiscretionary expenditures (e.g. taxes and work expenses). The OPM poverty thresholds are based on the cost of food multiplied by 3 to allow for expenditures on other goods and services, adjusted for changes in prices, while the SPM thresholds are based on a broad measure of necessary expenditures (food, clothing, shelter, and utilities) and are based on recent, annually updated expenditure data, adjusted for geographic differences in the cost of living. The two measures (OPM and SPM) may produce different pictures of who is counted as poor.

We discuss and show the details of both poverty measures below. Note that the rates in the table above are per individual, while the tables below are per family and individual unit (FIU), consistent with our other cohort tables.

na An "na" reference in the table means the data is not available.

Poverty profile using Official Poverty Measure (2017)

		Avera	ge Per U	nit	Top Ear Gend		Race	e, Ethni	icity of	Unit H	ead							
Family and Individual Unit Sub Group/% of Poverty Threshold %	# of Units (in K)	Persons	Children (Under 18)	Age of Unit Head	% Male	% Female	% White (all ethnicities)	% Black (all ethnicities)	% Asian (all ethnicities)	% Other Race (all ethnicities)	% Hispanic (all races)	% US-Born	% Urban	% Rural	% Northeast	% Midwest	% South	% West
All Families	149,581	2.2	0.5	49.9	56%	44%	79%	14%	6%	2%	15%	84%	82%	18%	18%	21%	38%	23%
<100% of poverty threshold	21,063	1.9	0.6	45.8	40%	60%	70%	22%	5%	3%	21%	80%	79%	21%	16%	20%	41%	22%
100%-200%	27,221	2.1	0.6	50.5	48%	52%	76%	17%	4%	3%	20%	81%	78%	22%	16%	20%	41%	23%
200%-300%	23,855	2.2	0.5	49.6	56%	44%	79%	15%	5%	2%	18%	83%	81%	19%	16%	21%	40%	23%
300%-400%	19,015	2.2	0.5	48.9	59%	41%	80%	13%	5%	2%	15%	85%	81%	19%	17%	23%	37%	23%
400%+	58,427	2.3	0.4	51.1	65%	35%	83%	9%	7%	1%	9%	86%	87%	13%	20%	22%	34%	24%
Single No Kids	52,030	1.2	_	40.6	52%	48%	75%	17%	6%	2%	15%	85%	84%	16%	18%	21%	37%	24%
<100% of poverty threshold	10,472	1.1	_	40.1	45%	55%	69%	22%	6%	3%	17%	84%	81%	19%	16%	20%	41%	23%
100%-200%	9,539	1.2	_	40.0	50%	50%	73%	20%	4%	3%	18%	85%	80%	20%	15%	21%	39%	24%
200%-300%	8,811	1.2	_	38.8	51%	49%	75%	18%	4%	3%	18%	85%	84%	16%	16%	21%	40%	23%
300%-400%	7,144	1.2	_	40.2	52%	48%	78%	16%	5%	2%	14%	88%	84%	16%	18%	22%	35%	25%
400%+	16,064	1.2		42.4	58%	42%	79%	12%	8%	1%	11%	86%	89%	11%	21%	20%	33%	27%
Single Parents	14,507	2.9	1.7	35.4	24%	76%	67%	27%	3%	3%	25%	84%	81%	19%	16%	21%	40%	22%
<100% of poverty threshold	4,263	3.1	2.0	33.7	15%	85%	63%	31%	2%	4%	29%	80%	78%	22%	15%	21%	43%	21%
100%-200%	4,056	2.9	1.7	35.3	20%	80%	63%	30%	3%	4%	27%	83%	80%	20%	17%	20%	40%	23%
200%-300%	2,545	2.7	1.5	35.9	32%	68%	70%	24%	4%	2%	24%	87%	83%	17%	15%	21%	41%	22%
300%-400%	1,445	2.6	1.4	36.5	32%	68%	74%	22%	2%	2%	20%	88%	81%	19%	15%	23%	40%	22%
400%+	2,199	2.5	1.4	37.8	38%	62%	73%	20%	5%	2%	15%	89%	88%	12%	19%	22%	34%	24%
Married No Kids	24,031	2.4	_	50.7	70%	30%	83%	8%	7%	2%	13%	82%	82%	18%	17%	21%	38%	23%
<100% of poverty threshold	909	2.2	_	51.9	57%	43%	75%	11%	10%	3%	19%	73%	75%	25%	11%	17%	49%	24%
100%-200%	1,832	2.4	_	51.9	69%	31%	79%	12%	7%	3%	23%	71%	76%	24%	14%	15%	47%	24%
200%-300%	2,584	2.4	_	51.3	68%	32%	80%	11%	7%	2%	23%	73%	78%	22%	14%	21%	41%	24%
300%-400%	2,844	2.5	_	49.3	71%	29%	81%	12%	6%	2%	19%	78%	79%	21%	14%	23%	40%	23%
400%+	15,862	2.4		50.6	71%	29%	86%	7%	6%	1%	9%	86%	84%	16%	19%	22%	36%	23%
Married Parents	24,750	4.2	2.0	40.5	77%	23%	81%	8%	9%	2%	20%	74%	84%	16%	16%	21%	37%	25%
<100% of poverty threshold	1,599	4.8	2.6	38.1	72%	28%	78%	10%	9%	3%	40%	52%	83%	17%	18%	17%	39%	26%
100%-200%	3,666	4.6	2.3	38.5	83%	17%	79%	10%	8%	3%	37%	59%	80%	20%	14%	18%	41%	27%
200%-300%	3,984	4.4	2.1	39.5	79%	21%	80%	10%	6%	3%	29%	71%	81%	19%	14%	19%	41%	26%
300%-400%	3,567	4.2	1.9	39.8	77%	23%	80%	10%	9%	2%	19%	79%	80%	20%	14%	23%	39%	24%
400%+	11,934	4.0	1.7	42.0	75%	25%	82%	6%	10%	1%	10%	82%	88%	12%	19%	23%	35%	24%
Elderly (65+)	34,264	1.7	_	72.7	51%	49%	85%	10%	4%	1%	8%	89%	79%	21%	19%	22%	37%	22%
<100% of poverty threshold	3,821	1.4	0.1	74.1	35%	65%	73%	21%	4%	2%	15%	80%	77%	23%	20%	19%	39%	22%
100%-200%	8,128	1.4	_	74.5	41%	59%	82%	13%	3%	2%	10%	88%	76%	24%	18%	21%	41%	20%
200%-300%	5,931	1.7	_	73.7	51%	49%	86%	10%	3%	1%	7%	91%	78%	22%	18%	23%	39%	20%
300%-400%	4,015	1.8	_	72.7	56%	44%	87%	9%	3%	1%	7%	90%	77%	23%	19%	23%	37%	22%
400%+	12,368	1.9	_	71.1	62%	38%	89%	6%	4%	1%	4%	91%	84%	16%	20%	22%	34%	24%

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

Over the past decade, the average poverty rate of our population increased and then declined in 2016 and 2017. Demographically, in 2017:

- Geographic region -The region with the highest poverty rate remained the South, at 41% of all FIUs in poverty.
- Race and ethnicity -
 - White people accounted for the largest portion of those in poverty, at 70% of heads of FIUs below the poverty line in 2017, while they represented an even greater portion of heads of all FIUs (79%).
 - Black people were disproportionately represented among the poor, comprising 14% of heads of all FIUs, while representing 22% of heads of FIUs below the poverty line in 2017.

^{**} Poverty as defined by the Official Poverty Measure (OPM), officially used by the Census Bureau since 1963. Varies by family size, composition, and age of householder. Poverty line set as equal to three times the cost of a minimum diet in 1963 (adjusted for inflation). Uses gross income before tax as resource measure.

- Hispanic people (included within each applicable race as well) were also disproportionately represented among the poor, comprising 15% of the heads of all FIUs, while representing 21% of the heads of FIUs in poverty in 2017.
- Gender Families where women are the primary earners accounted for 44% of all FIUs in 2017 but 60% of the poor. In particular, women disproportionately supported elderly poor families, where they were head-of-household for 49% of all elderly FIUs but 65% of the elderly poor FIUs. The same was true for families who were married with no kids, where women were head-of-household for 30% of this population but 43% of the subset that was below the poverty line.
- Family type In 2017, by family type, the largest number of people in poverty were single people without kids. Single parents had the highest poverty rate, 29%, which was nearly three times their share of all FIUs. All other family types were under-represented among the poor (i.e. they comprised a smaller portion of the poor than they did of all FIUs).

Poverty profile using Supplemental Poverty Measure (2017)

		Averag	je Per l	Jnit	Top Ea Gend		Race,	Ethnici	ty of	Unit Head							
Family and Individual Unit SubGroup/% of Poverty Threshold ¹	# of Units (in K)	Persons	Children (Under 18)	Age of Unit Head	% Male	% Female	% White	% Black	% Asian	% Other Race % Hispanic	% US-Born	% Urban	% Rural	% Northeast	% Midwest	% South	% West
All Families	149,581	2.2	0.5	49.9	56%	44%	79%	14%	6%	2% 15%	84%	82%	18%	18%	21%	38%	23%
<100% of poverty threshold	23,220	1.9	0.5	48.8	45%	55%	70%	21%	6%	3% 22%	76%	84%	16%	17%	17%	41%	25%
100%-200%	42,132	2.3	0.6	48.9	52%	48%	75%	18%	5%	2% 21%	80%	81%	19%	17%	20%	39%	24%
200%-300%	30,133	2.2	0.5	48.6	58%	42%	80%	12%	6%	2% 14%	86%	81%	19%	17%	22%	37%	24%
300%-400%	20,142	2.2	0.4	50.0	61%	39%	83%	10%	6%	2% 9%	88%	83%	17%	17%	23%	37%	23%
400%+	33,953	2.1	0.3	52.6	65%	35%	86%	7%	6%	1% 6%	90%	84%	16%	18%	24%	36%	22%
Single No Kids	52,030	1.2	_	40.6	52%	48%	75%	17%	6%	2% 15%	85%	84%	16%	18%	21%	37%	24%
<100% of poverty threshold	10,361	1.2	_	39.7	49%	51%	68%	23%	7%	3% 20%	80%	85%	15%	17%	17%	41%	25%
100%-200%	14,256	1.2	_	40.4	50%	50%	72%	21%	4%	3% 19%	85%	82%	18%	17%	21%	38%	24%
200%-300%	10,642	1.2	_	39.6	51%	49%	77%	16%	6%	2% 15%	87%	84%	16%	18%	22%	35%	26%
300%-400%	6,620	1.2	_	40.6	54%	46%	79%	14%	6%	2% 11%	88%	85%	15%	18%	22%	37%	22%
400%+	10,150	1.1	_	42.6	57%	43%	82%	10%	7%	1% 9%	89%	86%	14%	19%	22%	35%	24%
Single Parents	14,507	2.9	1.7	35.4	24%	76%	67%	27%	3%	3% 25%	84%	81%	19%	16%	21%	40%	22%
<100% of poverty threshold	3,583	3.0	1.8	34.3	17%	83%	61%	33%	3%	3% 32%	76%	83%	17%	17%	16%	44%	23%
100%-200%	6,438	2.9	1.7	35.0	22%	78%	64%	29%	3%	4% 27%	84%	81%	19%	17%	22%	39%	22%
200%-300%	2,596	2.6	1.5	35.6	33%	67%	75%	19%	3%	3% 18%	90%	78%	22%	15%	24%	39%	22%
300%-400%	1,044	2.6	1.5	39.1	36%	64%	77%	19%	3%	2% 16%	92%	83%	17%	16%	22%	40%	21%
400%+	846	2.5	1.4	38.6	37%	63%	77%	16%	5%	2% 14%	90%	81%	19%	16%	26%	37%	21%
Married No Kids	24,031	2.4	_	50.7	70%	30%	83%	8%	7%	2% 13%	82%	82%	18%	17%	21%	38%	23%
<100% of poverty threshold	1,786	2.4	_	52.4	61%	39%	76%	11%	10%	3% 22%	69%	80%	20%	14%	16%	44%	26%
100%-200%	4,152	2.6	_	50.8	69%	31%	78%	12%	8%	2% 25%	68%	83%	17%	16%	17%	40%	26%
200%-300%	4,600	2.5	_	49.8	69%	31%	81%	11%	6%	2% 15%	81%	82%	18%	18%	20%	37%	24%
300%-400%	4,112	2.5	_	50.0	68%	32%	84%	8%	6%	2% 9%	88%	81%	19%	16%	24%	38%	23%
400%+	9,382	2.3	_	51.1	73%	27%	88%	5%	6%	1% 6%	90%	83%	17%	18%	24%	38%	21%
Married Parents	24,750	4.2	2.0	40.5	77%	23%	81%	8%	9%	2% 20%	74%	84%	16%	16%	21%	37%	25%
<100% of poverty threshold	2,112	4.5	2.2	39.3	73%	27%	77%	9%	11%	3% 40%	48%	89%	11%	20%	15%	36%	29%
100%-200%	7,181	4.4	2.1	39.1	81%	19%	79%	10%	8%	3% 32%	65%	83%	17%	16%	18%	39%	28%
200%-300%	5,995	4.2	1.9	39.9	77%	23%	80%	9%	9%	2% 18%	79%	82%	18%	16%	22%	37%	25%
300%-400%	4,041	4.1	1.8	41.3	76%	24%	82%	7%	9%	1% 10%	84%	84%	16%	17%	25%	37%	22%
400%+	5,421	3.9	1.7	43.1	74%	26%	84%	5%	9%	1% 7%	85%	87%	13%	17%	24%	37%	22%
Elderly (65+)	34,264	1.7	_	72.7	51%	49%	85%	10%	4%	1% 8%	89%	79%	21%	19%	22%	37%	22%
<100% of poverty threshold	5,379	1.5	0.1	74.0	39%	61%	75%	18%	5%	2% 14%	81%	81%	19%	19%	17%	39%	25%
100%-200%	10,105	1.6	_	73.9	45%	55%	82%	13%	4%	1% 11%	86%	77%	23%	19%	21%	39%	20%
200%-300%	6,301	1.7	_	72.7	52%	48%	86%	9%	4%	1% 5%	92%	78%	22%	19%	23%	37%	21%
300%-400%	4,325	1.8	_	72.0	56%	44%	89%	6%	4%	1% 5%	91%	80%	20%	18%	23%	36%	23%
400%+	8,154	1.8	_	71.1	64%	36%	91%	5%	3%	1% 3%	94%	81%	19%	18%	25%	36%	21%

- We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.
- Poverty threshold as defined by the Supplemental Poverty Measure (SPM) for 2013 from the Census Bureau. The SPM extends the official poverty measure by taking account of many of our Government programs designed to assist low-income families and individuals that are not included in the current official poverty measure. It uses different methodologies for household size and adjusts for cost of living differences across geographies.

The Supplemental Poverty Measure shows us, in 2017, demographically:

- Geographic region- The region with the highest poverty rate remained the South.
- Race and ethnicity White families accounted for the largest portion, 70%, of FIUs in poverty, in 2017 while they represented a greater portion, 79%, of all FIUs. Black and Hispanic people were disproportionately represented among the poor, comprising 14% and 15% of all FIUs, respectively, in 2017, and representing 21% and 22%, respectively, of those below the poverty line.
- Gender Families where women were the primary earners accounted for 44% of all FIUs in 2017 but 55% of the poor. In particular, women were disproportionately supporting elderly poor families, where they were head-of-household for 49% of all elderly FIUs but 61% of the elderly poor families. The same was true for families who are married with no kids, where women were head-of-household for 30% of this population but 39% of the subset that was below the poverty line.
- Family type In 2017, by family type, the largest number of people in poverty were single people without kids. Single parents had the highest poverty rate, 25%, which was more than two times their share of all FIUs. All other family types were under-represented among the poor (i.e. they comprise a smaller portion of the poor than they do of all FIUs).

Subsidized housing

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
People in subsidized housing (in thousands)	9,653	9,785	10,027	9,393	(1)%	(4)%	3%
People in subsidized housing per 100,000 people	2,970	3,030	3,195	3,118	(2)%	(7)%	(5)%

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The number of people in subsidized housing has increased over the past decade. Demographically:

- Gender Over the past decade, 75% to 78% of HUD subsidized households were headed by a woman, and 33% to 39% were headed by a woman with a child in the household.
- Family type Over the past decade, 30% to 37% of HUD subsidized households had only one adult with children, while the number of households with two or more adults with children decreased 8 percentage points to only 4% in 2017.
- Race Households where the head-of-household is black comprised 42% of the subsidized households in 2017 while households headed by a white person followed at 36%. Over the past decade, the black head-of-household percentage increased 3 percentage points from 39%, while the white head-of household percentage decreased 5 percentage points from 41%.
- Age Households where the head-of-household is age 25 to 50 comprised 41% of the subsidized households in 2017, down from 45% in 2007, while households headed by a person over 62 years old followed at 35% in 2017, up from 31% in 2007.

Consumption

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Total household cash expenditures (consumption) (in billions)	\$ 12,356	\$ 11,811	\$ 10,289	\$ 9,367	5%	20%	32%
Cash expenditures per household	\$ 97,889	\$ 93,873	\$ 84,974	\$ 80,742	4%	15%	21%
Total household cash expenditures adjusted for inflation (2017 base)	\$ 97,889	\$ 95,657	\$ 91,728	\$ 94,241	2%	7%	4%

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One measure of standard of living may be household consumption. Total household cash expenditures have outpaced inflation by 4% over the past decade. In 2017, our largest household cash expenditures were for healthcare (24% of our expenditures), housing (18%), food (12%), and transportation (11%). The largest dollar increases in aggregate household expenditures over the last decade were in healthcare (growth of \$1.1 trillion or 54%), food both in and out of the home (\$399 billion or 38%), housing (\$323 billion or 17%), transportation (\$180 billion or 16%), recreation and entertainment (\$172 billion or 29%), and technology (\$135 billion or 28%).

As a comparison, medical care inflation was 36%, food inflation was 24%, overall inflation was 19%, population growth was 8%, and the median annual wage grew 20% over the past decade.

Health

The health reporting unit seeks to maintain good public health in America, by incentivizing healthy behavior and managing the public healthcare delivery system.

Health conditions

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Percent of adults with:							
Asthma ¹	9%	9%	9%	8%	—ppt	—ppt	1ppt
Diabetes ²	11%	11%	10%	8%	—ppt	1ppt	3ppt
Heavy drinker ³	6%	7%	6%	5%	(1)ppt	—ppt	1ppt
Smoker ⁴	17%	17%	20%	20%	—ppt	(3)ppt	(3)ppt
Exercise 1x/mo + 5	74%	77%	77%	77%	(3)ppt	(3)ppt	(3)ppt
Obese ⁶	32%	30%	28%	26%	2ppt	4ppt	6ppt
Overweight ⁷	35%	35%	36%	37%	—ppt	(1)ppt	(2)ppt
Low sleep ⁸	na	35%	na	na	na	na	na

^{*} We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

Americans are experiencing higher rates of asthma, diabetes, heavy drinking, and obesity than they were a decade ago. We look at these factors and others by family and individual unit (FIU) and income cohort in the table below.

na An "na" reference in the table means the data is not available.

¹ Individuals who have ever been that they have asthma.

² Individuals who have ever been told by a medical professional that they have diabetes.

³ Males having 14+ drinks per week, females having 7+ drinks per week.

⁴ Individuals who smoke cigarettes every day or some days.

⁵ Individuals who in the past month have participated in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise outside of regular job.

Individuals with a body mass index (BMI) greater than 29.9.

⁷ Individuals with a body mass index (BMI) between 25.0 and 29.9.

⁸ Individuals who sleep on average less than 7 hours during a 24-hour period.

Health profile (2017)

Percent of adults who have health condition

			Percent	n addits wild i	lave Health Col	luluon		
Family and Individual Unit Sub Group/Income %	% Asthma ¹	% Diabetes ²	% Heavy Drinker ³	% Smoker ⁴	% Exercise 1x / mo + ⁵	% Obese ⁶	% Overweight ⁷	% Low Sleep ⁸
All Families	13.9%	10.2%	6.3%	13.7%	75.6%	29.0%	35.6%	33.5%
Bottom 20% (\$0-\$10K)	16.9%	16.5%	5.2%	19.4%	67.1%	32.0%	32.0%	35.4%
Second 20% (\$10K-\$34K)	14.7%	13.4%	6.1%	17.7%	70.3%	31.5%	33.9%	34.8%
Middle 20% (\$34K-\$66K)	13.8%	10.0%	6.5%	15.7%	74.2%	29.9%	35.7%	34.4%
Fourth 20% (\$66K-\$122K)	13.0%	7.8%	6.4%	11.7%	78.5%	28.4%	36.7%	33.4%
Top 20% (\$122K+)	12.7%	6.7%	7.0%	8.2%	82.5%	25.6%	37.7%	31.2%
Married No Kids	13.4%	9.4%	7.0%	11.7%	78.1%	28.8%	36.6%	31.7%
Bottom 20%	13.5%	18.3%	5.3%	17.2%	68.5%	34.1%	34.5%	33.5%
Second 20%	13.7%	15.7%	5.0%	16.9%	69.5%	33.6%	34.9%	34.1%
Middle 20%	13.5%	12.0%	5.9%	15.5%	72.9%	31.9%	36.7%	33.0%
Fourth 20%	12.9%	8.9%	6.7%	12.1%	78.0%	30.1%	36.5%	32.1%
Top 20%	13.6%	6.8%	8.0%	8.8%	82.4%	25.7%	37.1%	30.4%
Married Parents	12.0%	5.1%	5.3%	10.5%	78.0%	28.5%	37.9%	35.4%
Bottom 20%	14.3%	8.4%	3.2%	17.1%	64.1%	32.5%	36.4%	39.1%
Second 20%	13.2%	7.2%	4.0%	16.3%	69.0%	33.3%	35.8%	38.8%
Middle 20%	11.9%	6.3%	4.6%	14.3%	71.0%	31.7%	37.6%	36.6%
Fourth 20%	12.0%	4.8%	5.4%	10.9%	77.7%	29.2%	38.0%	35.9%
Top 20%	11.7%	4.3%	5.8%	7.3%	83.5%	25.7%	38.4%	33.7%
Single No Kids	16.6%	7.8%	8.2%	20.1%	76.6%	29.1%	32.3%	38.0%
Bottom 20%	19.9%	10.8%	6.7%	25.3%	71.9%	32.1%	29.3%	39.7%
Second 20%	16.1%	8.9%	8.4%	22.8%	74.0%	30.8%	32.4%	39.0%
Middle 20%	15.7%	6.2%	9.0%	19.8%	78.0%	28.7%	32.9%	37.7%
Fourth 20%	15.0%	5.3%	8.8%	14.5%	80.7%	26.2%	34.0%	36.6%
Top 20%	15.4%	6.2%	8.9%	11.7%	83.6%	23.3%	34.8%	34.5%
Single Parents	17.6%	5.7%	5.8%	21.7%	73.2%	33.4%	30.6%	42.7%
Bottom 20%	20.4%	6.7%	5.7%	24.5%	68.9%	35.0%	26.6%	44.1%
Second 20%	18.5%	5.8%	5.8%	25.3%	71.2%	36.0%	29.0%	43.4%
Middle 20%	14.8%	5.3%	5.6%	21.5%	74.5%	32.9%	33.0%	43.1%
Fourth 20%	17.1%	5.1%	6.2%	14.3%	78.6%	29.1%	33.0%	40.1%
Top 20%	16.7%	5.2%	6.1%	13.6%	79.9%	27.7%	36.8%	40.1%
Elderly (65+)	12.2%	20.0%	4.7%	9.3%	70.3%	28.3%	37.6%	25.7%
Bottom 20%	13.7%	26.8%	3.6%	12.0%	61.1%	30.4%	35.2%	27.7%
Second 20%	12.6%	22.0%	4.6%	10.3%	66.6%	29.6%	36.4%	26.3%
Middle 20%	12.2%	18.7%	5.1%	8.6%	72.2%	27.6%	38.8%	25.5%
Fourth 20%	11.4%	15.7%	4.8%	7.9%	78.1%	26.1%	39.1%	24.6%
Top 20%	10.7%	13.0%	5.8%	6.2%	79.7%	26.2%	39.4%	23.7%

¹ Individuals who have ever been told that they have asthma.

By income cohort, the higher the income, the lower the rates of asthma, diabetes, smoking, obesity, and low sleep, and the higher the rates of heavy drinking, exercise, and being overweight. In 2017, the two conditions where the gap between the lowest and highest income cohorts were greatest (greater than a 10-percentage point delta) were smoking and exercise:

² Individuals who have ever been told by a medical professional that they have diabetes.

³ Males having 14+ drinks per week, females having 7+ drinks per week.

⁴ Individuals who smoke cigarettes every day or some days.

⁵ Individuals who in the past month have participated in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise outside of regular job.

⁶ Individuals with a body mass index (BMI) greater than 29.9.

Individuals with a body mass index (BMI) between 25.0 and 29.9.

⁸ Individuals who sleep on average less than 7 hours during a 24-hour period.

- Smokers accounted for just 8.2% of top earners, compared with 19.4% of those who earn the least.
- Those with higher income report exercising more often than the poor, with 82.5% of the top income cohort and 67.1% of the bottom income cohort exercising at least one time per month.

There is no family type that is consistently healthier than the others by all of these measures. The elderly often represents the extremes of these measures in both positive and negative respects; they have the highest rates of diabetes and the lowest rates of heavy drinking, smoking, exercising, being obese, and low sleeping. The two conditions where the gap between family types were greatest in 2017 were diabetes and sleeping. Married parents comprised 5.1% of those who reported having diabetes, while 20.0% of the elderly reported having this condition. The elderly accounted for 25.7% of those who slept on average less than seven hours a day, compared with 42.7% of single parents.

Overall, in 2017, 64.6% of Americans were either overweight or obese. The highest rate of obesity was among single parents, while the lowest was among the elderly. The highest rate of those overweight was among married parents, while the lowest was among single parents. The rate of obesity has increased over the last decade, while the rate of those overweight has decreased.

By major racial and ethnic group, there is no group that is consistently healthier than the others by all of these measures. The race or ethnicity with the highest and lowest rates of these measures are:

- Asthma highest black people at 17%, lowest Hispanic people at 11%
- Diabetes highest black people at 14%, lowest White people at 10%
- Heavy drinker highest white people at 7%, lowest black people at 5%
- Smoking highest black people at 18%, lowest Hispanic people at 11%
- Exercise highest white people at 76%, lowest black people at 69%
- Obese highest black people at 38%, lowest white people at 29%
- Overweight (but not obese) highest Hispanic people at 39%, lowest black people at 33%
- Low sleep highest black people at 43%, lowest white and Hispanic people, both at 32%

All these populations generally follow the overall trend that the higher the income, the lower the rates of asthma, diabetes, smoking, obesity, and low sleep, and the higher the rates of heavy drinking (white people only), exercise, and being overweight but not obese.

Longevity and mortality

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Life expectancy at birth (years)	78.6	78.7	78.8	78.1	—%	-%	1%
Average age at death (years)	73.1	72.9	73.1	72.3	-%	- %	1%
Total deaths	2,814	2,744	2,543	2,424	3%	11%	16%
Deaths by leading and other select causes (in thousands):							
Circulatory diseases	859	841	787	810	2%	9%	6%
Cancers	615	614	598	577	—%	3%	7%
Respiratory diseases	279	266	246	227	5%	13%	23%
Accidents	170	161	128	124	6%	33%	37%
Mental disorders	136	133	148	90	2%	(8)%	51%
Heroin poisoning	15	15	6	2	—%	150%	650%
Other opioid	14	14	11	8	—%	27%	75%
Other synthetic narcotics	28	19	3	2	47%	833%	1,300%
Firearm deaths	40	39	34	31	3%	18%	29%

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During the periods presented, both life expectancy at birth and average age at death increased by 1%. Life expectancy for males and females, Hispanic people, and non-Hispanic black and white people, all increased, with the largest increase at 1.6 years, for non-Hispanic black males. In 2017, male life expectancy at birth was 76.1 years and female was 81.1 years. For non-Hispanic black people, life expectancy at birth was 74.9 years, while for non-Hispanic white people it was 78.5 years.

Causes of death

The leading causes of death, as shown in the table above, remained the leading causes throughout the periods shown in this report. All leading causes of death have increased over the past decade, even when adjusting for population growth, except in the case of circulatory diseases and cancer, where the rates of death grew slower than the rate of population growth. Though they are not leading causes of death, heroin, opioid, and other synthetic narcotic deaths have increased at rates far exceeding those of the leading causes over the past decade.

Though also not a leading cause of death, deaths from firearms increased 29% over the past decade. In 2017, 60% of these deaths were suicides, 37% were homicides, and the remainder was not classified. Demographically:

- Geography Metropolitan areas housed 82% of the firearm deaths, while 18% occurred in non-metropolitan
 areas.
- Age A plurality of firearm deaths occurred for those between ages 20 and 34, at 33% of the deaths, while the least number occurred for those under 19, at 9% of the deaths.
- Race and ethnicity White people experienced the most firearm deaths at 71%, while black people experienced 26% of the deaths.

Healthcare affordability

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Total personal healthcare expenditures (in billions) ¹	\$ 2,954	\$ 2,838	\$ 2,361	\$ 1,918	4%	25%	54%
Personal healthcare expenditures per capita Personal healthcare expenditures adjusted for inflation (medical	\$ 9,090	\$ 8,788	\$ 7,523	\$ 6,367	3%	21%	43%
inflation, 2017 base) (in billions)	\$ 2,954	\$ 2,926	\$ 2,716	\$ 2,618	1%	9%	13%
Out-of-pocket healthcare expenditures (in billions) ²	\$ 365	\$ 357	\$ 319	\$ 290	2%	14%	26%
Percentage of personal healthcare expenditures paid out-of-pocket	10%	11%	11%	13%	(1)ppt	(1)ppt	(3)ppt
Percentage of disposable income spent on healthcare ³	23%	23%	21%	20%	—ppt	2ppt	3ppt

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Total personal healthcare expenditures rose 54% over the last decade, or 43% per capita. These expenditures increased across all major categories, with the largest dollar increases in hospital (\$449 billion or 65% increase), physician and clinical (\$239 billion or 52%), and prescription drug (\$92 billion or 39%).

Private health insurance, Medicare, Medicaid, and individual "out-of-pocket" expenditures (excluding insurance premiums) made up 35%, 22%, 18%, and 12%, respectively, of the total personal healthcare expenditures payment sources in 2017. Personal healthcare expenditures paid "out-of-pocket" grew at the lowest rate (26%), with payments from every other source growing at higher rates (ranging from 31% to 116%), over the past decade. The largest dollar increases by payment source were for private health insurance followed by Medicare and then Medicaid. As a percentage of personal healthcare expenditures, out-of-pocket payments decreased over the past decade.

Personal healthcare expenditures include hospital, physician and clinical, prescription drug, dental services, and other professional and durable products expenditures, as agaregated by the Centers for Medicare and Medicaid Services. Office of the Actuary, and National Health Statistics Group.

Out-of-pocket expenses are costs for medical care that aren't reimbursed by insurance, including deductibles, coinsurance, and copayments for covered services plus all costs for services that aren't covered.

³ See the definition of disposable income at the Wealth creation table below.

In 2017, households spent 23% of their disposable income on healthcare as compared to 20% in 2007. Over the past decade, as a percentage of disposable household income, spending in nearly every major healthcare category increased, with the largest increases in expenditures for hospitals, at a 1.1 percentage point increase, and for pharmaceutical products, at a 0.7 percentage point increase.

Blessings of Liberty (BL)

This segment works to secure the blessings of liberty to the US population and its posterity. Its reporting units are education, wealth and savings, sustainability and self-sufficiency, and the American Dream.

Overall, during the periods presented, we:

- made meaningful progress on: net asset accumulation, including total and average household financial assets, numbers of pension participants, total pension assets and the rates of return thereon, and a reduction of average home mortgage debt; total giving; the number of associate's degrees granted; numbers of housing discrimination complaints; environmental sustainability and self-sufficiency, including reduced emissions and net energy consumption, increased energy consumption from renewable sources, and number of days reaching unhealthy level for air quality;
- saw no meaningful movement in the value of real estate assets and average real estate assets per household, rates of savings and homeownership, elderly poverty rates, pre-kindergarten to 12th grade enrollment and achievement, college enrollment and graduation, primary energy consumption, crops harvested, levels of atmospheric CO₂, hate crime incidents and equal employment charges, and rates of volunteering; and
- regressed notably in the cost of higher education, the rate of total government debt as a percent of GDP and
 per capita, crop failures, our self-sufficiency in grain and meat production vs. consumption, and the rates of
 voting.

Shorter-term trends may differ.

Education

The education reporting unit seeks to increase educational attainment in the US.

Pre-kindergarten to grade 12

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Head Start ¹ funded enrollment (in thousands)	899	916	956	908	(2)%	(6)%	(1)%
Head Start ¹ funded enrollment per 10,000 children age birth-5	451	460	479	451	(2)%	(6)%	—%
Percentage of 3-5 year-olds enrolled in educational programs:							
Full day	42%	42%	39%	37%	0ppt	3ppt	5ppt
Half day	22%	23%	25%	28%	(1)ppt	(3)ppt	(6)ppt
Percentage of 5- to 17-year-olds enrolled in public elementary and secondary							
school	na	94%	92%	93%	na	na	na
Rate of high school graduates as percentage of freshman cohort	85%	84%	81%	na	1ppt	4ppt	na
Percentage of population 25 years and over with a high school diploma or							
GED (no more or less education)	29%	29%	30%	32%	0ppt	(1)ppt	(3)ppt
% students at or above proficient NAEP ² reading level							
4 th grade	37%	na	na	33%	na	na	4ppt
8 th grade	36%	na	na	31%	na	na	5ppt
% students at or above proficient NAEP ² math level							
4 th grade	40%	na	na	39%	na	na	1ppt
8 th grade	34%	na	na	32%	na	na	2ppt

- We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.
- na An "na" reference in the table means the data is not available.
- Head Start provides programs that promote school readiness of children ages birth to five from low-income families by supporting their development in a comprehensive way. The programs offer a variety of service models, depending on the needs of the local community, including programs based in schools, child care centers, and family child care homes. Some programs offer home-based services that assigned dedicated staff who conduct weekly visits to children in their own home and work with the parent as the child's primary teacher.
- National Assessment of Educational Progress, the largest nationally representative and continuing assessment of what America's students know and can do in various subject areas. Since NAEP assessments are administered uniformly using the same sets of test booklets across the nation, NAEP results serve as a common metric for all states and selected urban districts. The assessment stays essentially the same from year to year, with only carefully documented changes. This permits NAEP to provide a clear picture of student academic progress over time.

Enrollment and graduation

Head Start funded enrollment decreased 1% over the past decade. The percentage of children ages three to five that are enrolled in education programs also decreased over the past decade, from 65% to 64%, as those enrolled in full day programs have increased while those enrolled in half day programs have decreased.

As a percentage of the applicable population, enrollment in public elementary and secondary schools was generally consistent over the past decade, though the data is not available for 2017.

The rate of high school graduates as a percentage of those that began high school increased over the decade, though 2007 data is not available. The percentage of the population age 25 years and older whose highest schooling is a high school diploma or GED (no more or less education) has decreased over the past decade. In 2017, demographically:

- Gender the rates for males and females were similar at 30% and 28% of each population, respectively;
- Age the rates increased with age, with 25- to 34-year-olds at 26%, 35- to 54-year-olds at 27%, and 55-year-olds and older at 32%; and
- Race and ethnicity Asian people have the lowest rate at 20%, followed by people who are non-Hispanic white at 28%, white at 30%, Hispanic of any race at 31%, and black at 33%.

Educational proficiency

The NAEP scores are provided every two years. Between 2007 and 2017, the reading and math proficiency rates increased for both 4th and 8th graders. There are notable demographic variances, in 2017:

- Race and ethnicity Asian children are the most proficient in both reading (56% are proficient at grade 4, 55% at grade 8) and math (64% at grade 4, 62% at grade 8), followed by white children in reading (47% at grade 4, 45% at grade 8) and math (51% at grade 4, 44% at grade 8). Hispanic and black children perform at the lowest end of the range, with black children the least proficient at reading (20% at grade 4, 18% at grade 8) and math (19% at grade 4, 13% at grade 8) and Hispanic children not faring much better at reading (23% at both grades) and math (26% at grade 4, 20% at grade 8).
- Gender boys are more proficient in math, while girls are more proficient in reading. However, by grade 8 girls are nearly as proficient in math as boys. For math, boys were 42% proficient at grade 4 and 35% proficient at grade 8, while girls were 38% proficient and 33% proficient, respectively. For reading, girls were 39% proficient at grade 4 and 41% at grade 8, while boys were 34% proficient and 31% proficient, respectively.
- Residential area For both reading and math, students are more proficient when they live in suburbs, followed by rural areas, then cities, then towns.
- State Students in Massachusetts are the most proficient in reading for both 4th and 8th grades, at 50% and 40%, respectively, while 4th grade students in New Mexico and 8th grade Students in DC have the lowest proficiency in reading, at 25% and 20%, respectively. Students in Louisiana have the lowest proficiency in 8th grade math at 19%. There is no state data available for 4th grade math proficiency.

Higher education

					Change 2017 vs.	Change 2017 vs. 2	•
(in thousands, except percentages)	2017	2016	2012	2007	2016	2012	2007
Average annual cost of undergraduate education, not adjusted for inflation	\$ 23,091\$	22,439\$	19,401\$	15,486	3%	19%	49%
Average annual cost of undergraduate education, adjusted for inflation ¹	\$ 23,612\$	23,367\$	21,154\$	18,822	1%	12%	25%
Rate of college enrollment as percentage of recent high school graduates	70%	69%	68%	66%	1ppt	2ppt	4ppt
Rate of graduation from four-year institutions within six years of start	60%	59%	59%	58%	1ppt	1ppt	2ppt
Rate of graduation from two-year institutions within three years of start	32%	30%	31%	28%	2ppt	1ppt	4ppt
Number of associates degrees conferred by postsecondary institutions	1,006	1,008	1,022	728	0%	(2)%	38%
Percentage of population 25 years and over with a bachelor's degree or higher	34%	33%	31%	29%	1ppt	3ppt	5ppt

^{*} We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

Average annual cost

The average annual cost of undergraduate education, adjusted for inflation, has increased 25% over the past decade. The cost for 4-year institutions increased more than that for 2-year institutions, at 21% and 19% growth, respectively. Among the components of the cost of education, tuition and fees and dormitory room costs increased the most, both at 26% growth. Inflation over the decade was 19%.

Enrollment

The overall rate of college enrollment by recent high school graduates has remained relatively constant over the past decade. From 2007 to 2017, the rate of enrollment in 4-year institutions rose 1.0 percentage point, while enrollment in 2-year institutions dropped 1.5 percentage points. The rate of female enrollment rose 3.4 percentage points, with enrollment in 4-year institutions increasing 7.5 percentage points and enrollment in 2-year institutions dropping 4.1 percentage points. The rate of male enrollment declined 5.0 percentage points, with enrollment in 4-year institutions decreasing 6.2 percentage points and enrollment in 2-year institutions increasing 1.2 percentage points. From 2007 to 2016, the latest date for which data is available, the rate of college enrollment by students coming from low-, middle-, and high-income families increased by 7.0, 1.7, and 4.3 percentage points, respectively.

Graduation

The rates of graduation from both 4-year and 2-year institutions have increased over the past decade. However, the rates vary by type of institution and the gender and race of the student.

4-year institutions

For 4-year institutions, in most years, the rates of graduation from for-profit institutions are less than half of the rates from each public and nonprofit institutions. In 2017, these rates were 24%, 59%, and 66%, respectively. Over the past decade, graduation rates from 4-year institutions increased overall and for all types of institutions except for-profit institutions, where graduation rates decreased 2.0 percentage points.

Females graduate from 4-year institutions at higher rates than men, at 63% and 57%, respectively, in 2017. These graduation rates reflect increases of 3.1 and 3.0 percentage points among males and females, respectively, over the past decade. By institution type, males and females both graduated at the highest rates from nonprofit 4-year institutions.

By race and ethnicity, Asian people enjoyed the highest rate of graduation from 4-year institutions, at 73% in 2017, while American Indian/Alaska Native people had the lowest rate, at 39%.

¹ Cost is the average undergraduate tuition, fees, room, and board rates charged for full-time students in degree-granting postsecondary institutions, both 2-year and 4-year institutions. Adjusted for inflation at the source.

2-year institutions

For 2-year institutions, in most years, the rates of graduation for both males and females from public institutions are less than half of the rates from each for-profit and nonprofit institutions. In 2017, these overall graduation rates were 25%, 62%, and 61%, respectively. By race and ethnicity, Asian people enjoyed the highest rate of graduation, at 37% in 2017, while black people had the lowest rate, at 25%.

Over the past decade, graduation rates from 2-year institutions increased 4 percentage points. The rates increased in nonprofit, public, and for-profit institutions, by 17.8, 4.8, and 2.8 percentage points, respectively. By gender, graduation rates increased 4.6 and 2.9 percentage points among males and females, respectively.

Degrees

Associate's degree

The number of associate's degrees conferred by postsecondary institutions increased 38% over the last decade. In 2017, demographically:

- Gender 39% of the degrees were conferred to males, while 61% were conferred to females; and
- Race and ethnicity a majority (55%) of the degrees were earned by white non-Hispanic students, with the second and third largest populations, Hispanic and black non-Hispanic students, earning 21% and 13% of the degrees, respectively.

Bachelor's or higher degree

The percentage of the population 25 years and older with a bachelor's degree or higher increased 5 percentage points over the last decade.

In 2017, demographically:

- Gender females have a one percentage point higher rate than males of obtaining each a master's degree (10% and 9%, respectively) and a bachelor's degree (22% and 21%, respectively), while males have a one percentage point higher rate of obtaining professional degrees (2%) than women (1%). Both females and males have the same rate of obtaining doctorate degrees (2%);
- Age the rates of bachelor's degrees decreased with age, with 25- to 34-year-olds at 26%, 35- to 54-year-olds at 23%, and 55-year-olds and older at 18%, while rates of master's degrees don't have the same pattern, with the rates at 9% for the lowest and highest age groups and 11% for the middle age group; and
- Race and ethnicity Asian people have the highest rate of both bachelor's and master's degrees at 31% and 18%, respectively, while Hispanic people of any race have the lowest rates at 12% and 4%, respectively.

Education profile (2017)

One way to analyze education outcomes is by family and individual units (FIUs) and income cohorts. As discussed under *Part I, Item 1. Purpose and Function of Our Government, Customers, Cohorts of our population* of this report, although we categorize the families based on presence of children under 18, if a person is aged 18 or older and still living in the family with relatives, she would not be her own economic unit unless she had her own subfamily. Therefore, in the table below, households that are "no kids" may have students currently living in the home, either young adult students still living at home or adults who have gone back to school.

Educational Attainment of Unit Head

of Students in Household (in thousands)

Family and Individual Unit	% Some	% H.S.	% Some	% College	Pre-School	K-12	2	Col	lege
Sub Group/Income %	H.S.	Diploma	College		(Aged 3+)	Public	Private	Full-Time	Part-Time
All Family and Individual Units	10%	28%	28%	34%	4,991	48,539	5,635	13,759	4,596
Bottom 20% (\$0-\$10K)	23%	34%	27%	16%	530	5,558	414	2,988	497
Second 20% (\$10K-\$34K)	13%	36%	31%	20%	711	7,384	589	2,079	707
Middle 20% (\$34K-\$66K)	9%	30%	30%	31%	872	9,958	843	2,016	937
Fourth 20% (\$66K-\$122K)	6%	24%	29%	41%	1,284	11,938	1,394	2,837	1,123
Top 20% (\$122K+)	3%	15%	23%	60%	1,555	13,209	2,343	3,637	1,291
Single No Kids	9%	28%	30%	33%	_	664	77	5,508	1,573
Bottom 20%	17%	34%	31%	19%	_	191	30	2,413	304
Second 20%	10%	34%	34%	21%	_	182	22	1,271	395
Middle 20%	5%	28%	30%	37%	_	140	5	815	412
Fourth 20%	3%	18%	26%	53%	_	82	9	594	304
Top 20%	2%	14%	18%	66%	_	57	6	285	141
Single Parents	18%	30%	33%	19%	1,350	16,355	1,075	1,164	441
Bottom 20%	39%	32%	24%	6%	406	4,004	262	269	88
Second 20%	15%	37%	36%	11%	425	4,735	309	322	122
Middle 20%	8%	30%	39%	22%	317	4,450	265	289	145
Fourth 20%	5%	18%	32%	45%	134	2,143	134	197	68
Top 20%	5%	16%	24%	55%	49	754	92	65	8
Married No Kids	8%	27%	28%	38%	_	654	105	3,494	1,077
Bottom 20%	24%	32%	22%	22%	_	13	_	103	29
Second 20%	18%	35%	27%	20%	_	32	2	179	37
Middle 20%	13%	36%	29%	22%	_	107	10	415	121
Fourth 20%	7%	31%	31%	31%	_	202	25	981	302
Top 20%	3%	18%	26%	53%	_	292	67	1,794	580
Married Parents	9%	21%	26%	45%	3,570	29,797	4,263	3,067	1,101
Bottom 20%	26%	32%	20%	23%	113	1,096	101	116	26
Second 20%	25%	34%	25%	17%	266	2,221	234	199	53
Middle 20%	18%	32%	30%	21%	548	5,047	537	412	180
Fourth 20%	7%	24%	32%	37%	1,138	9,336	1,214	977	385
Top 20%	2%	11%	21%	66%	1,485	11,908	2,147	1,336	454
Elderly (age 65+)	13%	31%	26%	30%	71	1,068	115	526	405
Bottom 20%	25%	37%	24%	15%	11	254	21	86	50
Second 20%	13%	37%	27%	23%	20	214	23	108	100
Middle 20%	8%	32%	27%	34%	7	214	25	85	79
Fourth 20%	6%	24%	27%	42%	13	176	12	89	64
Top 20%	4%	16%	24%	56%	21	198	31	157	108

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In 2017, 34% of all heads-of-households had a college degree, with the percentage climbing with each income cohort, from 16% at the lowest income cohort to 60% at the highest. Another 28% had some college education, and 28% had only a high school diploma. Ten percent of all heads-of-households had no college degree or high school diploma.

By family type, married parents are most likely to be among the college-educated, at 45% of the heads of these households having graduated college. The least likely are single parents, at 19% having graduated college. The highest-educated group are single with no kids and married parents in the top 20% by income, with 66% holding college degrees. Those with the least education are single parents in the bottom 20% by income, of whom just 6% are college graduates and 39% have only some high school education.

Wealth and savings

The wealth and savings reporting unit encourages wealth creation through fair taxation and tools for homeownership, and encourages saving for retirement through pension plans, Social Security, and Medicare, while seeking to maintain a manageable balance between current expenditures and future debt.

Wealth creation

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Rate of savings as a percentage of disposable income ¹	13%	13%	15%	9%	—ppt	(2)ppt	4ppt
Total household financial assets (primarily at market value) (in							
billions)	\$ 85,037	\$ 78,138	\$ 61,513	\$ 54,557	9%	38%	56%
Average financial assets (per household)	\$ 673,700	\$ 621,035	\$ 508,018	\$ 470,277	8%	33%	43%
Average financial assets adjusted for inflation (2017 base)	\$ 673,700	\$ 632,836	\$ 548,395	\$ 548,899	6%	23%	23%
Homeownership rate (as a percentage of households)	64%	64%	66%	68%	—ppt	(2)ppt	(4)ppt
Average real estate assets (per household)	\$ 238,219	\$ 222,174	\$ 170,376	\$ 221,938	7%	40%	7%
Average real estate assets adjusted for inflation (2017 base)	\$ 238,219	\$ 226,395	\$ 183,918	\$ 259,042	5%	30%	(8)%
Average home mortgage debt (per household)	\$ 79,625	\$ 77,603	\$ 78,986	\$ 91,594	3%	1%	(13)%
Average home mortgage debt adjusted for inflation (2017							
base)	\$ 79,625	\$ 79,078	\$ 85,264	\$ 106,907	1%	(7)%	(26)%

^{*} We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available.

The rate of savings as a percentage of disposable income increased 4 percentage points over the past decade, due to increases in income that outpaced increases in expenditures. Disposable income increased primarily due to higher wages and salaries (32% increase) and government benefits (65% increase), as well as due to retirement benefit distributions (48% increase) and sole proprietor/partnership income (53% increase). See analysis of the taxable components of income in *Revenues, Federal individual income tax revenue* above. Expenditures increased primarily in the categories of health (457% increase), food (38% increase), and housing (17% increase).

Financial assets

Total and average (per household) financial assets (excluding real estate) increased over the past decade, 56% and 43%, respectively. Total household financial assets increased \$30.5 trillion, primarily reflecting increases in pension entitlements (\$9.5 trillion), corporate equities (\$7.8 trillion), mutual fund shares (\$4.1 trillion), and time and savings deposits (\$3.3 trillion). Average household financial assets increased at a lower rate than total household financial assets due to a 9% increase in the number of households.

Real estate

In 2017, 64% of households owned their home. The percentage of families that are homeowners fell 4 percentage points over the last decade, including:

- *By geography*, the largest decrease was at 4.6 percentage points in the West, and the lowest decrease was at 2.8 percentage points in the Midwest;
- By race and ethnicity, the largest decrease was among black people at 4.7 percentage points, and the lowest decrease was among non-Hispanic white people at 2.8 percentage points; and
- By income group, the rate of decrease was 5.3 percentage points among households with family income greater than or equal to the median family income and 2.4 percentage points among households with family income less than the median.

Disposable income is a USAFacts defined value equal to market income plus government transfers to households (includes Social Security, Medicare, Medicaid, Supplemental Security Income, SNAP, EITC, etc.), minus direct taxes (including payroll taxes, personal income taxes, taxes on owner-occupied housing, etc.).

Average real estate assets (not included in financial assets) per household increased 7% over the past decade, while average mortgage debt decreased 13%. However, since 2012, average real estate asset values per household have been climbing, and since 2015, average home mortgage debt per household has been climbing. In 2017, average real estate assets less average mortgage debt per household was \$158,594.

Wealth profile (2016, only produced every three years)

	Average Assets (thousands)	Average Debt (thousands)	Average Net Worth (thousands)	Ratio of Debt Payments to Income (Avg.)	% Families Past Due on Debt (60 Days)	% Families that Saved
All families	\$ 787	\$ 95	\$ 692	10.8%	5.8%	55.4%
Bottom 20% of income ¹	109	20	90	16.2%	8.0%	32.1%
Second 20% of income ¹	163	34	129	14.6%	7.8%	45.2%
Middle 20% of income ¹	269	62	207	15.3%	7.7%	57.2%
Fourth 20% of income ¹	441	110	374	15.7%	3.9%	64.8%
Top 20% of income ¹	2,912	251	2,661	8.2%	1.6%	77.6%
Under 35	144	68	76	14.1%	8.6%	56.7%
Age 35-44	422	133	289	15.2%	9.1%	56.7%
Age 45-54	862	135	728	11.7%	6.0%	55.1%
Age 55-64	1,276	108	1,168	9.1%	4.4%	55.0%
Age 65-74	1,133	66	1,067	7.9%	3.2%	54.3%
Age 75+	1,104	37	1,067	6.0%	1.4%	53.5%

[†] Data from the Survey of Consumer Finances, The Federal Reserve Board. This source has a subset of this data for more recent periods.

By income cohort, in 2016, families in the top 20% of income had higher average net worth than all other income cohorts, including 611% higher net worth than the next highest income cohort, and 2,857% higher net worth than the lowest income cohort.

Families in all income cohorts held a plurality (24% overall) of their assets in primary residences. By age, average assets in 2016 grew as we moved up each age cohort, peaked at ages 55 to 64 years old, and then decreased again for those age 65 and older. Except for those age 55 to 64, families of each age group held the largest portion of their assets in primary residences, followed by other non-financial assets (except for those under age 35, where other financial assets was the second highest category). Those age 55 to 64 held a plurality of their assets, 24%, in other nonfinancial assets.

Families in all income and age cohorts held a majority (67% overall) of their debt in primary residence mortgages. The second highest debt category for all income and age cohorts was education loans, except for the top 20% income cohort and age cohorts 45 and older, where other residential debt was the second highest category. By age, average debt in 2016 grew as we moved up each age cohort, peaked at ages 45 to 54 years old, and then decreased again for those age 55 and older.

The ratio of debt payments to income did not follow a discernable pattern as we moved between income cohorts, with the highest ratio in the fourth income quintile from the bottom and the lowest ratio in the top income quintile. The ratio of debt payments to income, however, peaked at age 35 to 44 and then decreased as we moved up the age cohorts.

The percentage of families that were past due on debt by 60 days or more decreased as we moved up the income cohorts. By age, the rates peaked at age 35 to 44, then decreased as we moved up the age cohorts.

The income classifier used is "usual" income, designed to capture a version of household income with transitory fluctuations smoothed away in order to approximate the economic concept of "permanent" income. Usual income differs from actual income when the respondent reports that the family experienced a negative or positive income "shock" that is unlikely to persist, say from a temporary unemployment spell or an unexpected salary bonus; respondents are given the option to report their usual income if they believe they experienced a temporary deviation. The definition of "family" is a primary economic unit (PEU), distinct from everyone else in the household. The PEU is intended to be the economically dominant single person or couple (whether married or living together as partners) and all other persons in the household who are financially interdependent with that economically dominant person or couple.

The percentage of families that saved increased as we moved up the income cohorts. By age, the rates of those who saved did not vary greatly, clustering around 50%-55%, with the maximum variance in savings rates between age cohorts at 4.2 percentage points.

Retirement

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Elderly (65+) poverty rate	10%	9%	9%	10%	1ppt	1ppt	—ppt
Number of active participants in private pension plans (in							
thousands) 1	94,625	93,851	91,163	86,280	1%	4%	10%
Active participants in private pension plans as a percentage of the							
working age population	45%	45%	44%	44%	—ppt	1ppt	1ppt
Private retirement plan assets per active participant ¹ \$	103,134 \$	91,794 \$	76,415 \$	70,590	12%	35%	46%
Private retirement plan assets per active participant adjusted for							
inflation (2017 base) \$	103,134 \$	93,538 \$	82,488 \$	82,391	10%	25%	25%
Rate of return earned by pension plans with 100 or more							
participants	13.6%	6.9%	11.5%	9.5%	6.7ppt	2.1ppt	4.1ppt
Number of active participants in 401(k) type private pension							
plans (in thousands) 1	68,187	67,121	63,088	59,566	2%	8%	14%
Active participants in 401(k) type private pension plans as a							
percentage of the working age population	33%	32%	31%	30%	1ppt	2ppt	3ррт
401(k) type private retirement plan assets per active participant ¹ \$	80,314 \$	70,596 \$	55,956 \$	50,054	14%	44%	60%
401(k) type private retirement plan assets per active participant							
adjusted for inflation (2017 base) \$	80,314 \$	71,937 \$	60,403 \$	58,422	12%	33%	37%
Rate of return earned by 401(k) type plans with 100 or more							
participants	15.8%	7.6%	11.2%	7.6%	8.2ppt	4.6ppt	8.2ppt

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Elderly poverty

The rate of the elderly in poverty, 10%, is equal to the rate of a decade ago. In 2017, by gender, the rate of poverty was higher among female elderly, at 11% of the respective population, than among male elderly, at 8% of the respective population. The poverty rates were the highest among elderly black at 19%, down from 23% in 2007, whereas the poverty rates were the lowest among the elderly Asian at 11%, having remained flat since 2007.

Private pension plan participation

The number of active participants in private pension plans, including 401(k) type plans, has increased over the past decade, outpacing the increase in the working age population. Underlying the overall increase is a 21% increase in active participation in defined contribution plans, offset in part by a 31% decrease in active participation in defined benefit plans. Defined contribution plans are pension plans where the periodic contribution by the sponsor is known but the ultimate benefit to be provided is unknown. Defined benefit plans are pension plans where the ultimate benefit to be provided by the sponsor is known and the contribution amount may vary to reach that goal.

Private pension plan assets per active participant increased over the past decade, outpacing inflation. In 2017, average pension plan assets per active participant amounted to \$103,134 in all private pension plans and \$80,314 in 401(k) type plans. Annual rates of return on private pension plan assets were greater in 2017 than a decade ago, at 14.8% for all private pension plans and 15.8% for 401(k) type plans in 2017, compared to 8.5% for private pension plans and 7.6% for

Active participants include any workers currently in employment covered by a plan and who are earning or retaining credited service under a plan. This category includes any nonvested former employees who have not yet incurred a break in service. Active participants also include individuals who are eligible to elect to have the employer make payments to a Code section 401(k) plan.

401(k) type plans in 2007. For comparative purposes, using beginning and ending federal fiscal year (October 1 to September 30) closing prices, the S&P 500 produced a 16.2% return in 2017 and a 14.3% return in 2007.

Government obligations

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Total Government debt held by the public as % of GDP Total Government debt held by the public per person	\$ 86% 51,685	\$ 87% 50,848 \$	84% <i>43,578</i> \$	49% 23,613	(1)ppt <i>2%</i>	2ppt <i>19%</i>	37ppt 119%

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Total Government debt held by the public as a percentage of GDP increased 37 percentage points over the last decade, with Government debt held by the public increasing 136% and GDP increasing 35%. Per person in the US, total Government debt held by the public increased 119%. See additional discussion of our Government's debt at *Financial Condition, Debt* below.

Sustainability and self-sufficiency

The sustainability and self-sufficiency reporting unit works to protect our environment, manage our natural resources responsibly, and increase our self-sufficiency.

Energy and water

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Energy							
Primary energy consumption (quadrillion Btu) 1	98	97	94	101	1%	4%	(3)%
Energy consumption from renewable sources and nuclear (quadrillion Btu)	20	19	17	15	5%	18%	33%
Net consumption of energy (quadrillion Btu)	10	13	15	30	(23)%	(33)%	(67)%
Spot price of West Texas Intermediate (WTI) crude oil per barrel	\$ 50.80	\$ 43.29	\$ 94.05	\$ 72.34	17%	(46)%	(30)%
Spot price of Henry Hub natural gas per million Btu	\$ 2,99	\$ 2.51	\$ 2.75	\$ 6.98	19%	9%	(57)%
Coal prices per short ton – open market	\$ 31.80	\$ 31.14	\$ 38.11	\$ 26.20	2%	(16)%	21%
Water							
Water use per day (billions of gallons) ²	na	na	na	na	na	na	na

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Energy

Primary energy consumption decreased over the past decade, while the portion of our energy consumption that is fueled by renewable sources and nuclear grew. Over the past decade, consumption of fossil fuels decreased 7.9 quadrillion Btu or 9%, while renewable energy consumption increased 4.7 quadrillion Btu or 71% and consumption of nuclear electric power increased 40 trillion Btu or less than 1%. By source, over the past decade:

• Fossil fuels - Consumption of coal and petroleum decreased (8.9 quadrillion Btu or 39% and 3.3 quadrillion Btu or 8%, respectively) while consumption of natural gas increased (4.4 quadrillion Btu or 18%). The price of a

^{na} An "na" reference in the table means the data is not available.

Primary energy is energy in the form found at its original source, which has not been converted or transformed.

² The USGS had estimated water use for the US every 5 years since 1950. In 2016, it stopped, and we are not aware of a new source for this data.

- barrel of crude oil dropped 30% in the past decade, while the price of natural gas dropped 57%. Coal prices increased 21% between 2007 and 2017.
- Renewable sources Consumption of energy from all renewable energy sources increased, with wind increasing the most (2.0 quadrillion Btu or 588%) followed by biofuels (1.6 quadrillion Btu or 46%), with geothermal having the smallest increase (24 million Btu or 13%). Biofuel is biomass converted directly into liquid fuels, of which the two most common types in use today are ethanol and biodiesel.

By sector, primary energy consumption decreased over the past decade across the electric power, transportation, and residential sectors, led by a 3.1 quadrillion Btu or 8% decrease in the electric power sector. On the contrary, primary energy consumption increased in the industrial and commercial sectors, led by growth in the commercial sector of 774 trillion Btu or 4%.

Over the past decade, we have increased our energy self-sufficiency, decreasing our net consumption of energy from 30 quadrillion Btu in 2007 to 10 quadrillion Btu in 2017. Our production of all sources of energy increased, except for coal, and our consumption decreased. In 2017 as compared to 2007, we imported 20% fewer barrels of crude oil.

Water use

Water use data is not available for certain recent years and was only produced every five years. However, between 2005 and 2015, the latest ten-year period the data was available, water use declined by 88 billion gallons per day or 21%. All major use categories saw declines over this ten-year period, except mining where water use increased 4%. The largest gallon and percentage decreases were for thermoelectric power, for which water use decreased 68 billion gallons per day or 34% over ten years.

Environment quality and violations

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Air							
Emissions (million metric tons of CO ₂ equivalents)	6,457	6,492	6,546	7,370	(1)%	(1)%	(12)%
Atmospheric CO ₂ (parts per million)	406.6	404.2	393.9	383.8	1%	3%	6%
Days reaching "unhealthy for sensitive groups" level or worse air quality 1	729	701	1,297	1,797	4%	(44)%	(59)%
Air violations (facilities)	2,106	2,292	6,255	na	(8)%	(66)%	na
Air violations as % of facilities inspected	14%	15%	39%	na	(1)ppt	(25)ppt	na
Water							
Percentage of assessed waters threatened or impaired ² :							
Bays and estuaries	na	82%	79%	na	na	na	na
Wetlands	na	46%	54%	na	na	na	na
Lakes, reservoirs, and ponds	na	71%	70%	na	na	na	na
Rivers and streams	na	42%	56%	na	na	na	na
Drinking water violations (facilities)	50,052	50,113	56,838	na	—%	(12)%	na
Drinking water violations as % of facilities inspected	90%	94%	98%	na	(4)ppt	(8)ppt	na
Other							
Hazardous waste violations (facilities)	9,877	10,135	12,598	na	(3)%	(68)%	na
Pesticide violations (number of federal violations)	na	1,142	1,218	na	na	na	na

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na An "na" reference in the table means the data is not available.

Shown are the number of days among 35 major US cities combined in which the Air Quality Index (AQI) for ozone and fine particulate pollution (PM_{2.5}) combined was unhealthy for sensitive groups or above. A number of factors influence ozone formation, including emissions from cars, trucks, buses, power plants, and industries, along with weather conditions. Weather is especially favorable for ozone formation when it's hot, dry and sunny, and winds are calm and light. Fine particle pollution can be emitted directly from cars, trucks, buses, power plants and industries, along with wildfires and woodstoves. But it also forms from chemical reactions of other pollutants in the air.

The Clean Water Act requires states, territories and authorized tribes (States for brevity) to monitor water pollution and report to EPA every two years on the waters they have evaluated. This process is called assessment. Part of this process is deciding which waters do not meet water quality standards because they are too polluted. These degraded waters are called impaired (polluted enough to require action) and are placed on a State list for future actions to reduce pollution. The EPA warns - because of differences in state assessment methods, this information should not be used to determine water quality trends.

Air

Emissions (CO₂ equivalents) decreased over the past decade. By emission type, carbon dioxide (CO₂), nitrous oxide, and methane emissions decreased by 14%, 8%, and 6%, respectively, while fluorinated gas emissions increased 10%. Overall emissions decreased in every sector (including electricity generation, transportation, industrial, and residential) over the last decade except the commercial sector (4% increase).

Below is a brief summary of the various emission types:

- Carbon dioxide enters the atmosphere through burning fossil fuels (coal, natural gas, and oil), solid waste, trees and wood products, and also as a result of certain chemical reactions. Carbon dioxide is removed from the atmosphere (or "sequestered") when it is absorbed by plants as part of the biological carbon cycle.
- *Methane* emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and by the decay of organic waste in municipal solid waste landfills.
- *Nitrous oxide* emitted during agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste.
- Fluorinated gases synthetic gases that are emitted from a variety of industrial processes. Fluorinated gases are sometimes used as substitutes for stratospheric ozone-depleting substances (e.g., chlorofluorocarbons, hydrochlorofluorocarbons, and halons). These gases are typically emitted in smaller quantities, but they are potent.

Despite decreased emissions in the US, atmospheric CO_2 as measured from the Mauna Loa Observatory, has increased consistently. In the cities tracked, the number of days the air was considered unhealthy for sensitive groups decreased over the past decade. In 2017, the city with the highest number of unhealthy air days was Los Angeles (121 days, as compared to 124 days in 2007). Minneapolis had zero unhealthy air days in 2017, as compared to 13 unhealthy air days in 2007. Unhealthy air days are generally caused by emissions from cars, trucks, buses, power plants, and industries, along with wildfires and woodstoves.

Within this reporting period, we have limited data on air violations. However, both the number of facilities inspected and the number of violations decreased when comparing 2012 to 2017.

Water

The percentage of assessed waters found to be threatened or impaired is reported every two years. Comparing 2016 to 2006 (the closest years we have to the decade reported here), the percentage of threatened or impaired waters decreased for rivers and streams but increased for bays and estuaries, wetlands, lakes, reservoirs, and ponds. The most common cause of impairment in 2016 was:

- for bays and estuaries Polychlorinated Biphenyls (PCBs) followed by nutrients, turbidity, mercury, metals other than mercury, toxic organics, dioxins, and pesticides (each the cause of more than 5,000 square miles of threat or impairment);
- for wetlands organic enrichment/oxygen depletion, mercury, metals other than mercury, salinity/total dissolved solids/chlorides/sulfates, pathogens, and nutrients (each the cause of more than 50,000 acres of threat or impairment);
- for lakes, reservoirs, and ponds mercury followed by nutrients, PCBs, turbidity, metals other than mercury, algal growth, organic enrichment/oxygen depletion, and nuisance exotic species (each the cause of more than 300,000 acres of threat or impairment); and
- for rivers and streams pathogens followed by metals other than mercury, nutrients, organic enrichment/oxygen depletion, sediment, and habitat alterations (each the cause of more than 20,000 miles of threat or impairment).

Regarding drinking water violations, the number of facilities inspected decreased when comparing 2012 and 2017, but increased in both 2016 and 2017, while the number of violations decreased during the same period. We do not have data for 2007.

Agriculture

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
(In millions of metric tons, except for percentages or otherwise noted)	2017	2016	2012	2007	2016	2012	2007
Crops harvested (in millions of acres)	320	323	324	322	(1)%	(1)%	(1)%
Crops harvested per 1,000 acres of cropland	947	961	953	961	(1)%	(1)%	(1)%
Crop failures (in millions of acres)	9	7	11	8	(29)%	(18)%	13%
Domestic production of grains and soy	482	513	389	450	(6)%	24%	7%
Domestic consumption of grains and soy	390	394	343	337	(1)%	14%	16%
Excess of grains and soy production over consumption	92	119	46	113	(23)%	100%	(19)%
Domestic production of meat and poultry	24	41	42	41	(41)%	(43)%	(41)%
Domestic consumption of meat and poultry	22	36	36	38	(39)%	(39)%	(42)%
Excess of meat and poultry production over consumption	2	5	6	3	(60)%	(67)%	(33)%

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

Over the past decade, crops harvested, absolute and per acre, remained fairly consistent, while crop failures fluctuated and increased overall. Over the past decade, the US has remained self-sufficient for its major food sources of grains, soy, meat, and poultry by producing more than it consumes.

American Dream

The American Dream reporting unit works to equalize opportunity for economic mobility, civil rights, and democratic and community participation in the US.

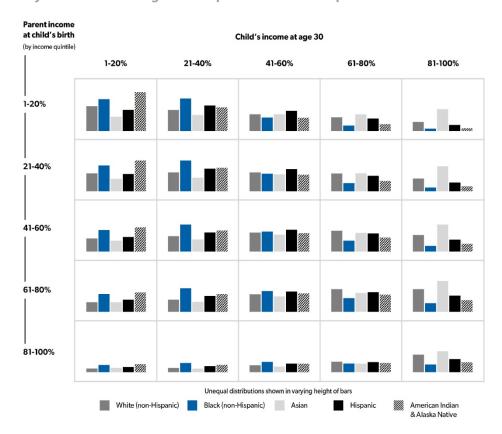
Economic mobility

Our Government seeks to equalize economic mobility opportunity in the US, where each kid has an equal opportunity to move to a higher income group than the one into which he or she is born. By income quintile (shown below), this would mean that every child would have a 20% chance of ending up in any quintile.

The chart below (from a study that linked data from the Census Bureau and the IRS) shows differences in economic mobility by race and ethnicity.⁴⁸ Looking at the bottom quintile alone shows how both income and race/ethnicity can impact a child's likelihood of moving up. On average, among kids born into the bottom quintile:

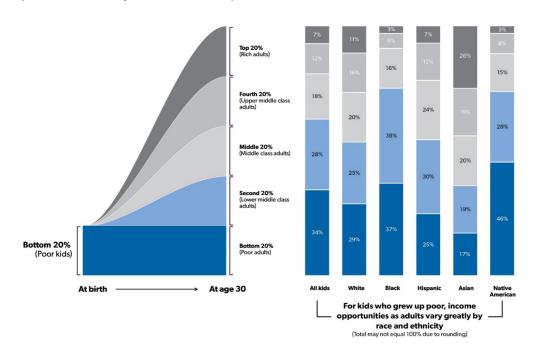
- Asian kids have an 83% chance of moving up;
- Hispanic kids have a 75% chance of moving up;
- White (non-Hispanic) kids have a 71% chance of moving up;
- Black (non-Hispanic) kids have a 63% chance of moving up; and
- American Indian and Alaskan Native kids have a 55% chance of moving up.

What is a person's likely income around age 30 compared to his or her parents' income at birth?



What economic mobility looks like for children in poverty

Poor kids who start out in the bottom 20% have a certain likelihood to "move up" to higher income levels as adults depending on many factors including race and ethnicity.



Civil rights

Our Government seeks to ensure that minorities are protected and to reduce the number of civil rights crimes in the US.

					Change 2017 vs.	Change 2017 vs.	Change 2017 vs.
	2017	2016	2012	2007	2016	2012	2007
Hate crime incidents	7,175	6,121	5,796	7,624	17%	24%	(6)%
Hate crime incidents (per 1 million people)	22	19	18	25	16%	22%	(12)%
Equal employment charges	84,254	91,503	99,412	82,792	(8)%	(15)%	2%
Equal employment charges (per 1 million employees)	549	596	698	567	(8)%	(21)%	(3)%
Equal employment charges (per 1 million job openings)	6,505	6,949	8,138	6,125	(6)%	(20)%	6%
Housing discrimination complaints	8,186	8,385	8,818	10,154	(2)%	(7)%	(19)%
Housing discrimination complaints per housing unit	60	62	66	<i>7</i> 9	(3)%	(9)%	(24)%
Health discrimination investigations	1,140	911	4,340	2,221	25%	(74)%	(49)%
Health discrimination investigations per 1,000,000 people	4	3	14	7	33%	(71)%	(43)%

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

Civil rights outcomes have been mixed over the past decade. Overall, reports of hate crime incidents decreased over the past decade, with the largest decrease reported for race/ethnicity/ancestry, partially offset by increases in religion, gender identity, and multiple-bias reports. Race, ethnicity, and ancestry crimes reported decreased at the highest rate at 15%. Overall reported hate crimes reversed trend in 2015, increasing 7%, and they continued to increase in 2017, up 17% from 2016. Hate crimes increased in 2017 across every category except for gender identity. Disability hate crimes increased at the highest rate, at 66% in 2017.

Compared to a decade ago, equal employment charges increased overall, and results were mixed across categories. Charges increased for retaliation, gender, disability, color, religion, and equal pay, while they decreased for race, age, and national origin.

Housing discrimination complaints and health discrimination investigations can fluctuate significantly but generally decreased over the decade included in this report.

Democratic participation

Our Government seeks to encourage civic participation, including voting. The voting-age population was 246 million in 2016, an increase of 4% over 2012. Among people of voting age, 64% were registered to vote in 2016; among citizens of voting age, the registered proportion was 70%. That level has changed little since 1996 but is down from a peak of 75% in 1992.

	2016	2012	2008	2004	Change 2016 vs. 2012	Change 2016 vs. 2008	Change 2016 vs. 2004
Rate of citizen voting in presidential elections	61%	62%	64%	64%	(1)ppt	(3)ppt	(3)ppt
Rate of voting per registered voter	87%	87%	90%	88%	—ppt	(3)ppt	(1)ppt

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

The proportion of US citizens of voting age who voted in presidential elections has decreased. Voting rates have varied by demographic:

the voting rate for women has been higher than for men since 1980;

- by age, the lowest voting rate in 2016, 39%, was among 18 to 24-year-olds, while the highest, 68%, was among voters 65 and older;
- among people with less than a ninth-grade education, the voting rate in 2016 was 18%, while among those with a bachelor's degree or more, it was 71%; and
- regionally, the voting rate in 2016 was highest in the Midwest (61%) and lowest in the West (53%).

By race and ethnicity, the voting rate for citizens in 2016 was highest among non-Hispanic white people, at 64%, followed by black people, at 56%. Participation in 2016 was lowest among Asian (34%) and Hispanic (33%) people. The voting rate among black people jumped from 56% in 2004 to 61% in 2008, the year Barack Obama was elected the nation's first black president, and was 62% in 2012 for his second term, before dropping again to 56% in 2016 when Obama left office.

	2014	2010	2006	2002	Change 2014 vs. 2010	Change 2014 vs. 2006	Change 2014 vs. 2002
Rate of citizen voting in midterm elections	42%	46%	48%	46%	(4)ppt	(6)ppt	(4)ppt
Rate of voting per registered voter	65%	70%	71%	69%	(5)ppt	(6)ppt	(4)ppt

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

Voting rates are even lower in nationwide midterm elections, when citizens choose all members of the US House of Representatives and a third of the Senate but not the president. The midterm-voting rate among citizens fell in all periods discussed in this MD&A.

Since 1986, women have been more likely to vote in midterm elections than men. As in presidential elections, voting frequency in midterms increases with age and educational attainment. By race and ethnicity, the midterm voting rate in 2014 was highest among white, non-Hispanic people at 45% and lowest among Hispanic people at 18%. The Midwest region had the highest midterm voting rate throughout the periods shown above, ranging from a low of 42% in 2014 to a high of 51% in 2006, while the region with the lowest voting rate was the Northeast at 36% in 2014.

Community participation

Our Government seeks to encourage the building of strong communities throughout the US.

	2017	2016	2012	2007	Change 2017 vs. 2016	Change 2017 vs. 2012	Change 2017 vs. 2007
Volunteering rate	30%	25%	27%	26%	5ppt	3ppt	4ppt
Median volunteer hours per year	na	na	na	na	na	na	na
Total giving (in millions, for tax years)	\$ 256,065	\$ 233,867	\$ 199,270	\$ 193,604	9%	29%	32%
Total giving adjusted for inflation (base 2016)	\$ 256,065	\$ 238,311	\$ 215,108	\$ 225,971	7%	19%	13%
Total giving per \$100,000 of Adjusted Gross Income	\$ 256	\$ <i>22</i> 9	\$ 219	\$ 213	12%	17%	15%

We limited the key metrics data in this table to the years presented to be consistent with the previous sections of this MD&A. The most recent data in those sections is 2017, as that is the latest date for which comprehensive Government-wide financial data is available. Additional years of key metrics data may be found on our website. Click "More detail" to access it.

Volunteering

The proportion of Americans taking part in volunteer activities grew over the past decade, among males and females and across all age groups and education levels. Data by level of education, by age group, and by gender for 2016 and 2017 were not available at the time of this report's release. Volunteering in 2015 was most prevalent among people ages 35 to 49 and least prevalent in the youngest age group tracked, ages 15 to 24. People with higher levels of education (a bachelor's degree or higher) and women were more likely to volunteer than people with less education and men. Men

An "na" reference in the table means the data is not available.

who volunteered were most likely to engage in general labor (12%); coach, referee, or supervise sports teams (9%); or collect, prepare, distribute, or serve food (9%). Female volunteers were most likely to collect, prepare, distribute, or serve food (13%); tutor or teach (11%); or fundraise (10%). Though the portion of the population volunteering decreased, the median number of volunteer hours per year remained consistent between 2007 and 2015. With respect to median volunteer hours, the most hours were worked by those ages 65 and older, while the least hours were worked by those ages 16 to 24.

Philanthropy

Americans claimed \$256 billion in charitable deductions in tax year 2017, an average of \$6,742 per tax return with claims. This is compared with \$194 billion in charitable deductions, an average of \$4,708 per tax return, in 2007. Charitable deductions generally increase as income increases. By income cohort:

- the group with the greatest aggregate dollars claimed and number of associated tax returns in both 2017 and 2007 were those with AGI between \$100,001 and \$200,000, who claimed an aggregate of \$57 billion in charitable deductions in 2017, or an average of \$4,402 per tax return, and an aggregate of \$40 billion in 2007, or an average of \$3,815 per tax return;
- the group with the greatest dollars claimed per tax return were those with AGI of \$10 million or more, who claimed an aggregate of \$47 billion in charitable deductions in 2017, or an average of \$2.5 million per tax return. This is compared to an aggregate of \$31 billion in 2007, or an average of \$1.7 million per tax return.

Financial condition⁴⁹

Liquidity and capital resources

Cash and other monetary assets

Our Government's cash and other monetary assets decreased \$176 billion or 15% in 2017 to \$1,025 billion, including \$271 billion of federal funds and \$754 billion of state and local funds.

Cash and other monetary assets decreased \$197 billion or 42% at the federal level, primarily relating to operating cash held by the Treasury, which fluctuates due to Treasury's management of the balance and timing of our Government's cash position, including investment and borrowing decisions.

Cash and other monetary assets increased \$21 billion or 3% at the state and local government level, primarily reflecting a \$23 billion or 4% increase in non-pension cash and other monetary asset balances.

Our Government holds cash and monetary assets primarily to fund near-term operations and existing obligations and where otherwise required by law. It also holds international monetary assets in the International Monetary Fund (IMF). The IMF promotes international monetary cooperation and a stable payments system to facilitate growth in the world economy. Further discussion of the federal government's IMF related assets can be found in *Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements, Note 2 – Cash and other monetary assets.*

Debt and equity securities

Our Government's debt and equity securities comprise mainly corporate equities, corporate and foreign bonds, and agency and government-sponsored enterprise (GSE)-backed securities, primarily held at the state and local level. These securities are predominantly US dollar-denominated securities, but also include foreign currency-denominated securities.

Government debt and equity securities increased \$394 billion or 9% in 2017 to \$4,938 billion. Of the total increase, state and local investments increased \$386 billion, while federal investments increased \$8 billion. At the state and local level, there was a \$267 billion increase in investments of pension assets, which are not considered liquid assets our Government

can use for general operations, as well as an increase of \$119 billion related to non-pension assets, reflecting increases in agency and GSE-backed securities and corporate equities of \$42 billion each.

Off balance sheet assets, liabilities, and other arrangements

There are significant resources available to our Government that extend beyond the assets reflected in the accompanying balance sheets. Those resources include stewardship land (e.g. national parks, wildlife refuges, national forests, and other lands of national and historical significance) and heritage assets (e.g. national monuments and historical sites of historical, natural, cultural, educational, or artistic significance) in addition to our Government's sovereign powers to tax and set monetary policy.

The federal government states that stewardship land and heritage assets are not expected to be used to meet the obligations of the federal government, and as such, they are not recorded as assets on the balance sheet. However, our Government does generate revenues from these assets. See *Part II, Item. 8, Financial Statements and Supplementary Data, Note 22 – Stewardship land and heritage assets* within this annual report for more information.

The primary cash inflows of our Government come from its ability to tax and set monetary policy, for which there are no assets recorded on the balance sheet. Tax revenue comprised 87% and 93% of our Government's total revenues for 2017 and 2016, respectively.

Our Government has certain obligations and rights related to its relationship with GSEs that may not be recorded on the balance sheet. See *Note 8 – Investments in government-sponsored enterprises* in *Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements* within this annual report for more information.

Our Government also has certain other obligations that are not legal liabilities in our balance sheets. See *Note 18 – Contingencies* and *Note 19 – Commitments* for more information.

Debt

Total Government debt held by the public increased \$376 billion, or 2%, in 2017 to \$16,797 billion.

Federal government

The unified federal budget surplus or deficit is the difference between total federal spending and receipts (e.g. taxes) in a given year. Our Government borrows from the public (increases federal debt levels) to finance deficits by issuing Treasury bills, bonds, and notes. During a budget surplus (i.e. when receipts exceed spending), our Government typically uses those excess funds to reduce the debt held by the public. Total federal government debt held by the public was \$13,725 billion at September 30, 2017.

Foreign governments and other overseas entities top the list of holders of federal debt securities, owning \$6,302 billion or 43% of the total federal debt held by the public at September 30, 2017. That proportion has fluctuated over the years and was 44% in 2007 (the first year discussed in this MD&A). The biggest foreign holders of our federal government's debt in 2017 were China, holding \$1,182 billion or 8%, and Japan with \$1,096 billion or 7%, of the balance.

The second-largest category of holders of federal debt securities are American households and businesses, which owned \$4,530 billion at September 30, 2017, or 31% of the total federal debt held by the public.

The third-largest holder of federal debt is the Federal Reserve, the US central bank. The Federal Reserve's holdings jumped to \$2,868 billion at September 30, 2017 from \$780 billion at September 30, 2007, comprising 20% and 15%, respectively, of the total federal debt held by the public, as it sought to bring the country out of the Great Recession and keep the economy growing afterwards. To do that, the Federal Reserve bought large amounts of Treasury securities to keep long-term interest rates low. Buying Treasury securities pushes up their price, which in turn lowers the interest rate, or yield.

That makes it cheaper for companies and individuals to borrow, since many types of loans, including home mortgages, are linked to Treasury yields.

State and local government

State and local governments generally borrow to finance construction projects, including schools, hospitals, and roads. When these governments borrow, they sell bonds, which represent money that must later be repaid with interest. The state and local government debt balance was \$3,072 billion at September 30, 2017.

We are not aware of an aggregated source for a listing of holders of the state and local government debt held by the public.

Intergovernmental debt

In addition to debt held by the public, our federal government had \$5,643 billion in federal intergovernmental debt outstanding at September 30, 2017, which arose when one part of our federal government borrowed from another. This amount represents debt issued by the Treasury and held by federal government accounts, including the Social Security (\$2,891 billion) and Medicare (\$268 billion) trust funds. Because these amounts are both liabilities of the Treasury and assets of federal government trust funds, they are eliminated as part of the consolidation process for the federal government financial statements. However, when those securities are redeemed, for example, to pay future Social Security benefits, the Treasury will need to obtain the resources necessary to reimburse the trust funds.

There is also intergovernmental debt between the federal and the state and local governments, which generally arises when state and local governments invest in Treasury securities. We eliminated the state and local government holdings of Treasury securities when preparing our combined balance sheets. See *Item 8. Financial Statements and Supplementary Data, Notes to financial statements, Note 23 – Intergovernmental transfers* for more information.

Contractual obligations

The following table summarizes the payments due by fiscal year for our Government's outstanding contractual obligations as of September 30, 2017:

(In billions)	2018	20	2019-2020		2019-2020		2019-2020		2019-2020		2019-2020		2019-2020		019-2020 202		2021-2022 Thereafter		Tota	
Long-term debt: 1																				
Federal government Treasury securities principal payments	\$ 3,633	\$	3,439	\$	2,433	\$	4,169	\$	13,674											
Federal government Treasury securities interest payments ²	239		386		279		1,279		2,183											
State and local government principal payments ³	*		*		*		*		3,072											
Federal government long-term operating leases ⁴	*		*		*		*		37											
Federal undelivered orders ⁵	*		*		*		*		1,078											
Federal other commitments ⁶	*		*		*		*		566											
Total contractual obligations	\$ 3,872	\$	3,825	\$	2,712	\$	5,448	\$	20,610											

^{*} We are not aware of a source for this data by year.

¹ Excludes unamortized discounts and agency securities. See Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements, Note 11 – Debt securities held by the public and accrued interest within this annual report.

These amounts represent estimates of the amounts due for interest on federal government debt obligations. We calculated the interest payments using the September 2017 Monthly Statement of the Public Debt report from the Treasury (found at https://www.treasurydirect.gov/govt/reports/pd/mspd/2017/2017_sep.htm). We multiplied the outstanding Treasury security balances by each security's interest rate, to arrive at an annual expected interest payment. This sum was then multiplied by the number of years remaining on each security as of September 30, 2017, and grouped to arrive at the estimated interest payments for the years presented.

This amount represents total state and local government debt outstanding on the 2017 balance sheet. We are not aware of an aggregated source that provides the amount of principal debt payments in each of the years shown above. This amount does not include expected interest on the state and local government debt obligations as we are not aware of an aggregated source for this data.

⁴ This amount represents the federal long-term operating leases at September 30, 2017 that require then-future use of financial resources. See Note 19 – Commitments for more information. We are not aware of an aggregated source for state and local government long-term operating lease commitments.

- 5 This amount represents the federal government undelivered orders at September 30, 2017, which represent the value of goods and services ordered that had not yet been received as of that date. See Note 19 Commitments for more information. We are not aware of an aggregated source for state and local government undelivered orders.
- ⁶ This amount represents other federal government commitments at September 30, 2017 that may require then-future use of financial resources. See Note 19 Commitments for more information. We are not aware of an aggregated source for other state and local government commitments.

Companies are also required to report in the table above within their Form 10-Ks future capital lease obligation payments. We are not aware of a federal or state and local aggregated source for this data and as such, the table above omits this information.

Other expected uses of capital

We expect our Government will continue to invest in major government functions and programs, such as Social Security, Medicare, infrastructure, education, and training, to name a few, in alignment with its overall objectives.

Social insurance

The largest outlays of the federal government are the various social insurance programs (e.g. Social Security and Medicare) and grants to the states for Medicaid. Our Government records liabilities for social insurance programs when payments are due and payable to beneficiaries or service providers. These liabilities do not encompass total expected future expenditures.

The Treasury, in its *Financial Report*, provides Statements of Social Insurance (SOSI). The SOSI provide estimates of the potential future obligations for the most significant social insurance programs – Social Security, Medicare, Railroad Retirement, and Black Lung. The estimates represent the actuarial present values of the projected future net expenditures for the programs, generally based on continuation of then-current program provisions and economic and demographic assumptions from the respective programs' trustees over the following 75 years. The estimates at September 30, 2017 show net present values of estimated then-future net expenditures for Social Security, Medicare, and other social insurance programs of \$15.4 trillion, \$33.5 trillion, and \$0.1 trillion, respectively. More information on these programs and the related fiscal projections can be found at *Exhibit 99.06* and *Exhibit 99.07* of this Form 10-K.

Deferred maintenance and repairs

Deferred maintenance and repairs result from maintenance not being performed on assets on a timely basis. The consequences of not performing regular maintenance and repairs could include increased safety hazards, poor service to the public, higher costs in the future, and inefficient operations. The federal government estimates the cost to bring its property, plant, and equipment to an acceptable condition. These estimates exclude the cost of expanding the capacity of assets or upgrading them to serve needs beyond those originally intended. The federal government estimated that the deferred maintenance and repairs on its buildings, structures, and land was \$170 billion as of September 30, 2017. Estimated deferred maintenance and repairs costs are not recognized as a liability on the balance sheets.

Sustainability

Federal

Our federal government operates at a deficit nearly every year, with cash outflows exceeding inflows. We do not expect existing cash, cash equivalents, short-term investments, and cash flows from operations to be sufficient to fund federal government operations. Rather, we rely on our federal government's ability to issue debt securities or to adjust tax and other revenues to fund its activities. This is true for at least the next 12 months and thereafter for the foreseeable future.

Our federal government's ability to issue debt securities is subject to a statutory debt limit (the Debt Limit) and is impacted by its credit rating. The sum of debt held by the public and intergovernmental debt equals gross federal debt, which (with some adjustments) is the amount subject to the Debt Limit. At both September 30, 2016 and 2017, the debt subject to the Debt Limit was \$20 trillion, but there was no Debt Limit due to Congress' temporary suspension of it. During both fiscal years 2016 and 2017, delays in raising the debt limit resulted in the Treasury implementing "extraordinary measures" on a temporary basis, to enable the federal government to protect the full faith and credit of the US by

continuing to pay the nation's bills. These extraordinary measures permit the federal government to continue to honor pre-existing commitments; they do not increase spending or authorize new spending. As of September 30, 2017, and 2016, the federal government had the top two highest possible ratings among the largest credit rating agencies in the US. See *Item 7A. – Quantitative and Qualitative Disclosures about Market Risk, Sovereign credit rating* for further information.

According to the Treasury, an important item for citizens to understand is the current fiscal policy and the importance and magnitude of policy reforms necessary to make it sustainable. According to the Treasury, a sustainable policy is one where the ratio of debt held by the public to Gross Domestic Product (GDP) (the debt-to-GDP ratio) is stable or declining over the long term. GDP measures the size of the nation's economy in terms of the total value of all final goods and services that are produced in a year. The debt-to-GDP ratio is a measure commonly used to gauge a nation's ability to pay its debt, as GDP is one measure of a country's ability to generate the financial resources needed to service its debt. Total Government debt (federal and state and local) held by the public (excluding intergovernmental debt) was \$16,797 billion at September 30, 2017, or 86% of GDP, down from 87% of GDP at September 30, 2016. Total federal debt (including intergovernmental debt) was 75% of GDP, while federal debt held by the public (excluding intergovernmental debt) was 70% of GDP, at September 30, 2017.

The projections in the *Financial Report* at the end of 2017 indicate that the debt-to-GDP ratio was projected to reach 297% in 2092 and to rise continuously thereafter. The debt-to-GDP ratio rises at an accelerating rate despite primary deficits (the total budget deficit excluding net payments) that flatten out because higher levels of debt lead to higher net interest expenditures, and higher net interest expenditures lead to higher debt. Preventing the debt-to-GDP ratio from rising over the 75 years following 2017 was estimated by the Treasury to require some combination of spending reductions and revenue increases that amount to 2% of GDP over the projection period, no change from their 2016 estimates. While this estimate of the "75-year fiscal gap" is highly uncertain, the Treasury believes it is nevertheless nearly certain that then-current fiscal policies cannot be sustained indefinitely.

State and local

We are not aware of a consolidated state and local government source that analyzes its financial sustainability.

Application of critical accounting policies

Preparing financial statements requires preparers to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue, and expenses. These estimates and assumptions are affected by the application of accounting policies. As the combined financial statements in this annual report represent the aggregation of financial data prepared by other entities, and as we do not have complete information about the accounting policies used to prepare the data, we are unable to determine what are the critical accounting policies.

Item 7A. Quantitative and Qualitative Disclosures about Market Risk⁵⁰

The US is exposed to economic risk from its sovereign credit rating, interest rates, foreign exchange rates, equity prices, and commodity prices. These risks may impact our Government's combined financial statements as well as the overall US economic health and our Government's ability to achieve its objectives.

During 2017, the US economy continued its long expansion, unemployment declined to long-term lows, and financial conditions remained broadly stable, notwithstanding short bouts of volatility. US interest rates increased further from the extraordinarily low levels of the post-financial crisis period, as the Federal Reserve continued to tighten monetary policy. Key US asset prices appreciated further, in part reflecting the economy's strength, with valuations notably elevated in US equities, corporate debt, and some residential and commercial real estate markets. Overall, risks to the US financial stability remain moderate, while financial stability risks outside the US appear to have increased; most notably, the potential for a disorderly United Kingdom (UK) exit from the European Union (EU). As a result of post-crisis regulatory reforms, the US financial system is stronger and better-positioned to withstand a shock or an economic downturn than it was before the financial crisis.

Sovereign credit rating

A sovereign credit rating is the credit rating of a country. Sovereign credit ratings give investors insight into the level of economic and political risk associated with investing in a country. The sovereign credit rating usually influences a country's access to international funding and interest rates. A poor US credit rating could have significant impact on global financial markets.

The three major credit rating agencies, Standard & Poor's, Moody's, and Fitch, left overall ratings of US sovereign debt unchanged at AA+, Aaa, and AAA, respectively, during 2017, and each maintained a stable outlook for US Treasury securities at the end of 2017.⁵¹

Interest rate

The federal funds rate is maintained by the Federal Reserve and is generally viewed as the base rate for all other interest rates in the US economy. The higher the federal funds rate, the more expensive it is to borrow money. The US federal funds rate can influence domestic and international monetary and financial conditions. See more about the federal funds rate at *Part I, Item I. Purpose and Function of Our Government, Other related entities, The Federal Reserve* within this report.

The historically low-yield environment continued to encourage greater risk-taking across the financial system in 2017. In particular, as investors search for higher yields, some may add assets with higher credit or market risks to their portfolios. They may also use more leverage or rely on shorter-term funding. These actions tend to raise the overall level of financial risk in the economy and may put upward pressure on prices in certain markets. If prices in those markets were to fall sharply, owners could face unexpectedly large declines in their overall portfolio value, potentially creating conditions of financial instability. Although both short-term and long-term interest rates have risen since 2016, the consequences of past risk-taking may persist for some time.

The weaknesses of the London Interbank Offered Rate (LIBOR) may undermine market integrity and the uncertainty surrounding its sustainability could threaten US financial institutions and the US financial system more broadly. A new

appropriate alternative reference rate has been identified as the Secured Overnight Financing Rate (SOFR) and steps are underway to facilitate a transition away from LIBOR to SOFR.

Foreign currency

The currencies of most developed countries are valued based on the demand and supply of the currency. The value of currency can impact economic factors such as trade balance, GDP, and employment.

Despite depreciating in 2017, the dollar remains stronger, on a trade-weighted basis, than its longer-term historical average. The US dollar in 2017 was 13% stronger than its average level over the last 20 years, measured on a trade-weighted basis. The dollar has been supported by gradual interest rate increases from the Federal Reserve, continued strong growth in the US, and concerns about the growth outlook in some other large economies.

Equity

Generally, rising stock prices for companies from a particular country indicate a healthy, growing market, while a downward trend in stocks may reflect weakening fundamentals in a country's economy. Rising stock prices usually indicate net investment in the future health and growth of the economy. An equity index represents a portfolio of securities of a certain market or sector. Global equity indices represent the overall health of the equity market.

Developed and emerging market equities saw generally strong performances most of 2017. Equity prices in the United States and other major developed countries rose in 2017 after having fallen over the first part of 2016. The increase in equity prices during 2017 may reflect expectations for expansionary US fiscal policies, along with stronger economic data and earnings growth in both emerging market and advanced economies. The S&P 500 index's composite trailing Price to

PART II Item 7A

Earnings (P/E) and Price to Book (P/B) ratios remained elevated above their 20-year averages in 2017. The technology sector was the top performer during 2017, supported by strong earnings growth and investor preference for "growth" stocks. The financial and industrial sectors outperformed the broad US equity markets in 2017. Additionally, the financial and industrial sectors outperformed the market in months following the US presidential election of 2016, with financials benefiting from a steeper yield curve, and industrials benefiting from the prospect of new infrastructure spending.

US equity valuations remained elevated in 2017 according to various metrics, particularly the cyclically-adjusted price-to-earnings (CAPE) ratio, which accounts for the long-term earnings of S&P 500 firms.

Commodity

Commodities are generally traded goods such as oil, crops, and minerals for inputs towards the production of other goods or services. The prices of most commodities are generally valued based on the demand and supply of the commodity. Volatility in global price can have extensive implications for both commodity importers and exporters.

Commodity prices during the first half of 2017 were generally flat, then rose strongly, in the second half of 2017. The overall S&P GSCI Spot Index increased 11% in 2017, largely reflecting a 12% increase in oil prices (which have a majority weight in the index).

Oil prices began to rise late in the first quarter of 2016, against the backdrop of slowing U.S. domestic production, public comments by officials from the Organization of Petroleum Exporting Countries (OPEC) pointing to possible tightening in supply, and improved oil demand outlook. OPEC and major non-OPEC oil producing nations (NON-OPEC) entered into a production limited agreement in November 2016, which put an implicit floor under global benchmark oil prices. In May 2017, OPEC and NON-OPEC nations agreed to extend production cuts through March 2018, resulting in the West Texas Intermediate (WTI) crude oil prices to generally remain between \$42 and \$61 per barrel during 2017.

Prices of industrial metals continued to rise in 2017, with the S&P GSCI Industrial Metals Index climbing 31% during 2017. The increase is likely due in part to stronger than expected global growth, but also due to prospective supply cuts in some metals. Anti-dumping restrictions may have led to increases in some metal prices, and copper prices were affected by disruptions to mining. The S&P GSCI Agriculture Index was range-bound in 2017.

Item 8. Financial Statements and Supplementary Data

Combined functional income statements

(In billions)

Fiscal Year	2017	2016	2012	2007
Tax revenues	\$ 4,874 \$	4,748	\$ 3,766	3,831
Non-tax revenues	723	349	323	650
Total revenue	5,597	5,097	4,089	4,481
Transfer payments to individuals other than personnel and subsidies	2,933	2,812	2,344	1,710
Compensation for personnel past and present	1,623	1,574	1,432	1,229
Payments to others for goods and services	677	690	767	628
Capital expenditures	534	497	514	465
Net interest paid	333	313	295	251
Other income	(30)	(26)	(37)	(10)
Total expenditures	6,070	5,860	5,315	4,273
Net surplus (deficit)	\$ (473) \$	(763)	\$ (1,226)	208

Combined segment income statements

(In billions)

Fiscal Year	2017	2016	2012	2007
Tax revenues	\$ 4,874	4,748	\$ 3,766	\$ 3,831
Non-tax revenues	723	349	323	650
Total revenues	5,597	5,097	4,089	4,481
Establish justice and ensure domestic tranquility expenditures	448	425	382	347
Provide for the common defense expenditures	835	828	854	662
Promote the general welfare expenditures	1,408	1,358	1,275	898
Secure the blessings of liberty to ourselves and our posterity expenditures	3,236	3,104	2,666	2,212
General government and other expenditures	143	145	138	154
Total expenditures	6,070	5,860	5,315	4,273
Net surplus (deficit)	\$ (473)	(763)	\$ (1,226)	\$ 208

See accompanying notes.

INTERACTIVE ANALYSIS

Combined balance sheets

(In billions)	2017	2016
Assets		
Cash and other monetary assets (Note 2)	\$ 1,025	\$ 1,201
Accounts and taxes receivable, net (Note 3)	493	463
Loans receivable, net (Note 4)	1,588	1,503
Inventories and related property, net (Note 5)	327	314
Property, plant, and equipment, net (Note 6)	11,806	11,330
Debt and equity securities (Note 7)	4,938	4,544
Investments in government-sponsored enterprises (Note 8)	93	109
Other assets (Note 9)	150	144
Total assets	\$ 20,420	\$ 19,608
Stewardship land and heritage assets (Note 22)		
Liabilities and equity		
Accounts payable (Note 10)	\$ 1,002	\$ 949
Debt securities held by the public and accrued interest (Note 11)	16,797	16,421
Employee and veteran benefits payable (Note 12)	15,879	15,104
Environmental and disposal liabilities (Note 13)	465	447
Benefits due and payable (Note 14)	219	218
Insurance and guarantee program liabilities (Note 15)	203	187
Loan guarantee liabilities (Note 4)	43	18
Other liabilities (Note 16)	473	469
Total liabilities	35,081	33,813
Contingencies (Note 18) and commitments (Note 19)		
Accumulated deficit	(14,661)	(14,205)
Total liabilities and accumulated deficit	\$ 20,420	\$ 19,608

See accompanying notes.

INTERACTIVE ANALYSIS

Notes to financial statements

INTERACTIVE ANALYSIS

General note on sources

Federal government

Federal government amounts and the related text within Notes 2 through 22 below were copied from the 2017 United States (US) Treasury (Treasury) *Financial Report of the United States* (the Financial Report). We condensed and reordered the Financial Report information in reproducing it here to reflect the materiality level of this report, generally rounding dollars to the nearest billion, condensing amounts in tables less than 5% of the respective totals, and deleting the corresponding text. We also excluded the following notes of the Financial Report in creating this report:

- Note 1 Summary of significant accounting policies excluded because aggregated accounting policies for state and local governments are not available, and the federal accounting policies are voluminous and less helpful without the associated state and local government information. Rather, we refer you to each of our sources for information on their accounting policies see Part I, About this Report, Structure and content, Sources of data within this report for more information on our financial statement sources;
- Note 17 Collections and refunds of federal revenue excluded because the footnote provides details on federal government revenues shown in the *Financial Report*, whereas our revenues come from a different source and therefore this detail is not applicable to our report; and
- Note 22 Social insurance and Note 23 Long-term fiscal projections excluded because these footnotes
 primarily contain projections that a company would not normally include in its footnotes, though we have
 provided some supplemental information on potential future social insurance program (e.g. Medicare, Social
 Security) obligations in Exhibits 99.06 and 99.07 of this report.

We also reviewed the 2018 US Treasury Financial Report of the United States (the 2018 Financial Report) and noted that the Treasury had adjusted certain 2017 figures after releasing the Financial Report. We made corresponding adjustments in this report, resulting in changes to: All other programs – loans receivable (Note 4 – Loans receivable and loan guarantee liabilities, net), reflecting changes to US Department of Housing and Urban Development (HUD) estimates and corrections of errors; and various property, plant, and equipment components (Note 6 – Property, plant, and equipment, net), reflecting corrections of compilation errors. See the 2018 Financial Report for more details.

Finally, we supplemented the *Financial Report* information in *Note 8 – Investments in government-sponsored enterprises* by providing the Fannie Mae and Freddie Mac balance sheets (obtained from their respective Form 10-Ks) and in *Note 22 – Stewardship land and heritage assets* by providing tables that show revenues generated from federally owned land, including stewardship land (see source in *Note 22*).

Please see also *Note 1 – Accounting policies* below.

State and local government

State and local government amounts within these footnotes were sourced from the Federal Reserve. We have aggregated certain figures to reflect the materiality level of this report and grouped the figures to match the federal government categories. The Federal Reserve does not provide definitions or other accompanying text for the state and local government data. Therefore, there is a risk that we mapped the state and local government figures to the federal government categories in a different way than the state and local governments or the Federal Reserve would have mapped them. In addition, we have not provided as much information for state and local governments in these footnotes as we have for the federal government due to this data source limitation. We plan to provide more detailed state and local data in the future.

Note 1 – Accounting policies

Accounting principles

As discussed under *General note on sources* above, our combined financial statements and accompanying notes represent the aggregation of data prepared by other organizations. The accounting principles, including principles of combination, the preparation of estimates, and the use of assumptions can be found at each respective source. Principles we have applied in addition to theirs are discussed in this note.

Principles of combination

The combined financial statements have been prepared through the aggregation of federal and state and local government data, as described above. Certain intergovernmental amounts have been eliminated (see *Note 23 – Intergovernmental transfers*) and certain revenues and expenditures have been netted (see *Note 24 – Offsetting amounts*).

Estimates and assumptions

Preparing financial statements requires management of organizations to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue, and expenditures. As our financial statements comprise the combined data of other organizations, the related estimates and assumptions have been made by management of those organizations.

Changes in prior period amounts

Within our financial statements and footnotes, we have adjusted prior period amounts that our sources have adjusted. In addition, we have reclassified certain prior period amounts to conform to the current period presentation, with no impact on combined net deficit. See details in *Note 17 – Prior period adjustments*.

Note 2 – Cash and other monetary assets

(In billions)	2017	2016
Federal	\$ 271	\$ 468
State and local	754	733
Total cash and other monetary assets	\$ 1,025	\$ 1,201

Federal government

(In billions)	2017	201
Unrestricted cash		
Cash held by Treasury for federal government-wide operations	\$ 153	\$ 34
Other	4	1
Restricted cash	26	2
Total cash	183	38
International monetary assets	63	6
Other monetary assets	25	2
Total cash and other monetary assets	\$ 271	\$ 46

Unrestricted cash includes cash held by Treasury for governmentwide operations (Operating Cash) and all other unrestricted cash held by the federal agencies. Operating Cash represents balances from tax collections, other revenue, federal debt receipts, and other various receipts net of cash outflows for budget outlays and other payments. Treasury checks outstanding are netted against Operating Cash until they are cleared by the Federal Reserve System. Other unrestricted cash not included in Treasury's Operating Cash balance includes balances representing cash, cash equivalents, and other funds held by agencies, such as undeposited collections, deposits in transit, demand deposits, amounts held in trust, and imprest funds. Operating Cash held by the Treasury decreased by \$194 billion (a decrease of approximately 56%) in fiscal year 2017 due to Treasury's investment and borrowing decisions to manage the balance and timing of the federal government's cash position.

Restrictions on cash are due to the imposition on cash deposits by law, regulation, or agreement. Restricted cash is primarily composed of cash held by the Defense Security Cooperation Agency (DSCA). The Foreign Military Sales Program - DSCA included \$21 billion as of both September 30, 2017 and 2016.

International monetary assets include the US reserve position in the International Monetary Fund (IMF) and US holdings of Special Drawing Rights (SDRs). The US reserve position in the IMF is an interest-bearing claim on the IMF that includes the reserve asset portion of the financial subscription that the United States has paid in as part of its participation in the IMF as well as any amounts drawn by the IMF from a letter of credit made available by the United States as part of its financial subscription to the IMF. The IMF promotes international monetary cooperation and a stable payments system to facilitate growth in the world economy. Its primary activities are surveillance of members' economies, financial assistance, as appropriate, and technical assistance.

Only a portion of the US financial subscription to the IMF is made in the form of reserve assets; the remainder is provided in the form of a letter of credit from the United States to the IMF. The balance available under the letter of credit totaled \$105 billion and \$106 billion as of September 30, 2017, and 2016 respectively. The current participation in the IMF is authorized in accordance with the Consolidated Appropriations Act of 2016 (Public Law [P.L.] 114-113). The US reserve position in the IMF had a US dollar equivalent of \$12 billion and \$10 billion as of September 30, 2017, and 2016, respectively.

The SDR is an international reserve asset created by the IMF to supplement the existing reserve assets of its members. These interest-bearing assets can be obtained by IMF allocations, transactions with IMF member countries, or in the form of interest earnings on SDR holdings and reserve positions in the IMF. US SDR holdings are an interest-bearing asset of Treasury's Exchange Stabilization Fund (ESF). The total amount of SDR holdings of the United States was the equivalent of \$52 billion and \$50 billion as of September 30, 2017, and 2016, respectively.

The IMF allocates SDRs to its members in proportion to each member's quota in the IMF. The SDR Act, enacted in 1968, authorized the Secretary of the Treasury to issue SDR Certificates (SDRCs) to the Federal Reserve in exchange for dollars. The amount of SDRCs outstanding cannot exceed the dollar value of SDR holdings. The Secretary of the Treasury determines when Treasury will issue or redeem SDRCs. SDRCs outstanding totaled \$5 billion as of September 30, 2017, and 2016, and are included in *Note 16 – Other liabilities*.

As of September 30, 2017, and 2016, other liabilities included \$50 billion and \$49 billion, respectively, of interest-bearing liability to the IMF for SDR allocations. The SDR allocation item represents the cumulative total of SDRs distributed by the IMF to the United States in allocations. The United States has received no SDR allocations since 2009.

State and local government

(In billions)		2017	2016
Non-pension			
Time and savings deposits	\$	369	\$ 371
Security repurchase agreements		158	149
Money market fund shares		21	19
Checkable deposits and currency	_	110	96
Total non-pension cash and other monetary assets	\$	658	\$ 635
Pension			
Money market fund shares	\$	58	\$ 52
Other	_	38	 46
Total pension cash and other monetary assets		96	98
Total cash and other monetary assets	\$	754	\$ 733

Note 3 – Accounts and taxes receivable, net

(In billions)	- 2	2017	- 2	2016
Federal	\$	143	\$	133
State and local		350		330
Total accounts and taxes receivable, net	\$	493	\$	463

Federal government

(In billions)	2017	2016
Accounts receivable		
Gross accounts receivable	\$ 118	\$ 110
Allowance for uncollectible amounts	(30)	(30)
Accounts receivable, net	\$ 88	\$ 80
Taxes receivable		
Gross taxes receivable	\$ 204	\$ 185
Allowance for uncollectible amounts	(149)	(132)
Taxes receivable, net	\$ 55	\$ 53
Total accounts and taxes receivable, net	\$ 143	\$ 133

Gross accounts receivable include related interest receivable of \$3 billion and \$4 billion as of September 30, 2017, and 2016, respectively.

Treasury comprises approximately 37% of the federal government's reported accounts and taxes receivable, net, as of September 30, 2017. The following list of agencies comprise 97% of the federal government's accounts and taxes receivable, net, of \$143 billion as of September 30, 2017. Please refer to the following financial statements for details on gross accounts and taxes receivable and the related allowance for uncollectible amounts: of the Department of the Treasury (Treasury), the Department of Health and Human Services (HHS), the Social Security Administration (SSA), the Department of the Interior (DOI), the Department of Homeland Security (DHS), the Department of Defense (DOD), the Pension Benefit Guaranty Corporation (PBGC), the Department of Personnel Management (OPM), the Tennessee Valley

Authority (TVA), the Department of Labor (DOL), the Department of Agriculture (USDA), the United States Postal Service (USPS), and the Department of Housing and Urban Development (HUD).

Accounts and taxes receivable, net, have historically included amounts related to criminal restitution owed to the federal government. Beginning in fiscal year 2017, additional information is disclosed related to these amounts for the current fiscal year. Included in accounts and taxes receivable, net is \$9 billion of gross receivables related to criminal restitution orders monitored by the responsible agencies, of which \$0.6 billion is determined to be collectible. Of this gross receivable amount, Treasury, HHS, and SSA collectively account for \$8 billion of which \$0.5 billion is determined to be collectible as of September 30, 2017.

State and local government

(In billions)	2017	2016
Accounts receivable, net	\$ 201	\$ 190
Taxes receivable, net	149	140
Total accounts and taxes receivable, net	\$ 350	\$ 330

Note 4 – Loans receivable and loan guarantee liabilities, net

Loans receivable

(In billions)	2017	2016
Federal	\$ 1,332	\$ 1,261
State and local	256	242
Total loans receivable	\$ 1,588	\$ 1,503

Loan guarantee liabilities

(In billions)	2017	2016
Federal	\$ 43	\$ 18
State and local	<u> </u>	
Total loan guarantee liabilities	\$ 43	\$ 18

Federal government

The federal government has two types of loan programs: direct loans and loan guarantees. One major type of loan is direct loans such as the Department of Education's (Education) Federal Direct Student Loans. The second type is loan guarantee programs, such as the Department of Housing and Urban Development's (HUD's) Federal Housing Administration Loans program.

Direct loans and loan guarantee programs are used to promote the Nation's welfare by making financing available to segments of the population not served adequately by non-federal institutions, or otherwise providing for certain activities or investments. For those unable to afford credit at the market rate, federal credit programs provide subsidies in the form of direct loans offered at an interest rate lower than the market rate. For those to whom non-federal financial institutions are reluctant to grant credit because of the high risk involved, federal credit programs guarantee the payment of these non-federal loans and absorb the cost of defaults.

The amount of the long-term cost of post-1991 direct loans and loan guarantees outstanding equals the subsidy cost allowance for direct loans and the liability for loan guarantees (including defaulted guaranteed loans) as of September 30. The amount of the long-term cost of pre-1992 direct loans and loan guarantees equals the allowance for uncollectible amounts (or present value allowance) for direct loans and the liability for loan guarantees. The long-term cost is based on all direct loans and guaranteed loans disbursed in this fiscal year and previous years that are outstanding as of September 30. It includes the subsidy cost of these loans and guarantees estimated as of the time of loan disbursement and subsequent adjustments such as modifications, re-estimates, amortizations, and write-offs.

Net loans receivable includes related interest and foreclosed property. Foreclosed property is property that is transferred from borrowers to a federal credit program, through foreclosure or other means, in partial or full settlement of post-1991 direct loans or as a compensation for losses that the federal government sustained under post-1991 loan guarantees. Please refer to the financial statements of the United States Department of Agriculture (USDA), VA, and HUD for significant detailed information regarding foreclosed property. The total subsidy expense/(income) is the cost of direct loans and loan guarantees recognized during the fiscal year. It consists of the subsidy expense/(income) incurred for direct and guaranteed loans disbursed during the fiscal year, for modifications made during the fiscal year of loans and guarantees outstanding, and for upward or downward re-estimates as of the end of the fiscal year of the cost of loans and guarantees outstanding.

		alue of Loans anding	of (Inc	come Loa De Guar	em Cost e from) ans and faulted ranteed Loans anding	L	oans Ro	ece	ivable, Net	(Incom F	Ex e) f	ubsidy opense for the al Year
(In billions)	2017	2016	2017		2016		2017		2016	2017		2016
Federal Direct Student Loans – Education	\$ 1,058	\$ 954	\$ 17	\$	(5)	\$	1,041	\$	959	\$ 5	\$	16
Federal Family Education Loans – Education	121	128	19		13		102		115	2		4
All other programs	 217	215	28		28		189		187	(4)		(2)
Total direct loans and defaulted guaranteed loans	\$ 1,396	\$ 1,297	\$ 64	\$	36	\$	1,332	\$	1,261	\$ 3	\$	18

	F	Principal of Loar Gu	ns U			Amount d by the US		rantee bilities	(Incom	Ex e) f	ubsidy opense for the al Year
(In billions)		2017		2016	2017	2016	2017	2016	2017		2016
Federal Housing Administration Loans – HUD	\$	1,410	\$	1,339	\$ 1,278	\$ 1,216	\$ 21	\$ (1)	\$ 13	\$	(18)
Veterans Housing Benefit Programs – VA		597		517	152	133	10	10	(1)		(1)
All other guaranteed loan programs	_	528		544	488	504	12	9			4
Total loan guarantees	\$	2,535	\$	2,400	\$ 1,918	\$ 1,853	\$ 43	\$ 18	\$ 12	\$	(15)

Loan programs

The majority of the loan programs are provided by Education, HUD, USDA, Small Business Administration (SBA), VA, and Export-Import Bank. For significant detailed information regarding the direct and guaranteed loan programs listed in the tables above, please refer to the financial statements of the agencies.

Education has two major loan programs, authorized by Title IV of the Higher Education Act of 1965 (HEA). The first program is the William D. Ford Federal Direct Loan Program, (referred to as the Direct Loan Program) that was established in fiscal year 1994. The Direct Loan Program offered four types of educational loans: Stafford, Unsubsidized Stafford, PLUS for parents and/or graduate or professional students, and consolidation loans. With this program, the federal government makes loans directly to students and parents through participating institutions of higher education. Direct loans are originated and serviced through contracts with private vendors. Education disbursed approximately \$143 billion in Direct Loans to eligible borrowers in fiscal year 2017 and approximately \$141 billion in fiscal year 2016. The second program is the Federal Family Education Loan (FFEL) Program. This program was established in fiscal year 1965, and is a guaranteed loan program. Like the Direct Loan Program, it offered four types of loans: Stafford, Unsubsidized Stafford, PLUS for parents and/or graduate or professional students, and consolidation loans. The Student Aid and Fiscal Responsibility Act (SAFRA), which was enacted as part of the Health Care Education and Reconciliation Act of 2010 (P.L. 111-152), eliminated the authority to guarantee new FFEL after June 30, 2010. During fiscal year 2017, Education net loans receivable increased by \$71 billion, largely the result of increased Direct Loan Program disbursements for new loan originations and FFEL consolidations, net of borrower principal and interest collections.

HUD's Federal Housing Administration (FHA) provides mortgage insurance to encourage lenders to make credit available to expand homeownership. FHA serves many borrowers that the conventional market does not serve adequately. This includes first-time homebuyers, minorities, low-income, and other underserved households to realize the benefits of homeownership. Borrowers obtain an FHA insured mortgage and pay an upfront premium as well as an annual premium to FHA. The proceeds from those premiums are used to fund FHA program costs, including claims on defaulted mortgages and holding costs, property management fees, property sales, and other associated costs.

VA operates the following direct loan and loan guaranty programs: Home Loans, Insurance Policy Loans, and Vocational Rehabilitation and Employment Loans. The VA Home Loans program is the largest of the VA loan programs. The Home Loans program provides loan guarantees and direct loans to veterans, service members, qualifying dependents, and limited non-veterans to purchase homes and retain homeownership with favorable market terms. During fiscal year 2017, the face value of outstanding principal on loans guaranteed by the VA increased by \$80 billion. This increase was primarily due to \$162 billion in new loans guaranteed by the VA, partially offset by \$81 billion in guaranteed loan terminations.

State and local government

(In billions)	2017	2016
Loans (mortgages)	\$ 248	\$ 233
Loans (mortgages) – pensions	8	9
Total loans receivable	\$ 256	\$ 242

Note 5 – Inventories and related property, net

(In billions)	2017 2016
Federal	\$ 327 \$ 314
State and local	
Total inventories and related property, net	\$ 327 \$ 314

Federal government

			2017		2016					
(In billions)	D	efense	All Others	Total	De	efense	All Others	Total		
Operating materials and supplies held for use	\$	140	\$ 4 \$	144	\$	105 \$	4 \$	109		
Inventory and operating material and supplies held for repair		66	1	67		88	1	89		
Inventory purchased for resale		61	1	62		62	1	63		
Stockpile materials held in reserve for future use		1	49	50		1	47	48		
Other inventories and related property		6	6	12		5	7	12		
Allowance for loss		(7)	(1)	(8)		(6)	(1)	(7)		
Total inventories and related property, net	\$	267	\$ 60 \$	327	\$	255 \$	59 \$	314		

Operating materials and supplies held for use are tangible personal property to be consumed in normal operations.

Inventory and operating materials and supplies held for repair are damaged inventory that require repair to make them suitable for sale (inventory) or is more economical to repair than to dispose of (operating materials and supplies). Excess, obsolete, and unserviceable inventory is reported at net realizable value.

Inventory purchased for resale is the cost or value of tangible personal property purchased by an agency for resale. As of September 30, 2017, DOD values approximately 98% of its resale inventory using the moving average cost (MAC) method. DOD reports the remaining 2% of resale inventories at an approximation of historical cost using LAC adjusted for holding gains and losses. DOD continues to implement SFFAS No. 48, Opening Balances for Inventory, Operating Materials and Supplies, and Stockpile Materials, permitting alternative methods in establishing opening balances. Please refer to the financial statements of DOD for more information on its inventories.

Stockpile materials include strategic and critical materials held in reserve for use in national defense, conservation, or national emergencies due to statutory requirements; for example, nuclear materials and oil. The majority of the stockpile materials held in reserve for future use were reported by the Department of Energy (DOE). Please refer to the financial statements of DOE for more information on stockpile materials.

State and local government

Based on our review of specific Comprehensive Annual Financial Reports, we know that the state governments do have inventories and related property, however the Federal Reserve does not provide information on the balances, and we are not aware of another aggregated source of the data.

Note 6 – Property, plant, and equipment, net

(In billions)	2017 2016
Federal	\$ 1,087 \$ 980
State and local	10,71910,350
Total property, plant, and equipment, net	\$ 11,806 \$ 11,330

Federal government

	Cost	Accumulated Depreciation/ Amortization		Cost	Accumulated Depreciation/ Amortization	Ne
(In billions)		2017			2016	
Furniture, fixtures, and equipment	\$ 1,321	\$ 753	\$ 568	\$ 1,228	\$ 753	\$ 475
Buildings, structures, and facilities	693	407	286	659	381	278
Construction in progress	168	_	168	165	_	165
Land	24	_	24	24	_	24
Other property, plant, and equipment	84	43	41	79	41	38
Total property, plant, and equipment, net	\$ 2,290	\$ 1,203	\$ 1,087	\$ 2,155	\$ 1,175	\$ 980

DOD comprises approximately 74%⁵² of the federal government's reported property, plant, and equipment, net, as of September 30, 2017. DOD continues to implement SFFAS No. 50, *Establishing Opening Balances for General Property, Plant and Equipment*, which permits alternative methods in establish opening balances for general property, plant and equipment.

The following agencies comprise over 97%⁴³ of the federal government's reported property, plant, and equipment, net, of \$1,087 billion as of September 30, 2017. Refer to each agencies' financial statements for details: DOD, DOE, General Services Administration (GSA), VA, TVA, DOI, the Department of State (DOS), Department of Transportation (DOT), USPS, DHS, National Aeronautics and Space Administration (NASA), Department of Commerce (DOC), and Department of Justice (DOJ).

State and local government

(In billions)	2017	2016
Structures	\$ 10,337	\$ 9,979
Equipment	253	248
Intellectual property	129	123
Total property, plant, and equipment, net	\$ 10,719	\$ 10,350

Note 7 – Debt and equity securities

(In billions)	2017	2016
Federal	\$ 116	\$ 108
State and local	4,822	4,436
Total debt and equity securities	\$ 4,938	\$ 4,544

(In billions)		Cost	Adjustment	ı	Book Value
2017					
Held-to-Maturity Equity securities	\$	4	\$ —	- \$	4
Total held-to-maturity (net investment)	\$	4	\$ —	- \$	4
Available-for-Sale		_			
Debt securities	\$	5		\$	6
Total available-for-sale (fair value)	\$	5	\$ I	\$	6
Trading Securities Debt securities: Non-US Government Corporate and other bonds All other debt securities	\$	12 16 9	\$ — 1	- \$	12 17 9
Equity securities: Unit trust All other equity securities		18 16	3	.	26 16
Total trading securities (fair value)	\$	71	\$ 9	\$	80
Total debt and equity securities categorized as held-to-maturity, available-for-sale or trading				\$	90
Total Railroad Retirement Board (RRB) debt and equity securities					26
Total debt and equity securities				\$	116
(In billions)		Cost	Adjustment	<u> </u>	Book Value
2016					
Held-to-Maturity					
Equity securities	\$	11	\$ -	. \$	11
Equity securities Total held-to-maturity (net investment)	\$ \$	11 11		\$ - \$	11
Total held-to-maturity (net investment) Available-for-Sale	\$	11	\$ -	- \$ - \$ - \$	11
Total held-to-maturity (net investment) Available-for-Sale Debt securities	\$		\$ — \$ —	- \$ - \$ - \$	
Total held-to-maturity (net investment) Available-for-Sale Debt securities Total available-for-sale (fair value) Trading Securities Debt securities:	\$ \$	11 10 10	\$ — \$ —	- \$	11 10
Total held-to-maturity (net investment) Available-for-Sale Debt securities Total available-for-sale (fair value) Trading Securities Debt securities: Non-US Government	\$	11 10 10	\$ - \$ - \$ -	- \$ - \$ - \$	11 10 10
Total held-to-maturity (net investment) Available-for-Sale Debt securities Total available-for-sale (fair value) Trading Securities Debt securities:	\$ \$	11 10 10	\$ — \$ —	- \$ - \$ - \$	11 10 10
Total held-to-maturity (net investment) Available-for-Sale Debt securities Total available-for-sale (fair value) Trading Securities Debt securities: Non-US Government Corporate and other bonds All other debt securities Equity securities: Unit trust	\$ \$	11 10 10 12 12	\$ - \$ - \$ -	- \$ - \$	11 10 10 12 13
Total held-to-maturity (net investment) Available-for-Sale Debt securities Total available-for-sale (fair value) Trading Securities Debt securities: Non-US Government Corporate and other bonds All other debt securities Equity securities: Unit trust All other equity securities	\$ \$	11 10 10 12 12 6 19 8	\$ — \$ — \$ —	\$ \$ \$ \$ \$ \$ \$ \$ -	11 10 10 12 13 6 24 8
Total held-to-maturity (net investment) Available-for-Sale Debt securities Total available-for-sale (fair value) Trading Securities Debt securities: Non-US Government Corporate and other bonds All other debt securities Equity securities: Unit trust	\$ \$ \$	11 10 10 12 12 6	\$ — \$ — \$ —	- \$ - \$	11 10 10 12 13 6
Total held-to-maturity (net investment) Available-for-Sale Debt securities Total available-for-sale (fair value) Trading Securities Debt securities: Non-US Government Corporate and other bonds All other debt securities Equity securities: Unit trust All other equity securities Total trading securities (fair value)	\$ \$ \$	11 10 10 12 12 6 19 8	\$ — \$ — \$ —	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	11 10 10 12 13 6 24 8 63

Debt and equity securities by agency

(In billions)	2017	2016
Pension Benefit Guaranty Corporation (PBGC)	\$ 67 \$	60
Railroad Retirement Board (RRB)	26	24
Tennessee Valley Authority (TVA)	11	10
Department of the Treasury (Treasury)	9	10
All other	 3	4
Total securities and investments	\$ 116 \$	108

These debt and equity securities do not include nonmarketable Treasury securities, which have been eliminated in consolidation. Held to-maturity debt and equity securities are reported total net investment, net of unamortized discounts and premiums. Available for-sale debt and equity securities are reported at fair value, net of unrealized gain or loss. Trading debt and equity securities are reported at fair value, net of unrealized gain or loss. PBGC and TVA invest primarily in fixed maturity and equity securities, classified as trading. PBGC reported gains related to trading securities held as of September 30, 2017, and 2016, of \$3 billion and \$2 billion, respectively. TVA reported gains related to trading securities held as of September 30, 2017 and 2016 of \$1 billion and \$0.9 billion, respectively. Treasury invests primarily in fixed maturity and equity securities, classified as available-for-sale and trading securities. Treasury's Exchange Stabilization Fund invests in among other things, foreign fixed maturity debt, with a fair value of \$9 billion and \$10 billion as of September 30, 2017, and 2016, respectively. The National Railroad Retirement Investment Trust (NRRIT), on behalf of the RRB, manages and invests railroad retirement assets that are to be used to pay retirement benefits to the Nation's railroad workers under the Railroad Retirement Program. As an investment company, NRRIT is subject to different accounting standards that do not require the classifications presented above. Please refer to NRRIT's financial statements for more detailed information concerning this specific investment. The TVA balance includes \$9 billion and \$7 billion as of September 30, 2017, and 2016, respectively, for the Tennessee Valley Authority Retirement System (TVARS). TVARS includes unrealized gains of \$0.8 billion and \$0.5 billion as of September 30, 2017 and 2016, respectively. The Department of the Defense reflects the majority of all other total securities and investments. PBGC, NRRIT, Treasury and TVA base market values on the last sale of a listed security, on the mean of the "bid-and-ask" for non-listed securities, or on a valuation model in the case of fixed income securities that are not actively traded. These valuations are determined as of the end of each fiscal year. Purchases and sales of securities are recorded on the trade date. Please refer to the individual financial statements of PBGC, NRRIT, TVA, Treasury, and DOD for more detailed information related to debt and equity securities. These agencies comprise 99%⁵³ of the total reported debt and equity securities of \$116 billion as of September 30, 2017.

State and local government

(In billions)	2017	2016
Pension		
Corporate equities	\$ 2,491	\$ 2,243
Corporate and foreign bonds	507	564
Mutual fund shares	243	213
Other	 328	282
Total pension debt and equity securities	\$ 3,569	\$ 3,302
Non-pension		
Agency and GSE-backed securities	\$ 482	\$ 440
Corporate equities	258	216
Other	 513	478
Total non-pension debt and equity securities	\$ 1,253	\$ 1,134
Total debt and equity securities	\$ 4,822	\$ 4,436

Note 8 – Investments in government-sponsored enterprises

(In billions)	2017	2016
Federal	\$ 93	\$ 109
State and local	_	_
Total investments in government-sponsored enterprises	\$ 93	\$ 109

Federal government

(In billions)	Cumulative Valuation					
2017	Gross In	vestments		Gain/(Loss)	ı	Fair Value
Fannie Mae senior preferred stock	\$	117	\$	(75)	\$	42
Freddie Mac senior preferred stock		72		(39)		33
Fannie Mae warrants common stock		3		9		12
Freddie Mac warrants common stock		2		4		6
Total investments in GSEs	\$	194	\$	(101)	\$	93

(In billions) 2016				llative Valuation Gain/(Loss)	Fai	r Value
Fannie Mae senior preferred stock	\$	117	\$	(59)	\$	58
Freddie Mac senior preferred stock		72		(32)		40
Fannie Mae warrants common stock		3		4		7
Freddie Mac warrants common stock		2		2		4
Total investments in GSEs	\$	194	\$	(85)	\$	109

Congress established Fannie Mae and Freddie Mac as government sponsored enterprises (GSEs) to support mortgage lending. A key function of the GSEs is to purchase mortgages, package those mortgages into securities, which are subsequently sold to investors, and guarantee the timely payment of principal and interest on these securities.

Leading up to the financial crisis, increasingly difficult conditions in the housing market challenged the soundness and profitability of the GSEs, thereby threatening to undermine the entire housing market. In response Congress passed HERA (P.L.110-289) in July 2008. This act created FHFA, with enhanced regulatory authority over the GSEs, and provided the Secretary of the Treasury with certain authorities intended to ensure the financial stability of the GSEs, if necessary. In September 2008, FHFA placed the GSEs under conservatorship and Treasury invested in the GSEs by entering into a SPSPA with each GSE. These actions were taken to preserve the GSEs' assets, ensure a sound and solvent financial condition, and mitigate systemic risks that contributed to market instability.

The purpose of such actions is to maintain the solvency of the GSEs so they can continue to fulfill their vital roles in the home mortgage market while the Administration and Congress determine what structural changes should be made to the housing finance system. Draws under the SPSPAs result in an increased investment in the GSEs as further discussed below. Per SFFAC No. 2, Entity and Display, these entities meet the criteria of "bailed out" entities. Accordingly, the federal government has not consolidated them into the financial statements, but included disclosure of the relationship(s) with the bailed out entities and any actual or potential material costs or liabilities in the consolidated financial statements.

Senior preferred stock purchase agreements

Under the SPSPAs, Treasury initially received from each GSE: 1) 1,000,000 shares of non-voting variable liquidation preference senior preferred stock with a liquidation preference value of \$1,000 per share and 2) a non-transferable warrant for the purchase, at a nominal cost, of 80% of common stock on a fully-diluted basis. The warrants expire on September 7, 2028. Under the amended SPSPAs, the quarterly dividend payment changed from a 10% per annum fixed rate dividend on the total liquidation preference to an amount equivalent to the GSE's positive net worth above a capital reserve amount. The capital reserve amount, which was initially set at \$3 billion for calendar year 2013, declines by \$600 million at the beginning of each calendar year thereafter until it reaches zero by calendar year 2018. On January 1, 2017, and 2016, the capital reserve amount had declined to \$600 million and \$1 billion for calendar years 2017 and 2016, respectively. The GSEs will not pay a quarterly dividend if their positive net worth is below the required capital reserve threshold. Cash dividends of \$25 billion and \$12 billion were received during fiscal years ended September 30, 2017, and 2016, respectively.

The SPSPAs, which have no expiration date, provide that Treasury will disburse funds to the GSEs if at the end of any quarter, the FHFA determines that the liabilities of either GSE exceed its assets. Draws from Treasury under the SPSPAs are designed to ensure that the GSEs maintain positive net worth, with a fixed maximum amount available to each GSE under this agreement established as of December 31, 2012 (refer to the Contingent liability to GSEs section below). Draws against the funding commitment of the SPSPAs do not result in the issuance of additional shares of senior preferred stock; instead, it increases the liquidation preference of the initial 1,000,000 shares by the amount of the draw. The combined cumulative liquidation preference totaled \$189 billion as of September 30, 2017 and 2016. There were no payments to the GSEs for the fiscal years ended September 30, 2017 and 2016.

Senior preferred stock and warrants for common stock

In determining the fair value of the senior preferred stock and warrants for common stock, Treasury relied on the GSEs' public filings and press releases concerning their financial statements, as well as non-public, long-term financial forecasts, monthly summaries, quarterly credit supplements, independent research regarding preferred stock trading, independent research regarding the GSEs' common stock trading on the OTC Bulletin Board, discussions with each of the GSEs and FHFA, and other information pertinent to the valuations. Because the instruments are not publicly traded, there is no comparable trading information available. The fair valuations rely on significant unobservable inputs that reflect assumptions about the expectations that market participants would use in pricing.

The fair value of the senior preferred stock considers the amount of forecasted dividend payments. The fair valuations assume that a hypothetical buyer would acquire the discounted dividend stream as of the transaction date. The fair value of the senior preferred stock decreased as of September 30, 2017 when compared to September 30, 2016, primarily reflecting a higher discount rate which was driven by a higher long-term Treasury rate (or risk-free rate), as well as an increase in the market value of the GSEs' other equity securities that comprise their total equity.

Factors impacting the fair value of the warrants include the nominal exercise price and the large number of potential exercise shares, the market trading of the common stock that underlies the warrants as of September 30, the principal market, and the market participants. Other factors impacting the fair value include, among other things, the holding period risk related directly to the assumption of the amount of time that it will take to sell the exercised shares without depressing the market. The fair value of the warrants increased at the end of fiscal year 2017, when compared to 2016, primarily due to increases in the market price of the underlying common stock of each GSE.

Contingent liability to GSEs

As part of the annual process undertaken by Treasury, a series of long-term financial forecasts are prepared to assess, as of September 30, the likelihood and magnitude of future draws to be required by the GSEs under the SPSPAs within the forecast time horizon. Treasury used 25-year financial forecasts prepared through years 2042 and 2041 in assessing if a contingent liability was required as of September 30, 2017 and 2016, respectively. If future payments under the SPSPAs are deemed to be probable within the forecast horizon, Treasury will estimate and accrue a contingent liability to the GSEs to reflect the forecasted equity deficits of the GSEs. This accrued contingent liability will be undiscounted and will not take into account any of the offsetting dividends that could be received, as the dividends, if any, would be owed directly to the General Fund. Such recorded accruals will be adjusted in subsequent years as new information develops or circumstances change.

Based on the annual forecasts as of September 30, 2017 and 2016, Treasury estimated there was no probable future funding draws. However, the reduction in the US corporate income tax rate resulting from the enactment of the *Tax Cuts and Job Act* on December 22, 2017, required that each of Fannie Mae and Freddie Mac record a reduction in the value of their deferred tax assets in the quarter in which the legislation was enacted, impacting potential future funding draws. The funding draws and the associated amounts are expected to be realized in March 2018. Management believes the amounts of such draws will not be material to the consolidated financial statements. At September 30, 2017 and 2016, the maximum remaining contractual commitment to the GSEs for the remaining life of the SPSPAs was \$258 billion. Subsequent funding draws will reduce the remaining commitments. Refer to *Note 19 – Commitments* for a full description of other commitments and risks.

In assessing the need for an estimated contingent liability, Treasury relied on the GSEs' public filings and press releases concerning their financial statements, monthly summaries, and quarterly credit supplements, as well as non-public, long-term financial forecasts, the FHFA House Price Index, discussions with each of the GSEs and FHFA, and other information pertinent to the liability estimates. The forecasts prepared in assessing the need for an estimated contingent liability as of September 30, 2017 include three potential wind-down scenarios, with varying assumptions regarding the timing as to when the GSEs would cease issuing new guaranteed mortgage-backed securities. The forecasts also assume a continued gradual wind-down of the retained portfolios (and corresponding net interest income) through 2018, as directed under the amended SPSPAs for each GSE to reduce the maximum balance of its retained mortgage portfolio by 15% per annum beginning December 31, 2013. The maximum balance of the GSEs' retained mortgage portfolio was initially set at \$650 billion as of December 31, 2012, and the amended SPSPAs requires that GSEs reduce this maximum balance to \$250 billion by December 31, 2018.

Estimation Factors

Treasury's forecasts concerning the GSEs may differ from actual experience. Estimated senior preferred values and future draw amounts will depend on numerous factors that are difficult to predict including, but not limited to, changes in government policy with respect to the GSEs, the business cycle, inflation, home prices, unemployment rates, interest rates, changes in housing preferences, home financing alternatives, availability of debt financing, market rates of guarantee fees, outcomes of loan refinancings and modifications, new housing programs, and other applicable factors.

Regulatory environment

To date, Congress has not approved a plan to address the future of the GSEs, thus the GSEs continue to operate under the direction of their conservator, the FHFA, whose stated strategic goals for the GSEs are to: (1) maintain foreclosure prevention activities and credit availability to foster liquid, efficient, competitive, and resilient national housing finance markets; (2) reduce taxpayer risk through increasing the role of private capital in the mortgage market, and (3) build a new single-family securitization infrastructure.

The Temporary Payroll Tax Cut Continuation Act of 2011 (P.L. 112-78) was funded by an increase of 10-basis points in the GSEs' guarantee fees (referred to as "the incremental fees") which began in April 2012, and is effective through October 1, 2021. The incremental fees are to be remitted to Treasury and not retained by the GSEs and, thus, do not affect the profitability of the GSEs. For each fiscal years 2017 and 2016, the GSEs remitted to Treasury the incremental fees totaling \$3 billion.

Fannie Mae balance sheet

	As of De	As of December 3	
(In billions)	2017	2	2016
Assets			
Cash and cash equivalents	\$ 52	\$	56
Restricted cash	28		37
Investments in securities ¹	40		49
Mortgage loans:			
Of Fannie Mae	168		207
Of consolidated trusts	3,030	2	2,896
Allowance for loan losses	(19)		(23)
Mortgage loans, net of allowance for loan losses	3,179	3	3,080
Deferred tax assets, net	17		34
Other assets	30		32
Total assets	\$ 3,346	\$ 3	3,288
Liabilities and equity			
Debt:			
Of Fannie Mae	\$ 277	\$	327
Of consolidated trusts	3,053	2	2,935
Other liabilities	20		20
Total liabilities	3,350	3	3,282
Senior preferred stock	117		117
Other ²	(121)	((111)
Total equity	(4)		6
Total liabilities and equity	\$ 3,346	\$ 3	3,288

¹ Includes \$29 billion as of December 31, 2017 and \$32 billion as of December 31, 2016 of Treasury securities that are included in Fannie Mae's other investment portfolio.

Consists of preferred stock, common stock, accumulated deficit, accumulated other comprehensive income, Treasury stock and noncontrolling interest.

Freddie Mac balance sheet

		As of De	cem	ember 31,	
(In billions)		2017		2016	
Assets					
Cash and cash equivalents	\$	7	\$	12	
Restricted cash		3		10	
Federal funds sold and securities purchased under agreements to resell		56		52	
Investments in securities:					
Available-for-sale, at fair value		44		67	
Trading, at fair value	_	41		45	
Total investments in securities		85		112	
Mortgage loans:					
Held-for-investment, at amortized cost: By consolidated trusts		1,774		1,690	
Held-for-investment, at amortized cost: Unsecuritized		62		95	
Held-for-sale, at lower-of-cost-or-fair-value	_	35		18	
Total mortgage loans, net		1,871		1,803	
Other assets		28		35	
Total assets	\$	2,050	\$	2,024	
Liabilities and equity					
Accrued interest payable	\$	6	\$	6	
Debt, net:					
Debt securities of consolidated trusts held by third parties		1,721		1,650	
Other debt		314		353	
Total debt, net		2,035		2,003	
Other liabilities		9		10	
Total liabilities	_	2,050		2,019	
Total equity		_		5	
Total liabilities and equity	\$	2,050	\$	2,024	

State and local government

The Federal Reserve does not provide amounts for investments in GSEs at the state and local government level. We do not know if states have these investments, and if they do, we are not aware of another aggregated source for this data.

Note 9 – Other assets

(In billions)	2017	2016
Federal	\$ 150 \$	144
State and local		
Total other assets	\$ 150 \$	144

(In billions)	2017	2016
Advances and prepayments	\$ 97 \$	93
Regulatory assets	20	22
FDIC receivable from resolution activity	9	9
Other	24	20
Total other assets	\$ 150 \$	144

Advances and prepayments are assets that represent funds disbursed in contemplation of the future performance of services, receipt of goods, the incurrence of expenditures, or the receipt of other assets. These include advances to contractors and grantees, travel advances, and prepayments for items such as rents, taxes, insurance, royalties, commissions, and supplies.

With regard to regulatory assets, the DOE's Power Marketing Administrations (PMAs) and the TVA record certain amounts as assets in accordance with Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) Topic 980, Regulated Operations. The provisions of FASB ASC Topic 980 require that regulated enterprises reflect rate actions of the regulator in their financial statements, when appropriate. These rate actions can provide reasonable assurance of the existence of an asset, reduce or eliminate the value of an asset, or impose a liability on a regulated enterprise. In order to defer incurred costs under FASB ASC Topic 980, a regulated entity must have the statutory authority to establish rates that recover all costs, and those rates must be charged to and collected from customers. If the PMAs' or TVA's rates should become market-based, FASB ASC Topic 980 would no longer be applicable, and all of the deferred costs under that standard would be expensed. Other items included in "other" are purchased power generating capacity, deferred nuclear generating units, nonmarketable equity investments in international financial institutions, derivative assets, and the balance of assets held by the experience rated carriers participating in the Health Benefits and Life Insurance Program (pending disposition on behalf of OPM).

The Federal Deposit Insurance Corporation (FDIC) has the responsibility for resolving failed institutions in an orderly and efficient manner. The resolution process involves valuing a failing institution, marketing it, soliciting and accepting bids for the sale of the institution, determining which bid is least costly to the insurance fund, and working with the acquiring institution through the closing process. FDIC records receivables for resolutions that include payments by the Deposit Insurance Fund to cover obligations to insured depositors, advances to receiverships and conservatorships for working capital, and administrative expenses paid on behalf of receiverships and conservatorships.

State and local government

Based on our review of specific state Comprehensive Annual Financial Reports, we know that the state governments do have other assets, however the Federal Reserve does not provide information on the balances, and we are not aware of another aggregated source of this data.

Note 10 – Accounts payable

(In billions)	2017	2016
Federal	\$ 71	\$ 62
State and local	931	887
Total accounts payable	\$ 1,002	\$ 949

(In billions)	2017	2016
Department of Defense	\$ 26	\$ 18
Department of Veterans Affairs	4	5
Department of Justice	6	6
Department of the Treasury	4	4
Department of Education	4	4
Department of Energy	4	4
All other	 23	21
Total accounts payable	\$ 71	\$ 62

Accounts payable includes amounts due for goods and property ordered and received, services rendered by other than federal employees, accounts payable for cancelled appropriations, and non-debt related interest payable.

State and local government

The Federal Reserve does not provide additional detailed information on the composition of the state and local government accounts payable balance, and we are not aware of another aggregated source of this data.

Note 11 - Debt securities held by the public and accrued interest

(In billions)	2017	2016
Federal	\$ 13,725	\$ 13,326
State and local	3,072	3,095
Total debt securities held by the public and accrued interest	\$ 16,797	\$ 16,421

		Net Change			
	Balance	during Fiscal	Balance	Average Inte	rest Rate
(In billions)	2016	Year 2017	2017	2017	2016
Treasury securities (public)					
Marketable securities:					
Treasury bills ¹	\$ 1,645	\$ 155	\$ 1,800	1.1%	0.4%
Treasury notes ²	7,729	71	7,800	1.8%	1.8%
Treasury bonds ³	1,825	123	1,948	4.2%	4.4%
Treasury inflation-protected securities (TIPS) 4	1,210	76	1,286	0.8%	0.8%
Treasury floating rate notes (FRN) 5	334	8	342	1.2%	0.4%
Total marketable Treasury securities	12,743	433	13,176		
Nonmarketable securities	535	(37)	498	2.3%	2.0%
Net unamortized discounts	(34)	(5)	(39)		
Total Treasury securities, net (public)	13,244	391	13,635		
Agency securities					
Tennessee Valley Authority	24	_	24		
All other agencies					
Total agency securities, net of unamortized premiums and discounts	24	_	24		
Accrued interest payable	58	8	66		
Total debt securities held by the public and accrued interest	\$ 13,326	\$ 399	\$ 13,725		

Bills – short-term obligations issued with a term of 1 year or less

Federal debt securities held by the public outside the federal government are held by individuals, corporations, state or local governments, FRBs, foreign governments, and other entities outside the federal government. The above table details Government borrowing primarily to finance operations and shows marketable and nonmarketable securities at face value less net unamortized premiums and discounts including accrued interest.

Securities that represent federal debt held by the public are issued primarily by the Treasury and include:

- Interest-bearing marketable securities (bills, notes, bonds, inflation-protected, and floating rate notes).
- Interest-bearing nonmarketable securities (government account series held by deposit and fiduciary funds, foreign series, state and local government series, domestic series, and savings bonds).
- Non-interest-bearing marketable and nonmarketable securities (matured and other).

Section 3111 of Title 31, United States Code (U.S.C.) authorizes the Secretary of the Treasury to use money received from the sale of an obligation and other money in the General Fund to buy, redeem, or refund, at or before maturity, outstanding bonds, notes, certificates of indebtedness, Treasury bills, or savings certificates of the federal government.

Gross federal debt (with some adjustments) is subject to a statutory ceiling (i.e., the debt limit). Prior to 1917, Congress approved each debt issuance. In 1917, to facilitate planning in World War I, Congress and the President first enacted a statutory dollar ceiling for federal borrowing. With the *Public Debt Act of 1941* (P.L. 77-7), Congress and the President set an overall limit of \$65 billion on Treasury debt obligations that could be outstanding at any one time; since then, Congress and the President have enacted a number of debt limit increases.

Notes – medium-term obligations issued with a term of 2-10 years. In creating the combined balance sheets, we eliminated Treasury securities held by state and local governments from the Treasury notes balance amounts. We chose this balance as our location of elimination because it is the largest balance in the table, and because the Federal Reserve does not tell us what comprises the state and local balances. See Note 23 – Intergovernmental transfers for more information. We do not have information about the associated average interest rates and therefore have not adjusted these rates.

Bonds – long-term obligations of more than 10 years

⁴ TIPS – term of more than 5 years

⁵ FRN – term of 2 years

During fiscal years 2017 and 2016, Treasury faced two delays in raising the statutory debt limit that required it to depart from its normal debt management operations and to invoke legal authorities to avoid exceeding the statutory debt limit. During these periods, extraordinary actions taken by Treasury have resulted in federal debt securities not being issued to certain federal accounts. The first period occurred from March 16, 2015 to October 30, 2015. On Monday, November 2, 2015, The *Bipartisan Budget Act of 2015* (P.L. 114-74) was enacted suspending the statutory debt limit through March 15, 2017. The second delay in raising the statutory debt limit occurred from March 16, 2017 through September 7, 2017. On Friday, September 8, 2017 the *Continuing Appropriations Act, 2018 and Supplemental Appropriations for Disaster Relief Requirements Act, 2017* (P.L. 115-56) was enacted suspending the statutory debt limit through December 8, 2017. See *Note 16 – Other liabilities* and *Note 21—Fiduciary activities* for more information.

As of September 30, 2017, and 2016, debt subject to the statutory debt limit was \$20,209 billion and \$19,539 billion, respectively. The debt subject to the limit includes Treasury securities held by the public and Government guaranteed debt of federal agencies (shown in the table above) and intergovernmental debt holdings (shown in the *Note 23 – Intergovernmental transfers*). See *Note 16 – Other liabilities* and *Note 21 – Fiduciary activities*.

State and local government

(In billions)	2017	2016
Municipal securities	\$ 3,069	\$ 3,093
Municipal securities – pensions	3	2
Total debt securities held by the public	\$ 3,072	\$ 3,095

The Federal Reserve does not provide additional detailed information on the composition of the state and local government debt securities held by the public, and we are not aware of another aggregated source of this data that would indicate whether accrued interest is included in the amounts listed above.

Note 12 – Employee and veteran benefits payable

(In billions)	2017	2016
Federal	\$ 7,700	\$ 7,209
State and local	8,179	7,895
Total employee and veteran benefits payable	\$ 15,879	\$ 15,104

Federal government

		Civilian		Civilian		Military		Total
(In billions)	2017	2016	2017	2016	2017	2016		
Pension and accrued benefits	\$ 2,014	\$ 1,911	\$ 1,568	\$ 1,491	\$ 3,582	\$ 3,402		
Veterans compensation and burial benefits	_	_	2,810	2,496	2,810	2,496		
Post-retirement health and accrued benefits	376	352	782	800	1,158	1,152		
Liability for other benefits	83	82	67	77	150	159		
Total federal employee and veteran benefits payable	\$ 2,473	\$ 2,345	\$ 5,227	\$ 4,864	\$ 7,700	\$ 7,209		

Change in pension and accrued benefits

		Civilian		Military		Total
(In billions)	2017	2016	2017	2016	2017	2016
Actuarial accrued pension liability, beginning of fiscal year	\$ 1,911	\$ 1,945	\$ 1,491	\$ 1,563	\$ 3,402	\$ 3,508
Pension expense						
Prior (and past) service costs from plan amendments or new plans	_	(1)	(1)	(19)	(1)	(20)
Normal costs	39	39	27	27	66	66
Interest on liability	70	74	58	63	128	137
Actuarial (gains)/losses (from experience)	(12)	(27)	(2)	(26)	(14)	(53)
Actuarial (gains)/losses (from assumption changes)	94	(33)	53	(59)	147	(92)
Total pension expense	191	52	135	(14)	326	38
Less benefits paid	(88)	(86)	(58)	(58)	(146)	(144)
Actuarial accrued pension liability, end of fiscal year	\$ 2,014	\$ 1,911	\$ 1,568	\$ 1,491	\$ 3,582	\$ 3,402

Change in post-retirement health and accrued benefits

		Ci	vilian		Mi	ilitary		Total
(In billions)	2017		2016	2017		2016	2017	2016
Actuarial accrued post-retirement health benefits liability, beginning of fiscal year	\$ 352	\$	364	\$ 800	\$	731	\$ 1,152	\$ 1,095
Post-Retirement health benefits expense								
Prior (and past) service costs from plan amendments or new plans	_		_	_		(6)	_	(6)
Normal costs	13		14	21		19	34	33
Interest on liability	14		15	32		30	46	45
Actuarial (gains)/losses (from experience)	5		(11)	(21)		41	(16)	30
Actuarial (gains)/losses (from assumption changes)	 8		(15)	(28)		5	(20)	(10)
Total post-retirement health benefits expense	40		3	4		89	44	92
Less claims paid	(16)		(15)	(22)		(20)	(38)	(35)
Actuarial accrued post-retirement health benefits liability, end of fiscal year	\$ 376	\$	352	\$ 782	\$	800	\$ 1,158	\$ 1,152

The federal government offers its employees retirement and other benefits, as well as health and life insurance. The liabilities for these benefits, which include both actuarial amounts and amounts due and payable to beneficiaries and healthcare carriers, apply to current and former civilian and military employees. Large fluctuations in actuarial amounts can result from changes in estimates to future outflows for benefits based on complex assumptions and cost models.

OPM administers the largest civilian plan. DOD and VA administer the largest military plans. Other significant pension plans with more than \$10 billion in accrued benefits payable include those of the Coast Guard (DHS), Foreign Service (Department of State), TVA, USPS, and HHS's Public Health Service Commissioned Corps Retirement System. Please refer to the financial statements of the agencies listed for further details regarding their pension plans and other benefits.

Significant long-term economic assumptions used in determining pension liability and the related expense

		Civilian		rilian M		
		2017		2016	2017	2016
	FERS	CSFS	FERS	CSFS		
Rate of interest	3.8%	3.2%	4.0%	3.5%	3.7%	3.9%
Rate of inflation	1.8%	1.8%	1.9%	1.9%	1.7%	1.7%
Projected salary increases	1.5%	1.5%	1.5%	1.5%	2.1%	2.1%
Cost of living adjustment	1.4%	1.8%	1.6%	1.9%	—%	—%

Significant long-term economic assumptions used in determining post-retirement health benefits and the related expense

	Civilia	Civilian M		
	2017 201	6 2017	2016	
Rate of interest	3.8% 4.0	% 3.8%	4.0%	
Single equivalent medical trend rate	4.8% 5.0	% 4.1%	4.6%	
Ultimate medical trend rate	3.4% 3.5	% 4.2%	4.5%	

In accordance with SFFAS No. 33, Pension, Other Retirement Benefits, and Other Postemployment Benefits: Reporting the Gains and Losses from Changes in Assumptions and Selecting Discount Rates and Valuation Dates, agencies are required to separately present gains and losses from changes in long-term assumptions used to estimate liabilities associated with pensions, Other Retirement Benefits (ORB), and Other Postemployment Benefits (OPEB) on the Statement of Net Cost. SFFAS No. 33 also provides a standard for selecting the discount rate assumption for present value estimates of federal employee pension, ORB, and OPEB liabilities. The SFFAS No. 33 standard for selecting the discount rate assumption requires it be based on a historical average of interest rates on marketable Treasury securities consistent with the cash flows being discounted. Additionally, SFFAS No. 33 provides a standard for selecting the valuation date for estimates of federal employee pension, ORB, and OPEB liabilities that establishes a consistent method for such measurements.

To provide a sustainable, justifiable data resource for the affected agencies, Treasury developed a new model and methodology for developing these interest rates in fiscal year 2014. The new method that was developed is based on methodology used to produce the High Quality Market (HQM) Yield Curve pursuant to the *Pension Protection Act of 2006*. As of July 2014, Treasury began releasing interest rate yield curve data using this new US Department of the Treasury's Yield Curve for Treasury Nominal Coupon Issues (TNC yield curve), which is derived from Treasury notes and bonds. The TNC yield curve provides information on Treasury nominal coupon issues and the methodology extrapolates yields beyond 30 years through 100 years maturity. The TNC yield curve is used to produce a Treasury spot yield curve (a zero-coupon curve), which provides the basis for discounting future cash flows.

Civilian employees

Pensions

OPM administers the largest civilian pension plan, which covers substantially all full-time, permanent civilian federal employees. This plan includes two components of defined benefits, the Civil Service Retirement System (CSRS) and the Federal Employees' Retirement System (FERS). The basic benefit components of the CSRS and the FERS are financed and operated through the Civil Service Retirement and Disability Fund (CSRDF), a trust fund. CSRDF monies are generated primarily from employees' contributions, agency contributions, payments from the General Fund, and interest on investments in Treasury securities.

The Federal Retirement Thrift Investment Board administers the TSP. The TSP investment options include two fixed income funds (the G and F Funds), three stock funds (the C, S, and I Funds) and five lifecycle funds (L 2050, L 2040, L 2030, L 2020, and L Income). The L Funds diversify participant accounts among the G, F, C, S, and I Funds, using professionally determined investment mixes (allocations) that are tailored to different time horizons. Treasury securities held in the G Fund are included in federal debt securities held by the public and accrued interest on the Balance Sheet. The G Fund held \$218 billion and \$221 billion in nonmarketable Treasury securities as of September 30, 2017, and 2016, respectively.

The liability for civilian pension and accrued benefits payable increased \$103 billion. This increase is largely attributable to changes in actuarial assumptions. The assumption loss results primarily from decreases to the assumed rates of interest and to changes in demographic assumptions.

Post-retirement health benefits

The post-retirement civilian health benefit liability is an estimate of the federal government's future cost of providing postretirement health benefits to current employees and retirees. Although active and retired employees pay insurance premiums under the Federal Employees Health Benefits Program (FEHB), these premiums cover only a portion of the costs. The OPM actuary applies economic and demographic assumptions to historical cost information to estimate the liability.

The Postal Accountability and Enhancement Act of 2006 (Postal Act of 2006) (P.L. No 109-435, Title VIII), made significant changes in the funding of future retiree health benefits for employees of the USPS, including the requirement for the USPS to make scheduled payments to the Postal Service Retiree Health Benefits (PSRHB) Fund. Various legislation requires the USPS to make scheduled payments to the PSRHB Fund ranging from \$5 billion to \$6 billion per year from fiscal year 2007 through fiscal year 2016. Thereafter, the law requires USPS to make annual payments in the amount of the normal cost plus or minus an amount to amortize the unfunded liability or surplus. USPS currently owes the PSRHB Fund a total of \$38 billion consisting of: \$11 billion for fiscal year 2012, and \$6 billion for each fiscal years 2013 through 2016, and \$4 billion for fiscal year 2017. As of September 30, 2017, USPS has not indicated its intention regarding payment of the total \$38 billion due. At this time, Congress has not taken further action on these payments due to the PSRHB Fund from USPS. The cost for each year's payment, including any defaulted payment, along with all other benefit program costs, are included in USPS' net cost for that year in the consolidated Statements of Net Cost.

The post-retirement civilian health benefit liability increased \$24 billion. This increase is due to the accruing cost of benefits, interest on the existing liability and an actuarial loss primarily attributable to updated demographic assumptions used in the fiscal year 2017 calculation.

Military employees (including veterans)

Pensions

The military retirement system consists of a funded, noncontributory, defined benefit plan. It applies to military personnel (Departments of Army, Navy, Air Force, and the Marine Corps). This system includes non-disability retired pay, disability retired pay; survivor annuity programs, and Combat-Related Special Compensation. The Service Secretaries may approve immediate non-disability retired pay at any age with credit of at least 20 years of active duty service. Reserve retirees must be at least 60 years old and have at least 20 qualifying years of service before retired pay commences; however, in some cases, the age can be less than 60 if the reservist performs certain types of active service. P.L. 110-181 provides for a 90day reduction in the reserve retirement age from age 60 for every 3 months of certain active duty service served within a fiscal year for service after January 28, 2008 (not below age 50). There is no vesting of benefits before non-disabled retirement. There are distinct non-disability benefit formulas related to four populations within the Military Retirement System: Final Pay, High-3, Career Status Bonus/Redux, and the Blended Retirement System (BRS) enacted in the National Defense Authorization Act for Fiscal Year 2016, effective January 1, 2018. The BRS is a new retirement benefit merging aspects of both a defined benefit annuity with a defined contribution account, through the Thrift Savings Plan (TSP). The date an individual enters the military determines which retirement system they would fall under and if they have the option to pick their retirement system. Military personnel with a start date on or after January 1, 2018 are automatically enrolled in BRS. Although all members serving as of December 31, 2017 are grandfathered under the existing retirement system, Active Duty, National Guard and Reserve personnel meeting established criteria may opt into BRS during calendar year 2018. Under the BRS, retiring members are given the option to receive a portion of their retired pay annuity in the form of a lump sum distribution. For more information on these benefits, see DOD's Office of Military Compensation website https://militarypay.defense.gov.

PART II Item 8

The DOD Military Retirement Fund was established by P.L. 98-94 (currently Chapter 74 of Title 10, U.S.C.) and accumulates funds to finance, on an accrual basis, the liabilities of DOD military retirement and survivor benefit programs. This Fund receives income from three sources: monthly normal cost payments from the Services and Treasury to pay for the current years' service cost; annual payments from the Treasury to amortize the unfunded liability and pay for the increase in the normal cost attributable to Concurrent Receipt per P.L. 108-136; and investment income.

The \$77 billion increase in the Military Retirement Pension liability is primarily attributable to a reduction in the discount rate related to requirements prescribed by SFFAS No. 33, *Pensions, Other Retirement Benefits, and Other Postemployment Benefits*, and the expected increase from normal and interest costs offset by benefit payments. Liabilities in the future will depend on expected changes due to interest and benefit accruals, future benefit changes, assumption changes, and actuarial experience.

Veterans compensation and burial benefits

The federal government compensates disabled veterans and their survivors. Veterans' compensation is payable as a disability benefit or a survivor's benefit. Entitlement to compensation depends on the veteran's disabilities having been incurred in, or aggravated during, active military service; death while on duty; or death resulting from service-connected disabilities, if not on active duty.

Eligible veterans who die or are disabled from military service-related causes, as well as their dependents, receive compensation benefits. Also, veterans are provided with burial flags, headstones/markers, and grave liners for burial in a VA national cemetery or are provided a burial flag, headstone/marker and a plot allowance for burial in a private cemetery. These benefits are provided under 38 U.S.C., Part 2, Chapter 23 in recognition of a veteran's military service and are recorded as a liability in the period the requirements are met.

The liability for veterans' compensation and burial benefits payable is based on an actuarial estimate of future compensation and burial payments and increased by \$314 billion in fiscal year 2017. The \$314 billion increase is primarily attributable to assumption changes and experience. The major experience impact was a higher than expected number of veterans who became eligible for benefits during fiscal year 2017. The major assumption change impacts were from a decrease in the discount rate and an increase in assumed future new compensation case rates.

Several significant actuarial assumptions were used in the valuation of compensation and burial benefits to calculate the present value of the liability. A liability was recognized for the projected benefit payments to: 1) those beneficiaries, including veterans and survivors, currently receiving benefit payments; 2) current veterans who will in the future become beneficiaries of the compensation program; and 3) a proportional share of those in active military service as of the valuation date who will become eligible disabled veterans in the future. Future benefit payments to survivors of those veterans in classes 1, 2, and 3 above are also incorporated into the projection. The projected liability does not include any administrative costs.

The veterans' compensation and burial benefits liability is developed on an actuarial basis. It is impacted by interest on the liability balance, experience gains or losses, changes in actuarial assumptions, prior service costs, and amounts paid for costs included in the liability balance.

Change in veterans compensation and burial benefits

	Comp	Compensation		Compensation		Compensation		Burial		Total
(In billions)	2017	2016	2017	2016	2017	2016				
Actuarial accrued liability beginning of fiscal year	\$ 2,491	\$ 2,014	\$ 5	\$ 5	\$ 2,496	\$ 2,019				
Current year expenses										
Interest on the liability balance	98	82	_	_	98	82				
Actuarial (gain)/losses (from experience)	51	92	_	_	51	92				
Actuarial (gain)/losses (from assumption changes)	244	377			244	377				
Total current year expense	393	551	_	_	393	551				
Less benefits paid	(79)	(74)	_	_	(79)	(74)				
Actuarial accrued liability, end of fiscal year	\$ 2,805	\$ 2,491	\$ 5	\$ 5	\$ 2,810	\$ 2,496				

Significant economic assumptions used in determining veterans compensation and burial benefits

	2017	2016
Rate of interest	3.66%	3.93%
Rate of inflation	2.28%	2.30%

Post-retirement health benefits

Military retirees who are not yet eligible for Medicare (and their eligible non-Medicare eligible dependents) are eligible for post-retirement medical coverage provided by DOD. Depending on the benefit plan selected, retirees and their eligible dependents may receive care from military treatment facilities (MTFs) on a space-available basis or from civilian providers. This TRICARE coverage is available in Indemnity (health plan that allows you to visit almost any doctor or hospital you choose), preferred provider organization [(PPO) – health plan that contracts with medical providers to create a network of participating providers; member cost-shares are typically higher for services received out-of network] and health maintenance organization [(HMO) – health plan that limits services to a specific network of medical personnel and facilities and usually by requiring referral by a primary-care physician for specialty care] designs, with varying levels of cost sharing. These postretirement medical benefits are paid by the Defense Health Agency on a pay-as-you-go basis.

Since fiscal year 2002, DOD has provided medical coverage to Medicare-eligible retirees (and their eligible Medicare eligible dependents). This coverage, called TRICARE for Life (TFL), is a Medicare Supplement plan which includes inpatient, outpatient and pharmacy coverage. Enrollment in Medicare Part B is required to maintain eligibility in TFL. Retirees with TFL coverage can obtain care from MTFs on a space-available basis or from civilian providers.

10 U.S.C., Chapter 56 created the DOD Medicare-Eligible Retiree Health Care Fund (MERHCF), which became operative on October 1, 2002. The purpose of this fund is to account for and accumulate funds for the health benefit costs of Medicare-eligible military retirees, and their dependents and survivors who are Medicare eligible. The Fund receives revenues from three sources: interest earnings on MERHCF assets, Uniformed Services normal cost contributions, and Treasury contributions. The DOD Medicare-Eligible Retiree Health Care Board of Actuaries (the Board) approves the methods and assumptions used in actuarial valuations of the MERHCF for the purpose of calculating the per capita normal cost rates (to fund the annual accrued benefits) and determining the unfunded liability amortization payment (the US Treasury contribution). The Secretary of Defense directs the Secretary of Treasury to make DOD's normal cost payments. The MERHCF pays for medical costs incurred by Medicare-eligible beneficiaries at MTFs and civilian providers (including capitated payments to U.S. Family Health Plans for grandfathered beneficiaries), plus the costs associated with claimed administration. The actuaries calculate the actuarial liabilities annually using assumptions and actual experience (e.g., mortality and retirement rates, health care costs, medical trend rates, and the discount rate).

Military post-retirement health and accrued benefits payable decreased \$18 billion. This decrease is due primarily to changes in key actuarial assumptions, and actuarial experience being more favorable from what has been assumed (demographic and claims data).

In addition to the healthcare benefits the federal government provides for civilian and military retirees and their dependents, the VA also provides medical care to veterans on an "as available" basis, subject to the limits of the annual appropriations. In accordance with 38 CFR 17.36 (c), VA's Secretary makes an annual enrollment decision that defines the veterans, by priority, who will be treated for that fiscal year subject to change based on funds appropriated, estimated collections, usage, the severity index of enrolled veterans, and changes in cost. While VA expects to continue to provide medical care to veterans in future years, an estimate of such future benefits cannot be reasonably made. Accordingly, VA recognizes the medical care expenses in the period the medical care services are provided. For the fiscal years 2013 through 2017, the average medical care cost per year was \$58 billion.

Pension benefits

The VA also provides certain veterans and/or their dependents with pension benefits, based on annual eligibility reviews, if the veteran died or was disabled for nonservice-related causes. VA pension benefits are recognized as a nonexchange transaction due to the nature of the VA pension plan. Therefore, the actuarial present value of these future benefits is not required to be recorded on the Balance Sheet. The projected amounts of future payments for pension benefits (presented for informational purposes only) as of September 30, 2017, and 2016, was \$88 billion and \$87 billion, respectively.

State and local government

(In billions)	2017	2016
Unfunded pension entitlements	\$ 4,151 \$	4,164
Other pension liabilities	 4,028	3,731
Total employee and veteran benefits payable	\$ 8,179 \$	7,895

Note 13 - Environmental and disposal liabilities

(In billions)	2017	2016
Federal	\$ 465	\$ 447
State and local		
Total environmental and disposal liabilities	\$ 465	\$ 447

Federal government

(In billions)	2017	2016
Department of Energy		
Environmental and disposal liabilities	\$ 384	\$ 372
Department of Defense		
Environmental restoration	27	27
All other Department of Defense	41	36
Total Department of Defense	68	63
All other agencies	13	3 12
Total environmental and disposal liabilities	\$ 465	5 \$ 447

Department of Energy

During World War II and the Cold War, DOE (or predecessor agencies) developed a massive industrial complex to research, produce, and test nuclear weapons. This included nuclear reactors, chemical-processing buildings, metal machining plants, laboratories, and maintenance facilities that manufactured tens of thousands of nuclear warheads and conducted more than 1,000 nuclear tests.

At all sites where these activities took place, some environmental contamination occurred. This contamination was caused by the production, storage, and use of radioactive materials and hazardous chemicals, which resulted in contamination of soil, surface water, and groundwater. The environmental legacy of nuclear weapons production also includes thousands of contaminated buildings and large volumes of waste and special nuclear materials requiring treatment, stabilization, and disposal.

Estimated cleanup costs at sites for which there are no current feasible remediation approaches, such as the Nevada nuclear test site, are excluded from the estimates, although applicable stewardship and monitoring costs for these sites are included. DOE has not been required through regulation to establish remediation activities for these sites.

Estimating DOE's environmental cleanup liability requires making assumptions about future activities and is inherently uncertain. The future course of DOE's environmental cleanup and disposal will depend on a number of fundamental technical and policy choices, many of which have not been made. The sites and facilities could be restored to a condition suitable for any desirable use, or could be restored to a point where they pose no near-term health risks. Achieving the former conditions would have a higher cost but may (or may not) warrant the costs, or be legally required. The environmental and disposal liability estimates include contingency estimates intended to account for the uncertainties associated with the technical cleanup scope of the program.

DOE's environmental and disposal liabilities estimates are dependent on annual funding levels and achievement of work as scheduled. Congressional appropriations at lower than anticipated levels or unplanned delays in project completion would cause increases in life-cycle costs.

DOE's environmental and disposal liabilities also include the estimated cleanup and post-closure responsibilities, including surveillance and monitoring activities, soil and groundwater remediation, and disposition of excess material for sites. The Department is responsible for the post-closure activities at many of the closure sites as well as other sites. The costs for these post-closure activities are estimated for a period of 75 years after the balance sheet date, i.e., through 2092 in fiscal year 2017 and through 2091 in fiscal year 2016. While some post-cleanup monitoring and other long-term stewardship activities post-2091 are included in the liability, there are others the Department expects to continue beyond 2092 for which the costs cannot reasonably be estimated.

A portion of DOE's environmental and disposal liabilities at various field sites includes anticipated costs for facilities managed by DOE's ongoing program operations which will ultimately require stabilization, deactivation, and decommissioning. The estimate is largely based upon a cost-estimating model. Site specific estimates are used in lieu of the cost-estimating model, when available. Cost estimates for ongoing program facilities are updated each year. For facilities newly contaminated since fiscal year 1997, cleanup costs allocated to future periods and not included in environmental and disposal liabilities amounted to \$0.9 billion and \$0.7 billion for fiscal years 2017 and 2016, respectively.

Please refer to the financial statements of the DOE for significant detailed information regarding DOE's environmental and disposal liabilities, including cleanup costs.

Department of Defense

DOD must restore active installations, installations affected by base realignment and closure, and other areas formerly used as Defense sites. DOD also bears responsibility for disposal of chemical weapons and environmental costs associated with the disposal of weapons systems (primarily nuclear-powered aircraft carriers and submarines).

DOD follows the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Superfund Amendments and Reauthorization Act, Resource Conservation and Recovery Act (RCRA) and other applicable federal or state laws to clean up contamination. The CERCLA and RCRA require the DOD to clean up contamination in coordination with regulatory agencies, current owners of property damaged by the Department, and third parties that have a partial responsibility for the environmental restoration. Failure to comply with agreements and legal mandates puts the DOD at risk of incurring fines and penalties.

DOD uses engineering estimates and independently validated models to estimate environmental costs. The engineering estimates are used after obtaining extensive data during the remedial investigation/feasibility phase of the environmental project.

For general PP&E placed into service after September 30, 1997, DOD expenses associated environmental costs systematically over the life of the asset using two methods: physical capacity for operating landfills and life expectancy in years for all other assets. DOD expenses the full cost to clean up contamination for stewardship property, plant, and equipment at the time the asset is placed into service. DOD has expensed the costs for cleanup associated with general property, plant, and equipment placed into service before October 1, 1997, except for costs intended to be recovered through user charges; for those costs, DOD has expensed cleanup costs associated with that portion of the asset life that has passed since it was placed into service. DOD systematically recognizes the remaining cost over the remaining life of the asset. DOD is unable to provide an estimate for the unrecognized portion of the cleanup cost associated with general property, plant, and equipment for fiscal year 2017. The Department is reevaluating its methodology and implementing procedures to address deficiencies. The unrecognized portion of the cleanup cost associated with general property, plant, and equipment for fiscal year 2016 is \$3 billion.

DOD is unable to estimate and report a liability for environmental restoration and corrective action for buried chemical munitions and agents, because the extent of the buried chemical munitions and agents is unknown at this time. DOD is also unable to provide a complete estimate for the Formerly Utilized Sites Remedial Action Program. DOD has ongoing studies and will update its estimate as additional liabilities are identified. DOD has the potential to incur costs for restoration initiatives in conjunction with returning overseas Defense facilities to host nations. However, DOD is unable to provide a reasonable estimate at this time because the extent of required restoration is unknown.

Please refer to the financial statements of DOD for further detailed information regarding DOD's environmental and disposal liabilities, including cleanup costs.

State and local government

The Federal Reserve does not provide amounts for environmental and disposal liabilities at the state and local government level. We do not know if states have these liabilities, and if they do, we are not aware of another aggregated source for this data.

Note 14 - Benefits due and payable

(In billions)	2017	2016
Federal Federal	\$ 219 \$	218
State and local		_
Total benefits due and payable	\$ 219 \$	218

(In billions)	2017	2016
Federal Old-Age and Survivors Insurance	\$ 71	\$ 69
Grants to States for Medicaid	34	35
Federal Supplementary Medical Insurance (Medicare Parts B and D)	31	36
Federal Hospital Insurance (Medicare Part A)	30	28
Federal Disability Insurance	27	28
All other benefits programs	 26	22
Total benefits due and payable	\$ 219	\$ 218

Benefits due and payable are amounts owed to program recipients or medical service providers as of September 30 that have not been paid. HHS and the SSA administer the majority of the medical service programs and the DOL administers the Unemployment Insurance program. For a description of the programs, see in the 2017 Financial Report, Note 22 – Social Insurance and the Unaudited Required Supplementary Information – Social Insurance section.

State and local government

Based on our understanding of the state and local government, we expect there to be amounts for benefits due and payable, however, the Federal Reserve does not provide information on the balances, and we are not aware of another aggregated source of this data.

Note 15 - Insurance and guarantee program liabilities

(In billions)		2017	2016
Federal	\$	203	\$ 187
State and local	_		
Total insurance and guarantee program liabilities	\$	203	\$ 187

Federal government

(In billions)	2017	2016
Pension Benefit Guaranty Corporation – Benefit Pension Plans	\$ 179	\$ 175
All other insurance and guarantee programs	 24	12
Total insurance and guarantee program liabilities	\$ 203	\$ 187

As of September 30, 2017, and 2016, \$179 billion and \$175 billion, respectively, pertain to the PBGC single-employer and multiemployer pension plans. PBGC insures pension benefits for participants in covered defined benefit pension plans. As of September 30, 2017, and 2016, PBGC had total liabilities of \$184 billion and \$179 billion, and its total liabilities exceeded its total assets by \$76 billion and \$79 billion, respectively. Refer to PBGC's financial statements for more information. As a wholly-owned corporation of the federal government, PBGC's financial activity and balances are included in the consolidated federal financial statements.

State and local government

The Federal Reserve does not provide amounts for insurance and guarantee program liabilities. We do not know if states have these liabilities, and if they do, we are not aware of another aggregated source for this data.

Note 16 – Other liabilities

(In billions)	2017	2016
Federal	\$ 473	\$ 469
State and local	 _	
Total other liabilities	\$ 473	\$ 469

Federal government

(In billions)	2017	2016
Unearned revenue and assets held for others		
Unearned fees for nuclear waste disposal (DOE) and other unearned revenue	\$ 60	\$ 54
Assets held on behalf of others	111	114
Subtotal	171	168
Employee-related liabilities		
Accrued federal employees' wages and benefits	37	36
Selected DOE contractors' and D.C. employees' pension benefits	52	53
Subtotal	89	89
International monetary liabilities and gold certificates		
Exchange Stabilization Fund	55	55
Gold certificates	11	11
Subtotal	66	66
Subsidies and grants	35	36
Miscellaneous liabilities		
Legal and other contingencies	57	50
Other miscellaneous	55	60
Subtotal	112	110
Total	\$ 473	\$ 469

Other liabilities represent liabilities that are not separately identified on the Balance Sheet and are presented on a comparative basis by major category.

Unearned revenue and assets held for others

The federal government recognizes a liability when it receives money in advance of providing goods and services or assumes custody of money belonging to others. The federal government's unearned revenue from fees DOE has collected from utility companies for the future cost of managing the disposal of nuclear waste and interest income received is about \$40 billion and \$39 billion as of September 30, 2017, and 2016, respectively. Other unearned revenue includes USPS income for such things as prepaid postage and prepaid P.O. Box rentals. Assets held on behalf of others include funds collected in advance for such things as outstanding postal money orders and undelivered Defense articles. DSCA holds \$86 billion and \$81 billion as of September 30, 2017, and 2016, respectively, for articles and services for future delivery to foreign governments.

Employee-related liabilities

This category includes amounts owed to employees at year-end and actuarial liabilities for certain non-federal employees. Actuarial liabilities for federal employees and veteran benefits are included in *Note 12 – Employee and veteran benefits payable* and are reported on another line on the Balance Sheet. The largest liability in the employee-related liabilities category is the amount owed at the end of the fiscal year to federal employees for wages and benefits (including accrued annual leave). In addition, DOE is liable to certain contractors for contractor employee pension and postretirement benefits, which is about \$23 billion and \$29 billion as of September 30, 2017 and 2016, respectively. Also, the federal government owed about \$9 billion as of both September 30, 2017, and 2016, for estimated future pension benefits of the District of Columbia's judges, police, firefighters, and teachers.

International monetary liabilities and gold certificates

Consistent with US obligations in the IMF on orderly exchange arrangements and a stable system of exchange rates, the Secretary of the Treasury, with the approval of the President, may use the Exchange Stabilization Fund to deal in gold, foreign exchange, and other instruments of credit and securities.

Gold certificates are issued in nondefinitive or book-entry form to the Federal Reserve Bank of New York (FRBNY). The federal government's liability incurred by issuing the gold certificates, as reported on the Balance Sheet, is limited to the gold being held by the Department of the Treasury at the standard value established by law. Upon issuance of gold certificates to the FRBNY, the proceeds from the certificates are deposited into the operating cash of the US Government. All of the Department of the Treasury's certificates issued are payable to the FRBNY.

Gold totaling \$11 billion as of September 30, 2017, and 2016, was pledged as collateral for gold certificates issued and authorized to the FRBs by the Secretary of the Treasury. Treasury may redeem the gold certificates at any time.

Subsidies and grants

The federal government supports the public good through a wide variety of subsidy and grant programs in such areas as agriculture, medical and scientific research, education, and transportation. USDA programs such as Conservation Reserve; grants, subsidies, and contributions; and Agricultural Risk Coverage and Price Loss Coverage account for the majority of the subsidies due, about \$12 billion and \$13 billion as of September 30, 2017 and 2016, respectively.

The federal government awards hundreds of billions of dollars in grants annually. These include project grants that are competitively awarded for agency-specific projects, such as HHS grants to fund projects to "enhance the independence, productivity, integration, and inclusion into the community of people with developmental disabilities." Other grants are formula grants, such as matching grants. Formula grants go to state governments for such things as education and transportation programs. These grants are paid in accordance with distribution formulas that have been provided by law or administrative regulations. Of the total liability reported for grants as of both September 30, 2017, and 2016, DOT, Education, and HHS collectively owed their grantees about \$17 billion. Refer to the financial statements and footnotes of the respective agencies for additional information.

Miscellaneous liabilities

Some of the more significant liabilities included in this category are for (1) legal and other contingencies (see *Note 18 – Contingencies*), (2) Bonneville Power Administration liability to pay annual budgets of several power projects for its electrical generating capacity, and (3) payables due to the purchases of securities.

In addition, many federal agencies reported relatively small amounts of miscellaneous liabilities that are not otherwise classified.

State and local government

Based on our review of specific state Comprehensive Annual Financial Reports, we know that the state governments do have other liabilities, however the Federal Reserve does not provide information on the balances, and we are not aware of another aggregated source of this data.

Note 17 - Prior-period adjustments

This note summarizes the restatements that our Government has made of their prior period figures. The effects of these restatements were increases (decreases) in the previously reported values, as follows:

(In billions)	Fe	deral	Sta	te and Local	Com	bined 2016
Income statements						
Net deficit	\$	_	\$	8	\$	8
Total expenditures		_		8		8
Combined functional income statements						
Payments to others for goods and services		_		8		8
Combined segment income statements						
Secure the blessings of liberty to ourselves and our posterity expenditures		_		7		7
General government and other expenditures		_		1		1
Balance sheets						
Property, plant and equipment, net (Note 6)		_		(9)		(9)
Debt and equity securities (Note 7)		_		13		13
Debt securities held by the public and accrued interest (Note 11)		_		10		10
Employee and veteran benefits payable (Note 12)				5		5
Accumulated deficit	\$	_	\$	(11)	\$	(11)

Federal government

Because of our process of using the most recent *Financial Report of the United States* to develop our federal balance sheets, as described in *General note on sources* above, we will generally not be required to restate our previously reported federal balance sheet disclosures. However, the OMB infrequently restates federal income statement data. Should this occur, we will restate the related federal income statement and footnote figures in our report. We noted no material federal balance sheet or income statement restatements for the periods presented.

State and local government

The Census and the Federal Reserve restated certain prior year (fiscal year 2016) figures we reported in the state and local financial statements and accompanying footnote disclosures. Generally, the Census and the Federal Reserve do not describe the cause and nature of their restatements. However, they did disclose the cause and nature of the largest restatement for 2015, shown in *Employee and veteran benefits payable* in the table above. Pension entitlements of state and local government employee defined benefit retirement funds amounts for 2015 were changed to be presented on a projected benefit obligation (PBO) basis; previously, they were presented on an accumulated benefit obligation basis. The PBO method is also used to estimate the pension entitlements of federal government employee defined benefit pension plans.

Note 18 – Contingencies

(In billions)		2017	2016
Federal	\$	35	\$ 33
State and local	_		
Total contingencies	\$	35	\$ 33

Federal government

Financial treatment of loss contingencies

Loss contingencies are existing conditions, situations, or set of circumstances involving uncertainty as to possible loss to an entity. The uncertainty will ultimately be resolved when one or more future events occur or fail to occur. The reporting of loss contingencies depends on the likelihood that a future event or events will confirm the loss or impairment of an asset or the incurrence of a liability. Terms used to assess the range for the likelihood of loss are probable, reasonably possible, and remote. Loss contingencies that are assessed as probable and measurable are accrued in the financial statements. Loss contingencies that are assessed to be at least reasonably possible are disclosed in this note and loss contingencies that are assessed as remote are not reported in the financial statements, nor disclosed in the notes.

The federal government is subject to loss contingencies that include insurance and litigation cases. These loss contingencies arise in the normal course of operations and their ultimate disposition is unknown. Based on information currently available, however, it is management's opinion that the expected outcome of these matters, individually or in the aggregate, will not have a material adverse effect on the financial statements, except for the insurance and litigation described in the following section, which could have a material adverse effect on the financial statements.

Insurance contingencies

At the time an insurance policy is issued, a contingency arises. The contingency is the risk of loss assumed by the insurer, that is, the risk of loss from events that may occur during the term of the policy. The federal government has insurance contingencies that are reasonably possible in the amount of \$253 billion as of September 30, 2017, and \$244 billion as of September 30, 2016. The major programs are identified below:

- PBGC reported \$252 billion and \$243 billion as of September 30, 2017, and 2016, respectively, for the estimated aggregate unfunded vested benefits exposure to the PBGC for private-sector single-employer and multiemployer defined benefit pension plans that are classified as a reasonably possible exposure to loss. This increase is primarily due to the decrease in the interest factors used for valuing liabilities for the single-employer program, while the multiemployer program experienced a decrease in liability due to the removal of certain plans that are no longer classified as reasonably possible. Please refer to the PBGC financial statements for further details.
- FDIC reported \$1 billion as of both September 30, 2017, and 2016, for identified additional risk in the financial services industry that could result in additional loss to the Deposit Insurance Fund (DIF) should potentially vulnerable insured institutions ultimately fail. Actual losses, if any, will largely depend on future economic and market conditions.

Deposit insurance

Deposit insurance covers all types of deposit accounts such as checking, negotiable order of withdrawal and savings accounts, money market deposit accounts, and certificates of deposit received at an insured bank, savings association, or credit union. The insurance covers the balance of each depositor's account and shares, dollar-for-dollar, including principal and any accrued interest through the date of the insured financial institution's closing, up to the insurance limit. As a result, the federal government has the following exposure from federally-insured financial institutions:

- FDIC has estimated insured deposits of \$7,092 billion as of September 30, 2017, and \$6,823 billion as of September 30, 2016, for the DIF.
- National Credit Union Administration (NCUA) has estimated insured shares of \$1,081 billion as of September 30, 2017, and \$1,016 billion as of September 30, 2016, for the National Credit Union Share Insurance Fund.

Legal contingencies

Legal contingencies as of September 30, 2017, and 2016, are summarized in the table below:

			2017				
			Range of Loss Certain Cases ²		Estimated Range of Lo for Certain Cases		
(In billions)	Accrued Liabilities ¹	Lower End	Upper End	Accrued Liabilities ¹	Lower End	Upper End	
Probable Reasonably possible	\$ 7 \$ —	\$ 7 \$ 3	\$ 9 \$ 13	\$ 7 \$ —	\$ 7 \$ 9	\$ 8 \$ 17	

Accrued liabilities are recorded and presented in the related line items of the Combined balance sheets.

The federal government is party to various administrative claims and legal actions brought against it, some of which may ultimately result in settlements or decisions against the federal government.

Management and legal counsel have determined that it is "probable" that some of these actions will result in a loss to the federal government and the loss amounts are reasonably measurable. The estimated liabilities for "probable" cases against the federal government are \$7 billion as of both September 30, 2017, and 2016, and are included in Other liabilities on the Combined balance sheet. For example, the US Supreme Court decision in Salazar v. Ramah Navajo Chapter, dated June 18, 2012, is likely to result in additional claims against the Indian Health Service (IHS), which is a component within HHS. As a result of this decision, many tribes have filed claims. Some claims have been settled and others have been asserted but not yet settled.

There are also administrative claims and legal actions pending where adverse decisions are considered by management and legal counsel as "reasonably possible" with an estimate of potential loss or a range of potential loss. The estimated potential losses reported for such claims and actions range from \$3 billion to \$13 billion as of September 30, 2017, and from \$9 billion to \$16 billion as of September 30, 2016. For example, the Department of the Treasury's American Recovery and Reinvestment Tax Act of 2009 (ARRA) Related Cases are a number of cases that were filed in the US Court of Federal Claims alleging that the US government violated statutory and regulatory mandates to make proper payments to plaintiffs under ARRA, Section 1603, for having placed certain energy properties into service. The Department has determined there is a reasonably possible likelihood of unfavorable outcomes in some of the cases.

² Does not reflect the total range of loss; many cases assessed as reasonably possible of an unfavorable outcome did not include estimated losses that could be determined.

Numerous litigation cases are pending where the outcome is uncertain or it is reasonably possible that a loss has been incurred and where estimates cannot be made. There are other litigation cases where the plaintiffs have not made claims for specific dollar amounts, but the settlement may be significant. The ultimate resolution of these legal actions for which the potential loss could not be determined may materially affect the US government's financial position or operating results. An example of a specific case is summarized below:

In the case, Starr International Co., Inc. v. United States, the plaintiff, an American International Group, Inc. (AIG) shareholder that brought suit on behalf of two classes of shareholders, alleges that the US government violated the Fifth Amendment to the United States Constitution by illegally exacting or taking property without just compensation. One class, the Credit Agreement Class, claimed that the Fifth Amendment was violated when a majority share of AIG's equity and voting rights was conveyed in connection with an \$85 billion loan to AIG during the 2008 financial crisis. Starr also asserted a Fifth Amendment violation on behalf of the second class, the Reverse Stock Split Shareholder Class, alleging that a June 2009 reverse split of AIG's common stock constituted a taking of the common stockholders' asserted right to a shareholder vote on whether to approve a reverse split of AIG's common stock. The US Court of Federal Claims held that the Credit Agreement Shareholder Class prevails on liability, but recovers no damages, and that the Reverse Stock Split Shareholder class does not prevail on liability or damages. On appeal, the US Court of Appeals for the Federal Circuit overturned the lower court's finding with respect to the Credit Agreement Shareholder Class and held that the plaintiff did not have standing to bring the illegal exaction claim, since equity-acquisition claims belong exclusively to AIG and not to its shareholders. (AIG's board of directors declined to pursue any claims against the federal government in a unanimous vote in January 2013.) The Federal Circuit also affirmed the trial court's ruling on the reverse stock split claim. On October 6, 2017, the plaintiff petitioned the Supreme Court for a writ of certiorari. The federal government is unable to determine the likelihood of an unfavorable outcome or make an estimate of potential loss at this time.

Environmental and disposal contingencies

Environmental and disposal contingencies as of September 30, 2017, and 2016, are summarized in the table below:

		2017				2016	
			Range of Loss Certain Cases ²		Estimated Range of Lo for Certain Cases		
(In billions)	Accrued Liabilities ¹	Lower End	Upper End	Accrued Liabilities ¹	Lower End	Upper End	
Probable Reasonably possible	\$ 28 \$ —	\$ 28 \$ 1	\$ 30 \$ 2	\$ 26 \$ —	\$ 26 \$ 1	\$ 26 \$ 2	

Accrued liabilities are recorded and presented in the related line items of the Combined balance sheets.

The federal government is subject to loss contingencies for a variety of environmental cleanup costs for the storage and disposal of hazardous material as well as the operations and closures of facilities at which environmental contamination may be present.

Management and legal counsel have determined that it is "probable" that some of these actions will result in a loss to the federal government and the loss amounts are reasonably measurable. The estimated liabilities for these cases are \$28 billion and \$26 billion as of September 30, 2017, and 2016, respectively, and are included in Other liabilities on the Combined balance sheet.

In accordance with the *Nuclear Waste Policy Act of 1982* (NWPA), DOE entered into more than 68 standard contracts with utilities in return for payment of fees established by the NWPA into the Nuclear Waste Fund. DOE agreed to begin disposal of spent nuclear fuel (SNF) by January 31, 1998. Because DOE has no facility available to receive SNF under the NWPA, it has been unable to begin disposal of the utilities' SNF as required by the contracts. Therefore, DOE is subject to SNF litigation for damages suffered by all utilities as a result of the delay in beginning disposal of SNF and also damages

Does not reflect the total range of loss; many cases assessed as reasonably possible of an unfavorable outcome did not include estimated losses that could be determined.

for alleged exposure to radioactive and/or toxic substances. Significant claims for partial breach of contract and a large number of class action and/or multiple plaintiff tort suits have been filed with estimated liability amounts of \$27 billion and \$25 billion as of September 30, 2017, and 2016, respectively.

Other contingencies

DOT, HHS, and Treasury reported the following other contingencies:

- The Federal Highway Administration (FHWA) preauthorizes states to establish construction budgets without having received appropriations from Congress for such projects. FHWA has authority to approve projects using advance construction under 23 U.S.C. 115(a). FHWA does not guarantee the ultimate funding to the states for these "advance construction" projects and does not obligate any funds for these projects. When funding becomes available to FHWA, the states can then apply for reimbursement of costs that they have incurred on such projects, at which time FHWA can accept or reject such requests. FHWA has pre-authorized \$55 billion and \$51 billion to the states to establish budgets for its construction projects for fiscal years ending September 30, 2017, and 2016, respectively. Congress has not provided appropriations for these projects and no liability is accrued in the DOT consolidated financial statements.
- Contingent liabilities have been accrued as a result of Medicaid audit and program disallowances that are currently being appealed by the states and for reimbursement of state plan amendments. The Medicaid amounts are \$12 billion and \$10 billion for fiscal years ending September 30, 2017, and 2016, respectively. In all cases, the funds have been returned to HHS. If the appeals are decided in favor of the states, HHS will be required to pay these amounts. In addition, certain amounts for payment have been deferred under the Medicaid program when there is reasonable doubt as to the legitimacy of expenditures claimed by a state. There are also outstanding reviews of the state expenditures in which a final determination has not been made.
- Through an annual process, Treasury assesses the need for an estimated contingent liability that reflects the forecasted equity deficits of the GSEs. Based on this assessment, no accrued contingent liability was recorded for fiscal years 2017 and 2016. However, the reduction in US corporate tax rate resulting from the enactment of the Tax Cuts and Jobs Act on December 22, 2017, required that each of Fannie Mae and Freddie Mac record a reduction in the value of their deferred tax assets in the quarter in which the legislation was enacted, impacting potential future funding draws. The funding draws and the associated amounts are expected to be realized in March 2018. See *Note 8 Investments in government-sponsored enterprises* for further information.

Treaties

The US Government is a party to treaties and other international agreements. These treaties and other international agreements address various issues including, but not limited to, trade, commerce, security, and law enforcement that may involve financial obligations or give rise to possible exposure to losses. Treaties and other international agreements fall into three broad categories: (1) no commitment to spend money; (2) commitment to spend money; or (3) potential obligation to spend money. A review must be conducted of potential contingent liabilities arising from litigation related to treaties and other international agreements. This review, along with any resulting relevant information, is captured and reported in the annual legal representation letter process. Refer to the Legal Contingencies section of this note for further information. It has been confirmed that the relevant financial obligations are included in the applicable financial statements and notes for the commitment to spend money and the potential obligation to spend money categories. The final category of no commitment to spend money will continue to be analyzed to confirm that all material financial obligations or possible loss exposures are properly reported in the Financial Report.

State and local government

Based on our review of specific state Comprehensive Annual Financial Reports, we know that the state governments do have contingencies, however, the Federal Reserve does not provide information on the balances, and we are not aware of another aggregated source of this data.

Note 19 – Commitments

(In billions)	2017	2016
Federal	\$ 1,681	\$ 1,561
State and local		
Total commitments	\$ 1,681	\$ 1,561

Federal government

The federal government has entered into contractual commitments that require future use of financial resources. It has significant amounts of long-term lease obligations and undelivered orders. Undelivered orders represent the value of goods and services ordered that have not yet been received.

Long-term operating leases

(In billions)	2017	2016
General Services Administration	\$ 22	\$ 23
US Postal Service	8	7
Other operating leases	7	8
Total long-term operating leases	\$ 37	\$ 38

Undelivered orders and other commitments and risks

(In billions)	2017	2016
Undelivered Orders		
Department of Defense	\$ 264	\$ 240
Defense Security Cooperation Agency	141	130
Department of Education	128	123
Department of Transportation	104	106
Department of Health and Human Services	114	96
Department of Agriculture	62	52
All other agencies	265	225
Total undelivered orders	\$ 1,078	\$ 972
Other Commitments		
GSE Senior Preferred Stock Purchase Agreement	\$ 258	\$ 258
US Participation in the International Monetary Fund	157	155
Callable Capital Subscriptions for Multilateral Development Banks	121	120
All other commitments	30	18
Total other commitments	\$ 566	\$ 551

The federal government has other commitments that may require future use of financial resources. For example, the federal government has callable subscriptions in certain Multilateral Development Banks (MDBs), which are international financial institutions that finance economic and social development projects in developing countries. Callable capital in the MDBs serves as a supplemental pool of resources that may be redeemed and converted into ordinary paid in shares, if the MDB cannot otherwise meet certain obligations through its other available resources. MDBs are able to use callable capital as backing to obtain favorable financing terms when borrowing from international capital markets. To date, there has never been a call on this capital at any MDBs and none is anticipated.

Undelivered orders

DOD reported undelivered orders of \$264 billion and \$240 billion as of September 30, 2017, and 2016, respectively. The increase of \$24 billion in fiscal year 2017 was primarily caused by increased estimates in non-federal undelivered orders.

Commitments to GSEs

At September 30, 2017 and 2016, the maximum remaining potential commitment to the GSEs for the remaining life of the SPSPAs was \$258 billion, which was established on December 31, 2012. Refer to *Note 8 – Investments in government-sponsored enterprises* for a full description of the SPSPAs related commitments and contingent liability, if any, as well as additional information.

Terrorism risk insurance program

Congress originally enacted the *Terrorism Risk Insurance Act* (TRIA) in November 2002 to address market disruptions resulting from terrorist attacks on September 11, 2001. Most recently, the *Terrorism Risk Insurance Program Reauthorization Act of 2015* extended the Terrorism Risk Insurance Program (TRIP) until December 31, 2020. The TRIP helps to ensure available and affordable commercial property and casualty insurance for terrorism risk, and simultaneously allows private markets to stabilize. The authority to pay claims under the TRIP Program is activated when the Secretary of the Treasury (in consultation with the Secretary of the US Department of Homeland Security and the US Attorney General) certifies an "act of terrorism." In the event of certification of an "act of terrorism" insurers may be eligible to receive reimbursement from the US government for associated insured losses assuming an aggregate insured loss threshold ("program trigger") has been reached once a particular insurer has satisfied its designated deductible amount. For calendar years 2016 and 2015, the program trigger amount was \$120 million and \$100 million, respectively. This amount will increase by \$20 million annually through calendar year 2020. Insured losses above insurer deductibles will be shared between insurance companies and the US government. The TRIP includes both mandatory and discretionary authority for the Department of the Treasury to recoup federal payments made under the TRIP through policyholder surcharges under certain circumstances, and contains provisions designed to manage litigation arising from or relating to a certified act of terrorism. There were no claims under the TRIP as of September 30, 2017 or 2016.

Social insurance commitments

The largest outlays of the federal government are for the various social insurance programs (e.g. Social Security and Medicare) and grants to the states for Medicaid. The federal government records liabilities for social insurance programs when payments are due and payable to beneficiaries or service providers. These liabilities do not encompass total expected future expenditures.

The Treasury, in its *Financial Report*, provides Statements of Social Insurance (SOSI). The SOSI provide estimates of the potential future obligations for the most significant social insurance programs – Social Security, Medicare, Railroad Retirement, and Black Lung. The estimates represent the actuarial present values of the projected future net expenditures for the programs, generally based on continuation of then-current program provisions and economic and demographic assumptions from the respective programs' trustees over the following 75 years. For some supplemental information on potential future social insurance program obligations, see Exhibits 99.06 and 99.07 of this report. For more information on social insurance commitments, see the *Financial Report*.

State and local government

Based on our review of specific state Comprehensive Annual Financial Reports, we know that the state governments do have commitments, however, the Federal Reserve does not provide information on the balances, and we are not aware of another aggregated source for this data.

Note 20 – Funds from dedicated collections

(In billions)		2017		2016
Federal Federal	\$	3,420	\$	3,374
State and local	_		_	
Total funds from dedicated collections	\$	3,420	\$	3,374

Federal government

(In billions)	Surv	e and vivors rance	Hos Insur Trust I (Medi	Fund	Fed Disal Insur Trust I	ance	Suppleme	edical Trust licare	All C Funds Dedic Collect	ated	Dec Coll	Funds from dicated ections bined)
2017												
Assets												
Cash and other monetary assets Fund balance with Treasury	\$	_	\$	_ 1	\$	_	\$	 28	\$	65 139	\$	65 168
Investments in Treasury securities, net of unamortized premiums/discounts		2,820		198		70		71		272		3,431
Other federal assets		20		37		_		35		18		110
Non-federal assets		3	_	12	_	5		39	_	112	_	171
Total assets	\$	2,843	\$	248	\$	75	\$	173	\$	606	\$	3,945
Liabilities and net position												
Due and payable to beneficiaries Other federal liabilities	\$	71 5	\$	30 39	\$	27 1	\$	31 43	\$	15 73	\$	174 161
Other non-federal liabilities		<u> </u>		39 1		1		43 —		188		190
Total liabilities		76		70		29		74	_	276		525
Total net position		2,767		178		46		99		330		3,420
Total liabilities and net position	\$	2,843	\$	248	\$	75	\$	173	\$	606	\$	3,945
Change in net position												
Beginning net position Prior-period adjustment	\$	2,746 —	\$	174 —	\$	21 —	\$	95 —	\$	338	\$	3,374 —
Beginning net position, adjusted		2,746		174		21		95		338		3,374
Investment revenue		84		7		2		2		4		99
Individual income taxes		702		260		166		_		_		1,128
Other taxes and receipts Other changes in fund balance		 29		1 23		(2)		4 278		142		147 328
Total financing sources		815	_	291	_	166	_	284	_	146	_	1,702
Program gross costs and non-program expenses		794	_	291	_	141	_	366	_	205	_	1,797
Less: program revenue		—		(4)		_		(86)		(51)		(141)
Net cost		794		287	_	141		280	_	154	_	1,656
Ending net position	\$	2,767	\$	178	\$	46	\$	99	\$	330	\$	3,420

(In billions)	Federal Old- Age and Survivors Insurance Trust Fund	Federal Hospital Insurance Trust Fund (Medicare Part A)	Federal Disability Insurance Trust Fund	Federal Supplementary Medical Insurance Trust Fund (Medicare Parts B and D)	All Other Funds from Dedicated Collections	Total Funds from Dedicated Collections (Combined)
2016						
Assets						
Cash and other monetary assets	\$ —	\$ —	\$ —	\$ —	\$ 63	\$ 63
Fund balance with Treasury	_	2	_	52	122	176
Investments in Treasury securities, net of unamortized						
premiums/discounts	2,797	192	46	63	277	3,375
Other federal assets	21	36	_	40	16	113
Non-federal assets	3	8	4	22	116	153
Total assets	\$ 2,821	\$ 238	\$ 50	\$ 177	\$ 594	\$ 3,880
Liabilities and net position						
Due and payable to beneficiaries	\$ 69	\$ 28	\$ 29	\$ 36	\$ 11	\$ 173
Other federal liabilities	6	35	_	45	63	149
Other non-federal liabilities	_	1	_	1	182	184
Total liabilities	75	64	29	82	256	506
Total net position	2,746	174	21	95	338	3,374
Total liabilities and net position	\$ 2,821	\$ 238	\$ 50	\$ 177	\$ 594	\$ 3,880
Change in net position						
Beginning net position	\$ 2,720	\$ 171	\$ 18	\$ 76	\$ 263	\$ 3,248
Prior-period adjustment	_	_	_	_	_	_
Beginning net position, adjusted	2,720	171	18	76	263	3,248
Investment revenue	88	8	1	2	3	102
Individual income taxes	680	250	148	_	_	1,078
Other taxes and receipts	_	1	_	3	147	151
Other changes in fund balance	23	21	(2)	303	64	409
Total financing sources	791	280	147	308	214	1,740
Program gross costs and non-program expenses	765	281	144	366	188	1,744
Less: program revenue	_	(4)	_	(77)	(49)	(130)
Net cost	765	277	144	289	139	1,614
Ending net position	\$ 2,746	\$ 174	\$ 21	\$ 95	\$ 338	\$ 3,374

Generally, funds from dedicated collections are financed by specifically identified revenues, often supplemented by other financing sources, provided to the federal government by non-federal sources, which remain available over time. These specifically identified revenues and other financing sources are required by statute to be used for designated activities, benefits, or purposes and must be accounted for separately from the federal government's general revenues. Funds from dedicated collections generally include trust funds, public enterprise revolving funds (not including credit reform financing funds), and special funds. Funds from dedicated collections specifically exclude any fund established to account for pensions, other retirement benefits, other postemployment or other benefits provided for federal employees (civilian and military). In the federal budget, the term "trust fund" means only that the law requires a particular fund be accounted for separately, used only for a specified purpose, and designated as a trust fund. A change in law may change the future receipts and the terms under which the fund's resources are spent. In the private sector, trust fund refers to funds of one party held and managed by a second party (the trustee) in a fiduciary capacity. The activity of funds from dedicated

PART II Item 8

collections differs from fiduciary activities primarily in that assets within funds from dedicated collections are government-owned. For further information related to fiduciary activities, see *Note 21 – Fiduciary activities*.

Public enterprise revolving funds include expenditure accounts authorized by law to be credited with offsetting collections, mostly from the public, that are generated by and dedicated to finance a continuing cycle of business-type operations. Some of the financing for these funds may be from appropriations.

Special funds are federal funds dedicated by law for a specific purpose. Special funds include the special fund receipt account and the special fund expenditure account.

The tables above depict major funds from dedicated collections chosen based on their significant financial activity and importance to taxpayers. All other government funds from dedicated collections not shown separately are aggregated as "all other."

Total assets represent the unexpended balance from all sources of receipts and amounts due to the funds from dedicated collections, regardless of source, including related governmental transactions. These are transactions between two different entities within the federal government (for example, monies received by one entity of the federal government).

The intergovernmental assets are comprised of fund balances with Treasury, investments in Treasury securities – including unamortized amounts, and other assets that include the related accrued interest receivable on federal investments. These amounts were eliminated in preparing the principal financial statements. The non-federal assets represent only the activity with individuals and organizations outside of the federal government.

Most of the assets within funds from dedicated collections are invested in intergovernmental debt holdings. The federal government does not set aside assets to pay future benefits or other expenditures associated with funds from dedicated collections. The cash receipts collected from the public for funds from dedicated collections are deposited in the General Fund, which uses the cash for general government purposes. Treasury securities are issued to federal agencies as evidence of its receipts. Treasury securities are an asset to the federal agencies and a liability to the US Treasury and, therefore, they do not represent an asset or a liability in the *Financial Report*. These securities require redemption if a fund's disbursements exceeds its receipts. Redeeming these securities will increase the federal government's financing needs and require more borrowing from the public (or less repayment of debt), or will result in higher taxes than otherwise would have been needed, or less spending on other programs than otherwise would have occurred, or some combination thereof. See *Note 11 – Debt securities held by the public and accrued interest* for further information related to the investments in federal debt securities.

Depicted below is a description of the major funds from dedicated collections shown in the above tables, which also identifies the federal government agencies that administer each particular fund. For detailed information regarding these funds from dedicated collections, please refer to the financial statements of the corresponding administering agencies. For information on the benefits due and payable liability associated with certain funds from dedicated collections, see *Note 14 – Benefits due and payable*.

Federal Old-Age and Survivors Insurance Trust Fund

The Federal Old-Age and Survivors Insurance (OASI) Trust Fund, administered by the SSA, provides retirement and survivors benefits to qualified workers and their families.

Payroll and self-employment taxes primarily fund the OASI Trust Fund. Interest earnings on Treasury securities, federal agencies' payments for the Social Security benefits earned by military and federal civilian employees, and Treasury payments for a portion of income taxes collected on Social Security benefits provide the fund with additional income. The law establishing the OASI Trust Fund and authorizing the depositing of amounts to the credit of the fund is set forth in 42 U.S.C. § 401.

Federal Hospital Insurance Trust Fund (Medicare Part A)

The Federal Hospital Insurance (HI) Trust Fund, administered by HHS, finances the Hospital Insurance Program (Medicare Part A). This program funds the cost of inpatient hospital and related care for individuals age 65 or older who meet certain insured status requirements, and eligible disabled people.

The HI Trust Fund is financed primarily by payroll taxes, including those paid by federal agencies. It also receives income from interest earnings on Treasury securities, a portion of income taxes collected on Social Security benefits, premiums paid by, or on behalf of, aged uninsured beneficiaries, and receipts from fraud and abuse control activities. Section 1817 of the *Social Security Act* established the Medicare Hospital Trust Fund.

Federal Disability Insurance Trust Fund

The Federal Disability Insurance (DI) Trust Fund provides assistance and protection against the loss of earnings due to a wage earner's disability in form of monetary payments. The SSA administers this fund.

Like the OASI Trust Fund, payroll taxes primarily fund the DI Trust Fund. The fund also receives income from interest earnings on Treasury securities, federal agencies' payments for the Social Security benefits earned by military and federal civilian employees, and Treasury payments for a portion of income taxes collected on Social Security benefits. The law establishing the Federal Disability Insurance Trust Fund and authorizing the depositing of amounts to the credit of the fund is set forth in 42 U.S.C. § 401.

Federal Supplementary Medical Insurance Trust Fund (Medicare Parts B and D)

The Federal Supplementary Medical Insurance (SMI) Trust Fund, administered by HHS, finances the SMI Program (Medicare Part B) and the Medicare Prescription Drug Benefit Program (Medicare Part D). These programs provide supplementary medical insurance for enrolled eligible participants to cover physician and outpatient services not covered by Medicare Part A and to obtain qualified prescription drug coverage, respectively. Medicare Part B financing is not based on payroll taxes; it is primarily based on monthly premiums, income from the General Fund, and Interest earnings on Treasury securities. The Medicare SMI Trust Fund was established by Section 1841 of the *Social Security Act*.

Medicare Part D was created by the *Medicare Modernization Act of 2003* (P.L. No. 108-173). Medicare Part D financing is similar to Part B; it is primarily based on monthly premiums and income from the General Fund, not on payroll taxes. The fund also receives transfers from States.

All other funds from dedicated collections

The federal government is responsible for the management of numerous funds from dedicated collections that serve a wide variety of purposes. The funds from dedicated collections presented on an individual basis in the above tables represent the majority of the federal government's net position attributable to funds from dedicated collections. All other activity attributable to funds from dedicated collections is aggregated in accordance with SFFAS No. 27, *Identifying and Reporting Funds from Dedicated Collections*; as amended by SFFAS No. 43, *Funds from Dedicated Collections: Amending Statement of Federal Financial Accounting Standards 27, Identifying and Reporting Earmarked Funds.* The funds from dedicated collections within the "all other" aggregate, along with the agencies that administer them, include the following:

- Highway Trust Fund and Airport and Airway Trust Fund administered by DOT.
- Unemployment Trust Fund (UTF) and Black Lung Disability Trust Fund (BLDTF) administered by DOL.
- Land and Water Conservation Fund, Reclamation Fund, and Water and Related Resources Fund administered by DOI.
- Exchange Stabilization Fund administered by Treasury.
- National Flood Insurance Program administered by DHS.
- Railroad Retirement Trust Fund administered by RRB.
- Uranium Enrichment Decontamination and Decommissioning Fund administered by DOE.

- Government National Mortgage Association administered by HUD.
- Crime Victims Fund administered by DOJ.
- Harbor Maintenance Trust Fund administered by DOD.

In accordance with SFFAS No. 43, any funds established to account for pension, other retirement, or other postemployment benefits to civilian or military personnel are excluded from the reporting requirements related to funds from dedicated collections.

Other taxes and miscellaneous earned income

Unemployment taxes

The Unemployment Trust Fund (UTF), within the "all other" aggregate, represents all the unemployment tax revenues attributable to funds from dedicated collections shown on the consolidated Statement of Operations and Changes in Net Position.

UTF provides temporary assistance to workers who lose their jobs. The program is administered through a unique system of federal and state partnerships, established in federal law, but executed through conforming state laws by state officials. DOL administers the federal operations of the program.

Employer taxes provide the primary funding source for the UTF and constitute the largest portion of unemployment tax revenues attributable to funds from dedicated collections as shown on the consolidated Statement of Operations and Changes in Net Position. However, interest earnings on Treasury securities also provide income to the fund. For the years ending September 30, 2017, and 2016, UTF unemployment tax revenues were \$44 billion and \$47 billion, respectively. Appropriations have supplemented the fund's income during periods of high and extended unemployment. UTF was established under the authority of Section 904 of the *Social Security Act* of 1935.

Excise taxes

There are 11 funds from dedicated collections within the "all other" aggregate that represent all of the dedicated excise tax revenue attributable to funds from dedicated collections shown on the consolidated Statement of Operations and Changes in Net Position. The Highway Trust Fund and the Airport and Airway Trust Fund, combined, represents 90% of all dedicated excise tax revenues. Both of these funds are administered by the DOT. For more information, please refer to DOT's financial statements.

The Highway Trust Fund was established to promote domestic interstate transportation and to move people and goods. The fund provides federal grants to states for highway construction, certain transit programs, and related transportation purposes. The Highway Trust Fund was created by the *Highway Revenue Act of 1956*. Funding sources include designated excise taxes on gasoline and other fuels, the initial sale of heavy trucks, and highway use by commercial motor vehicles. For both years ending September 30, 2017, and 2016, Highway Trust Fund excise tax revenues were \$41 billion. As funds are needed for payments, the Highway Trust Fund corpus investments are liquidated and funds are transferred to the Federal Highway Administration, the Federal Transit Administration, or other DOT entities, for payment of obligations.

The Airport and Airway Trust Fund provides for airport improvement and airport facilities maintenance. It also funds airport equipment, research, and a portion of the Federal Aviation Administration's administrative operational support. The Airport and Airway Trust Fund was authorized by the *Airport and Airway Revenue Act of 1970*. Funding sources include aviation-related excise tax collections from:

- Passenger tickets,
- Passenger fight segments,
- International arrival/departures,
- Cargo waybills, and
- Aviation fuels.

For the years ending September 30, 2017, and 2016, Airport and Airway Trust Fund excise tax revenues were \$15 billion and \$14 billion, respectively.

Miscellaneous earned revenues

Miscellaneous earned revenues due to activity attributable to funds from dedicated collections primarily related to royalties retained by various funds within DOI.

State and local government

The Federal Reserve does not provide amounts for funds from dedicated collections. We do not know if states have these activities, and if they do, we are not aware of another aggregated source for this data.

Note 21 – Fiduciary activities

(In billions)		2017		2016
Federal	\$	543	\$	482
State and local	_		_	
Total fiduciary net assets	\$	543	\$	482

Federal government

Fiduciary activities are the collection or receipt, and the management, protection, accounting, investment and disposition by the federal government of cash or other assets in which non-federal individuals or entities have an ownership interest that the federal government must uphold. Fiduciary cash and other assets are not assets of the federal government and are not recognized on the consolidated Balance Sheet. Examples of the federal government's fiduciary activities include the Thrift Savings Plan (TSP), which is administered by the Federal Retirement Thrift Investment Board (FRTIB), and the Indian Tribal and individual Indian Trust Funds, which are administered by the DOI.

(In billions)	2017	2016
Thrift Savings Fund	\$ 532	\$ 472
All other	11	10
Total fiduciary net assets	\$ 543	\$ 482

In accordance with the requirements of SFFAS No. 31, *Accounting for Fiduciary Activities*, fiduciary investments in Treasury securities and fund balance with Treasury held by fiduciary funds are to be recognized on the Balance Sheet as debt held by the public and a liability for fiduciary fund balance with Treasury, respectively.

As of September 30, 2017, total fiduciary investments in Treasury securities and in non-Treasury securities are \$224 billion and \$318 billion, respectively. As of September 30, 2016, total fiduciary investments in Treasury securities and in non-Treasury securities were \$226 billion and \$269 billion, respectively. Refer to *Note 11 – Debt securities held by the public and accrued interest* for more information on the Treasury securities.

As of both September 30, 2017, and 2016, the total fiduciary fund balance with Treasury was \$1 billion. A liability for this fiduciary fund balance with Treasury is reflected as other miscellaneous liabilities in *Note 16 – Other liabilities*.

As of September 30, 2017, and 2016, collectively, the fiduciary investments in Treasury securities and fiduciary fund balance with Treasury held by all Government entities represent \$7 billion and \$6 billion, respectively, of unrestricted cash included within cash held by Treasury for Governmentwide Operations shown in *Note 2 – Cash and other monetary assets*.

Thrift Savings Fund

The Thrift Savings Fund (TSF) maintains and holds in trust the assets of the TSP. The TSP is administered by an independent Government agency, the FRTIB, which is charged with operating the TSP prudently and solely in the interest of the participants and their beneficiaries.

The TSP is a retirement savings and investment plan for federal employees and members of the uniformed services. It was authorized by the United States Congress in the *Federal Employees' Retirement System Act of 1986*. The Plan provides federal employees and members of the uniformed services with a savings and tax benefit similar to what many private sector employers offer their employees under 401(k) plans. The Plan was primarily designed to be a key part of the retirement package (along with a basic annuity benefit and Social Security) for employees who are covered by FERS.

Federal employees, who are participants of FERS, the CSRS, or equivalent retirement systems, as provided by statute, and members of the uniformed services, are eligible to join the Plan immediately upon being hired. Generally, FERS employees are those employees hired on or after January 1, 1984, while CSRS employees are employees hired before January 1, 1984, who have not elected to convert to FERS. Each group has different rules that govern contribution rates. As of December 31, 2016, and 2015, there were approximately 5.0 million and 4.8 million participants in the TSP, respectively, with approximately 3.3 for both years contributing their own money. For further information about FRTIB and the TSP, please refer to the FRTIB website at https://www.frtib.gov/.

As of September 30, 2017, and 2016, the TSF held \$532 billion and \$472 billion, respectively, in net assets, which included \$218 billion and \$221 billion, respectively, of US Government Securities (amounts are unaudited). The most recent audited financial statements for the TSF are as of December 31, 2016, and 2015. As of December 31, 2016, and 2015, the TSF held \$483 billion and \$443 billion, respectively, in net assets, which included \$222 billion and \$207 billion, respectively, of US Government Securities. These unaudited amounts above are included to enhance comparability of the TSF net assets with the remainder of the federal government's fiduciary net assets as of September 30, 2017, and 2016.

DOI – Indian trust funds

As stated above, DOI has responsibility for the assets held in trust on behalf of American Indian Tribes and individuals, and these account for all of DOI's fiduciary net assets. DOI maintains accounts for Tribal and Other Trust Funds (including the Alaska Native Escrow Fund and Individual Indian Money Trust Funds) in accordance with the *American Indian Trust Fund Management Reform Act of 1994*. The fiduciary balances that have accumulated in these funds have resulted from land use agreements, royalties on natural resource depletion, other proceeds derived directly from trust resources, judgment awards, settlements of claims, and investment income. These funds are maintained for the benefit of individual Native Americans as well as for designated Indian tribes. DOI maintains separate financial statements for these trust funds which were prepared using the cash or modified cash basis of accounting, a comprehensive basis of accounting other than GAAP. The independent auditors' reports were qualified as it was not practical to extend audit procedures sufficiently to satisfy themselves as to the fairness of the trust fund balances. For further information related to these assets, please refer to the DOI website at https://www.doi.gov/.

All other entities with fiduciary activities

The federal government is responsible for the management of other fiduciary net assets on behalf of various non-federal entities. The component entities presented individually in the table on the previous page represent the vast majority of the federal government's fiduciary net assets. All other component entities with fiduciary net assets are aggregated in accordance with SFFAS No. 31. As of September 30, 2017, and 2016, including TSF and DOI, there are a total of 20 and 20 federal entities, respectively, with fiduciary activities at a grand total of 67 and 68 fiduciary funds, respectively. SBA and LOC are the significant agencies relating to the fiduciary activities of the remaining component entities within the "all other" aggregate balance. As of September 30, 2017, "all other" fiduciary net assets were \$7 billion, compared to \$5 billion as of September 30, 2016.

State and local government

The Federal Reserve does not provide amounts for fiduciary activities. We do not know if states have these activities, and if they do, we are not aware of another aggregated source for this data.

Note 22 - Stewardship land and heritage assets

Federal government

Stewardship land is federally-owned land set aside for the use and enjoyment of present and future generations, and land on which military bases are located. Except for military bases, this land is not used or held for use in general government operations. Stewardship land is land that the federal government does not expect to use to meet its obligations, unlike the assets listed in the Balance Sheets. Stewardship land is measured in non-financial units such as acres of land and lakes, and the number of National Parks and National Marine Sanctuaries. Examples of stewardship land include national parks, national forests, wilderness areas, and land used to enhance ecosystems for the encouragement of animal and plant species, and nature conservation. This category excludes lands administered by the Bureau of Indian Affairs and held in trust.

The majority of public lands that are under the management of DOI were acquired by the federal government during the first century of the Nation's existence between 1781 and 1867.

Stewardship land is used and managed in accordance with the statutes authorizing acquisition or directing use and management. Additional detailed information concerning stewardship land, such as agency stewardship policies, physical units by major categories, and the condition of stewardship land, can be obtained from the financial statements of DOI, DOD, DOE, HHS, TVA, and USDA.

Heritage assets are government-owned assets that have one or more of the following characteristics:

- Historical or natural significance;
- Cultural, educational, or artistic importance; and/or
- Significant architectural characteristics.

The cost of heritage assets often is not determinable or relevant to their significance. Like stewardship land, the federal government does not expect to use these assets to meet its obligations. The most relevant information about heritage assets is non-financial. The public entrusts the federal government with these assets and holds it accountable for their preservation. Examples of heritage assets include the Mount Rushmore National Memorial and Yosemite National Park. Other examples of heritage assets include the Declaration of Independence, the US Constitution, and the Bill of Rights preserved by the National Archives. Also included are national monuments/structures such as the Vietnam Veterans Memorial, the Jefferson Memorial, and the Washington Monument, as well as the Library of Congress. Many other sites such as battlefields, historic structures, and national historic landmarks are placed in this category, as well.

Many laws and regulations govern the preservation and management of heritage assets. Established policies by individual federal agencies for heritage assets ensure the proper care and handling of the assets under their control and preserve these assets for the benefit of the American public.

Some heritage assets are used both to remind us of our heritage and for day-to-day operations. These assets are referred to as multi-use heritage assets. One typical example is the White House. The cost of acquisition, betterment, or reconstruction of all multi-use heritage assets is capitalized as general Property, Plant, and Equipment (PP&E) and is depreciated.

The federal government classifies heritage assets into two broad categories: collection type and non-collection type. Collection type heritage assets include objects gathered and maintained for museum and library collections. Non-collection type heritage assets include national wilderness areas, wild and scenic rivers, natural landmarks, forests, grasslands, historic places and structures, memorials and monuments, buildings, national cemeteries, and archeological sites.

This discussion of the federal government's heritage assets is not exhaustive. Rather, it highlights significant heritage assets reported by federal agencies. Please refer to the individual financial statements of the DOC, VA, DOT, State, DOD, as well as websites for the Library of Congress (http://loc.gov), the Smithsonian Institution (http://si.edu), and the Architect of the

Capitol (http://aoc.gov) for additional information on multi-use heritage assets, agency stewardship policies, and physical units by major categories.

Supplemental data – reported revenue from resource extraction on federal lands

The following data is not from the Financial Report. We are providing this information as even though the federal government reports that it does not expect to use stewardship land to meet its obligations, the land is used to generate revenues for the federal government. The following are revenues generated from federal lands, including those that are stewardship lands, and are included as offsets to expenditures in our combined income statements. These revenues are generated when companies that extract resources on federal land pay bonuses, rents, royalties, fees, taxes, or other revenues to the federal government.

(In billions)	2017	2016	2015
Royalties	\$ 6	\$ 5	\$ 8
Bonus	1	1	1
Other	_	_	1
Total reported revenue	\$ 7	\$ 6	\$ 10

Derived from monthly revenue reports that payors (i.e. companies) submit to the Office of National Resources Revenue to explain their revenue payments. See the data at https://revenuedata.doi.gov/downloads/federal-revenue-by-location/. Includes American Indian, federal offshore, and federal onshore resources.

The Government Accountability Office has identified challenges in the Department of the Interior's (DOI) management of oil and gas on leased federal lands and waters, finding that the DOI lacked reasonable assurance that it was collecting its share of revenue from oil and gas produced on federal lands and waters.⁵⁴

State and local government

The Federal Reserve does not provide amounts for stewardship land and heritage assets at the state and local government level. We do not know if states have these assets, and if they do, we are not aware of another aggregated source for this data.

Note 23 – Intergovernmental transfers

We eliminated certain intergovernmental transfers between agencies, departments, or funds within and between the federal government and state and local governments when we prepared the combined financial statements. Intergovernmental activity we eliminated is shown below.

Federal grant and non-grant assistance to territories and state and local governments

(In billions)	2017	2016
Medicaid and CHIP	\$ 391	\$ 383
Other non-cash programs for aid to the disadvantaged	80	77
Transportation	65	64
Elementary and secondary education	37	36
Other grants	102	101
Grants per the federal government	675	661
Federal non-grant assistance to territories and state and local governments	4	4
Total federal grant and non-grant assistance per the federal government	679	665
Difference between federal and state and local reporting of transfers	25	22
Total federal grant and non-grant assistance per state and local governments	\$ 704	\$ 687

Federal debt securities held as investments by government accounts

Federal accounts

(In billions)	Balance 2016	Net Change during Fiscal Year 2017	Balance 2017
Social Security Administration, Federal Old-Age and Survivors Insurance Trust Fund	\$ 2,797	\$ 24	\$ 2,821
Office of Personnel Management, Civil Service Retirement and Disability Fund	887	18	905
Department of Defense, Military Retirement Fund	591	70	661
All other programs and funds	1,125	60	1,185
Subtotal	5,400	172	5,572
Total net unamortized premiums/(discounts) for intergovernmental	72	(1)	71
Total intergovernmental debt holdings, net	\$ 5,472	\$ 171	\$ 5,643

Intergovernmental debt holdings represent the portion of the gross federal debt held as investments by federal government entities such as trust funds, revolving funds, and special funds. As noted in *Note 11 – Debt securities held by the public and accrued interest*, the delay in raising the debt limit still existed as of September 30, 2015. On November 2, 2015 Congress enacted the Bipartisan Budget Act of 2015 (P.L. No. 114-74) which temporarily suspended the debt limit through March 15, 2017. Treasury subsequently restored uninvested principal and related interest, resulting in an increase to the Civil Service Retirement and Disability Fund from 2015 to 2016.

Federal government entities that held investments in Treasury securities include trust funds that have funds from dedicated collections. For more information on funds from dedicated collections, see *Note 20 – Funds from dedicated collections*. These intergovernmental debt holdings are eliminated in the consolidation of the federal financial statements in the Financial Report.

State accounts

(In billions)	2017	2016
Treasury securities – non-pension	\$ 736 \$	710
Treasury securities – pension	263	185
Loans from the federal government	(18)	(17)
Net federal assets held by state and local governments	\$ 981 \$	878

Federal assets and liabilities held by state and local governments, as shown in the table above, were included in our Federal Reserve source data for state and local governments. In preparing combined balance sheets for our Government, we eliminated these intergovernmental holdings, both in the combined balance sheets and in the accompanying footnotes.

Note 24 – Offsetting amounts

Within our income statements, we have offset certain amounts and reported them as either net revenues or expenditures rather than showing the gross revenues and expenditures. Key offsetting amounts are shown in the table below.

		20^					
(In billions)	Revenues	Expenditures	Net	Revenues	Expenditures	Net	
Employee retirement and disability	\$ 144	\$ 485	\$ 341	\$ 138	\$ 472	\$ 334	
Higher education	119	297	178	113	288	175	
Transit systems	17	74	57	17	69	52	
Public hospitals	161	173	12	151	162	11	
Sewerage and waste management	76	82	6	73	80	7	
Tennessee Valley Authority	46	46	_	45	45	_	
Water utilities	65	63	(2)	62	62	_	
US Postal Service	69	67	(2)	71	70	(1)	
Gas and electric utilities	86	77	(9)	86	77	(9)	
Other key offsetting amounts	131	108	(23)	133	98	(35)	
Total offsetting amounts	\$ 914	\$ 1,472	\$ 558	\$ 889	\$ 1,423	\$ 534	

See descriptions of our Government-run business that are presented above (e.g. Tennessee Valley Authority) at Exhibit 99.04.

Note 25 – Subsequent event

At the time of the filing of this 10-K, the US is in the acceleration phase of a worldwide pandemic of a respiratory disease, COVID-19, which is spreading from person-to-person caused by a novel (new) coronavirus. Reported illnesses have ranged from very mild (including some with no reported symptoms) to severe, including illness resulting in death. At this time, there is no vaccine to protect against COVID-19 and no medications approved to treat it. As such, the Centers for Disease Control (CDC) expects that widespread transmission of COVID-19 in the US will occur; in the coming months, most of the US population will be exposed to this virus.

Widespread transmission of COVID-19 could translate into large numbers of people needing medical care at the same time. Schools, childcare centers, and workplaces may experience more absenteeism. Unemployment insurance claims reached more than 10 million for the two weeks preceding March 28, 2020, compared to 217,000 for the week of March 14, 2020. Mass gatherings may be sparsely attended or postponed. Public health and healthcare systems may become overloaded, with elevated rates of hospitalizations and deaths. Other critical infrastructure, such as law enforcement, emergency medical services, and sectors of the transportation industry may also be affected. Healthcare providers and hospitals may be overwhelmed. Our Government has issued directives intended to slow the spread of COVID-19 through the implementation of social distancing at all levels of society.

This pandemic, as well as our responses to it, may have a significant negative impact on the health and well-being of the US population, as well as on the US economy, at least in the short-term. Certain assets disclosed in this report may become impaired and liabilities may increase. It is too early for us to be able to estimate the impact of the pandemic on our Government's financial statements.

Item 9A. Controls and Procedures

We are documenting the processes and related controls we use to obtain, store, and present our Government's revenue, expenditures, and metrics data. Once the documentation is complete, we intend to engage a public accounting firm to opine on our assertion that the processes and controls are suitably designed and operate effectively to completely and accurately obtain and publish our data set.

Part III

Item 10. Executive Officers and Governance

Executive officers

A list of key executive officers and biographical information appears in *Part I, Item 1. Purpose and Function of Our Government* within this annual report.

Governance

Federal government

All federal government employees are required to act in accordance with the general *Code of Ethics for Government Service*, codified as P.L. 96-303.

Legislative

The ethical conduct of the elected members of Congress is prescribed by either the *House Ethics Manual or the Senate Ethics Manual*, as applicable.

Executive

The Executive Order on Ethics Commitments by Executive Branch Personnel lays out rules on how executive branch appointees are to conduct themselves and requires every appointee in every executive agency to sign an ethics pledge (the Pledge). The Executive Order allows for a waiver when the literal application of the Pledge does not make sense or is not in the public interest. Granted waivers are posted online at https://www.whitehouse.gov/disclosures/.

Judicial

Federal judges must abide by the *Code of Conduct for United States Judges*, a set of ethical principles and guidelines adopted by the Judicial Conference of the United States. The Code of Conduct provides guidance for judges on issues of judicial integrity and independence, judicial diligence and impartiality, permissible extra-judicial activities, and the avoidance of impropriety or even its appearance. Judges may not hear cases in which they have either personal knowledge of the disputed facts, a personal bias concerning a party to the case, earlier involvement in the case as a lawyer, or a financial interest in any party or subject matter of the case.

Employees of the federal Judiciary are expected to comply with the *Code of Conduct for Judicial Employees*, including observing high standards of conduct so that the integrity and independence of the Judiciary are preserved, and the judicial employee's office reflects a devotion to serving the public.

State and local government

State and local governments have their own codes of ethics for employees to follow, which are too numerous to outline here.

Item 11. Executive Officer Compensation

The total 2019 salaries for the individuals listed below was \$9.1 million.

Federal

For 2019, the key federal officers were paid the following annual salaries:

Donald Trump – President	\$ 400,000
John Roberts – Chief Justice	270,700
Mike Pence – Vice President	246,900
Nancy Pelosi – Speaker of the House	223,500
Steny Hoyer – House Majority leader	193,400
Kevin McCarthy – House Minority Leader	193,400
Mitch McConnell – Senate Majority Leader	193,400
Charles Schumer – Senate Minority Leader	193,400
Total key federal officer salary	\$ 1,914,700

Information on the highest paid federal officers is not readily available.

State

Salaries for governors vary widely, as shown in the table below:

Governors' Annual Salaries	2019	% of National Average	% Change from 2018	Governors' Annual Salaries	2019	% of National Average	% Change from 2018
50-state average	\$ 143,270	na	2.4%	Missouri	\$ 133,821	93%	-%
50-state total	\$ 7,163,516	na	2.4%	Montana	\$ 115,505	81%	—%
Alabama	\$ 120,395	84%	—%	Nebraska	\$ 105,000	73%	—%
Alaska	\$ 145,000	101%	—%	Nevada ³	\$ _	104%	—%
Arizona	\$ 95,000	66%	—%	New Hampshire	\$ 134,581	94%	5.6%
Arkansas	\$ 148,134	103%	3.0%	New Jersey	\$ 175,000	122%	—%
California	\$ 201,680	141%	3.0%	New Mexico	\$ 110,000	77%	—%
Colorado	\$ 90,000	63%	—%	New York	\$ 200,000	140%	11.7%
Connecticut 1	\$ _	105%	—%	North Carolina	\$ 144,349	101%	—%
Delaware	\$ 171,000	119%	—%	North Dakota ⁴	\$ _	90%	—%
Florida	\$ 130,273	91%	—%	Ohio	\$ 153,650	107%	3.2%
Georgia	\$ 175,000	122%	25.6%	Oklahoma	\$ 147,000	103%	—%
Hawaii	\$ 158,700	111%	2.0%	Oregon	\$ 98,600	69%	—%
Idaho	\$ 138,302	97%	11.1%	Pennsylvania	\$ 194,850	136%	—%
Illinois ²	\$ _	124%	—%	Rhode Island	\$ 145,755	102%	4.3%
Indiana	\$ 121,331	85%	0.1%	South Carolina	\$ 106,078	74%	—%
lowa	\$ 130,000	91%	—%	South Dakota	\$ 113,961	80%	1.6%
Kansas	\$ 99,636	70%	—%	Tennessee	\$ 194,112	135%	2.1%
Kentucky	\$ 148,781	104%	1.9%	Texas	\$ 153,750	107%	—%
Louisiana	\$ 130,000	91%	—%	Utah	\$ 150,000	105%	—%
Maine	\$ 70,000	49%	—%	Vermont	\$ 178,274	124%	7.4%
Maryland	\$ 170,000	119%	—%	Virginia	\$ 175,000	122%	—%
Massachusetts	\$ 185,000	129%	21.9%	Washington	\$ 183,072	128%	4.4%
Michigan	\$ 159,300	111%	—%	West Virginia	\$ 150,000	105%	—%
Minnesota	\$ 127,629	89%	—%	Wisconsin	\$ 152,756	107%	4.1%
Mississippi	\$ 122,160	85%	—%	Wyoming	\$ 105,000	73%	—%

Source: Council of State Governments, Book of the States 2019, Chapter 4: State Executive Branch, Table 4.3.

na An "na" reference in the table means the data is not available.

Connecticut - Gov. Lamont will forego his salary of \$150,000.

Illinois - Gov. Pritzker will not take his salary of \$177,412.

Nevada - Gov. Sisolak pledged to donate his salary to K-12 schools all four years of his term.

North Dakota - Gov. Burgum has declined his salary of \$129,096.

Item 13. Certain Relationships and Related Transactions, and Director Independence

Following are reported contributions to political candidates:

(In millions)	2008	2010	2012	2014	2016	2018
To Presidential Candidates	\$ 1,551	na	\$ 1,380	na	\$ 1,540	na
General election candidates:						
Democrat	748	na	738	na	586	na
Republican	220	na	483	na	351	na
Other	_	na	4	na	25	na
Primary candidates of all parties	583	na	154	na	578	na
To House Candidates	\$ 983	\$ 1,103	\$ 1,137	\$ 1,034	\$ 1,050	\$ 1,741
Democrat	537	510	487	446	476	1,035
Republican	435	588	633	584	559	693
Other	11	5	17	4	14	13
To Senate Candidates	\$ 434	\$ 757	\$ 742	\$ 635	\$ 595	\$ 1,033
Democrat	237	315	308	300	313	571
Republican	196	427	416	328	279	431
Other	1	15	18	8	2	31
Total Contributions	\$ 2,968	\$ 1,860	\$ 3,259	\$ 1,669	\$ 3,184	\$ 2,774

^{*} Source: Federal Election Commission (FEC). These data only show contributions that candidates and their committees must report to the FEC. The data do not, therefore, include contributions to SuperPACs or 501(c)(4) groups that are not directly to the candidate.

Part IV

Item 15. Exhibits

			Incorporated by Reference						
Exhibit Number	Exhibit Description	Filed Herewith	Form	Period Ended	Exhibit	Publish Date			
99.01	Government sources	Х							
99.02	Reserved								
99.03	Cash and accrual bases of accounting	Χ							
99.04	Government-run businesses	Χ							
99.05	Composition of segment expenditures	Χ							
99.06	Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability	X							
	Insurance Trust Funds (the Trustees) projections of OASDI trust fund solvency								
99.07	The Boards of Trustees of the Federal Hospital Insurance and Federal Supplementary	Χ							
	Medical Insurance Trust Funds projections of Medicare trust funds solvency								
99.08	Cohort table creation	Χ							
99.09	Other similar projects	Χ							
99.10	Excluded Form 10-K content	Χ							
99.11	Data reliability considerations	Χ							
99.12	Data comparability considerations	Χ							
99.13	Modification of data	Χ							
101.INS *	XBRL Instance Document								
101.SCH **	XBRL Taxonomy Extension Schema Document								
101.CAL **	XBRL Taxonomy Extension Calculation Linkbase Document								
101.LAB **	XBRL Taxonomy Extension Label Linkbase Document								
101.PRE **	XBRL Taxonomy Extension Presentation Linkbase Document								
101.DEF **	XBRL Taxonomy Extension Definition Linkbase Document								
104 *	Cover Page Interactive Data File								

^{*} The XBRL Instance Document and Cover Page Interactive Data File do not appear in the Interactive Data File because their XBRL tags are imbedded within the Inline XBRL document.

na An "na" reference in the table means the data is not available.

^{**} Submitted electronically herewith.

Endnotes

- Much of the information in this section was derived from https://www.whitehouse.gov/about-the-white-house/state-local-government/.

 Much of the information in this section was derived from https://www.whitehouse.gov/about-the-white-house/state-local-government/.

 Much of the information in this section was derived from https://www.census.gov/programs-surveys/gus/technical-documentation/methodology/population-of-buth-the-white-house/state-local-government/">https://www.census.gov/programs-surveys/gus/technical-documentation/methodology/population-of-buth-the-white-house/state-local-government/.
- Much of the information in this section was derived from https://www.irs.gov/.
- https://www.federalreserve.gov/aboutthefed/section7.htm
 Individual Income Tax Provisions in the States, Informational Paper 4 by the Wisconsin Legislative Fiscal Bureau, January 2019, found at
- http://docs.legis.wisconsin.gov/misc/lfb/informational_papers/january_2019/0004_individual_income_tax_provisions_in_the_states_informational_paper_4.pdf Government of the District of Columbia, 2018 Tax Rates and Tax Burdens in the District of Columbia: A Nationwide Comparison,
- https://cfo.dc.gov/sites/default/files/dc/sites/ocfo/publication/attachments/2018%20Nationwide%20Tax%20Burden%20Study%20033120.pdf, p24
 Budget process information in this section comes primarily from Budget Process in the States by the National Association of State Budget Officers, 2015 version, found at
- https://www.nasbo.org/reports-data/budget-processes-in-the-states.
- The majority of the information in this section is derived from https://www.federalreserve.gov/aboutthefed/structure-federal-reserve-system.htm. The Federal Reserve
- balance sheets were sourced from https://www.federalreserve.gov/releases/z1/default.htm.

 Most of the information in this section was derived from the Federal Home Loan Banks Combined Financial Report for the Year Ended December 31, 2018, found at http://www.fhlb-of.com/ofweb_userWeb/pageBuilder/fhlbank-financial-data-
- 10 The majority of the information in this section was derived from Fannie Mae's 2017 Annual Report on Form 10-K, found at
- https://www.sec.gov/Archives/edgar/data/310522/000031052218000107/fanniemae201710k.htm.

 The majority of the information in this section was derived from Freddie Mac's 2017 Annual Report on Form 10-K, found at https://www.sec.gov/Archives/edgar/data/1026214/000102621418000020/a20174q10k.htm.

 The majority of the information in this section was derived from the FHFA website https://www.fhfa.gov/.
- 12
- 13 The majority of the information in this section was derived from the Farm Credit System website https://www.farmcreditnetwork.com/about/overview.
- 14 The majority of the information in this section was derived from Farmer Mac's 2019 Annual Report on Form 10-K, found at
- https://www.sec.gov/ix/doc=/Archives/edgar/data/845877/000084587720000029/agm-20191231.htm.

 The majority of the information in this section was derived from the following Social Security Administration publications: https://www.ssa.gov/pubs/EN-05-10029.pdf, https://www.ssa.gov/pubs/EN-05-10085.pdf, https://www.ssa.gov/pubs/EN-05-10085.pdf.

 The majority of the information in this section was derived from the Social Security Administration's website https://www.ssa.gov/oact/progdata/taxRates.html.
- 17 The majority of the information in this section was derived from https://www.medicare.gov/.
- 18 Centers for Medicare and Medicaid Services publication 2013 Health and Health Care of the Medicare Population, found at https://www.cms.gov/Research-Statistics-Dataand-Systems/Research/MCBS/Data-Tables-Items/2013HHC.html?DLPage=1&DLEntries=10&DLSort=0&DLSortDir=descending
 The majority of the information in this section was derived from https://www.medicaid.gov/medicaid/eligibility/index.html.
 The majority of the information in this section was derived from https://www.fns.usda.gov/snap/eligibility.
- 20
- 21 The majority of the information in this section was derived from https://oui.doleta.gov/unemploy/uifactsheet.asp.
- 22 https://www.irs.gov/pub/irs-pdf/i940.pdf, page 6
- The information in this paragraph was derived from the Department of Labor's State Unemployment Insurance Trust Fund Solvency Report 2019, found at
- 24
- https://oui.doleta.gov/unemploy/docs/trustFundSolvReport2019.pdf.
 The majority of the information in this section was derived from https://www.irs.gov/credits-deductions/individuals/earned-income-tax-credit.
 The majority of this information in this section was derived from https://www.irs.gov/affordable-care-act/individuals-and-families/the-premium-tax-credit-the-basics-0. 25
- 26 The majority of the information in this section was derived from https://www.ssa.gov/ssi/text-understanding-ssi.htm.
- 27 The majority of the information in this section was derived from https://studentaid.ed.gov/sa/
- 29
- The majority of the information in this section was derived from https://www.acf.hhs.gov/ofa/programs/tanf.

 The majority of the information in this section comes from National Governors Association, including https://www.nga.org/consulting/powers-and-authority/ and https://www.nga.org/cms/governors/.
- https://www.bls.gov/cps/tables.htm, table 42
- Certain of the risks outlined in these Risk Factors were derived from the Government Accountability Report to Congressional Committees, High Risk Series, *Progress on Substantial Efforts Needed to Achieve Greater Progress on High-Risk Areas*, March 2019, found at https://www.gao.gov/highrisk/overview. 31
- Information in this section was derived from https://www.gao.gov/key issues/disaster_assistance1/issue_summary. 33
- 34 Information in this section was derived from https://www.bia.gov.
- 35
- Information in this section was derived from https://www.acq.osd.mil/eie/Downloads/BSI/Base%20Structure%20Report%20FY17.pdf. 36
- The majority of the individual and corporate income and tax data in this section was derived from the Internal Revenue Service Statistics of Income Division, found at https://www.irs.gov/uac/soi-tax-statis-itstics-of-income. See also Exhibit 99.13 for a discussion of our income and rate analysis.

 Tax Rates and Tax Burdens in the District of Columbia - A Nationwide Comparison 2017,

 https://cfo.dc.gov/sites/default/files/dc/sites/ocfo/publication/attachments/Tax%20Rates%20and%20Tax%20Burdens%202017_A%20Nationwide%20Comparison.pdf.

 The source noted in endnote 37 utilizes the largest city in each state in its analysis, and the largest city in South Carolina and Tennessee changed between the periods 37
- 38 presented, therefore these states were removed from the analysis.
- 39
- 41
- Retirement fund balance data is from https://www.census.gov/data/tables/2017/econ/aspp/aspp-historical-tables.html.
 Information obtained from https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=MGFUPUS1&f=A.
 National Association of Insurance Commissioners, State Insurance Regulation: Key Facts and Market Trends, found at https://www.naic.org/state_report_cards/ report card us.pdf
- Most of the data in this section can be found, with sources noted, on our website https://usafacts.org. Data that is not yet there will be provided in the near future.
- 43 The annual per enrollee spending excludes disproportionate share hospital payments outlays, territorial enrollees and costs, adjustments, and administration costs, from 2017 Actuarial Report on the Financial Outlook for Medicaid found at https://www.cms.gov/Research-Statistics-Data-and-Systems/Research/ActuarialStudies/Downloads/ <u> Medicaid Report 2017. pdf</u>
- Medical commodities includes prescription drugs, nonprescription over-the-counter drugs, and other medical equipment and supplies, found at https://www.bls.gov/cpi/factsheets/medical-care.htm.
- https://www.bls.gov/cpi/factsheets/medical-care.htm.
 Data is limited to billion-dollar disasters as provided by National Oceanic and Atmospheric Administration, as they account for roughly 80% of the total estimated US losses for all combined severe weather and climate events. These loss estimates reflect direct effects of weather and climate events (not including indirect effects) and constitute total estimated losses (both insured and uninsured). Because most of the data sources provide only insured losses, a "factor approach" (based on approximate average insurance participate rates) is used for conversion into the corresponding total estimated losses. For more detailed information regarding the cost estimates see https://www.ncdc.noaa.gov/monitoring-content/billions/docs/smith-and-katz-2013.pdf.

 Foreign Aid: An Introduction to U.S. Programs and Policy, by the Congressional Research Service, April 16, 2019, found at https://fas.org/spg/crs/row/R40213.pdf.

 It is program and to light to light the Congressional Research Service, April 16, 2019, found at https://fas.org/spg/crs/row/R40213.pdf.

 It is program and the longer story of the congressional Research Service, April 16, 2019, found at https://fas.org/spg/crs/row/R40213.pdf. 45
- 47
- U.S. Foreign Aid to Israel, by the Congressional Research Service, August 7, 2019, found at https://fas.org/sgp/crs/mideast/RL33222.pdf. Chetty, Raj, et al., Race and Economic Opportunity in the United States: An Intergenerational Perspective, working Paper (March 2018), https://en.org/sgp/crs/mideast/RL33222.pdf. 48
- The majority of the information in this section comes from our financial statements and footnotes. See Part II, Item 8. Financial Statements and Supplementary Data.
- The majority of the information in this section was derived from the Financial Stability Oversight Council 2017 Annual Report, found at https://www.treasury.gov <u>/fsoc/studies-reports/Documents/FSOC</u>
- Obtained from Bloomberg, accessed on March 2, 2020.
- Treasury has not provided sufficient data to enable us to restate these figures.

- Restated by USAFacts to correspond to restatements made by Treasury in the tables. https://www.gao.gov/key_issues/oil_and_natural_gas/issue_summary?from=agencies.

 To create federal fiscal year (October 1 to September 30) data, we used a formula of 25% of the prior calendar year figure plus 75% of the current calendar year figure. All
- the figures in the MD&A that were converted from calendar year to federal fiscal year in this manner are indicated by * (one asterisk).

 To create state and local fiscal year (July 1 to June 30) data, we used a formula of 50% of the prior calendar year figure plus 50% of the current calendar year figure. All the figures in the MD&A that were converted from calendar year to state and local fiscal year in this manner are indicated by ** (two asterisks).

Sources of data

Financial statement and related data

Our primary financial statement (and related footnote and MD&A) data came from the following sources:

- Federal income statements federal government budget figures prepared on a cash basis (budgeted inflows and outflows) by the US Treasury Department (Treasury) and the Office of Management and Budget (OMB), supplemented in the functional income statement in one case (wages and salaries) by data from the Bureau of Economic Analysis (BEA) (see Modification of data in Exhibit 99.13).
- State and local income statements actual historical figures prepared on a cash or accrual basis at the election of the state and local government preparer and compiled by the US Census Bureau (the Census Bureau), as reported by state and local governments through the Census of Governments.
- Federal balance sheets data prepared by the Treasury, largely on an accrual basis, and audited by the Government Accountability Office (GAO), as provided through the Financial Report of the United States Government (the Financial Report).
- State and local balance sheets data prepared by the Federal Reserve and the BEA.

See Exhibit 99.03 for information on different accounting bases.

This financial statements and related data, unless otherwise noted, are on a fiscal year basis. This means they represent:

- Income statements data for the annual period from October 1 to September 30, for federal government and from July 1 to June 30, generally, for state and local governments; and
- Balance sheets data as of one day, September 30 for the federal government and June 30 for state and local governments.

See https://usafacts.org/methodology on our website for more information on the creation of our income statements. See Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements within this report for more information on the creation of our balance sheets.

Other data

We sourced the other data in this report from the government entities listed in the tables below. Some of these data have been audited by the GAO, a state auditor's office, or an independent public accounting firm, while some is unaudited. We relied on non-governmental data only for investment market prices and on governmental data obtained indirectly from a non-governmental source for just one data set – the economic mobility data in *Part II, Item 7. Management's Discussion and Analysis, Key metrics by segment, Blessings of Liberty, American Dream.*

Forward-looking statements

This report includes limited estimates, projections, and statements relating to government plans, objectives, and expected operating results that are "forward-looking statements." Such statements may appear throughout this report, including in the following sections: Item 1. Purpose and Function of Our Government, Item 1A. Risk Factors, Item 7. Management's Discussion and Analysis, Item 7A. Quantitative and Qualitative Disclosures About Market Risk, and Item 15. Exhibits. These forward-looking statements generally are identified by the words "believe," "project," "expect," "anticipate," "estimate," "intend," "strategy," "future," "opportunity," "plan," "may," "should," "will," "would," "will be," "will continue," and similar expressions.

The forward-looking statements in this document have primarily been drawn from government sources. We do not attest to the accuracy of these statements and related information, nor do we undertake any obligation to update or revise publicly any forward-looking statements, whether because of new information, future events, or otherwise. We have included our own forward-looking statements in this document in the following limited cases:

- *Item 1A. Risk Factors* include statements authored by us, including forward-looking statements. However, any dollar projections included therein were prepared by government sources, which are cited; and
- We calculated the estimated future federal interest payments shown in the contractual obligations table in *Part II, Item 7. Management's Discussion and Analysis, Financial condition* using the components (outstanding debt and interest rates) from a government source. We have disclosed our calculations in a footnote to the table.

Citations

For data that is contained both in this report and on our website, the respective source is generally cited only on our website and not herein again. The limited additional data that is contained only in this report and not on our website is:

- when sourced from the federal government:
 - cited in this report for convenience of the reader when larger sets of data were used (e.g. the footnotes in Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements);
 - generally, not cited otherwise, as materials created by the federal government are generally part of the
 public domain. If you have questions about sources of federal data and are unable to find them on our
 website, https://usafacts.org/, please contact us using the contact information on our website; and
- when sourced from a state or local government or another source, cited herein.

It should be noted that none of our materials nor our organization are affiliated with, or endorsed by, any of our sources.

Data sourced from our website

The majority of the data included in this report can be found on our website with accompanying citations. The original sources for that data as of the time of the publishing of this report are:

Agency for International Development

Consumer Financial Protection Bureau

Consumer Product Safety Commission

National Electronic Injury Surveillance System

Department of Agriculture

Animal and Plant Health Inspection Service Food and Nutrition Service Food Safety and Inspection Service

Department of Commerce

Bureau of Economic Analysis Census Bureau United States Patent and Trademark Office

Department of Defense

Defense Manpower Data Center

Department of Education

National Center for Education

Department of Energy

Prevention

Energy Information Administration

Department of Health and Human Services

Administration for Children and Families Center for Disease Control and Center for Medicare and Medicaid Services

Food and Drug Administration

Department of Homeland Security

Customs and Border Protection Federal Emergency Management Agency Transportation Security

Administration

Department of Housing and Urban Development

Office of Community Planning and Development

Office of Fair Housing and Equal Opportunity

Office of Policy Development and Research

Department of the Interior

Bureau of Land Management Fish and Wildlife Service National Park Service

Department of Justice

Bureau of Alcohol, Tobacco, Firearms, and Explosives Bureau of Justice Statistics Drug Enforcement Administration Federal Bureau of Investigation

Department of Labor

Bureau of Labor Statistics Employee Benefits Security Administration Mine Safety and Health Administration Occupational Safety and Health

Administration
Wage and Hour Division

Department of State

Department of Transportation

Bureau of Transportation Statistics Federal Highway Administration National Highway Traffic Safety Administration

Department of the Treasury

Internal Revenue Service

Department of Veterans Affairs

Environmental Protection Agency

Equal Employment Opportunity Commission

Federal Deposit Insurance Corporation

Federal Election Commission Federal Reserve and member banks

Federal Trade Commission Freddie Mac

Medicaid and CHIP Payment and Access Commission

National Archives and Records Administration

Federal Register

National Interagency Fire Center

National Labor Relations Board National Science Foundation

National Center for Science and Engineering Statistics

Nuclear Regulatory Commission

Securities and Exchange Commission

Small Business Administration Social Security Administration United States Congress United States Courts

White House

Office of Management and Budget

Office of Personnel Management

The World Bank

Additional data from:

Chetty, Raj, et al. "Race and Economic Opportunity in the United States: An Intergenerational Perspective." Working Paper (March 2018).

Stock indices from Yahoo Finance

Gold price from World Gold Council

Other data sourced for this Form 10-K

Certain data were sourced only for preparation of this report and have not been added to our website. These data sources, beyond those in the list of website sources above, include:

Central Intelligence Agency Congressional Budget Office Congressional Research Service The Council of State Governments

Department of Education

Office of Federal Student Aid

Department of Health and Human Services

Office of the Assistant Secretary for Planning and Evaluation

Department of the Interior

Bureau of Indian Affairs United States Geological Survey

Department of Justice

Office of Juvenile Justice and Delinquency Prevention

Department of Labor

Employment and Training Administration

Department of the Treasury

Bureau of the Fiscal Service

Department of Veterans Affairs

Veteran Benefits Administration

Fannie Mae

The Farm Credit Council

Federal Home Loan Banks
Federal Housing Finance Agency
General Services Administration
Government Accountability
Office

Government of the District of Columbia

National Association of State Budget Officers

National Conference of State Legislatures

National Governors Association Oregon Department of Revenue Pension Benefit Guaranty Corporation United States House of Representatives United States Senate Tennessee Valley Authority USA.gov The Wisconsin Legislative Bureau

Additional data from:

US credit rating – Bloomberg Stock and bond prices – Google Finance, Investing.com, Yahoo Finance

The US Government Accountability Office provides a description of the difference between cash basis accounting and accrual basis accounting. We have reproduced it here. You can find the original text at http://www.gao.gov/assets/80/77222.pdf.

Cash basis of accounting

"The federal government primarily uses the cash basis of accounting for its budget, which is the federal government's primary financial planning and control tool." A primary exception to the general use of cash-basis accounting is the accounting for loan program costs, which are accounted for using the methodology described in "Loan program costs – reestimates" below.

"Because it is similar to keeping a checkbook, the cash basis of accounting... is perhaps the easier of the two bases of accounting to understand. The cash basis focus is on cash receipts, cash disbursements, and the difference between the two amounts. With relatively few exceptions, receipts are recorded when cash is received, and outlays are recorded when cash is disbursed. The difference between cash receipts and cash outlays at the end of the fiscal year is reported as the annual budget surplus or budget deficit."

Accrual basis of accounting

"Accrual accounting, also used in the private sector, is generally the basis used to prepare the *Statement of Net Cost*, *Statement of Operations and Changes in Net Position*, and the *Balance Sheet* [within the United States Treasury Financial Report of the United States]."

"The accrual basis of accounting recognizes revenue when it is earned and recognizes expenses in the period incurred, without regard to when cash is received or disbursed. The federal government, which receives most of its revenue from taxes, nevertheless, recognizes tax revenue when it is collected, under an accepted modified cash basis of accounting.

Expenses are recognized during the period in which they are incurred. Accrual accounting, for example, recognizes that while the employee is working, the employee earns not only a salary but also health, pension, and other benefits that will be paid in the future during the employee's retirement. Accordingly, each year, on the basis of actuarial calculations of benefits earned, the federal government records as an expense (operating cost) an estimated amount for these earned benefits and increases the related liability – Federal Employee and Veteran Benefits Payable – for the amount owed to its employees, both civilian and military."

"Also under accrual accounting, the federal government reports physical assets when they are acquired and records related expenses when the federal government benefits from their use or consumption or when they are sold. Physical assets consist of inventories of goods held for sale or for future consumption and long-lived or "fixed" assets such as land, buildings, and equipment. In the case of assets such as buildings and equipment, the annual cost attributed to their use is recorded as depreciation expense."

Loan program costs - reestimates

The Federal Credit Reform Act of 1990 (FCRA) requires agencies to estimate the cost to the government of extending or guaranteeing credit. This cost, referred to as subsidy cost, equals the net present value of estimated cash flows from the government (e.g. loan disbursements and claim payments to lenders) minus estimated cash flows to the government (e.g. loan repayments, interest payments, fees, and recoveries on defaulted loans) over the life of the loan, excluding administrative costs. Discount rates that reflect the federal government's cost of financing are used to determine the net present value of estimated cash flows. Agencies generally update, or reestimate, subsidy costs annually to reflect both actual loan performance and changes in expected loan performance.

Government-run businesses

United States Postal Service (USPS): The USPS is an independent, self-financing agency that delivers mail to some 159 million US locations and provides services through 31,300 retail outlets. With close to half a million workers, it is one of the country's largest employers.

Tennessee Valley Authority (TVA): The Tennessee Valley Authority is the nation's largest government-owned power utility. It sells electricity to businesses and power distributors serving 10 million customers in parts of seven Southeastern states.

The Federal Deposit Insurance Corporation (FDIC): The FDIC insures deposits of up to \$250,000, supervises state-chartered banks that aren't part of the Federal Reserve System, and acts as receiver for failed institutions.

Pension Benefit Guaranty Corporation: The PBGC insures more than 25,000 defined-benefit pension plans with some 35 million members.

Amtrak: Also known as National Railroad Passenger Corporation, Amtrak is a rail carrier that operates a 21,400-mile rail network serving 46 US states, the District of Columbia and three Canadian provinces. It carries about 32 million passengers per year.

Overseas Private Investment Corporation: The corporation supports US foreign-policy goals by providing financing and political-risk insurance for American companies that invest in developing nations.

Export-Import Bank: The bank provides services including export-credit insurance, working capital guarantees and loan guarantees to US exporters. It also offers trade finance to foreign buyers of US products.

St. Lawrence Seaway Development Corporation: The corporation, created in 1954, operates and maintains the portion of the St. Lawrence Seaway that runs through US territory between the Port of Montreal and Lake Erie.

Valles Caldera Trust: The trust operated the 89,000-acre Valles Caldera National Preserve in New Mexico's Jimenez Mountains until 2015, when the wilderness was handed over to the National Park Service.

Commodity Credit Corporation: The CCC was created in 1933, during the Great Depression, to support farm income and prices. Its operations include providing loans to farmers, as well as export credits, disaster insurance and conservation programs. It also authorizes the sale of agricultural commodities to other government agencies and foreign governments and donations of food to relief agencies.

Presidio Trust of San Francisco: In partnership with the National Park Service, the Presidio Trust operates the Presidio, a 1,491-acre national park that encompasses a former US Army post, museums and archeological sites.

Federal Crop Insurance: The Federal Crop Insurance Corporation, through its Risk Management Agency, reinsures crop-insurance policies purchased by farmers from private firms and also provides subsidies for premiums.

Federal Financing Bank: The FFB was created in 1973 to centralize and reduce the cost of borrowing by federal government agencies. The bank borrows from the Treasury and lends to agencies and agency-guaranteed borrowers.

Ginnie Mae: Also known as the Government National Mortgage Association, Ginnie Mae provides financing to the housing market by guaranteeing payment of interest and principal on mortgage-backed securities insured by federal agencies, including the Federal Housing Administration.

Federal Prison Industries (UNICOR): The corporation provides vocational training to federal prisoners and uses their labor to produce goods and services that are sold to federal agencies.

Air Transportation: Federal aid for construction, operation, and support of public airports; and other distributions from the Federal Airport and Airway Trust Fund.

Toll Highways: Fees from turnpikes, toll roads, bridges, ferries, and tunnels; rents and other revenue from concessions (service stations, restaurants, etc.); and other charges for use of toll facilities.

Parking Facilities: Provision, construction, maintenance, and operation of public parking facilities operated on a commercial basis.

Sea and Inland Port Facilities: Canal tolls, rents from leases, concession rents, and other charges for use of commercial or industrial water transport and port terminal facilities and related services.

Mass Transit: Operation, maintenance, and construction of public mass transit systems, including subways, surface rails, and buses.

Water Utilities: Revenue from operations of public water supply systems, such as sale of water to residential, industrial, and commercial customers (including bulk water for resale by other private or public water utilities); connection and "tap" fees; sprinkler fees; meter inspection fees; late payment penalties; and other operations revenues.

Gas and Electric Utilities: Revenue from operations of public electric power-supply systems, such as sale of electricity to residential, commercial, and industrial customers (including electricity for resale by other private or public electric utilities); and other operations revenues. Revenue from operations of public gas supply systems, such as sale of natural gas to residential, commercial, and industrial customers (including natural gas for resale by other private or public gas supply utilities); connection fees; and other operations revenues.

Sewerage and Waste Management: Charges for sewage collection and disposal, including sewer connection fees. Fees for garbage collection and disposal; operation of landfills; sale of recyclable materials; cleanup of hazardous wastes; and sale of electricity, gas, steam, or other by-products of waste resource recovery or cogeneration facilities.

Liquor Stores: Operation and maintenance of government operated retail or wholesale liquor monopolies.

Lotteries: Proceeds from the operation of government-sponsored lotteries after deducting the cost of prizes.

Composition of segment expenditures

Justice and Domestic Tranquility

Crime and disaster expenditures include expenditures for:

- disaster relief, including federal assistance and the national flood insurance program;
- *the justice system,* including courts;
- law enforcement and corrections, including police protection, investigation, and correctional facilities; and
- fire protection.

Child safety and miscellaneous social services expenditures include expenditures for:

- *children services*, such as child welfare programs, foster care, adoption, day care, nonresidential shelters, and the like: and
- social services, such as general social services programs, social services to the physically disabled, such as transportation, and temporary shelters and other services for the homeless.

Safeguarding consumers and employees expenditures include expenditures for:

- regulation and inspection of food and drugs and related establishments;
- inspection of plans, permits, construction, or installations related to buildings and related systems, electric power plant sites, nuclear facilities, and weights and measures;
- regulation of financial institutions, taxicabs, public service corporations, insurance companies, private utilities, and other corporations;
- licensing, examination, and regulation of professional occupations, including health-related ones like doctors, nurses, barbers, and beauticians;
- inspection and regulation of working conditions and occupational hazards;
- patents and copyrights;
- motor vehicle inspection and weighing; and
- regulation and enforcement of liquor laws and sale of alcoholic beverages.

Common Defense

National defense and support for veterans expenditures include expenditures for:

- *national defense*, including military operations and maintenance; personnel; procurement, including ships, aircraft, and weapons; and research, development, test, and evaluation; and
- *support for veterans*, including benefits for housing, medical care, readjustment, and pension and disability, among others.

Immigration and border security expenditures include expenditures for immigration, visa, and citizenship services; customs; and border protection.

Foreign affairs and foreign aid expenditures include expenditures for:

- international development and humanitarian assistance, including global health programs, migration and refugee assistance, international development assistance, international disaster assistance, and foreign agricultural assistance;
- international security assistance, including foreign economic and military support; and
- other foreign affairs, including diplomatic and consular programs, embassies, contributions to international peacekeeping and other organizations, offset in part by income from sales of articles and services to foreign countries and international organizations.

General Welfare

Economy and infrastructure expenditures include expenditures for:

- transportation, including air, water, highway, and railroad;
- space exploration;
- general science and basic research;
- general commerce, including liquor stores, lotteries, hospitals, and other government-run businesses; and
- banking and finance, including deposit insurance and the Troubled Asset Relief Program (TARP).

Standard of living and aid to the disadvantaged expenditures include expenditures for:

- refundable tax credits, including the Child Tax Credit, Earned Income Tax Credit, and Premium tax credit;
- other cash and non-cash programs to aid the disadvantaged, including Medicaid, the Supplemental Nutrition Assistance Program, Supplemental Security Income, Unemployment Insurance, Pell grants, housing and community development programs, and health services for American Indians.

Health (excluding Medicaid and Medicare) expenditures include expenditures for:

• public health, health resources and services for people geographically isolated or economically or medically vulnerable, and disease control and prevention, as well as expenditures for shared Medicare and Medicaid that our Government has not allocated to one program or the other.

Blessings of Liberty

Education expenditures include expenditures for elementary, secondary, and higher education inside the classroom and education outside the classroom, such as museums and libraries, offset in part by fees paid by students and visitors.

Wealth and savings expenditures include expenditures for:

- retirement programs, including Social Security and military, civil service, and railroad retirement and health benefits plans;
- saving for healthcare in old age, including Medicare;
- interest on government debt; and
- general housing support, including TARP for housing.

Sustainability and self-sufficiency expenditures include expenditures for:

- environment and natural resources, including civil works projects by the Corps of Engineers, forest management, fire management planning, weather and climate monitoring and associated warning systems, fisheries management and game programs, coastal restoration, supporting marine commerce, cleanup of hazardous materials, and general management of land owned or leased and managed by our Government, including parks, offset in part by revenues from mineral and other resource leases and sales;
- agriculture, including farm services, federal crop insurance, and agriculture disaster relief;
- *energy programs*, including delivery and reliability, efficiency and renewables, and reimbursements of applicants for certain purchases of energy related property; and
- *other utilities*, including sewerage, waste management, and water supply.

General government support and other

General government support and other expenditures include expenditures for central staff services, financial administration, the Internal Revenue Service, and general public buildings.

Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds (the Trustees) projections of OASDI trust fund solvency

The following projections and accompanying text are excerpts from the 2019 Annual Report of the Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds (the Trustees' Report). You can find the Trustees' Report at https://www.ssa.gov/OACT/TR/2019/tr2019.pdf.

Background

The Trustees have traditionally shown estimates using the low-cost and high-cost sets of specified assumptions to illustrate the potential implications of uncertainty. These alternative estimates provide a range of possible outcomes for the projections. However, they do not provide an indication of the probability that actual future experience will be inside or outside this range. [Appendix E of the Trustees' Report] presents the results of a model, based on stochastic modeling techniques, that estimates a probability distribution of future outcomes of the financial status of the combined OASI and DI Trust Funds. This model, which was first included in the 2003 report, is in the process of further development.

Stochastic methodology

Other sections of [the Trustees' Report] provide estimates of the financial status of the combined OASI and DI Trust Funds using a scenario-based model. For the scenario-based model, the Trustees use three alternative scenarios (low-cost, intermediate, and high-cost) that use specific assumptions about levels of fertility, rates of change in mortality, lawful permanent resident (LPR) and other-than-LPR immigration levels, legal and other-than-LPR emigration levels, changes in the Consumer Price Index, changes in average real wages, unemployment rates, trust fund real yield rates, and disability incidence and recovery rates. In general, the Trustees assume that each of these variables will reach an ultimate value at a specific point during the long-range period, and will maintain that value throughout the remainder of the period. The three alternative scenarios assume separate, specified values for each of these variables. Chapter V [of the Trustees' Report] contains more details about each of these assumptions.

[Appendix E of the Trustees' Report] presents estimates of the probability that key measures of OASDI solvency will fall in certain ranges, based on 5,000 independent stochastic simulations. Each simulation allows the above variables to vary throughout the long-range period. The fluctuation of each variable over time is simulated using historical data and standard time-series techniques. Generally, each variable is modeled using an equation that: (a) captures a relationship between current and prior years' values of the variable, and (b) introduces year-by-year random variation based on variation observed in the historical period. For some variables, the equations also reflect relationships with other variables. The equations contain parameters that are estimated using historical data for periods from 12 years to over 110 years, depending on the nature and quality of the available data. Each time-series equation is designed so that, in the absence of random variation over time, the value of the variable for each year equals its value under the intermediate assumptions. More detail on this model, and stochastic modeling in general, is available at https://www.ssa.gov/OACT/stochastic/index.html.

For each simulation, the stochastic method develops year-by-year random variation for each variable using Monte Carlo techniques. Each simulation produces an estimate of the financial status of the combined OASI and DI Trust Funds. [Appendix E of the Trustees' Report] shows the distribution of results from 5,000 simulations of the model.

Readers should interpret the results from this model with caution and with an understanding of the model's limitations. Results are sensitive to equation specifications, degrees of interdependence among variables, and the historical periods used for estimating model coefficients. For some variables, recent historical variation may not provide a realistic representation of the potential variation for the future. Also, results would differ if additional variables (such as labor force participation rates, retirement rates, marriage rates, and divorce rates) were also allowed to vary randomly. Furthermore, more variability would result if statistical approaches were used to model uncertainty in the central tendencies of the variables. Time-series modeling reflects only what occurred in the historical period. Future uncertainty exists not only for the underlying central tendency but also for the frequency and size of occasional longer-term shifts in the central

tendency. Many experts predict, and history suggests, that the future will likely bring substantial shifts that are not fully reflected in the historical period used for the current model. As a result, readers should understand that the true range of uncertainty is larger than indicated in [Appendix E of the Trustees' Report].

Table VI.E1

Table VI.E1 displays long-range actuarial estimates for the combined OASDI program using the two methods of illustrating uncertainty: alternative scenarios and stochastic simulations. The table shows scenario-based estimates for the intermediate, low-cost, and high-cost assumptions. It also shows stochastic estimates for the median (50th percentile) and for the 80% and 95% confidence intervals. Each individual stochastic estimate in the table is the level at that percentile from the distribution of the 5,000 simulations. For each given percentile, the values in the table for each long-range actuarial measure are generally from different stochastic simulations.

The median stochastic estimates displayed in table VI.E1 are similar to the intermediate scenario-based estimates. The median estimate of the long-range actuarial balance is -2.83% of taxable payroll, about 0.05 percentage point lower (more negative) than projected under the intermediate assumptions. The median estimate for the open group unfunded obligation is \$14.2 trillion, about \$0.3 trillion larger than the \$13.9 trillion estimate under the intermediate assumptions. The median first projected year for which cost exceeds non-interest income (as it did in 2010 through 2018), and remains in excess of non-interest income throughout the remainder of the long-range period, is 2019. This is the same year as projected under the intermediate assumptions. The median projected year in which asset reserves first become depleted is 2035, also the same as projected under the intermediate assumptions. The median estimates of the annual cost rate for the 75th year of the projection period are 17.89% of taxable payroll and 6.19% of gross domestic product (GDP). The comparable estimates under the intermediate assumptions are 17.47% of payroll and 6.05% of GDP.

For three measures in table VI.E1 (the actuarial balance, the first projected year cost exceeds non-interest income and remains in excess through 2093, and the first year asset reserves become depleted), the 95% stochastic confidence interval falls within the range defined by the low-cost and high cost alternatives. For the remaining three measures (the open group unfunded obligation, the annual cost in the 75th year as a percent of taxable payroll, and the annual cost in the 75th year as a percent of GDP), one or both of the bounds of the 95% stochastic confidence interval fall outside the range defined by the low-cost and high-cost alternatives.

Table VI.E1. – Long-Range Estimates Relating to the Actuarial Status of the Combined OASDI Program

[Comparison of scenario-based and stochastic results]

	S	Tradi cenario-ba	tional ased mod	el		Sto	chastic mo	del	
						80-pe confidenc		95-pe confidenc	
		Low- cost	High- cost	Median 50 th percentile	10 th percentile	90 th percentile	2.5 th percentile	97.5 th percentile	
Actuarial balance		(2.78)	0.19	(6.60)	(2.83)	(4.27)	(1.63)	(5.12)	(1.00)
Open group unfunded obligation (in trillions)	\$	13.9 \$	(2.1) \$	28.1	\$ 14.2	\$ 7.2	\$ 25.0	\$ 4.3	\$ 33.3
First projected year cost exceeds non-interest income and									
remains in excess through 2093		2019	1	2019	2019	2019	2058	2019	2
First year asset reserves become depleted ³		2035	4	2030	2035	2032	2040	2031	2044
Annual cost in 75th year (percent of taxable payroll)		17.47	12.66	24.73	17.89	14.65	22.36	13.09	25.37
Annual cost in 75 th year (percent of GDP)		6.05	4.77	7.86	6.19	5.10	7.68	4.57	8.64

¹ The annual balance is projected to be negative for a temporary period, returning to positive levels before the end of the projection period.

² For this percentile, cost does not exceed tax income in 2093.

³ For some stochastic simulations, the first year in which trust fund reserves become depleted does not indicate a permanent depletion of reserves.

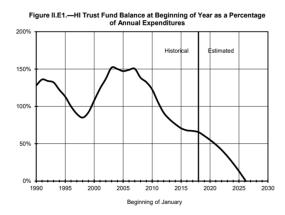
⁴ Trust fund reserves are not estimated to be depleted within the projection period.

The Boards of Trustees of the Federal Hospital Insurance and Federal Supplementary Medical Insurance Trust Funds projections of Medicare trust funds solvency

The following projections and accompanying text are excerpts from the 2019 Annual Report of the Boards of Trustees of the Federal Hospital Insurance and Federal Supplementary Medical Insurance Trust Funds. You can find this report at https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Reports-TrustFunds/Downloads/TR2019.pdf.

HI trust fund

Under the intermediate assumptions, the assets of the HI trust fund would steadily decrease as a percentage of annual expenditures throughout the short-range projection period, as illustrated in figure II.E1. The ratio declines until the fund is depleted in 2026, the same date as projected last year. If assets were depleted, Medicare could pay health plans and providers of Part A services only to the extent allowed by ongoing tax revenues – and these revenues would be inadequate to fully cover costs. Beneficiary access to healthcare services could rapidly be curtailed. To date, Congress has never allowed the HI trust fund to become depleted.



There is substantial uncertainty in the economic, demographic, and healthcare projection factors for HI trust fund expenditures and revenues. Accordingly, the date of HI trust fund depletion could differ substantially in either direction from the 2026 intermediate estimate. As shown in greater detail in section III.B, trust fund assets would increase throughout the entire projection period under the low-cost assumptions. Under the high-cost assumptions, however, asset depletion would occur in 2023.

SMI trust fund

SMI differs fundamentally from HI in regard to the nature of its financing and the method by which its financial status is evaluated. SMI comprises two parts, Part B and Part D, each with its own separate account within the SMI trust fund. The Trustees must determine the financial status of the SMI trust fund by evaluating the financial status of each account separately, since there is no provision in the law for transferring assets or income between the Part B and Part D accounts. The nature of the financing for both parts of SMI is similar in that the law establishes a mechanism by which income from the Part B premium and the Part D premium, and the corresponding general revenue transfers for each part, are sufficient to cover the following year's estimated expenditures. Accordingly, each account within SMI is automatically in financial balance under current law. This result contrasts with OASDI and HI, for which financing established many years earlier may prove significantly higher or lower than subsequent actual costs. Moreover, Part B and Part D are voluntary (whereas OASDI and HI are generally compulsory), and payroll taxes are not the source of income for these programs. The financial assessment described in this section differs in important ways from that for OASDI or HI.

Financing for the SMI trust fund is adequate because beneficiary premiums and general revenue contributions, for both Part B and Part D, are established annually to cover the expected costs for the upcoming year. Should actual costs exceed those anticipated when the financing is determined, future financing rates can include adjustments to recover the shortfall. Likewise, should actual costs be less than those anticipated, the savings would result in lower future financing rates. As long as the future financing rates continue to cover the following year's estimated costs, both parts of the SMI trust fund will remain financially solvent.

Cohort table creation

The families and individuals tables presented by USAFacts show how key economic and demographic statistics vary according to three key variables: market income, family type, and elderly/non-elderly status. These groupings are not available consistently, and therefore we produced estimates using only government data.

The numbers in the families and individuals tables are estimates based on data collected from a variety of government sources, the two most important being microdata from the Current Population Survey (March Supplement) issued by the Census Bureau of the Public Use File issued by the Internal Revenue Service's Statistics of Income Division (IRS-SOI). The CPS is a sample of households representing the US civilian noninstitutionalized population. It contains information on topics such as housing, health insurance, labor status, family arrangement, etc. Unfortunately, the CPS does not contain everything we want, so we supplement that file with data from elsewhere via statistical processes. In the case of income data, we statistically match the IRS Public Use File with the CPS. The IRS data is superior to the CPS income data. In other cases, we impute variables in the CPS from other sources such as the American Community Survey using regression techniques for variables that are common to both files.

There are two types of economic units: families and individuals. We use the Census Bureau's definition for each. If there are two or more related individuals living together, they are a family economic unit. If a person is living alone or in a household with no other related persons, that person is considered an individual economic unit. Therefore, some economic units have only one person, while other economic units have multiple persons.

We rank these economic units, which we call FIUs (family and individual units) by market income to place each in a percentile that shows the unit relative to other units in the population. (There are approximately 147 million family and individual units). After determining each unit's market income percentile relative to all other units, we then place each unit into one of five categories:

- Single person under 65 with no children under 18
- Single person under 65 with children under 18
- Married couple with head under 65 with no children under 18
- Married couple with head under 65 with children under 18
- Head aged 65 or over

It should be the noted that although we divide the families based on presence of children under 18, if a person is aged 18+ and still living in the family with relatives, she would NOT be her own economic unit unless she had her own subfamily.

See this page https://usafacts.org/methodology on our website for additional information on how we created our cohort tables.

Other similar projects

Financial Report of the United States Government and similar state government reports

The US Department of the Treasury (the Treasury) publishes timely (the current version at the time of this report is as of September 30, 2019) an annual Financial Report of the United States Government (the *Financial Report*), which can be found at https://www.fiscal.treasury.gov/fsreports/rpt/finrep/fr/fr_index.htm. Following are key differences between that report and this one:

- The Financial Report is not in the format of a Form 10-K and is missing certain elements thereof;
- The *Financial Report* includes only federal government information, while this report includes federal, state, and local government information;
- The financial statements in the *Financial Report* are prepared by the Treasury on an accrual basis, while our financial statements are a mix of cash and accrual basis data obtained from multiple sources (see *Part I, About This Report, Sources of data* within this annual report for further discussion);
- The *Financial Report* organizes its financial analysis by government department (e.g. the US Department of Justice), while this report's analysis is organized by segments based on the Constitution (see more about this at *Part I, Item 1. Purpose and Function of Our Government, Reporting segments* within this annual report);
- The Financial Report does not systematically discuss key metrics, which measure progress towards our nation's constitutional objectives, while this report does (see Part II, Item 7. Management's Discussion and Analysis, Key metrics by segment within this annual report for more information).

States also produce reports like the *Financial Report*. For example, this one from Colorado https://www.colorado.gov/pacific/sites/default/files/State_of_Colorado_CAFR_FY2018.pdf. We have not drawn data directly from these state reports in the production of this document.

There also exist other privately produced financial reports for our Government, including two that are similar in concept to this one but differ in important ways. We discuss these two immediately below.

USA 10-K

In 2012, a group of individuals published an article through The Wharton School of the University of Pennsylvania arguing "why America needs an annual report." The article argued for a report that was similar in structure to this one. The authors said:

"America's 10-K should borrow liberally from the template of reports issued by public companies large and small. It should include a letter to voters followed by the information that is essential to the country's stakeholders – such as relevant history, recent performance and prospects, a summary of financial condition, management discussion and analysis, future objectives, anticipated risks, related party-transactions, internal controls (including weaknesses and deficiencies), pension and off-balance-sheet liabilities, litigation exposures, and the compensation, benefits and insider purchases and sales of senior officials. It should describe the ability to make accurate forecasts and projections, contain an auditor's report and all necessary qualifications, and conclude with certifications as to accuracy by the top officials."

The article provided a link to a seven-page sample 10-K summary, which you can find at https://d1c25a6gwz7q5e.cloudfront.net/papers/download/07032012_US10-K-sample.pdf. You can find the introductory article at https://knowledge.wharton.upenn.edu/article/usa-10-k-why-america-needs-an-annual-report/.

USA Inc.

USA Inc. is a concept reflected in a report created and compiled by Mary Meeker. Per the foreword of the report:

"This report looks at the federal government as if it were a business, with the goal of informing the debate about our nation's financial situation and outlook. In it, we examine USA Inc.'s income statement and balance sheet. We aim to interpret the underlying data and facts and illustrate patterns and trends in easy-to-understand ways. We analyze the drivers of federal revenue and the history of expense growth, and we examine basic scenarios for how America might move toward positive cash flow."

The objective of the USA Inc. report is like ours in that we seek to inform debate about our nation's financial situation and outlook. However, our approaches differ in the following important ways:

- The USA Inc. report includes only federal government information, while this report includes federal, state, and local government information;
- The USA Inc. report provides significant independent analysis, including projections, judgments, and proposed solutions to potential problems, while we attempt to limit our report to the level of information required of a public company by securities laws and to exclude projections, judgments, or proposed solutions; and
- The USA Inc. report does not systematically discuss key metrics, which measure progress towards our nation's constitutional objectives, while this report does.

The latest USA Inc. report of which we are aware was for 2011. It appears to no longer be publicly available.

Excluded Form 10-K content

Excluded sections

In applying the concepts of the Form 10-K to a government environment, we have excluded certain sections of the form that are not obviously applicable to our Government. The sections we excluded are:

- Item 1B. Unresolved Staff Comments not applicable as our Government is not an SEC registrant and is not holistically regulated by any other entity that might give them comments;
- Item 4. Mine Safety Disclosures not applicable as our Government does not operate any mines that we are aware of and therefore we don't have any government data to report on this topic;
- Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities not applicable as our Government does not issue equity securities, only debt;
- Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure our Government has various accountant relationships (e.g. the federal government is audited by the GAO, certain government-run businesses, like the post office, are audited by public accounting firms), however, aggregated information is not readily available, and therefore we have not presented it;
- *Item 9B. Other Information* this is a catch-all category for companies to report timely to shareholders, information that is not otherwise required by the report, which is not applicable as this report is not focused on reporting the most recent government data but rather providing the most comprehensive analysis practicable;
- Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters not applicable for the same reasons that Item 5 is not applicable, only debt;
- Item 14. Principal Accounting Fees and Services not applicable for the same reasons that Item 9 is not applicable; and
- Item 16. Form 10-K Summary not applicable as we do not prepare this optional summary of our 10-K report.

Excluded financial statements

Within a public company's Form 10-K, you would find the following financial statements and notes thereto:

- income statements, prepared on an accrual basis of accounting;
- statements of comprehensive income, prepared on an accrual basis of accounting;
- balance sheets, prepared on an accrual basis of accounting;
- cash flow statements; and
- statements of stockholders' equity.

We have diverged a bit in this report from these traditional financial statements. Foremost, we have provided two income statements – functional income statements organized by type of revenue and expenditure and segment income statements organized by reporting segment, both on a hybrid basis of accounting. We have used data with a hybrid basis of accounting primarily because of a lack of accessible, aggregated, detailed state and local data created on a consistent accounting basis, and we have favored cash basis federal data because of our desire to focus the financial portion of our document on a concept central to government analysis and debate – "the deficit." By "the deficit," we mean the excess of combined US government (federal, state, and local) annual cash outflows over annual cash inflows.

We have also:

- not provided statements of comprehensive income due to a lack of readily available other comprehensive income data for our Government;
- not provided cash flow statements, as our income statements are as close to cash basis as we are able to report
 at this time and therefore cash flow statements would be mostly duplicative; and
- not provided statements of stockholders' equity, as our Government does not issue equity.

Please see Part I, About This Report, Structure and content, Sources of data, Financial statement and related data within this annual report for more information on the content and preparation of the income statements and balance sheets included in this report.

Data reliability considerations

Some of the data we have sourced may not be reliable for a number of reasons, including disclaimed audit opinions, restatements of data, and issues specific to Census data.

Audits

Certain departments of the federal government have received disclaimed audit opinions on their audit reports, meaning the auditors were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion on the financial statements. Each year, the Government Accountability Office (GAO) report within the *Financial Report of the United States Government*, lists the federal government departments that have received disclaimed audit opinions for that year. The Department of Defense has received a disclaimed audit opinion every year since the federal government began preparing the federal government's consolidated financial statements 22 years ago. In addition, the GAO report notes that the federal government has material weaknesses resulting in ineffective internal controls over financial reporting for each of the fiscal years included in our financial statements. We are not able to correct for these issues in this report and therefore are not able to provide assurance on the completeness and accuracy of the information.

The Department of Defense Office of Inspector General (DoD OIG) conducted and oversaw the first full audit of the DoD's financial statements in 2018. On November 15, 2018, the DoD OIG issued a disclaimer of opinion on the financial statements. The audit identified 20 overall material weaknesses and more than 2,400 notices of findings and recommendations, including weak information technology controls, insufficient controls to ensure the accuracy and completeness of property, and incomplete universes of financial transactions. For more information on this audit and its findings see *Understanding the Results of the Audit of the DoD FY 2018 Financial Statements*.

The financial data we use for our state and local government reporting within this report is generally not audited.

Restatements

In addition to being qualified by disclaimed audit opinions, the data in government reports is often restated, particularly the two most recent years and often the Census data, which is subject to sampling and data collection error. See more about the Census process at https://www.census.gov/govs/classification/index.html and under *Census data* below.

When a company discovers that it needs to restate material information in its annual report, it is required to issue a statement of non-reliance telling the public to not rely on the information until it is restated. Government entities that do not file with the Securities and Exchange Commission do not do that, and we will not do that for this report. Rather, we will update this report annually, and we will restate information contained herein that our Government has updated in the interim in our next annual report. We may update certain data used in this report on our website as it becomes available, sometimes more frequently than annually (see *Part I, Item 1. Purpose and Function of Our Government, Available information*).

Conflicting data

Our Government often releases conflicting numbers for the same data point. This occurs within and across government entities. In these cases, we select the measure to present after considering the breadth and depth of the data available at each source and sometimes, after consultation with subject matter experts. Rarely, we present each of the conflicting figures in this report or on our website.

Census data

The Census warns us not to use their data in the way that we are using it. However, there is no alternative source of aggregated state and local government income statement data, and it was not reasonable for us to create this data set in this phase of our project. Here is the warning from the Census:

"Although the original sources for finance statistics are accounting records of governments, the data derived from them are purely statistical in nature. Consequently, the Census Bureau statistics on government finance cannot be used as financial statements, or to measure a government's fiscal condition. For instance, the difference between a government's total revenue and total expenditure cannot be construed to be a 'surplus' or 'deficit.'"

The Census tells us there are several reasons why these survey data are not suitable for measuring the financial condition of a government, any of its sectors, or any of its dependent agencies:

- The Census Bureau intentionally excludes several important accounting measures from its statistics. One example involves public employee retirement systems, which exclude measures of future liability, future revenue streams, and all related measures of future solvency (such as the potential amount of unfunded liabilities). These cannot be calculated from Census Bureau statistics.
- The Census Bureau program develops these data to measure the economic activity of state and local governments in general. The definitions used in Census Bureau statistics about governments can vary considerably from definitions applied in standard accounting reports.
- Definitional differences can include those of coverage (what constitutes a government entity), functional activity, financial transaction (revenue, expenditure, indebtedness, and asset), or measurement (cash versus accrual accounting, or asset valuation procedures).
- Census Bureau data include the operations of dependent agencies whose finances are reported outside those of the parent government.

Data comparability considerations

Unlike information about a corporation, the data for our Government come from numerous and varied sources. Each of these sources may prepare the data on different accounting bases (e.g. cash vs. accrual) and for different time periods (e.g. a point in time vs. a full year, calendar year vs. fiscal year). This lack of comparability of data makes analysis of our Government challenging. We have highlighted key data challenges and our solutions in this exhibit and Exhibit 99.13. We acknowledge our solutions are not perfect and seek to continually refine our approach as we release future reports. However, we do not anticipate true solutions to these challenges other than government-wide data availability and comparability initiatives.

Financial statement data

Reporting periods

The financial statement and related data in this report, unless otherwise noted, is on a fiscal year basis. This means it represents, for:

- *Income statements* data for the annual period from October 1 to September 30, for the federal government and from July 1 to June 30, generally, for state and local governments; and
- Balance sheets data as of September 30 for the federal government and June 30 for state and local governments.

When we combined federal and state and local data, we added the figures together, without adjusting for differences in fiscal years. This is consistent with what a corporation may do for subsidiaries that it consolidates, which have different fiscal year ends than each other or the parent company. This is allowed by accounting rules when the fiscal periods of the entities being combined end within 90 days of each other, as they do for the US federal and state and local governments in nearly every case.

New York is the only exception, as its fiscal year end is March 31, which is not within 90 days of the latest fiscal year end within the combined group (September 30); New York's fiscal year end is off by an additional 90 days. This is only a potential concern for our income statements, as we used New York's (and all other states') June 30 information for our balance sheets. New York's revenue represents approximately 5% of our Government's revenue, and a reasonable approximation of 90 days of its average revenue is roughly \$60-70 billion. In combining the income statements, we include 12 months of data for each entity, but we include different 12-month periods depending on the respective entity's fiscal year (i.e. October 1 to September 30 for the federal government and April 1 to March 31 for New York). Therefore, incomparability that could arise from using data from different fiscal year periods would not be due to missing data but rather seasonality of the data. A reasonable estimate of the seasonality variability of 90 days of New York's revenue or expenses is immaterial. As: the Census has already aggregated the state and local government data; modifying that data to extract, recalculate, and reintroduce adjusted New York data introduces complexity and risk; and the estimated impact of not modifying is not material to our Government's overall financial statements, we have not made any modifications for New York and have simply added the aggregated state and local data to the federal data to form the combined group.

Intergovernmental transfers

In combining the federal and state and local data, we eliminated known intergovernmental transfers, in the same way that a company eliminates intercompany transfers among subsidiaries and the parent company. For example, the federal government reports grants to states as expenditures, and the states in turn also report the subsequent uses of those funds as expenditures. To eliminate double counting, we count the expenditure (or revenue) only once, in either the federal or state or local government, whichever is the ultimate spender (in the case of expenditures) or recipient (in the case of revenues) of the funds. Similarly, we eliminate intergovernmental assets and liabilities. For example, state and local governments own Treasury securities, and the federal government has a corresponding liability for the securities. We eliminated these intergovernmental assets and liabilities in creating our combined financial statements. For more information on transfers eliminated, see *Part II, Item 8. Financial Statements and Supplementary Data, Notes to financial statements, Note 23 – Intergovernmental transfers* within this annual report.

Management's discussion and analysis (MD&A) data

An MD&A is intended to provide the reader with an analysis of the financial statements for the periods presented, essentially a "drill down" from the financial statements, including an analysis of the changes in the income statements from period to period. Our income statements are presented on a fiscal year basis, as discussed above. On the other hand, a large portion of the detailed government financial information and related figures (e.g. numbers of people) is available only on a calendar year basis. This makes analyzing the income statement data difficult, as it is not possible to "drill down" to lower levels of detail from the fiscal year data. Therefore, to prepare the MD&A within this report, we were required to convert much of our source data from calendar year to fiscal year.

In cases where monthly or quarterly data was available, we created fiscal year data by reassembling data from these more detailed periods. Where only annual calendar year data was available, we used one simple formula to create federal fiscal year data – 25% of the prior calendar year figure plus 75% of the current calendar year figure, as well as one other simple formula to create state and local fiscal year data – 50% of the prior calendar year figure plus 50% of the current calendar year figure. Of course, these two formulas do not produce the true fiscal year figures. However, no alternative method of calculation would be accurate, and the method we have chosen, when consistently applied, forms a reasonable basis for our analysis. All the figures (in the MD&A and elsewhere in this report) that were converted from calendar year to fiscal year in this manner are indicated by * (one asterisk) for federal and ** (two asterisks) for state and local.

Certain tax and other law changes go into effect during the fiscal year, so only part of the fiscal year reflects the changes. Furthermore, the tax filing season (and therefore cash receipt and the recording of revenue by our Government) for any tax year is in the following fiscal year, therefore, tax law changes within a particular tax year have a disproportionate influence on revenue for the following fiscal year. As income tax revenue is collected via withholding and estimated tax payments throughout the year, this impact is somewhat tempered for this revenue source.

Other data

Other data within this report comes from many sources and may have similar challenges to those discussed above.

Modification of data

We have sourced the data included in this report directly from the sources listed in Exhibit 99.01 and where possible, have not revised it. In certain cases, where necessary to make the data comparable or comprehensible, we have modified the data. Specifically, we modified the following data:

- All data throughout this document that is accompanied by one asterisk (*) or two asterisks (**) was converted from a calendar year basis to a fiscal year basis using the formulas described within this report at Exhibit 99.12 and at Part II, Item 7. Management's Discussion and Analysis, Overview, Other factors affecting this discussion, Modification of data. This modification was required because data is not provided by our Government on a consistent basis, and to do a full analysis, one must have data on a consistent basis;
- The cohort tables within this report at Part I, Item 1. Purpose and Function of Our Government, Customers, Cohorts of our population and Part II, Item 7. Management's Discussion and Analysis, Key metrics by segment, were created by us using data collected from a variety of government sources, the two most important being two microdata sets: the Current Population Survey (March Supplement) issued by the Census Bureau and the Public Use File issued by the IRS Statistics of Income Division (see more on our methodology in Exhibit 99.08);
- For the combined functional income statements, to provide compensation for personnel past and present, we combined Department of the Treasury (Treasury), Office of Management and Budget (OMB), and Census data with compensation data from the US Bureau of Economic Analysis (current payments for wages and salaries and health benefits). See this page on our website https://usafacts.org/methodology for detailed information on the composition of our combined functional income statements;
- For the combined segment income statements, we have regrouped Treasury, OMB, and Census data into our financial statement and reporting segment categories for presentation purposes. See this page on our website https://usafacts.org/methodology for detailed information on the composition of our combined segment income statements; and
- We calculated the breakout of year over year tax revenue changes between tax base changes (generally taxable income) and tax rate changes by holding one variable constant while changing the other, as follows:

Hold year 1 average tax rate constant and assume it also applies to year 2. That is, multiply the year 1 rate by the year 2 base. Then compare this figure to the actual revenue in year 1. The difference is how much was attributable to the base change. The residual is the amount of revenue change that is attributable to the rate change.

For example, assume the rate in 2013 is 20%. Assume the base in 2013 is \$1,000. This implies revenue of \$200. Now suppose the base in 2014 is \$1,200 and the revenue is \$300. The amount attributable to the base increase would be calculated by assuming the 20% rate applied to the new base of \$1,200. This would imply a revenue of \$240 if the rate was held constant. Therefore, \$40 of the revenue increase is attributable to the base increase. The remainder (\$60 = \$300 - \$240) is attributable to the rate change.

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